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# Commercial Feeds

ANNUAL REPORT

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Bulletin No. 63-P

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Iowa Department of Agriculture

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CLYDE SPRY  
Secretary

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## I. Levin, State Chemist

This bulletin is a report on the work performed by the State Department of Agriculture in the inspection of commercial feedingstuffs sold on the Iowa market. It includes additional information which will be of interest to the manufacturer and consumer of feeds.

During the year 1958 there were 14,964 commercial feeds, 595 minerals and 506 stock tonics registered for sale in Iowa.

## SUGGESTIONS TO PURCHASERS OF FEEDS

The purchaser of feeds is advised always to read carefully the statements on the tag attached to the bag or on the bag itself. There he will find a list of the ingredients in the feed together with a guaranteed analysis of the minimum per cent of crude protein and crude fat and the maximum per cent of crude fiber. When the minerals exceed 5%, the label will additionally guarantee the minimum per cent of Phosphorus (P) and Iodine (I) and the maximum per cent of Calcium (Ca) and Salt (NaCl).

In addition medicated feeds must guarantee the active drug ingredient, must state the purpose for which the drug is to be used and must give adequate directions for use. These analyses and the list of ingredients may enable the purchaser to judge the suitability of the product for his needs.

Purchasers and users of medicated feeds are advised to pay careful attention to the directions for use. For instance, (1) NICARBAZIN must be fed only to poultry intended for slaughter. If fed to layers and breeders, it will cause the hen to produce eggs without shells or deformed eggs; (2) UREA at levels of 25% to 30% non-protein nitrogen must be fed to cattle at the rate of not more than one and one-half pounds per head per day. If cattle are not accustomed to products consisting of mixtures of urea and some type of feeding molasses, they will overeat if allowed to feed free choice, and thus will consume too much urea. This may produce urea poisoning and death.

In order to protect the consumer of livestock and poultry the feeder is advised to carefully follow directions which advise him to discontinue feeding a certain number of days before slaughter. The following are a few examples:

- (1) Arsenicals such as arsanilic acid, sodium arsenate, arsenobenzene, 3-nitro-4-hydroxyphenylarsonic acid and 4-nitro phenylarsonic acid—discontinue feeding five days before slaughter.
2. Nicarbazin—discontinue feeding four days before slaughter.

## NOTICE TO MANUFACTURER OF FEEDS

Commercial feeds include all feeds and feed ingredients to be used for feeding to domestic animals, except whole grain (unmixed), hay, straw and unmixed meals made from the entire grains of wheat, rye, barley, oats and corn; this includes cracked corn and oat meal.

The law covers all feeds and feed ingredients offered for sale on the market with the above exceptions.

Minerals include calcium carbonate (limestone and shells) bone meal, rock phosphate, calcium phosphates, soft phosphate with colloidal clay, potassium iodide, salt, manganese sulphate, zinc oxide, iron oxide, cobalt acetate, etc. A list of additional mineral ingredients will be found on page 45.

Products which are labeled to give prominence to the trace mineral content either in the brand name or in conjunction with the brand name must guarantee each listed trace mineral in terms of the per cent of trace element.

When the mineral ingredients exceed five per cent, the label must guarantee the maximum per cent of Calcium (Ca) and Salt (NaCl) and the minimum per cent of phosphorus (P) and Iodine (I).

The proper names of the ingredients must be used. A list of the correct names of the ingredients will be found on pages 16 to 60.

For ruminant feeds containing urea the label must guarantee the equivalent crude protein from non-protein nitrogen in addition to the guarantee for total crude protein. Improper use of urea might be the cause of animals sickening and dying. Therefore, a further restriction is placed on the labeling of those feeds which either derive more than one-third of their total crude protein from non-protein nitrogen or which derive more than 8.75% of their total crude protein from non-protein nitrogen. In these instances the front of the label must contain the following warning statement—WARNING: This feed should be used only in accordance with directions furnished on the label.

If a person desires to label a commercial feed so as to give prominence to the words vitamin or antibiotic or the specific names of vitamins or antibiotics either in the name of the product, on the front of the label or in directions for use, he must guarantee the listed vitamins and/or antibiotics in the proper units per pound. For antibiotics guarantees must be made in grams per pound of feed. For the B-complex vitamins guarantees must be in milligrams per pound. For all other vitamins guarantees must be stated either in milligrams per pound, USP units per pound, International Chick Units per pound or International Units per pound.

Medicated feeds which contain medicinals in less than treatment dosages and which are not labeled or advertised to be a treatment but which are to be fed continuously or almost continuously until the livestock or poultry can build their own immunity to certain types of disease do not fall under the stock tonic classification of the Act. Antibiotics are considered to be therapeutic (medicinal) when they are present in quantities of 50 grams per ton or more.

Labels for these products must follow the approved type medicated formats. If for growth promotion, or for the control of certain diseases on an almost continuous feeding basis, the Type 1 format is required. If for the treatment of certain diseases and/or short time or intermittent feeding, the Type 2 format is required.

All commercial feeds (this includes feed ingredients) must be registered with the Department of Agriculture on forms which will be furnished upon request.

They must be labeled to show the net weight; name and address of the manufacturers, dealers or distributors; brand name and type of feed; guaranteed analysis of crude protein, crude fat and crude fiber and Calcium (Ca), Salt (NaCl), Iodine (I) and Phosphorus (P) when the mineral ingredients exceed 5%; and the list of ingredients. Information required to be shown on the label can be printed on the package on the principal label or on a tag attached to the package and must be in type of not less than 8-point heavy Gothic Caps.

A registration fee of 50¢ must accompany each application. When the application is approved, it will be processed and a numbered certificate of registration will be issued permitting the applicant to make Iowa sales of the commercial feed. Certificates of registration expire December 31 after date of issue and must be renewed January 1 for Iowa sales the following year.

An inspection fee of 10¢ per ton is required, and this is to be paid on July 15 and January 15 of each year for the preceding six months. Such payment

must be accompanied by a sworn affidavit as to the tonnage of feed sold during the six-month period. The necessary forms will be sent to each manufacturer of feeds in time for him to make such report and remit to the department at the rate of 10¢ per ton.

The first person or firm selling a commercial feed (this includes feed ingredients) in Iowa is responsible for the tonnage inspection fee. It is suggested that invoices covering feed ingredients be marked "Tonnage Inspection Fee Paid" in order that the mixer may use the invoices as his authority to deduct these items on his tonnage inspection report. This procedure eliminates duplicate payment of the fee.

The foregoing does not vacate the authority of the Secretary of Agriculture to be the sole collector of the tonnage inspection fees which are due the state under the Act.

Manufacturers are advised to keep a proper record of the amount of each kind of feed made. This will simplify matters and assist the department when it is desired to check such records for accuracy.

All checks or drafts should be made to the Secretary of Agriculture.

### CUSTOM MIXES

That type of operation known to the feed trade as "custom mixing" is now subject to the provisions of the Iowa Commercial Feed law with respect to registration, tonnage report and fees.

Nowhere in the Iowa Commercial Feed law or in the General laws relating to food products is "Custom Mix," "Customer Mix" or "Bulk Blending" defined. It is a term that has been applied to a certain type of mixing operation. Originally it meant that the farmer brought his home-grown grains to a person who had grinding facilities, and he requested that his grains be ground with some mineral he purchased from the operator of the grinder.

A simplified plan has been adopted so that "custom mixers" may continue to do business as they have with only an infinitesimal amount of extra work compared to the benefits which will be derived. Under this plan each "custom mixer" will be required to secure no more than four basic certificates of registration unless he is also engaged in specialized fields. He will obtain one for "Custom Swine Feeds" which will cover all the swine feeds which he mixes on a "custom mix" basis. The other classes are "Custom Bovine Feeds", "Custom Poultry Feeds" and "Custom Turkey Feeds." It may be necessary to add another classification or two to cover "Special Lab Mixtures," "Horse and Mule Feeds," etc.

The certificate of registration is filled in by stating the classification, the name and address of the registrant, and by signing the form and having the signature notarized. No attention will be paid to the guaranteed analysis and list of ingredients. They will not be filled in on the form. Registrant must give the purchaser an invoice covering the amount of each item such as corn, oats, soybean oil meal, etc., mineral mixes or minerals, pre-mixes, supplements, concentrates, vitamin mixes or vitamins and antibiotic mixes and any other substance which might be added. The invoice now becomes the label for the "custom mix." In fact it is an "open formula" type label which to the thinking of many people is superior to the guarantee for certain constants. Our microscopists and chemists can microscopically and chemically determine whether the purchaser has obtained what is called for in the invoice.

Thus, the purchaser is protected by the provisions of the Iowa Commercial Feed law. The Department will be able to collect samples of "custom mixes" for official procedures to make certain that livestock feeders are obtaining what is designated in the invoice. The livestock feeder is further protected by

the Act in that he will be permitted to submit samples of "custom mixes" which he has purchased to our laboratory for an analysis for the nominal fee set up in the Act. These services have heretofore not been available to the purchaser of so-called "custom mixes."

### DEFINITIONS AND TERMS

**Crude Protein** includes all of the nitrogenous compounds of the feed. It is equal to 6.25 times the nitrogen present. Protein is used by the animal to build tissue and muscles and to form flesh.

**Crude Fat** is composed of the fats and oils extracted with ether. Fat is used by the body to produce body fat and heat.

**Crude Fiber** is the fibrous part of plants. It is the least digestible portion of the feed.

### MINERAL MIXTURES

Mineral mixtures are defined by law as a class of commercial feeds and must be registered and pay the inspection fee of 10¢ per ton, semi-annually, the same as other types of feed.

A registration fee of 50¢ is required and an annual registration. They must be labeled with a list of the ingredients, net weight, name and address of the manufacturer, dealer or distributor, and the minimum percentages of phosphorus (P) and iodine (I), and the maximum percentages of Calcium (Ca) and of salt (NaCl).

Those feeds known as concentrates and containing considerable nutritive value and minerals must be registered as feeds and, if the minerals exceed five per cent, must show the minimum percentages of phosphorus (P) and of iodine (I), and the maximum percentages of calcium (Ca) and of salt (NaCl).

### DOG FOODS

Dog foods are defined as a class of commercial feeds and require registration, etc., the same as other commercial feeds.

### STOCK TONICS

Stock Tonics are a class of products, such as medicated stock or poultry feeds, which are composed entirely of drugs or a mixture of feed and drugs.

They are required to be registered with the department on suitable forms. An annual inspection fee of \$6.00 is required on each product. The registration is annual and expires July 15 of each year. There is no provision for prorating this fee.

### POULTRY SHELLS

Poultry Shells and Poultry Limestone are also required to be registered and be labeled to show the kind of shells or ingredients they contain and the percent of calcium carbonate.

PROCEDURE NECESSARY FOR PLACING A FEED ON THE MARKET

First decide on the ingredients and the per cent of each you wish to use (if mixed feed). Have the feed analyzed to determine the per cent of crude protein, crude fat and crude fiber it contains.

Apply to the department for a commercial feed, mineral feed or stock tonic application form. When this is received, fill it out. In place of the net weight, the name of the product, the guaranteed analysis, and list of ingredients applicant should attach either a printed or typed copy of his proposed label to the original and duplicate copies of the application form. Should an applicant need assistance in preparing his proposed label, the department will gladly review applicant's copy and indicate corrections which should be made. Persons seeking this service are requested to submit two copies so that one may be retained for our files. This procedure may save the applicant time and expense. Be sure to sign the forms and have the signatures notarized.

If found in proper form, your application will be processed and the numbered duplicate certificate returned to you for your files. The label on the container or tag label attached to the container must be identical in all particulars with that attached to the certificate of registration. Information required to be presented in the label must accompany each bulk shipment and be supplied to the purchaser.

LABELS

Labels containing the following information must appear on products coming under the Commercial Feeds law. They must be printed on the sack or a tag attached to the sack. They must be plain and legible.

LABEL REQUIRED ON FEEDS

Net weight.....	100 lbs.
Name or brand of feed.....	O. K. POULTRY MASH
Name and address of manufacturer .....	Jones & Co., Minneapolis, Minn.
Analysis .....	Crude Protein, Minimum.....20.00%
	Crude Fat, Minimum..... 4.50%
	Crude Fiber, Maximum..... 3.50%
Ingredients .....	Oat Meal, Wheat Standard Middlings, Alfalfa Meal, Meat Scraps, Corn Meal.

LABEL REQUIRED ON MINERAL MIXTURE

100 lbs. Net	
John Doe Mineral	
Manufactured by	
Grow-Fast Mineral Company	
Cedar Rapids, Iowa	
Guaranteed Analysis	
Calcium (Ca) not more than.....	20.00%
Phosphorus (P) not less than.....	6.00%
Iodine (I) not less than.....	0.06%
Salt (NaCl) not more than.....	11.00%
Ingredients: Limestone, Dicalcium Phosphate, Salt, Iron Oxide, Copper Sulphate, Cobalt Sulphate, Potassium Iodide, Manganese Sulphate, Feeding Cane Molasses.	

## LABEL REQUIRED ON FEEDS WHICH CONTAIN MORE THAN 5% MINERALS

100 lbs. Net Jane Doe Hog Supplement Guaranteed Analysis	
Crude Protein, not less than.....	40.00%
Crude Fat, not less than.....	2.00%
Crude fiber, not more than .....	7.00%
Calcium (Ca), not more than.....	5.00%
Phosphorus (P), not less than.....	2.00%
Iodine (I), not less than.....	.007%
Salt (NaCl), not more than.....	3.00%
Ingredients: Soybean Oil Meal, Tankage, Alfalfa Meal, Ground Limestone, Salt, Potassium Iodide, Steamed Bone Meal, Choline Chloride, Calcium Pantothenate, Riboflavin Supplement, Niacin, Vitamin B12 and Antibiotic Feed Supplement.	
Manufactured for E. Johnson & Company Marquisville, Iowa	

LABEL REQUIRED ON STOCK TONICS (*Powder Form*)

Net Weight or Measure O.K. Stock Tonic Manufactured by K. K. Stock Tonic Co. Ashton, Iowa	
Active Ingredients: Sulfanilimide, Sulfathiazole, Potassium Iodide, Copper Sulphate, Iron Sulphate.	
Total Drugs .....	30.00%
Salt .....	15.00%
Sulphur .....	none %
Charcoal .....	2.00%
Name and per cent of other ingredients: Bicarbonate of Soda, 22%, Linseed Oil Meal 28%, Calcium Carbonate 3%.	

LABELS REQUIRED ON STOCK TONICS (*Liquid*)

1 Gallon HOG LIQUID Joe Doe Remedy Co. Lester, Iowa	
Ingredients: Sodium Hydrate, Licorice, Anise, Worm Seed Oil, Sodium Carbonate, Creosote, Ammonium Chloride.	
Total Drugs .....	20%
Salt .....	none %
Sulphur .....	none %
Charcoal .....	none %
Name and per cent of any other ingredient.....	Water 80%



LABEL REQUIRED ON TYPE 1 MEDICATED COMMERCIAL FEEDS  
(to be registered as a commercial feed)

Net Weight 50 lbs.

**JOHNSON'S BROILER MASH**

Medicated

For the prevention of coccidiosis and for stimulating growth in chicken flocks. Use as directed on reverse side.

Active Drug Ingredients:

Nitrophenide (Megasul) .....	0.02%
Arsanilic Acid .....	0.01%

Guaranteed Analysis  
(as usually listed)

Ingredients  
(as usually listed except do not repeat drug)

Manufactured by  
E. Johnson & Co. Feed Mill  
Marquisville, Iowa

(NOTE: Feeding directions must include statement advising the feeder to discontinue feeding five days before slaughter to allow time for the arsenic to be eliminated from the tissues.)

For antibiotic premix or supplement containing fifty grams per ton or more use Type 1 medicated format and register as a commercial feed.

10 lbs. Net Weight

**JOHNSON'S SWINE PREMIX**

Medicated

For mixing purposes only when used as directed on reverse side.

Active drug ingredients:

Chlortetracycline (Aureomycin) .....	0.10 grams/lb.
Oxytetracycline (Terramycin) .....	0.10 grams/lb.

Guaranteed Analysis  
(as usually stated)

Ingredients  
(As usually stated except do not repeat drug carriers)

Manufactured by  
E. Johnson Feed Mill  
Marquisville, Iowa

(Note: If directions for use indicate treatment for certain diseases and/or short time or intermittent feeding, the Type 2 medicated format is used and product is registered as a stock tonic for Iowa sales.)

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TYPE 2 MEDICATED FORMAT  
(To be registered as a stock tonic)

50 lbs. Net Weight

BLUE BIRD  
MEDICATED CHICK STARTER (1-SQ)

For the treatment of outbreaks of coccidiosis in poultry flocks when fed according to directions on reverse side.

Active Drug Ingredient:

Sulfaquinoxaline .....0.10%

Guaranteed Analysis  
(As usually stated)

Ingredients  
(As usually stated but do not repeat drug)

Manufactured by  
Robin Feed Mill  
Robin, Iowa

TYPE 3 MEDICATED FORMAT  
(To be registered as a stock tonic)

50 lbs. Net Weight

BLUE BIRD  
SWINE WORMER

For the removal of Large Round Worms (*Ascarids Lumbricoides*) in Swine.

Active Drug Ingredient:

Cadmium Oxide .....0.015%

Guaranteed Analysis  
(As usually stated)

Ingredients  
(As usually stated but do not repeat drug)

CAUTION: Use only as directed on reverse side.

Manufactured by  
Robin Feed Mills  
Robin, Iowa

NOTE: Feeding directions must advise the user to discontinue feeding 30 days before slaughter for human consumption.)

TYPE 4 MEDICATED FORMAT  
(to be registered as a commercial feed)

50 lbs. Net Weight

RED BIRD

0.0022% Diethylstilbestrol Mixture  
For Fattening Beef Cattle

Feed at the rate of one pound per head per day.  
Each pound contains 10 milligrams diethylstilbestrol.

Active Drug Ingredient:

Diethylstilbestrol .....0.0022%

Incorporated in  
Red Bird Cattle Supplement

Guaranteed Analysis

Crude Protein, not less than.....	%
(This includes not more than equivalent crude protein from non-protein nitrogen) .....	%
Crude Fat, not less than .....	%
Crude Fiber, not more than .....	%

Ingredients

(As usually listed except add urea and do not repeat drug)

WARNING: This feed should be used only in accordance with directions furnished on the label. (If non-protein nitrogen content is less than 8.75% equivalent crude protein, the phrase—CAUTION: Use as directed is used in place of the above warning.)

Manufactured by  
Robin Feed Mill  
Robin, Iowa

(NOTE: Feeding directions must advise the user to discontinue feeding 48 hours before slaughter.)

Minimum and maximum percentages of Calcium (Ca) and Salt (NaCl) may be stated on the label. This is the only exception to the rule that sliding scales may not be used for guarantees. When minimum and maximum guarantees are used for the items mentioned above, the maximum may be no greater than 1/5 more than the minimum value.

When original containers which are properly labeled and tagged are emptied into bins and bulk sales are made therefrom, the retailer must display on the bin or other bulk container a placard or tag on which is plainly printed the information required by law.

PURPOSE OF THE LAW

1. To require all commercial feeds as defined to be registered, labeled and branded so as to show their value and composition.
2. To protect the consumer against short weight, misbranded and adulterated feeds.
3. To protect the honest manufacturer and dealer from unfair and dishonest competition.
4. To assist the farmer and stock feeder in the selection of economical and suitable feeds.

AVERAGE COMPOSITION OF AMERICAN FEEDING STUFFS

For the purposes of reference, the analysis of various feeding-stuffs are given in the following tables. The figures given are averages of a large number of results:

Taken by special permission of the Morrison Publishing Company, Ithaca, New York, from **Feeds and Feeding**, 20th Edition, by F. B. Morrison.

Feeding Stuff	Average Total Composition				Digestion Coefficients			
	Protein Per Cent	Fat Per Cent	Fiber Per Cent	N-free Extract Per Cent	Protein Per Cent	Fat Per Cent	Fiber Per Cent	N-free Extract Per Cent
<b>DRY ROUGHAGES</b>								
Alfalfa hay, all analyses .....	14.7	2.0	20.0	36.4	72	32	43	71
Alfalfa hay, very leafy (less than 25% fiber) .....	16.5	2.7	22.6	39.5	75	33	41	76
Alfalfa hay, (25-28% fiber) .....	16.0	2.3	27.6	35.8	75	34	42	72
Alfalfa hay, good (28-31% fiber) .....	14.3	1.8	29.6	36.5	72	34	43	71
Alfalfa leaf meal, good .....	21.1	2.8	16.1	39.8				
Alfalfa meal, good .....	15.2	1.9	28.4	37.9	71	30	50	73
Barley straw .....	3.7	1.6	37.7	41.0	25	39	54	53
Clover hay, alsike, all analyses .....	12.0	2.2	27.1	39.8	64	43	49	65
Clover hay, red, all analyses .....	11.8	2.6	27.3	40.1	59	58	51	69
Corn cobs, ground .....	2.3	0.4	32.0	54.1	19	25	56	51
Cowpea hay, all analyses .....	18.6	2.6	23.3	34.6	68	39	47	68
Flax plant by-product .....	6.3	1.2	45.8	32.4	5	25	5	27
Flax straw .....	7.2	3.2	42.5	32.9	81	93	26	44
Kafir fodder, dry .....	8.9	2.8	26.8	43.2	52	59	61	68
Lespedeza hay, perennial .....	14.9	1.4	27.8	39.6				
Millet hay, hog or broom-corn .....	8.8	2.5	21.3	52.2				
Native hay, western mountain states, good quality .....	8.1	2.1	29.8	43.3	60	39	62	62
Oat hulls .....	3.8	1.2	30.6	51.2	21	30	53	40
Oat straw .....	4.0	2.3	36.1	41.2	22	33	59	49
Red top hay, all analyses .....	7.2	2.3	29.3	45.3	62	53	61	63
Ryegrass hay, perennial .....	9.2	3.1	24.2	43.4				
Soybean hay, all analyses .....	14.8	3.3	28.4	37.0	75	60	44	61
Soybean hay, seed well developed .....	15.8	5.1	27.2	36.6				
Sudan grass hay, all analyses .....	8.8	1.6	27.9	42.9	49	52	64	57
Timothy hay, all analyses .....	6.2	2.4	30.1	45.0	46	48	51	58

GREEN ROUGHAGES, ROOTS, ETC.								
Alfalfa, green, all analyses	4.6	1.0	7.0	10.4	74	38	42	72
Alfalfa, before bloom	4.3	0.7	4.4	8.2				
Alfalfa, in bloom	4.4	0.8	7.8	10.4				
Alfalfa, after bloom	2.9	0.6	12.8	11.3				
Brome grass, smooth, all analyses	4.2	1.4	9.7	15.6				
Clover, red, all analyses	4.0	0.9	6.8	11.2	64	63	53	71
Clover, sweet	3.9	0.7	6.4	9.2	78	51	60	69
Corn fodder, dent, all analyses	2.0	0.6	5.6	14.5	59	74	63	73
Rape	2.9	0.6	2.6	8.1	89	49	87	92
SILAGES								
Alfalfa, wilted before being ensiled	10.0	2.5	14.2	22.0				
Clover, red	3.9	1.3	6.7	10.4	51	62	49	61
Clover, sweet	4.5	0.9	9.6	10.5				
Corn, dent, well-matured, all analyses	2.3	0.9	6.9	16.5	54	74	66	69
Corn and soybeans, well-matured, 30% or more soybeans	3.1	1.1	7.2	14.3	63	83	62	77
Hegari	1.8	0.8	6.9	22.2				
Soybean	4.2	1.5	7.9	10.1	62	55	51	64
CONCENTRATES (Grains and other seeds and their by-products; miscellaneous concentrates)								
Barley, common	11.8	2.0	5.7	68.0	79	80	56	92
Beetpulp, dried	9.0	0.8	18.8	59.9	53		81	85
Blood meal, or dried blood	82.2	1.2	1.3	2.7	86	100		
Bone flour, or precipitated bone	7.3	2.6		4.6				
Bone meal, steamed	7.1	3.3	0.8	3.9				
Bone meal, raw	25.8	2.9	0.8	2.9				
Brewer's grains, dried, all analyses	25.6	6.7	14.8	42.0	81	89	49	57
Buckwheat flour	8.6	1.7	0.7	75.3				
Buckwheat middlings	29.7	7.3	7.4	39.4	87	83	32	86
Buttermilk	3.5	0.6		4.5				
Buttermilk, condensed	11.3	1.6		13.3				
Buttermilk, dried	33.8	5.6	0.4	41.9				
Cocoa Shells	15.4	3.0	16.5	49.9	11	100	51	73
Cocoa meal	24.3	17.1	5.1	43.7	37	89		40
Coconut oil meal, old process	20.8	8.2	10.4	45.0	90	100	43	87
God-liver oil meal	52.5	29.4	1.0	8.4	94	97		
Corn, dent, Grade No. 1	9.6	3.9	2.3	70.0				
Corn, dent, Grade No. 2	9.4	3.9	2.2	68.4				
Corn, dent, Grade No. 3	9.2	3.8	2.2	67.0				
Corn, dent, Grade No. 4	8.9	3.7	2.1	65.2				
Corn, dent, Grade No. 5	8.6	3.6	2.0	63.0				
Corn, dent, soft or immature	7.4	3.8	1.2	56.0				
Corn, flint	9.8	4.3	1.9	71.0				

COMMERCIAL FEEDS

## FEED CONTROL

### 1. Brand and Product Names

- (a) The brand or product name must not be misleading. If the name indicates the feed is made for a specific use the character of the feed must conform therewith. A mixture labeled "dairy feed," for example, must be suitable for that purpose.
- (b) A name of a non-medicated feed shall not be derived from one or more ingredients of a mixture to the exclusion of other ingredients and shall not be one representing any component of a mixture unless all components are included in the name.
- (c) The word vitamin, or a contraction thereof, or any word suggesting vitamin can be used only in the name of a feed which is represented to be a vitamin supplement, and which is labeled with the minimum content of each vitamin declared, as specified in Regulation 2 (c).
- (d) The term "mineralized" shall not be used in the name of a feed except "Trace Mineralized Salt." When so used, the product must contain significant amounts of trace minerals which are recognized as essential for animal nutrition.

### 2. Expression of Guarantees

- (a) The sliding-scale method of expressing guarantees (for example, "Protein 15-18%") is prohibited, except as specifically provided by the law or by regulation.
- (b) Drugs in commercial feeds shall be guaranteed in terms of percentage by weight, except that antibiotics may be guaranteed in terms of grams per pound of feed.
- (c) Vitamins, when quantitatively guaranteed, shall be expressed in milligrams per pound of feed, except that vitamin A, other than precursors of vitamin A, shall be stated in USP units; vitamin D, in products offered for poultry feeding, in International Chick units; vitamin D for other uses, in USP units; vitamin E in a vitamin E supplement, in International Units per pound of feed.
- (d) Minerals, except salt (NaCl), when quantitatively guaranteed, shall be stated in terms of percentage of the element.

### 3. Definitions, Sampling and Analysis

Except as the.....designates otherwise in specific cases, the names and definitions for commercial feeds shall be those adopted by the Association of American Feed Control Officials, and the methods of sampling and analysis shall be the official methods of the Association of Official Agricultural Chemists.

#### 4. Ingredient Statement

- (a) Each ingredient must be specifically named. The names and definitions adopted by the Association of American Feed Control Officials are to be used as the common or usual names unless the..... designates otherwise.
- (b) When water is added in the preparation of canned foods for animals, water must be listed as an ingredient.
- (c) The term "dehydrated" may precede the name of any product that has been artificially dried.
- (d) No reference to quality or grade of an ingredient shall appear in the ingredient statement of a feed.

#### 5. Labeling

- (a) The information required in Section 5 (a) of the law must appear in its entirety on one side of a label or on one side of the container; this information shall not be subordinated or obscured by other statements and designs.
- (b) The names of all ingredients must be shown in letters or type of the same size.

#### 6. Minerals

- (a) When the word "iodized" is used in connection with a feed ingredient, the ingredient shall not contain less than 0.007% iodine, uniformly distributed.
- (b) Mineral phosphatic materials for feeding purposes shall be labeled with a guarantee for the minimum percentages of calcium and phosphorus, and the maximum percentage of fluorine.
- (c) The fluorine content of any mineral or mineral mixture which is to be used directly for the feeding of domestic animals shall not exceed 0.30 per cent for cattle; 0.35 per cent for sheep; 0.45 per cent for swine, and 0.60 per cent for poultry.

Soft phosphate with colloidal clay, rock phosphates or other fluorine-bearing ingredients may be used only in such amounts that they will not raise the fluorine concentration of the total (grain) ration above the following amounts: 0.009 per cent for cattle; 0.01 per cent for sheep; 0.014 per cent for swine, and 0.035 per cent for poultry.

#### 7. Urea

- (a) Urea and ammonium salts of carbonic and phosphoric acids are acceptable ingredients in proprietary cattle, sheep and goat feeds only; these materials shall be considered adulterants in proprietary feeds for other animals and birds; the maximum percentage of equivalent protein from non-protein nitrogen must appear immediately below crude protein in the chemical guarantee; and the name of the substance supplying the non-protein nitrogen must appear in the ingredient list. If feed contains more than 3 per cent of urea, or if the equivalent protein contributed by urea exceeds one-third of the total crude protein, the label shall bear (1) a statement of proper usage and (2) the following statement in type of such conspicuousness as to render it likely to be read and understood by ordinary individuals under customary conditions of purchase and use:

WARNING: This feed should be used only in accordance with directions furnished on the label.

### 8. Artificial Color

- (a) An artificial color may be used in feeds only if it has been shown to be harmless to animals. No material shall be used to enhance the natural color of a feed or feed ingredient whereby inferiority would be concealed.

### 9. Drugs, etc.

Before a registration is accepted for a commercial feed which contains drugs or other ingredients which are potentially harmful to animals, the distributor may be required: (1) to submit evidence to show the safety of the feed when used according to the directions which the distributor furnishes with the feed; (2) to furnish a written statement that adequate written or printed warnings and feeding directions will accompany each delivery of the feed; (3) to state the percentage of the drug, or other ingredients in a prominent place on the label of the feed.



## RESOLUTIONS

1. Resolved that the term "Nitrogen Free Extract" is the figure indicated by the percentage obtained by subtracting from 100 per cent the sum of the percentages of ash, moisture, protein (exclusive of equivalent protein from non-protein nitrogen), urea or other non-protein nitrogen compounds (as the pure compound), fat, and fiber. (Adopted prior to 1923. Amended 1955.)

2. Resolved that the term "Carbohydrates" is the product indicated by the percentage obtained by the addition of the percentages of crude fibre and nitrogen free extract. (Adopted prior to 1923.)

3. Resolved that a ton of feed is 2,000 pounds, net. (Adopted prior to 1923.)

4. Resolved that this Association go on record as opposing the use of second hand bags unless they are turned wrong side out so that the original stenciling is not displayed. (Adopted prior to 1923.)

5. Resolved that this Association go on record to the effect that the term "Degermed" must precede the name of any product from which the germ has been wholly or partially removed. (Adopted prior to 1923—Amended 1944.)

6. Resolved that this Association go on record as condemning the practice of packing feedingstuff in bags containing 99 pounds net and billing and charging for 100 pounds net. (Adopted 1923.)

7. Resolved that no product sold under a trade or proprietary name be recognized for the purpose of formulating definitions, standards, etc. (Adopted 1927.)

8. Resolved that no tentative definition be used until adopted as official, unless, in accord with the specific action of this Association. (Adopted 1933.)

9. Resolved that the Association of American Feed Control Officials, Inc., request the cooperation of all recognized feed manufacturing associations in submitting for approval any contemplated definitions or changes in definitions of feedstuffs which in any way conflict with the official definitions as adopted by this organization.

It is also requested that wherever practicable any existing conflicting definitions be changed to conform to the official definitions. (Adopted 1934.)

10. Since the term "Carbohydrates" is misleading and combines a maximum guaranty of crude fibre with a minimum guaranty of nitrogen free extract, be it

Resolved that the use of the term "Carbohydrates" on the uniform registration blank and uniform tags be discontinued. (Adopted 1935.)

11. Resolved that the same feed in pellet and in meal form shall not be charged more than one registration fee. (Adopted 1939.)

12. Resolved that when feedingstuffs carry label information on both tag and bag, there shall be no difference with respect to name, ingredients and guaranteed composition. (Adopted 1939.)

13. Resolved that in order to promote greater uniformity and more effective enforcement of the respective state feed laws, members are requested

to submit newly proposed regulations to the State Relations Committee for the consideration and helpful assistance of that committee. (Adopted 1942.)

14. Resolved that whenever crude fibre standards are designated in definitions of various grain or cereal products, such standards shall apply also if screenings are added. (Adopted 1945.)

15. Resolved that this Association go on record as disapproving the use of mineral oil, petroleum jelly, petrolatum, paraffin, and similar materials in commercial feeds, excepting its use temporarily as a dust control agent in mineral mixtures when there is no other suitable material, and then in an amount which will result in an intake not to exceed 0.06 per cent of the total ration, and not to exceed 3 per cent in the mineral mixture. (Adopted 1947.) (Amended 1948.)

16. Resolved that when the brand name carries a percentage value, it shall be understood to signify protein content only, even though it may not explicitly modify the percentage with the word "Protein"; provided, however, that other percentage values may be permitted if they are followed by the proper description and conform to good labeling practice. When a figure is used in the brand name (except in mineral, vitamin, or other products where the protein guarantee is nil or unimportant), it shall be preceded with the word "number" or some other suitable designation. (Adopted 1948—Amended 1953.)

17. Resolved that this Association go on record as condemning labeling which suggests or implies that the presence of added enzyme-bearing materials improves the utilization of a product except in those instances of specific uses which are well supported by scientific evidence. (Adopted 1948.) (Amended 1956.)

18. Resolved that this Association will accept the use of mold inhibitors and anti-oxidants in dog foods, provided:

(1) Satisfactory evidence is offered that the compounds used are not harmful to dogs in the concentrations employed; and

(2) The active ingredients are declared on the label by their common chemical names, and not by trade names. (Adopted 1951.)

19. Resolved that this Association go on record as prohibiting the sale and distribution of trichloroethylene solvent extracted soybean oil meal, flakes, or pellets for animal feeding purposes. (Adopted 1951—Amended 1952.)

20. Resolved that this Association oppose the addition of any quantity of sulfur dioxide, sulfurous acid, or any salt of sulfurous acid to any animal product or any mixed feed containing an animal product. (Adopted 1952.)

21. Resolved that guarantees for calories and total digestible nutrients and feed labels be discouraged. (Adopted 1956.)

22. Resolved that the guarantee for Nitrogen Free Extract be discouraged when such action is not in conflict with state laws. (Adopted 1956.)

23. Resolved that when submitting brands for registration, the uniform registration form (which is usually supplied by each state control official) should be used. The guaranty shall be an exact copy of the label on the package.

24. Resolved that a brand name is distinctive with reference to the feed to which it applies; that the registration of feeds under the same brand name by two or more persons shall be discouraged; and that this resolution shall apply also to the registration brand names so similar in character as to be likely to be confused by the purchaser.

If the same brand name, or a closely similar one, is offered by another, the official should acquaint both of such persons with the facts, with the view of avoiding the confusion which follows the duplication of brand names.

25. Resolved that no printed matter or written matter or design of any kind shall be attached to or appear on or be packed with feed, if such matter contains any statement which is incorrect, or which is at variance in any respect with the information on the principal label.

26. Resolved that shipments of feed may be inspected and sampled a second time at the request of the guarantor if, in the discretion of the control official, substantial reasons exist therefor.

## ALFALFA PRODUCTS

1. **Chopped Alfalfa or Cut Alfalfa** is chopped or cut alfalfa hay which is reasonably free of other crop plants, weeds and mold and is not ground finely enough to become meal. (Adopted prior to 1928—Amended 1937.)

2. **Alfalfa Meal** is the product obtained by grinding alfalfa hay which is reasonably free of other crop plants, weeds and mold. It must contain not more than 33 per cent of crude fibre. (Adopted 1928.)

3. **Alfalfa Leaf Meal** is the ground product consisting chiefly of alfalfa leaves. It must be reasonably free of other crop plants and weeds and shall contain not less than 20 per cent crude protein and not more than 18 per cent crude fibre. (Adopted 1948.)

4. **Alfalfa Stem Meal** is the ground product remaining after the separation of the leafy material from alfalfa hay or meal. It must be reasonably free from other crop plants and weeds. (Adopted 1928.)

5. **Extracted Alfalfa Meal** is the dried residue remaining after extraction of alfalfa meal with organic solvents to remove chlorophyll, carotene and other fat soluble materials. (Adopted 1953.)

**Resolution A.** Resolve that the following guarantees be recommended for the various grades of alfalfa meal:

For 13% Protein Alfalfa Meal, crude fibre not more than 33%

For 15% Protein Alfalfa Meal, crude fibre not more than 30%

For 17% Protein Alfalfa Meal, crude fibre not more than 27%

For 20% Protein Alfalfa Meal, crude fibre not more than 22%

These standards apply also to Chopped Alfalfa or Cut Alfalfa.

NOTE—A guaranty of the crude carotene content of alfalfa products expressed in milligrams per pound, and accompanied by an expiration date, may be included on the label if the producer so desires. (Adopted 1941—Amended 1945.)

NOTE—Brand names, such as "Doe's—% Alfalfa Meal with Animal Fat or Vegetable Oil" shall be used to show that the product is a mixture and not simply alfalfa meal. The chemical name of the anti-oxidant or antioxidants shall be listed in the ingredient statement. (Adopted 1953.)

NOTE—The term "Dehydrated" may precede the name of any alfalfa product, provided that the freshly cut alfalfa having a moisture content of not less than 50 per cent has been artificially dried at a temperature of at least 100° C. or 212° F.; that the drying process covers a period of not more than forty minutes and that there is no admixture of sun-cured alfalfa. (Adopted 1947.)

NOTE—Alfalfa meal or pellets or granules or other products consisting preponderantly of alfalfa meal must be identified in the product name as (a) sun-cured, (b) dehydrated, or (c) mixed sun-cured and dehydrated.

## AMINO ACIDS

6. **Methionine Hydroxy Analogue Calcium** is a product which contains a minimum of 95 per cent of dl-2-hydroxy-4-methylthiobutyric acid calcium salt. 1.2 pounds of the 95 per cent pure analogue are molecularly equivalent to 1 pound of 100 per cent methionine. (Adopted 1955.)

7. **Methionine** is a product which contains a minimum of 95 per cent of dl-2-amino-4-methylthiobutyric acid. (Adopted 1957.)

8. **Glycine** is a product which contains a minimum of 97% amino-acetic acid. (Adopted 1957.)

### ANIMAL PRODUCTS

9. **Blood Meal** is ground, dry blood. (Adopted 1926.)

10. **Blood Flour** is dried blood, prepared by special processes and reduced to a fine powder. (Adopted prior to 1928.)

11. **Meat** is the clean, wholesome flesh derived from slaughtered mammals and is limited to that part of the striate muscle which is skeletal or that which is found in the tongue, in the diaphragm, in the heart, or in the esophagus, and does not include that found in the lips, in the snout, or in the ears; with or without the accompanying and overlaying fat and the portions of skin, sinew, nerve, and blood vessels which normally accompany the flesh. If it bears a name descriptive of its kind it must correspond thereto.

The term "meat" when applied to the corresponding portions of animals other than cattle, swine, sheep, and goats shall be used in qualified form, as, for example, "horse meat," "reindeer meat," "whale meat," etc. (Adopted 1938.—Amended 1939.)

12. **Meat By-Products** consists of any non-rendered, clean, wholesome parts of the carcass of slaughtered mammals other than meat, such as lungs, liver, spleens, kidneys, brains, stomach and intestines free from their contents; it does not include skin, horns, teeth, hoofs, and bones. If it bears a name descriptive of its kind it must correspond thereto.

The term "meat by-products" when applied to the corresponding portions of animals other than cattle, swine, sheep, and goats shall be used in qualified form, as, for example, "horse meat by-products," "reindeer meat by-products," etc. (Adopted 1938.—Amended 1939.)

13. **Meat Meal or Meat Scrap** is the finely ground, dry-rendered residue from animal tissues exclusive of hair, hoof, horn, hide trimmings, blood meal, manure and stomach contents, except in such traces as might occur unavoidably in good factory practice. When these products contain more than 4.4 per cent of phosphorus (P), they shall be designated either "Meat and Bone Meal," or "Meat and Bone Scrap." If the product bears a name descriptive of its kind, composition, or origin, it must correspond thereto. It must be designated according to its protein content. (Adopted 1954.)

NOTE—The designation "Meat Scrap" or "Meat and Bone Scrap" must not be used in connection with food for dogs and fur-bearing animals.

14. **Digester Tankage, Meat Meal Tankage, or Feeding Tankage** is the finely ground, dried residue from animal tissues exclusive of hair, hoof, horn, manure, and stomach contents, except in such traces as might occur unavoidably in good factory practice, especially prepared for feeding purposes by tanking under live steam, or dry-rendering, or a mixture of the products. When these products contain more than 4.4 per cent of phosphorus (P), they must be designated "Digester Tankage with Bone," "Meat and Bone Meal Digester Tankage," "Meat and Bone Meal Tankage," or "Feeding Tankage with Bone." If the product bears a name descriptive of its kind, composition or origin it must correspond thereto. It must be designated and sold according to its pro-

tein content. (Adopted 1938—Amended 1942, 1944.)

15. **Whale Meal** is prepared from the clean, dried undecomposed flesh of the whale, after part of the oil has been extracted. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

16. **Animal Liver Meal** is the product obtained by drying and grinding liver from slaughtered mammals. (Adopted 1954.)

17. **Animal Liver and Glandular Meal** is the product obtained by drying and grinding liver and other glandular tissue from slaughtered mammals. At least 50 per cent of the dry weight of the product must be derived from liver. (Adopted 1954.)

18. **Extracted Animal Liver Meal** is the product obtained by drying and grinding the residue of animal liver tissue from which a large portion of the vitamins and/or minerals has been removed. (Adopted 1944.)

19. **Animal Fat** is a mixture of fats of a quality suitable for feeding, obtained from animal tissues in the commercial processes of rendering. If the product bears a name descriptive of its kind, or origin, as for example, "lard," "tallow," "beef fat," it must correspond thereto. (Adopted 1956.)

20. **Poultry By-Product Meal** consists of the ground, dry-rendered clean, wholesome parts of the carcass of slaughtered poultry, such as head, feet, undeveloped eggs, gizzard and intestines, exclusive of feathers and gizzard and intestinal contents, except in such trace amounts as might occur unavoidably in good factory practice. (Adopted 1954.)

21. **Poultry Hatchery By-Product** is a mixture of egg shells, infertile and unhatched eggs, and culled chicks which have been cooked, dried, and ground, with or without removal of part of the fat. (Adopted 1957.)

#### Tentative

T-1 **Digester Tankage, or Feeding Tankage** is the finely ground, dried residue from animal tissues exclusive of hair, hoof, horn, hide trimmings, manure and stomach contents, except in such traces as might occur unavoidably in good factory practice, especially prepared for feeding purposes by tanking under live steam. When these products contain more than 4.4 per cent of phosphorus (P), they must be designated "Digester Tankage with Bone," or "Feeding Tankage with Bone." If the product bears a name descriptive of its kind, composition, or origin, it must correspond thereto. It must be designated according to its protein content. (Proposed 1953.)

T-2. **Hydrolyzed Poultry Feathers** is the product resulting from the treatment under pressure of clean, undecomposed feathers from slaughtered poultry, free of additives, and/or accelerators. Not less than 70 per cent of its crude protein content shall consist of "digestible protein." (Proposed 1955.)

#### BARLEY PRODUCTS

22. **Barley Hulls** is the product consisting of the outer covering of the barley. (Adopted prior to 1928.)

23. **Barley Feed** is the entire by-product resulting from the manufacture of pearl barley from clean barley. (Adopted prior to 1928.)

24. **Barley Mixed Feed** is the entire offal from the milling of barley flour from clean barley and is composed of barley hulls and barley middlings. (Adopted prior to 1928.)

25. **Ground Barley** is the entire product obtained by grinding clean sound barley, containing not less than 90 per cent of pure barley and not more than 10 per cent of other grains, weed seeds and other foreign material, and not more than 6 per cent of crude fibre; provided that no portion of this stated 10 per cent of other grains, weed seeds or other foreign material shall be intentionally added. (Adopted prior to 1928.)

26. **Rolled Barley or Crimped Barley** is heavy barley that has been rolled to desired thickness after tempering so as not to crumble. It shall contain not less than 90 per cent pure barley and not more than 10 per cent weed seeds or other foreign materials and not more than 6 per cent crude fiber. (Adopted 1949.)

### Tentative

T-3. **Ground Barley** is the entire product obtained by grinding barley. It shall consist of at least 80 per cent sound barley and shall not contain more than 3 per cent heat damaged kernels, 6 per cent foreign material, 20 per cent other grains or 10 per cent wild oats. (Proposed 1957.)

NOTE—In the above definition, the word “crushed” or “rolled” shall be substituted for the word “ground” where the product has been crushed or rolled instead of ground and the word “crimped” shall be substituted for the word “ground” where the product has been crimped instead of ground.

NOTE—Barley in the above definition corresponds to requirements under the U. S. Grain Standards for whole barley of the grades No. 5 Western Barley or No. 4 Barley.

NOTE—In this definition foreign material shall be all matter other than barley, other grains, and wild oats which is not separated from the barley in the proper determination of dockage.

### BREWER'S PRODUCTS

27. **Brewers' Dried Grains** is the dried extracted residue of barley malt alone or in mixture with other cereal grain or grain products resulting from the manufacture of wort. (Adopted 1936.)

28. **Malt Sprouts** is the product obtained by the removal of the sprouts from malted barley together with the malt hulls, other parts of malt and foreign material unavoidably present. It shall contain not less than 24 per cent of protein. The term “Malt Sprouts” when applied to a corresponding portion of other malted cereals shall be used in qualified form, as for example: “Rye Malt Sprouts,” “Wheat Malt Sprouts,” etc. (Adopted 1942.)

29. **Malt Cleanings** is the product obtained from the cleaning of malted barley or from the recleaning of malt which does not meet the minimum protein standard of malt sprouts. It must be designated and sold according to its protein content. (Adopted 1942.)

30. **Malt Hulls** is the product consisting almost entirely of hulls as obtained in the cleaning of malted barley. (Adopted 1942.)

31. **Dried Spent Hops** is the product obtained by drying the material filtered from hopped wort. (Adopted 1944.)

## CHEMICAL PRESERVATIVES

## 32. (Antioxidants and Mold Inhibitors)

Resin Guaiac	Dilauryl Thiodipropionate
Lecithin	Distearyl Thiodipropionate
Nordihydroguaiaretic Acid	Butylated Hydroxyanisole
Tocopherols	Butylated Hydroxy Toluene
Citric Acid	Calcium Propionate, Methyl Para
Phosphoric Acid	Hydroxyl Benzoate
Propyl Gallate	Propyl Parahydroxyl Benzoate
Thiodipropionic Acid	Sorbic Acid
Sodium Benzoate	(Adopted 1954)
Sodium Propionate	

NOTE—When using any of the above materials, the following terminology must be included: "Preserved with" or "A Preservative."

## CITRUS PRODUCTS

33. **Dried Citrus Pulp, Citrus Meal**, consists of the dried and ground peel, residue of the inside portions, and occasional cull fruits of the citrus family with or without the extraction of part of the oil of the peel. If calcium oxide or calcium hydroxide is added as an aid in processing, the maximum percentage present, expressed as calcium (Ca), must be stated. If it bears a name descriptive of its kind or origin, it must correspond thereto. (Adopted 1947.)

34. **Citrus Seed Meal** is a product principally of the seed of oranges and grapefruit singly or mixed, from which the major portion of the oil has been removed and is composed mostly of kernel with such portion of the hull as is necessary in the manufacture of citrus seed oil. It may contain small amounts of the seed of other varieties of citrus. It must be designated and sold according to its protein content. (Adopted 1949.)

## Tentative

T-4. **Dried Citrus Pulp** is the ground peel, residue of the inside portions and occasional cull fruits of the citrus family from which most of the moisture has been removed, producing a coarse, flaky product. If Calcium Oxide or Calcium Hydroxide is added as an aid in processing, the maximum percentage present, expressed as Calcium (Ca) must be shown. If it bears a name descriptive of its kind or origin, it must correspond thereto. (Proposed 1956.)

T-5. **Dried Citrus Meal—Citrus Fines—Citrus Screenings** is the finer particles derived by mechanical means in the manufacture of dried citrus pulp. (Proposed 1956.)

T-6. **Dried Citrus Pellets** are produced from dried citrus meal and/or citrus screenings which have been compressed by mechanical force into various sizes. (Proposed 1956.)

T-7. **Citrus Seed Meal** is a product obtained from the seed or seed meats of oranges and grapefruit from which most of the oil has been removed. It is composed mostly of the kernel with such portions of the hull and pulp as cannot be avoided in the manufacture of Citrus Seed Oil. It may be designated and sold according to its protein content. (Proposed 1956.)



## CORN PRODUCTS

35. **Corn Meal** is finely ground, unbolted corn. (Adopted prior to 1928.)
36. **Corn Bran** is the outer coating of the corn kernel, with little or none of the starchy part or germ. (Adopted 1931.)
37. **Corn Feed Meal** is the fine siftings obtained in the manufacture of screened corn chop, screened ground corn or screened cracked corn, with or without its aspiration products added. (Adopted 1941.)
38. **Corn Chop, Ground Corn or Cracked Corn** is the entire product made by grinding, cutting or chopping the grains of sound Indian corn, and may be fine, medium or coarse. It must contain not more than 4 per cent of foreign material. (Adopted 1931.)
39. **Screened Corn Chop, Screened Ground Corn, or Screened Cracked Corn** is the coarse portion of corn chop, ground corn or cracked corn from which most of the fine particles have been removed. It must contain not more than 4 per cent of foreign material. (Adopted 1941.)
40. **Corn Grits or Hominy Grits** is the product consisting of the fine or medium sized, hard flinty portions of sound Indian corn containing little or none of the bran or germ. (Adopted 1941.)
41. **Ear Corn Chop, Ground Ear Corn, or Corn and Cob Meal** is the product obtained by grinding or chopping the entire ear of corn, without husks, with no greater proportion of cob than occurs in the ear corn in its natural state. (Adopted prior to 1928. Amended 1956.)
42. **Ear Corn Chop with Husks, Ground Ear Corn with Husks, Corn and Cob Meal with Husks, or Ground Snapped Corn** is the product obtained by grinding or chopping the entire ear of corn with its husk, with no greater proportion of cob and husks than occurs with the ear corn in its natural state. (Adopted 1946. Amended 1956.)
43. **Flaked Corn** is the product obtained by running cracked corn which has been aspirated and properly tempered, over smooth flaking rolls and subsequently dried and cooled. (Adopted 1946.)
44. **Toasted Corn Flakes** is the product obtained by running cracked corn which has been aspirated and properly tempered, over smooth flaking rolls, and subsequently dried, cooled, and toasted. (Adopted 1953.)
45. **Corn Gluten Feed** is that part of the commercial shelled corn that remains after the extraction of the larger portion of the starch, gluten and germ by the processes employed in the wet milling manufacture of corn starch or syrup. It may or may not contain one or more of the following: corn solubles, corn oil meal. (Adopted 1936.)
46. **Corn Gluten Meal** is that part of commercial shelled corn that remains after the extraction of the larger part of the starch and germ, and the separation of the bran by the processes employed in the wet milling manufacture of corn starch or syrup. It may or may not contain one or more of the following: corn solubles, corn oil meal. (Adopted 1936.)
47. **Maltose Processed Corn** is the dried residue from cleaned whole ground corn, after the removal of the starch in the manufacture of malt syrup. (Adopted 1946.)
48. **Maltose Process Corn Gluten Feed** is the dried residue from degermed corn, after removal of the starch in the manufacture of malt syrup. (Adopted prior to 1928.)

49. **Hominy Feed** is a mixture of corn bran, corn germ and part of the starchy portion of either white or yellow corn kernels or mixture thereof, as produced in the manufacture of pearl hominy, hominy grits or table meal, and shall contain not less than 5 per cent of crude fat. If prefixed with the words "white" or "yellow," the product must correspond thereto. (Adopted 1935.)

50. **Corn Oil Cake** or **Corn Oil Flakes** consists of the corn germ from which most of the oil has been removed by hydraulic, expeller, or solvent extraction, and is the product obtained in the wet milling process of manufacture of corn starch, corn syrup, and other corn products. For each product, the designating name must include a term (hydraulic, expeller, or solvent extracted) descriptive of the process of manufacture, and the product must correspond thereto. (Adopted 1952.)

51. **Corn Oil Meal** is ground corn oil cake or corn oil flakes. Its name must include one of the terms (hydraulic, expeller, or solvent extracted) to indicate the method of manufacture of the source material. (Adopted 1952.)

52. **Corn Germ Cake** consists of corn germ with other parts of the corn kernel from which part of the oil has been pressed, and is the product obtained in the dry milling process of manufacture of corn meal, corn grits, hominy feed, and other corn products. (Adopted prior to 1928.)

53. **Corn Germ Meal** is ground corn germ cake. (Adopted prior to 1928.)

54. **Corn Screenings** is the product consisting of the small light grains of corn, parts of grains of corn or other cereals, and other materials having feeding value, separately or together, obtained by screening shelled corn, excluding sand, dirt, and other similar inert materials. (Adopted 1931.)

55. **Dried Corn Syrup** is the product resulting from spray-drying or roll-drying regular conversion corn syrup. It shall have a dextrose equivalent of not less than 42%. (Adopted 1955.)

56. **Hydrolyzed Corn Protein** is the product resulting from complete hydrolysis of isolated corn gluten, and after partial removal of the glutamic acid. (Adopted 1956.)

#### Tentative

T-8. **Kibbled Corn** is the product obtained by cooking cracked corn under steam pressure and extruding from an expeller or other mechanical pressure device. (Proposed 1956.)

T-9. **Dehydrated Corn Plant** is the entire corn plant consisting of the ear, leaves and stalk, which has been artificially dried and ground. (Proposed 1956.)

T-10. **Corn Cob Ring Cellulose** is the hard woody ring, vascular ring, or sclerified ring fraction of corn cobs produced in the mechanical separation of corn cobs. (Proposed 1956.)

T-11. **Ground Corn Cob** is the product resulting from grinding the entire cob. If it is designated as "Fine Ground," the entire grind must pass through a number ten sieve and thirty-three per cent of the total material must pass through a number twenty sieve. If it is designated "Coarse Ground," the entire grind must pass through a number four sieve and fifty percent must pass through a number ten sieve. If it is designated as "Dehydrated," it must contain not more than ten per cent moisture. (Proposed 1956.)

## COTTONSEED PRODUCTS

57. **Cottonseed Meal** is a product of the cottonseed only, composed principally of the kernel with such portion of the hull as is necessary in the manufacture of oil; provided that nothing shall be recognized as cottonseed meal that does not conform to the foregoing definition and that does not contain at least 36 per cent of protein. Cottonseed meal shall be graded and classed as follows: (Adopted prior to 1928.)

58. **Cottonseed Meal, Prime Quality** must be finely ground, not necessarily bolted, be free from excessive lint, must not have a sour, musty or burnt odor, and shall contain not less than 36 per cent of protein. It must be designated and sold according to its protein content. Cottonseed meal with 36 per cent of protein must be termed "36 per cent Protein Cottonseed Meal, Prime Quality," and higher grades similarly designated by changing "36" to the appropriate protein content. (Adopted prior to 1928. Amended 1954.)

59. **Cottonseed Meal, Off Quality.** Cottonseed meal not fulfilling the Prime Quality requirements as to odor or texture must be graded "36 per cent Protein Cottonseed Meal, Off Quality" and higher grades similarly designated by changing "36" to the appropriate protein content. (Adopted prior to 1928. Amended 1954.)

60. **Solvent Extracted Cottonseed Flakes** is the product obtained after solvent extraction of the oil from cottonseed kernels and such portions of the hull as is necessary in the manufacturing process. (Adopted 1949.)

61. **Solvent Extracted Cottonseed Meal** is the product resulting from grinding solvent extracted cottonseed flakes. It must be designated and sold according to its protein content. (Adopted 1949.)

62. **Cottonseed Feed** is a product containing cottonseed meal and cottonseed hulls. It shall contain not less than 22 per cent protein. (Adopted 1952.)

63. **Whole Pressed Cottonseed, Prime Quality** is the product resulting from subjecting the whole, sound, mature, clean, undecorticated cottonseed to pressure for the extraction of oil, and includes the entire cottonseed less the oil extracted and the lint removed. It must be designated and sold according to its protein content. (Adopted 1932.)

64. **Ground Whole Pressed Cottonseed, Prime Quality** is whole pressed cottonseed, ground. It must be designated and sold according to its protein content. (Adopted 1932.)

65. **Cottonseed Cake** is a product of the cottonseed only, composed principally of the kernel with such portion of the hull as is necessary in the manufacture of oil; provided that nothing shall be recognized as cottonseed cake that does not conform to the following definitions and that does not contain at least 36 per cent of crude protein. Cottonseed Cake shall be graded and classed as follows: (Adopted 1937.)

66. **Cottonseed Cake, Prime Quality** must be firm, but not flinty in texture, not have a sour or musty odor, free of mold, and when ground into meal must produce cottonseed meal, prime quality. It shall contain not less than 36 per cent of crude protein. It must be designated and sold according to its protein content. Cottonseed cake with 43 per cent of crude protein must be

termed "43 per cent Protein Cottonseed Cake, Prime Quality," and lower grades similarly designated. (Adopted 1937.)

67. **Cottonseed Cake, Off Quality.** Cottonseed Cake not fulfilling the Prime Quality requirements as to odor or texture must be labeled "43 per cent Protein Cottonseed Cake, Off Quality," and lower grades similarly labeled, replacing "43" with the appropriate protein content. (Adopted 1937. Amended 1954.)

68. **Nut-Size Cottonseed Cake, .....Quality.** Nut-size cottonseed cake shall be a product which will pass through  $1\frac{1}{2}$  inch round perforation and over  $\frac{7}{8}$  inch round perforation. It shall be free from meal, pea-size and pebble-size cake and shall not contain in excess of 10 per cent of sheep-size cake. It must be designated and sold according to its protein content. (Adopted 1937.)

69. **Sheep-Size Cottonseed Cake, .....Quality.** Sheep-size cottonseed cake shall be a product which will pass through  $\frac{7}{8}$  inch round perforation and over  $\frac{5}{8}$  inch round perforation. It shall be free from meal and pebble-size cake and shall not contain in excess of a total of 10 per cent of nut-size and pea-size cakes. It must be designated and sold according to its protein content. (Adopted 1937.)

70. **Pea-Size Cottonseed Cake, .....Quality.** Pea-size cottonseed cake shall be a product which will pass through  $\frac{5}{8}$  inch round perforation and over  $\frac{3}{8}$  inch round perforation. It shall be free from meal and nut-size cake and shall not contain in excess of 10% of sheep-size and pebble-size cake. It must be designated and sold according to its protein content. (Adopted 1937.)

71. **Pebble-Size Cottonseed Cake, .....Quality.** Pebble-size cottonseed cake shall be a product consisting of fine particles and small pieces of cottonseed cake capable of passing through a  $\frac{3}{8}$  inch round perforation. It must be designated and sold according to its protein content. (Adopted 1937.)

72. **Cottonseed Cubes or Pellets, Prime Quality** processed through a cubing or pelleting machine, must be firm, but not flinty, not have a sour or musty odor, free of mold, and when ground into meal, must produce cottonseed meal, prime quality. It shall contain not less than 36 per cent of crude protein. It must be designated and sold according to its protein content. (Adopted 1937.)

73. **Degossypolized Cottonseed Meal** shall mean cottonseed meal from which the gossypol has been deactivated, so as to contain not more than 0.04 per cent free gossypol. (Adopted 1953.)

**Resolution A.** Whereas, many States which have adopted the Association's definitions for cottonseed products require that a guaranty of crude fat and crude fibre content in cottonseed meal be made; therefore, for the sake of uniformity of labels and registrations, and in such cases where there is no conflict with existing feed laws, be it

Resolved that the following guarantees of crude fat and crude fibre be recommended for other than solvent extracted cottonseed meal:

	Crude Fat Not Less than	Crude Fibre Not More than
For 36% Protein Cottonseed Meal	2.00%	17.00%
For 41% Protein Cottonseed Meal	2.00%	14.00%
For 43% Protein Cottonseed Meal	2.00%	13.00%

(Adopted 1935. Amended 1952, 1955.)

**Resolution B.** Resolved that the following guarantees of crude fat and crude fibre be recommended for solvent extracted cottonseed meal:

	Crude Fat Not Less than	Crude Fibre Not More than
For 36% Protein Cottonseed Meal	0.50%	17.00%
For 41% Protein Cottonseed Meal	0.50%	14.00%
For 43% Protein Cottonseed Meal	0.50%	13.00%

(Adopted 1946. Amended 1951. Amended 1952.)

## DISTILLERS PRODUCTS

74. **Corn Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from corn, or from a grain mixture in which corn predominates, by drying that portion of the whole stillage retained by screens. (Adopted 1951.)

75. **Rye Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from rye, or from a grain mixture in which rye predominates, by drying that portion of the whole stillage retained by screens. (Adopted 1951.)

76. **Wheat Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from wheat, or from a grain mixture in which wheat predominates, by drying that portion of the whole stillage retained by screens. (Adopted 1951.)

77. **Grain Sorghum Distillers Dried Grains** is the product obtained in the manufacture of distilled liquors and alcohol from grain sorghum or from a grain mixture in which grain sorghum predominates, by drying that portion of the whole stillage retained by screens. If the name of the variety is given, it must predominate. (Adopted 1951.)

78. **Corn Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from corn, or from a grain mixture in which corn predominates, by condensing and drying the screened stillage obtained therefrom. (Adopted 1951.)

79. **Rye Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from rye, or from a grain mixture in which rye predominates, by condensing and drying the screened stillage obtained therefrom. (Adopted 1951.)

80. **Wheat Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from wheat, or from a grain mixture in which wheat predominates, by condensing and drying the screened stillage obtained therefrom. (Adopted 1951.)

81. **Grain Sorghum Distillers Dried Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from grain sorghum, or from a grain mixture in which grain sorghum predominates, by condensing and drying the screened stillage obtained therefrom. If the name of the variety is given, it must predominate. (Adopted 1951.)

82. **Corn Distillers Dried Grains with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from corn, or from a grain mixture in which corn predominates, by drying that portion of the whole stillage retained by screens to which condensed screened stillage has been added so that the final product contains not less than  $\frac{3}{4}$  of the solids content of the whole stillage. (Adopted 1951.)

83. **Rye Distillers Dried Grain with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from rye, or from a grain mixture in which rye predominates, by drying that portion of the whole stillage retained by screens to which condensed screened stillage has been added so that the final product contains not less than  $\frac{3}{4}$  of the solids content of the whole stillage. (Adopted 1951.)

84. **Wheat Distillers Dried Grains with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from wheat, or from a grain mixture in which wheat predominates, by drying that portion of the whole stillage retained by screens to which condensed screened stillage has been added so that the final product contains not less than  $\frac{3}{4}$  of the solids content of the whole stillage. (Adopted 1951.)

85. **Grain Sorghum Distillers Dried Grains with Solubles** is the product obtained in the manufacture of distilled liquors and alcohol from grain sorghum, or from a grain mixture in which grain sorghum predominates, by drying that portion of the whole stillage retained by screens to which condensed screened stillage has been added so that the final product contains not less than three-fourths of the solids content of the whole stillage. If the name of the variety is given, it must predominate. (Adopted 1951.)

86. **Molasses Distillers Dried Solubles** is the product obtained by drying the residue from the yeast fermentation of molasses after the removal of the alcohol by distillation. (Adopted 1943. Amended 1944.)

87. **Molasses Distillers Condensed Solubles** is the product obtained by condensing to a syrupy consistency the residue from the yeast fermentation of molasses after the removal of the alcohol by distillation. (Adopted 1946.)

88. **Potato Distillers Dried Residue** is the dried product obtained after the manufacture of alcohol and distilled liquors from potatoes or from a mixture in which potatoes predominate. (Adopted 1947.)

## DRUGS OR MEDICAMENTS

89. **Antibiotic Feed Supplement** is a feeding material used for its antibiotic activity. It shall contain a single antibiotic or combination of antibiotics having growth-promoting properties. The name and amount of each antibiotic shall be declared on the label. It shall contain a minimum of 1 gram per pound of antibiotics. (Adopted 1952.)

NOTE—The label shall bear the legend "For Feeding Use Only."

TR-1. **Formula Feeds** containing drug ingredients intended or represented for the cure, mitigation, treatment or prevention of disease of animals other than man, and substances other than feeds intended to affect the structure or any function of the body of animals other than man, shall be labeled to show, in addition to other information required by feed laws:

(a) the name of each ingredient including the name of each therapeutically active ingredient or agent stated as such,

(b) adequate directions for use, and

(c) adequate warnings against use under those conditions in which its use may be dangerous to health. Provided, that the term "drug" as used herein does not apply to vitamin, mineral, or other substances used solely for nutritional purposes. (Proposed 1946.)

(d) The use of medicaments in proprietary mixed feeds for combating diseases of non-nutritional origin is not to imply an endorsement by this Association. (Proposed 1947.)

## REPORT OF THE INVESTIGATOR FOR DRUGS IN FEEDS

C. G. DURBIN

## Federal Drug &amp; Food Administration

The medicated feed problems continue to increase in volume and complexity. During the past year a list of drugs currently used in animal feeds was distributed to the membership. A list of suggested warnings to be used on feed tags containing certain drugs was supplied to the Medicated Feed Labeling Committee for their consideration.

It may be well at this point to attempt an explanation of the differences between new drugs, certifiable antibiotics, antibiotics not subject to certification and drugs that are not considered new drugs.

## New Drugs

Those which the safety, because of short time in use, has not been completely established. Before feeds containing new drugs can be marketed in interstate commerce there must be on file with the Food and Drug Administration an effective new drug application for the particular feed. New drug applications are made effective solely on the basis of safety. Therapeutic efficacy is not taken into consideration. Antibiotics which are not subject to certification are handled as new drugs under the Federal Food, Drug, and Cosmetic Act.

## Certifiable Antibiotics

Certifiable antibiotics are those antibiotics listed in section 507 (a) of the Federal Food, Drug, and Cosmetic Act namely, penicillin, streptomycin, chlortetracycline, chloramphenicol, bacitracin, and any derivative thereof. Derivatives would be dihydrostreptomycin, zinc bacitracin, and tetracycline. It will be noted that oxytetracycline is absent from the above list because it is not subject to certification. It is subject under certain conditions to section 505 of the new drug provisions of the Act. When drugs subject to certification are added to animal feeds, data must be available to show the safety and therapeutic efficacy for the claims made in the labeling. This is the significant difference between certifiable products and new drugs. When new drugs are included in a product containing a certifiable antibiotic the claims for therapeutic efficacy must be established for the combination and a so-called Antibiotic Form 10 must be filed with the Food and Drug Administration before the product may be legally marketed in interstate commerce. The Antibiotic Form 10 is for all intents and purposes a new drug application with the additional requirements for the establishment of therapeutic efficacy for the product.

## Not New Drugs

Because drugs in the feeds may result in tissue residues of the animals fed the medicated feed, the assay of animal feeds is doubly important along with the warning statements indicating specific withdrawal times of the medicated feeds. These are drugs, which in the opinion of experts qualified to judge the safety drugs, that would be safe for use in animal feed. No drug or combination of drugs in feeds for animals should be registered unless an adequate method for the analysis of the drug in the particular feed has been submitted at the time of registration. Your investigator will endeavor to keep the list up to date by periodical additions.

## DRUGS IN ANIMAL FEEDS

## DRUGS CURRENTLY USED IN ANIMAL FEEDS\*

90.

## New Drugs

2-acetyl-amino-5-nitrothiazole  
 arsenosobenzene  
 dienestrol diacetate  
 2,4-diamino-5 (p-chlorophenyl) 6-ethylpyrimidine  
 diethylstilbestrol  
 nicarbazin  
 carbarsone  
 hygromycin B:  
 2,2'-dihydroxy-3,3',5,5'-tetrachlorodiphenyl sulfide (bithionol)  
 and  
 4,6-diamino-1-(4 methylmercaptophenyl)-1,2-dihydro-2,2-dimethyl-1,3,5  
 triazine hydrochloride (methiotriazanine)

91.

## Certifiable Antibiotics

bacitracin  
 chlortetracycline  
 dihydrostreptomycin  
 penicillin  
 streptomycin

92.

## \*Not New Drugs

acetyl (p-nitrophenyl) sulfanilamide  
 amino nitrothiazole  
 arsanilic acid  
 cadmium anthranilate  
 cadmium oxide  
 di-N-butyltin dilaurate  
 2,2'-dihydroxy-5,5'-dichlorodiphenyl-methane  
 dinitrophenylsulfonylethylenediamine  
 dried rumen organisms  
 nicotine  
 3-nitro-4-hydroxyphenyl arsonic acid  
 nitrofurazone  
 nitrophenide  
 furazolidone  
 erythromycin thiocyanate  
 trimethyl octadecyl ammonium stearate }  
 trimethyl hexadecyl ammonium stearate } Dynafac  
 4-nitrophenyl-arsonic acid  
 oxytetracycline  
 pepsin  
 phenothiazine  
 sodium arsanilate  
 sodium fluoride  
 sodium propionate

\* These or other substances may be drugs or even new drugs under specific condition of use and representation.



sulfaquinoxaline  
 menadione sodium bisulfite  
 iodinated casein  
 para aminobenzoic acid  
 piperazine phosphate monohydrate  
 piperazine dihydrochloride & Monohydrochloride  
 piperazine sulfate  
 piperazine  
 piperazine hexahydrate

### 93. RECOMMENDATIONS FOR PREPARATION OF LABELS FOR FEEDS WHICH CONTAIN DRUGS

The following information is intended for use as a guide in preparing labels for new products and in revising labels for present products when necessary. It is suggested that typed copy of proposed labeling be submitted to State and Federal officials for comment before the copy is submitted to the printer.

#### Types of Labels

Labels for medicated complete feeds generally fall into 4 different types, as follows:

**Type 1** is for a feed which contains drug(s) for growth promotion and/or disease prevention, and which is to be fed continuously for an indefinite period. The product name is followed by the word "medicated" in letters at least half as tall as those of the product name. This type of label can be used for any drug-containing feed not included among the other types. Exempted from medicated labeling are feeds which contain non-therapeutic levels of antibiotics (those with less than 50 grams per ton usually qualify), since these are not classed as medicated feeds.

**Type 2** is for a feed which contains drug(s) at the treatment level, to be fed as the sole ration for a limited period of time. The word "medicated" appears in the forepart of the product name, in letters of same size as remainder of product name.

**Type 3** is for a feed which contains hormone (s) or hormone-like substances (e.g., diethylstilbestrol).

**Type 4** is for a feed which contains drug(s) at the treatment level for a specific disease or condition. It differs from Type 2 only in that the product name indicates the purpose of the drug and the word "medicated" thus need not be a part of the product name (e.g., "Pig Wormer").

**Supplements or premixes** which contain drugs and which are to be diluted by mixing with other feeds before use are also covered by these four types of labels. The type of label to be used in each case will depend upon the purpose of the drug and directions for use of the finished feed after such dilution. If the resulting feed when diluted according to directions will contain non-therapeutic levels and no therapeutic claims are made, Type 1 label will be used. If the directions given are such that Type 2 as well as Type 1 can apply, then the Type 2 label must be used. Complete directions for feeding are to be included in labeling any feed which may be sold to the feeder either in the original package or in custom-mixed feeds.

#### Information Required on the Label

Drug-containing feeds are required to carry certain information in their labeling. The requirements are essentially the same for all four types. It is suggested that the label carry this information in the following form:

1. Net Weight
2. Brand name or trade name.

3. **Product name** (may include brand name and, for Types 1 and 2, the word "medicated").
4. **Purpose** (statement of the purpose of the medication and reference to directions for use).
5. **Active drug ingredients** (list of common names, not trade names, and percentage present, for each drug. Antibiotics are to be expressed in grams per pound and may also be in grams per ton).
6. **Guaranteed analysis of the feed.**
7. **Feed ingredients** (common name of each).
8. **Name and address of manufacturer or registrant.**
9. **Detailed feeding directions** (to be displayed prominently on either front or reverse side of the label). A check list follows:
  - a. **Purpose** (if necessary to clarify or amplify the above statement).
  - b. **When to feed** (specific period necessary for effective use).
  - c. **How to feed, or mix for feeding** (feeding method to be followed, i.e., free choice, sole ration, intermittent feeding, etc.; mixing directions for premixes, etc., should give proper level of medication for purpose intended).
  - d. **Precautions** (statement of precautions where misuse of the product may be injurious to animals or man).
  - e. **Warning statement** (a withdrawal period may be required for safety. With a mixture of drugs, use the longest period). See example below.
  - f. **Other feeds** (reference may be made to other feeds which have a part in a feeding program for the animal).

**Suggested Warnings and Caution Statements  
To Be Used on Medicated Feeds**

1. **ANTHELMINTICS: CADMIUM OXIDE AND CADMIUM ANTHRANILATE:**

**Warning**—Treated hogs must not be slaughtered for human consumption for at least 30 days following treatment to permit elimination of excess cadmium residues from edible tissue.

2. **AMINONITROTHIAZOLE:**

**Warning**—Discontinue use at least one week before slaughtering poultry for human consumption to permit elimination of the drug from edible tissues.

3. **ACETYLAMINONITROTHIAZOLE:**

**Warning**—Discontinue use at least one week before slaughtering poultry for human consumption to permit elimination of the drug from edible tissues.

4. **ARSENICALS, ORGANIC:**

**Warning**—Discontinue use at least 5 days before slaughtering for human consumption to permit elimination of the drug from edible tissues.

5. **NICARBAZIN:**

**Warning**—Discontinue use at least 4 days before slaughter for human consumption to allow for the elimination of the drug from edible tissues.

6. **FURAZOLIDONE:**

**Important**—Poultry which have survived salmonella outbreaks should not be kept for laying-house replacement, or breeders, unless tests show they are not carriers.



100 LBS. NET WEIGHT

**BLUE BIRD**

**0.0011% DIETHYLSTILBESTROL MIXTURE**

**FOR FATTENING BEEF CATTLE**

Feed at the rate of 2 lbs. per animal per day. Each pound contains 5 milligrams diethylstilbestrol.

**CAUTION: Use Only as Directed**

Active Drug Ingredient:  
Diethylstilbestrol .....0.0011%

Incorporated in  
**BLUE BIRD STEER FEED**

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**Guaranteed Analysis**

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**INGREDIENTS**

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Manufactured by  
**BLUE BIRD FEED MILLS**  
Robin, Indiana  
Feeding Directions on Reverse Side

Type 3 Label

100 LBS. NET WEIGHT

**BLUE BIRD**

**HOG WORMER**

For the Removal of Large Roundworms (*Ascaris Lumbricoides*). Follow directions on other side of tag.

Active Drug Ingredient:  
Cadmium Oxide .....0.015%

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**Guaranteed Analysis**

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**INGREDIENTS**

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Manufactured by  
**BLUE BIRD FEED MILLS**  
Robin, Indiana  
Feeding Directions on Reverse Side

Type 4 Label

FERMENTATION PRODUCTS

Official

94. Extracted.....Presscake is the filtered and dried mycelium obtained from ..... fermentation. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

95. Extracted.....Meal is the ground.....presscake. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

96. **Dried Extracted**.....**Fermentation Solubles** is the dried extracted broth obtained from.....fermentation. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

97. **Dried Extracted**.....**Meal and Fermentation Solubles** is the filtered and dried mycelium and dried extracted broth obtained from.....fermentation. (For label identification the source shall be indicated as penicillium, streptomyces, citric acid, etc.) (Adopted 1951.)

## GRAIN SORGHUMS (MILO, HEGARI, KAFFIR, or FETERITA)

98. **Grain Sorghum Chop** is the entire product made by grinding, cutting, or chopping the grains of Grain Sorghums. If the name of the variety is given, it must be true to name. (Adopted 1947.)

99. **Grain Sorghum Head Chop** is the chopped entire head of grain sorghums including grain and stems. If the name of the variety is given, it must be true to name. (Adopted prior to 1928. Amended 1945.)

100. **Grain Sorghum Gluten Feed** is that part of the grain of Grain Sorghums that remains after the extraction of the larger part of the starch and germ, by the processes employed in the wet milling manufacture of starch or syrup. If the name of the variety is given, it must be true to name. (Adopter 1948. Amended 1950.)

101. **Grain Sorghum Gluten Meal** is that part of the grain of Grain Sorghums that remains after the extraction of the larger part of the starch and germ, and the separation of the bran by the processes employed in the wet milling manufacture of starch or syrup. If the name of the variety is given, it must be true to name. (Adopted 1948. Amended 1950.)

102. **Grain Sorghum Oil Cake** consists of the germ of Grain Sorghum grains from which part of the oil has been pressed and is the product obtained in the wet milling process of manufacture of starch, syrup, and other grain sorghum products. If the name of the variety is given, it must be true to name. (Adopted 1948. Amended 1950.)

103. **Grain Sorghum Oil Meal** is ground grain sorghum oil cake. If the name of the variety is given, it must be true to name. (Adopted 1948. Amended 1950.)

104. **Grain Sorghum Mill Feed** is a mixture of Grain Sorghum Bran, Grain Sorghum Germ and a part of the starchy portion of the grain as produced in the manufacture of Grits from Grain Sorghums, and shall contain not more than 5 per cent of crude fiber. If the name of the variety is given, it must be true to name. (Adopted 1946. Amended 1950.)

105. **Grain Sorghum Feed Meal** is the fine siftings obtained in the manufacture of rolled or flaked grain-sorghum grains. If the name of the variety is given, it must be true to name. (Adopted 1952.)

106. **Rolled Grain Sorghums** is the product obtained by running whole grain sorghums over smooth flaking rolls, after properly tempering, removing most of the fine particles, and subsequently dried and cooled. If the name of the variety be given, it must be true to name. (Adopted 1953.)

## Tentative

T-12. **Grain Sorghum Grits** is the product consisting of the hard flinty portions of grain sorghums containing little or no bran or germ. If the name of the variety is given, it must correspond thereto. (Proposed 1957.)

## LESPEDEZA PRODUCTS

107. **Lespedeza Meal** is the product obtained from the grinding of the entire lespedeza hay, without the addition of any lespedeza stems, lespedeza straw, or foreign material, or the abstraction of leaves. It shall be reasonably free from other crop plants and weeds, and must not contain more than 28 per cent of crude fibre. (Adopted 1938.)

108. **Lespedeza Stem Meal** is the ground product remaining after the separation of the leafy material from lespedeza hay or meal. It shall be reasonably free from other crop plants and weeds. (Adopted 1938.)

109. **Lespedeza Straw Meal** is the ground product remaining after the separation of the seed from lespedeza. It shall be reasonably free from other crop plants and weeds. (Adopted 1938.)

## LINSEED AND FLAX PRODUCTS

110. **Linseed Oil Cake, Linseed Oil Chips, and Linseed Oil Flakes** are the products obtained by removal of most of the oil from flaxseed by the several methods; hydraulic (old process), expeller, and solvent extraction, respectively. For each product the designating name must include a term (hydraulic, expeller or solvent extracted) descriptive of the process of manufacture and the product must correspond thereto. The products shall contain not more than 0.5 per cent of acid-insoluble ash, and they must be designated and sold according to their protein content. (Adopted 1943. Amended 1949.)

111. **Linseed Oil Meal** is the product obtained by finely grinding the cake, chips or flakes obtained, according to the process employed, in the production of linseed oil. It must be designated and sold according to its protein content and its name must include one of the terms "hydraulic", "expeller", or "solvent extracted" to specify the method of manufacture of the source material. (Adopted 1943. Amended 1949.)

112. **Linseed Cubes or Linseed Pellets** consist of linseed oil meal, produced by either of the three processes recognized in definition 110, which has been processed through a cubing or pelleting machine. The product shall be firm but not flinty, of sweet odor and free from mold. It must be designated and sold according to its protein content and its name must include one of the terms "hydraulic", "expeller", or "solvent extracted" to specify the method of manufacture of the source material. (Adopted 1943. Amended 1947, 1949.)

113. **Linseed Feed** is the product obtained by mixing one or more linseed oil meals with flaxseed screenings oil feed with or without other flaxseed by-products. It must be designated and sold according to its protein content. (Adopted 1943. Amended 1949.)

114. **Flaxseed Screenings Oil Feed** is the ground product obtained after extraction of part of the oil by crushing, cooking, and hydraulic or mechanical pressure, or by crushing, heating and the use of solvents, from the smaller im-

perfect flaxseed, weed seeds and other foreign materials having feeding value, separated in cleaning flaxseed. (Adopted 1943.)

115. **Flax Plant Product** is that portion of the flax plant having feeding value remaining after harvesting the seed and separation of the bast fibers and flax shives. It consists of the leaves, corticle tissues, flax seed bolls, broken and immature flax seeds. It shall contain a minimum of 9% crude protein and a maximum of 35% crude fiber. (Proposed 1952.)

## MARINE PRODUCTS

116. **Fish Meal** is clean, dried, ground tissues of undecomposed whole fish or fish cuttings, either or both, with or without the extraction of part of the oil. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

117. **Fish Residue Meal** is the clean, dried, undecomposed residue from the manufacture of glue from non-oily fish. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

118. **Fish Liver and Glandular Meal** is the product obtained by drying the complete coelomic contents of the fish. At least 50 per cent of the dry weight of the product must be derived from fish liver and must contain at least 18 milligrams of riboflavin per pound. (Adopted 1944.) (Amended 1945.)

119. **Condensed Fish Solubles** is the product obtained by condensing the aqueous portion of the mixture resulting from pressing the oil from fish. (Adopted 1946. Amended 1954.)

120. **Crab Meal** is the undecomposed ground dried waste of the crab and contains the shell, viscera and part or all of the flesh. It shall contain not less than 25 per cent of protein. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

121. **Shrimp Meal** is the undecomposed ground dried waste of shrimp and contains the head, hull or whole shrimp, either or in mixture. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided that in no case shall the salt content of this product exceed 7 per cent. (Adopted 1933.)

### Tentative

T-13. **Homogenized Condensed Fish** is a partially dehydrated product made from fish and/or fish cuttings from which part of the oil may have been removed. It shall contain not less than 50 per cent of total solids, exclusive of salt. If it contains more than 3 per cent of salt (NaCl) the amount of salt must constitute a part of the brand name, provided in no case shall the salt content exceed 7 per cent. (Proposed 1957.)

T-14. **Dried Fish Solubles Precipitate** is the dried and ground precipitate obtained by adjusting the raw press-water containing fish solubles to an approximate pH 4.5. (Proposed 1957.)

**T-15. Fish Glandular and Liver Hydrolysate** is the partially dehydrated, ground entire coelomic contents of the fish, digested by the enzymes naturally present in the fish. It shall contain a minimum of 20 per cent liver by weight. The solids content of this product shall not be less than 50 per cent, and if it contains more than 3 per cent salt (NaCl), the amount of salt must constitute part of the brand name, provided that in no case shall the salt content exceed 7 per cent. (Proposed 1957.)

#### Future Discussion

**F-1. Fish Bone Meal** is the dried ground product obtained by separating the bones of the whole fish or fish cuttings. It shall contain not less than 8.5 per cent phosphorus. The label shall include a guarantee for protein, calcium (Ca) and phosphorus (P). (Suggested 1957.)

### MILK PRODUCTS

122. **Dried Buttermilk** is the product resulting from the removal of water from clean, sound buttermilk derived from natural cream to which no foreign substances have been added, excepting such as are necessary and permitted in the manufacture of butter. It shall contain not more than 8 per cent of moisture, not more than 13 per cent of mineral matter (ash), and not less than 5 per cent of butter fat as determined by the Roesse-Gottlieb method. (Adopted 1932.)

123. **Condensed Buttermilk, Evaporated Buttermilk or Concentrated Buttermilk** is the product resulting from the removal of a considerable portion of water from clean, sound buttermilk derived from natural cream to which no foreign substances have been added, excepting such as are permitted and necessary in the manufacture of butter. It shall contain not less than 27 per cent of total solids, not less than .055 per cent of butter fat for each per cent of solids; and not more than .14 per cent of ash for each per cent of solids. (Adopted prior to 1928. Amended 1944.)

124. **Dried Skimmed Milk** is the product resulting from the removal of water from clean, sound skimmed milk. It shall contain not more than 8 per cent of moisture. (Adopted 1930.)

125. **Condensed Skimmed Milk** is the product resulting from the removal of a considerable portion of water from clean, sound skimmed milk. It shall contain not less than 27 per cent of total solids. (Adopted 1930.)

126. **Dried Cultured Skimmed Milk** is the product resulting from the removal of water from clean, sound skimmed milk which has been cultured by a suitable culture of lactic bacteria. It shall contain not more than 8 per cent of moisture. (Adopted 1932.)

127. **Condensed Cultured Skimmed Milk, Evaporated Cultured Skimmed Milk or Concentrated Cultured Skimmed Milk** is the product resulting from the removal of a considerable portion of water from clean, sound skimmed milk which has been cultured by a suitable culture of lactic bacteria. It shall contain not less than 27 per cent of total solids. (Adopted 1932.)

128. **Dried Whole Whey** is dried clean, sound cheese and/or casein whey. It shall contain not less than 65 per cent of lactose. (Adopted 1934.—Amended 1948-1950-1951.)

129. **Condensed Whole Whey** is the product resulting from the removal of a considerable portion of water from clean, sound cheese or casein whey, either or both. It shall contain not less than 62 per cent of total whey solids.



When this product contains less than 62 per cent of total whey solids, it shall be designated "Condensed Whole Whey,.....per cent solids." (Adopted 1944. Amended 1951.)

130. **Dried Whey Solubles** is the dried product resulting from the removal of albumin and the partial removal of milk sugar from clean sound whey to which no foreign substances have been added except such as are necessary in the manufacture of milk sugar. (Adopted 1944.)

131. **Condensed Whey Solubles** is the product resulting from the removal of albumin and the partial removal of milk sugar from clean, sound whey to which no foreign substances have been added except such as are necessary in the manufacture of milk sugar. (Adopted 1944.)

132. **Dried Hydrolyzed Whey** is a dried product which contains not less than 30 per cent monosaccharides (glucose and galactose) which is derived entirely from lactase enzyme hydrolysis of whole whey. (Adopted 1955.)

133. **Condensed Hydrolyzed Whey** is a condensed product which is derived entirely from lactase enzyme hydrolysis of whole whey. It shall contain not less than 50 per cent total solids and not less than 0.3 per cent monosaccharides (glucose and galactose) for each per cent of solids. (Adopted 1955.)

134. **Condensed Whey-Product** is the product resulting from the removal of a considerable portion of water and the partial removal of milk sugar from clean, sound whey to which no foreign substances have been added. It shall contain not less than 50 per cent of total whey-product solids. When this product contains less than 50 per cent of total whey-product solids, it shall be designated "Condensed Whey-Product .....per cent solids." (Adopted 1948.)

135. **Dried Whey-Product.....Per Cent Lactose** is the dried product resulting from the partial removal of milk sugar from clean, sound whey to which no foreign substances have been added. When listed as an ingredient in manufactured feeds the term "Dried Whey-Product" may be used. (Adopted 1951. Amended 1952.)

136. **Condensed Cultured Whey** is partially dehydrated clean, sound cheese and/or casein whey that has been cultured by a suitable ferment. It shall contain not less than 62 per cent of total cultured whey solids. If it contains less than 62 per cent of total cultured whey solids, it shall be designated "Condensed Cultured Whey,.....per cent solids." (Adopted 1949.)

137. **Casein** is the product resulting from acid or rennet precipitation of skimmed milk. It must contain at least 80 per cent of crude protein. (Adopted 1946.)

138. **Cheese Rind** is cooked, partially defatted cheese trimmings. (Adopted 1935.)

139. **Dried Milk Albumin** is the dried coagulated protein fraction separated from whey. It shall contain not less than 75 per cent protein ( $N \times 6.25$ ) on a moisture-free basis. (Adopted 1952.)

140. **Dried Whole Milk** is the product resulting from the removal of water from milk and contains not more than 8 per cent of moisture, and not less than 26 per cent butterfat as determined by the Roesse-Gottlieb method. (Adopted 1952.)

## MINERAL FEEDS

141. **Bone Ash** is the ash obtained by burning bones with free access to air, and containing a minimum of 15.3 per cent of phosphorus (P). The label shall show a guarantee for calcium (Ca), and phosphorus (P). (Adopted 1935. Amended 1952.)

142. **Bone Charcoal or Bone Black** is the product obtained by charring bones in closed retorts. It shall contain not less than 14 per cent of phosphorus (P). The label shall show a guarantee of calcium (Ca), and phosphorus (P). (Adopted 1938. Amended 1952.)

143. **Spent Bone Black** is the product resulting from the repeated charring of bone charcoal or bone black after use in clarifying sugar solutions. It shall contain not less than 11.5 per cent of phosphorus (P). The label shall show a guarantee for calcium (Ca), and phosphorus (P). (Adopted 1938. Amended 1952.)

144. **Steamed Bone Meal** is the dried, ground product suitable for animal feeding, obtained by cooking bones with steam under pressure. (Adopted 1929.)

145. **Special Steamed Bone Meal** is the dried, ground product suitable for animal feeding, obtained by cooking dried bones, after the removal of grease and meat fibre, with steam under pressure in the process of obtaining gelatin or glue. (Adopted 1929.)

146. **Calcite, Ground Limestone, Chalk Rock, Precipitated Chalk, Oyster Shell Flour, Shell Flour, and Precipitated Calcium Carbonate** are acceptable sources of calcium carbonate. They shall in each instance be true to name and shall contain not less than 33% calcium (Ca). They shall be declared as ingredients only by the names listed above. (Adopted 1952.)

147. **Calcium Carbonate** is a product containing not less than 38 per cent calcium (Ca). (Adopted 1946.)

148. **Magnesium Limestone or Dolomitic Limestone** is acceptable as a source of magnesium and calcium carbonates. The terms are synonymous and designate a native mineral composed of mixtures of magnesium carbonate ( $MgCO_3$ ) with calcium carbonate ( $CaCO_3$ ). It shall contain not less than 10% magnesium (Mg) and shall be declared as an ingredient only by one of the names listed above. (Adopted 1946. Amended 1952.)

149. **Defluorinated Phosphate** includes either calcined, fused or precipitated calcium phosphate. It shall contain not more than one part of fluorine (F) to 100 parts of phosphorus (P). The minimum percentage of calcium (Ca) and phosphorus (P) and the maximum percentage of fluorine (F) shall be stated on the label. The term "Defluorinated" shall not be used as a part of the name of any product containing more than one part of fluorine (F) to 100 parts of phosphorus (P). (Adopted 1952.)

150. **Low Fluorine Rock Phosphate** is ground phosphate rock containing not more than 0.5 per cent fluorine. The minimum percentage of calcium (Ca) and phosphorus (P) and the maximum percentage of fluorine (F) shall be stated on the label. (Adopted 1949.)

151. **Iodized Salt** is common Salt (NaCl) containing not less than 0.007 per cent iodine, uniformly distributed. (Adopted 1942.)

152. **Additional Officially Recognized Mineral Ingredients.**

The following inorganic (Mineral) chemicals are recognized as suitable ingredients in animal feeds under controlled conditions and when so used they shall be true to name and of purity equal to the commonly recognized "commercial grade" for the article and shall be declared as ingredients only by the names herein used:

Calcium Gluconate	Manganese Gluconate
Calcium Iodate	Manganese Oxide
Cobalt Acetate	Manganese Phosphate
Cobalt Carbonate	Manganese Sulfate
Cobalt Chloride	Manganoferro Phosphate
Cobalt Oxide	Magnesium Sulfate
Cobalt Sulfate	Monocalcium Phosphate
Copper Carbonate	Potassium Iodide
Copper Gluconate	Rock Phosphate
Copper Hydroxide	Salt
Copper Iodide	Sodium Bicarbonate
Copper Oxide	Sodium Molybdate
Copper Sulfate	Sodium Sulfate
Di-Calcium Phosphate	Soft Phosphate with Colloidal Clay
Diiodosalicylic Acid	Sulfur
Iron Carbonate	Thymol Iodide
Iron Gluconate	Tri-Calcium Phosphate
Iron Oxide	Zinc Acetate
Iron Phosphate	Zinc Carbonate
Iron Sulfate	Zinc Chloride
Manganese Carbonate	Zinc Oxide
Manganese Dioxide	Zinc Sulfate

### Tentative

**T-16. Feeding Phosphoric Acid** is a solution of phosphoric acid in water containing 75 per cent  $H_3PO_4$  and 25 per cent  $H_2O$  and shall contain not less than 23.7 per cent phosphorus (P), not more than 0.05 per cent fluorine (F) (1 part fluorine (F) to 474 parts of phosphorus (P)), 75 ppm of Arsenic (As) and 30 ppm of heavy metals reported as lead, color to be white to amber, turbidity clear to faint hazy. When this is used as an ingredient in mixed feeds, it shall be indicated in the ingredient list as "Phosphoric Acid". (Proposed 1957.)

**T-17. Steamed bone meal or cooked bone meal** is the dried, ground product suitable for animal feeding obtained by cooking undecomposed bone in water or with steam under pressure. Grease and meat fiber may or may not be removed. The label shall include a guarantee for calcium (Ca) and phosphorus (P). It may be designated in ingredient lists on feed tags as "Bone Meal". (Proposed 1957.)

### Future Discussion

**F-2. Dicalcium Phosphate from Bone or Precipitated Bone Phosphate** is the residue of bones that have been treated first in a caustic solution and then in a hydrochloric acid solution, and thereafter precipitated with lime and dried. It shall contain not less than 17% phosphorus (P). The label shall include a guarantee for calcium (Ca) and phosphorus (P). (Suggested 1952.)

## MINERAL FEEDS

(a) Substances which are intended as feed for animals other than man to supply primarily mineral elements or inorganic nutrients shall be classified

as mineral feeds. A guarantee for protein, fat, and fiber is not required.

(b) Feeds, mixed or unmixed, including mixtures containing both organic ingredients and 5 per cent or more of mineral ingredients, shall be labeled to show, in addition to the other information required by law, the minimum per cent of calcium (Ca), phosphorus (P), iodine (I) and the maximum per cent of salt (NaCl), if present. The ingredients shall be stated in the form in which used. When such mixtures contain relatively large amounts of salt, such as trace mineralized salt, then the guarantee on the label shall show the minimum percentage of salt (NaCl).

## Resolutions

**Resolution B.** Resolved that the use of the term Bone Phosphate of Lime (BPL) be discouraged in connection with the labeling of feed ingredients. (Adopted 1952.)

**Resolution C.** Resolved that if a minimum and a maximum percentum of calcium is guaranteed, then the maximum percentum of calcium shall not exceed by more than 20 percent the minimum percentum of calcium (Example: Calcium (Ca) minimum 10 percent, maximum 12 percent) and provided further, that in the event that minimum percent of calcium is 5 percent or less, the maximum percent of calcium may exceed the minimum by one percent of calcium. (Example: Calcium (Ca) minimum 3 per cent, maximum 4 percent.) (Adopted 1957.)

## MOLASSES

153. **Feeding Beet Molasses** is a by-product of the manufacture of beet sugar from sugar beets and shall contain 48 per cent or more of total sugars expressed as invert sugar. Its solution in an equal weight of water shall test not less than 39.75 degrees Brix. (Adopted 1941.)

154. **Feeding Corn Sugar Molasses** is a by-product of the manufacture of corn sugar from corn and shall contain 43 per cent or more of reducing sugars expressed as dextrose, and shall contain 60 per cent or more of total carbohydrates (dextrins, and reducing and non-reducing sugars). Its solution in an equal weight of water shall test not less than 39.00 degrees Brix. (Adopted 1941. Amended 1952, 1953.)

155. **Feeding Citrus Molasses** is the partially dehydrated juice of citrus fruit. It shall contain not less than 45 per cent of total sugars expressed as invert sugar. Its solution in an equal weight of water shall test not less 35.5 degrees Brix. (Adopted 1952.)

## Tentative

T-18. **Feeding Cane Molasses** is a product prepared from the juice of sugar cane. It may consist of various types of cane molasses or blends thereof with or without addition of other constituents which are normally present in and derived from cane molasses, provided the total sugar content expressed as invert sugar is not less than 48 per cent and the Brix by double dilution is not less than 79.5°. (Proposed 1957.)

**Resolution.** Resolved that label guarantees for protein, fat and fiber not be required for molasses. (Adopted 1956.)

## OAT PRODUCTS

156. **Oat Hulls** is the product consisting primarily of the outer covering of the oat. (Adopted prior to 1928.)

157. **Oat Middlings** is the product consisting of the floury portions of the oat groat obtained in the milling of rolled oats. (Adopted prior to 1928.)

158. **Oat Shorts** is the product consisting of the covering of the oat grain lying immediately inside the hull, being a fuzzy material carrying with it considerable portions of the fine floury part of the groat obtained in the milling of rolled oats. (Adopted prior to 1928.)

159. **Oat Chop, Ground Oats, Pulverized Oats, Crushed Oats or Crimped Oats** consists of the entire product made by chopping, cutting, grinding, crushing, or crimping whole oats. It shall contain not more than 10 per cent of other grains, weed seeds, and other foreign material. (Adopted 1952.)

160. **Oat Groats** are the kernels produced from cleaned and dried oats in the process of manufacturing oat meal. (Adopted 1931.)

161. **Hulled Oats, or Undried Oat Groats** are the kernels produced from the undried grain in the process of hulling oats. (Adopted 1931.)

162. **Feeding Oat Meal** is a product obtained in the manufacture of rolled oat groats or rolled oats and consists of broken rolled oat groats, oat groat chips, and floury portions of the oat groats, with only such quantity of finely ground oat hulls as is unavoidable in the usual process of commercial milling. It must not contain more than 4 per cent of crude fibre. (Adopted 1938.)

163. **Cut Oat Groats, Cracked Oat Groats, or Ground Oat Groats** is the product produced by cutting, cracking, or grinding oat groats. (Adopted 1938.)

164. **Clipped Oat By-Product** is the by-product obtained in the manufacture of clipped oats. It may contain the light chaffy material broken from the end of the hulls, empty hulls, light immature oats and dust. It must not contain an excessive amount of oat hulls. (Adopted prior to 1928.)

165. **Oat Mill By-Product** is the entire by-product obtained in the manufacture of oat groats and consists of oat hulls, and particles of the groat. It shall contain not more than 32 per cent crude fiber. (Adopted 1956.)

## Tentative

T-19. **Oat Chop, Ground Oats or Pulverized Oats** consist of the entire product made by chopping or grinding whole oats. It shall contain a minimum of 80 per cent sound cultivated oats and shall not contain more than 10 per cent wild oats; 3 per cent heat damaged kernels of oats, other grains and wild oats; and 5 per cent foreign material. (Proposed 1957.)

T-20. **Mixed Feed Oat Chop, Ground Mixed Feed Oats or Pulverized Mixed Feed Oats** consist of the entire product made by chopping or grinding a mixture of grain containing at least 30 per cent of cultivated oats provided that the mixture consists of either (a) not less than 65 per cent of culti-

vated and wild oats combined, or (b) not less than 65 per cent of wild oats. It shall not contain more than 25 per cent of other grains, not more than 6 per cent heat damaged kernels of oats, wild oats and other grains, and not more than 10 per cent foreign material which 10 per cent may include 4 per cent fine seeds. (Proposed 1957.)

Note—In these definitions the word "crushed" shall be substituted for "ground" where the product has been crushed instead of ground and the word "crimped" shall be substituted for "ground" where the product has been crimped instead of ground.

Note—The definition for Ground Oats corresponds to the requirements for Grade 4 Oats under the U.S. Grain Standards for whole oats.

Note—The definition for Ground Mixed Feed Oats corresponds to the requirements for Grade No. 3 Mixed Feed Oats under the U.S. Grain Standards for Whole Mixed Feed Oats.

Note—In these definitions "foreign material" shall include all matter except kernels and pieces of kernels of cultivated oats, other grains and wild oats; and shall include oat clippings and detached hulls.

## PEANUT PRODUCTS

166. **Peanut Cake** is the product obtained after the extraction of part of the oil by pressure or solvents from peanut kernels as produced under reasonable milling conditions. It must be designated and sold according to its protein content. (Adopted 1941. Amended 1950.)

167. **Peanut Meal** is ground peanut cake containing no hulls and not more than 7% fiber. It must be designated and sold according to its protein content. The term "solvent extracted" shall appear in the name of a product so processed. (Adopted 1954.)

168. **Peanut Meal and Hulls** is ground peanut cake with added hulls, or, is the ground residue after the extraction of part of the oil from whole peanuts. It must be designated and sold according to its protein content. The term "solvent extracted" shall appear in the name of a product so processed. (Adopted 1954.)

169. **Peanut Skins** is the outer covering of the peanut kernel, exclusive of hulls, as obtained in the usual process of commercial milling. This product may contain broken peanut kernels. (Adopted 1946.)

170. **Peanut Vine Meal** is the ground product obtained after the separation of peanuts from peanut vines and contains all or a large portion of the leaves and vines. (Adopted 1944.)

171. **Peanut Stem Meal** is the ground product obtained after the separation of peanuts from peanut vines from which practically all of the leaves have been removed and only vines and stems remain. (Adopted 1944.)

## RICE PRODUCTS

172. **Rice Bran** is the pericarp or bran layer of the rice, with only such quantity of hull fragments as is unavoidable in the regular milling of rice. (Adopted prior to 1928.)

173. **Rice Polishings** is a by-product of rice obtained in the milling operation of brushing the grain to polish the kernel. (Adopted 1938.)

174. **Rice Meal** is ground brown rice or ground rice after the hull has been removed. (Adopted prior to 1928.)

175. **Ground Rough Rice** is ground rice from which the hull has not been removed or ground paddy rice. (Adopted prior to 1928.)

176. **Rice Stone Bran** is the siftings from the materials secured in removing hulls from rice and contains rice germ, broken rice and some rice hulls. (Adopted prior to 1928.)

177. **Rice Huller Bran** is a product secured by the huller and cones from brown rice and consists mostly of the bran and germ. (Adopted prior to 1928.)

178. **Solvent Extracted Rice Bran** is the product obtained by removing part of the oil from rice bran or rice mill bran by the use of solvents and must contain not less than 14 per cent protein and not more than 14 per cent fiber. (Adopted 1951.)

179. **Rice Mill By-Product** is the total offal obtained in the milling of rice. It consists of rice hulls, rice bran, rice polish, and broken rice grains. Its crude fibre content shall not exceed 30 percent. (Adopted 1957.)

## RYE PRODUCTS

180. **Rye Bran** is the coarse outer covering of the rye kernel as separated from the cleaned and scoured rye. (Adopted prior to 1928.)

181. **Rye Feed** is a by-product obtained in the usual process of the milling of rye flour from cleaned and scoured rye, consisting principally of the mill-run of the outer covering of the rye kernel and the rye germ with small quantities of ryeflour and aleurone, and must not contain more than 9.5 per cent of crude fibre. (Adopted 1946.)

182. **Rye Red Dog** is a by-product obtained in the usual process of the milling of rye flour, consisting principally of aleurone with small quantities of rye flour and fine rye bran particles and must not contain more than 3.5 per cent crude fibre. (Adopted prior to 1928.)

183. **Rye Low-Grade Feed Flour** consists principally of rye flour and small quantities of aleurone and fine rye bran particles and must not contain more than 1.5 per cent of crude fibre. (Adopted prior to 1928.)

184. **Rye Middlings** consists of rye feed and rye red dog combined in the proportions obtained in the usual process of milling rye flour, and must not contain more than 8.5 per cent of crude fibre. (Adopted 1946.)

185. **Rye Flour Middlings** consists of rye feed, rye red dog and rye flour combined in the proportions obtained in the milling of rye flour and must not contain more than 5 per cent of crude fibre. (Adopted prior to 1928.)

## SCREENINGS

186. **Screenings** is the by-product obtained in the cleaning of grains which are included in the United States Grain Standard Act and other agricultural seeds. It may include light and broken grains and agricultural seeds, weed seeds, hulls, chaff, joints, straw, elevator or mill dust, sand and dirt. It shall be designated as Grain Screenings, Mixed Screenings and Chaff and/or Dust.

No grade of screenings shall contain any seeds or other material in amount that is either injurious to animals or will impart an objectionable odor or flavor to their milk or flesh. The screenings shall contain not more than four whole primary noxious weed seeds per pound and shall contain not more than 100 whole secondary noxious weed seeds per pound. The primary and secondary noxious weed seeds shall be those named as such by the individual state seed control laws.

All grades of screenings shall bear minimum guarantees of protein and fat and maximum guarantees of fiber and ash. When used in mixed feeds the portion of the description appearing in parenthesis in these definitions shall appear in the list of ingredients. (Adopted 1953.)

187. **Grain Screenings** shall consist of 70 per cent or more of grain (light and broken) including wild buckwheat and wild oats. It shall contain not more than 6.5 per cent ash. It shall be labeled "Grain Screenings (from wheat, corn, oats, etc.)." (Adopted 1953.)

188. **Mixed Screenings** is screenings excluded from the preceding grade. It shall be labeled "Mixed Screenings (grains, seeds, hulls, chaff)". It shall contain not more than 27 per cent fiber. If it contains more than 13 per cent ash, the words "sand" and "dirt" shall be included in the parenthetical statement. (Adopted 1953. Amended 1954.)

189. **Chaff and/or Dust** is material that is separated from grains or seeds in the usual commercial cleaning processes. It may include hulls, joints, straw, mill or elevator dust, sweepings, sand, dirt, grains, seeds. It shall be labeled "Chaff and/or Dust." If it contains more than 15 per cent ash the words "sand" and "dirt" shall appear on the label. (Adopted 1953.)

## SOYBEAN PRODUCTS

(Note—The process used in the production of various Soybean Oil Meal products shall be indicated in the brand name.)

190. **Ground Soybeans** is the product obtained by grinding whole soybeans without cooking or removing any of the oil. (Adopted 1933.)

191. **Soybean Mill Feed** is the by-product resulting from the manufacture of soybean flour or grits and is composed of soybean hulls and the offal from the tail of the mill. (Adopted 1944.)

192. **Soybean Hay Meal** is the product obtained from the grinding of the entire soybean hay, without the addition of any stems, straw, or foreign material, or the abstraction of leaves or beans. It shall be reasonably free from other crop plants and weeds and shall contain not more than 33 per cent of crude fibre. (Adopted 1944.)

193. **Soybean Hulls** is the product consisting of the outer covering of the soybean. (Adopted 1948.)

194. **Solvent Extracted Soybean Feed** is the material resulting from the partial removal of protein and nitrogen-free extract from solvent extracted soybean oil meal. It shall be designated and sold according to its protein content. (Adopted 1948.)

195. **Expeller Soybean Oil Chips** is the product obtained after expressing part of the oil from soybeans by crushing, cooking and mechanical pressure using an expeller, screw press, or any other mechanical press. It shall be designated and sold according to its protein content. (Adopted 1948.)



196. **Expeller Soybean Oil Meal** is the product resulting from grinding expeller soybean oil chips. It shall be designated and sold according to its protein content. (Adopted 1948.)

197. **Hydraulic Soybean Oil Cake** is the product obtained after expressing part of the oil from soybeans by crushing, cooking, and hydraulic pressure. It shall be designated and sold according to its protein content. (Adopted 1948.)

198. **Hydraulic Soybean Oil Meal** is the product resulting from grinding hydraulic soybean oil cake. It shall be designated and sold according to its protein content. (Adopted 1948.)

199. **Solvent Extracted Soybean Flakes** is the product obtained after extracting most of the oil from soybeans by cracking, heating, flaking, and the use of solvents. After extraction of the oil the product is cooked. It shall be designated and sold according to its protein content. (Adopted 1953.)

200. **Solvent Extracted Soybean Oil Meal** is the product resulting from grinding Solvent Extract Soybean Flakes. It shall be designated and sold according to its protein content. (Adopted 1948.)

201. **Dehulled Solvent Extracted Soybean Flakes** is the product obtained after extracting most of the oil from dehulled soybeans by cracking, heating, flaking and the use of solvents. After extraction of the oil the product is cooked. It shall contain not more than 3 per cent crude fiber and shall be designated and sold according to its protein content. (Adopted 1953.)

202. **Dehulled Solvent Extracted Soybean Oil Meal** is the product resulting from grinding dehulled solvent extracted soybean flakes. It shall contain not more than 3 per cent crude fiber and shall be designated and sold according to its protein content. (Adopted 1953.)

203. **Soybean Cubes or Soybean Pellets** consist of soybean oil meal which has been processed through a cubing or pelleting machine. The product shall be firm but not flinty, of sweet odor and free from mold. It must be designated and sold according to its protein content and its name must include one of the terms "hydraulic," "expeller," or "solvent extracted" to specify the method of manufacture of the source material. (Adopted 1951.)

#### Tentative

21. **Soya Grits or Soya Bean Grits** is the sized, screened product obtained after extracting most of the oil from dehulled soybeans by cracking, heating, flaking and the use of solvent. It shall contain not more than 3 per cent crude fiber and shall be designated and sold according to its protein content. (Proposed 1956.)

### VITAMINS

#### Official

204. **Cod Liver Oil** is the oil obtained from the livers of *gadus morrhuae* or other species of the family *gadidae*, either or both. It must contain not less than 385,900 U.S.P. units of vitamin A per pound (850 units per gram) and not less than 29,510 International Chick Units of vitamin D per pound (65 units per gram). (Adopted 1937—Amended 1945, 1950.)

205. **Cod Liver Oil with Added Vitamin A and D Concentrates** is the product consisting of cod liver oil to which have been added small percentages

of concentrates which are rich in vitamins A and D. The product shall contain not less than 136,200 International Chick Units of vitamin D per pound (300 per gram) and shall carry a minimum vitamin A guaranty. (Adopted 1948—Amended 1950.)

206. **Vitamin A Feeding Oil** is either fish or fish liver oil or a blend of two or more of the following: Vitamin A concentrate, fish liver oil, fish oil, marine animal oil, or edible vegetable oil. The vitamin potency shall be stated in U.S.P. units of vitamin A per pound. (Additional permissive per gram.) (Adopted 1944—Amended 1945.)

207. **Vitamin D<sub>2</sub> Supplement** is a feeding material used for its vitamin D<sub>2</sub> activity. It shall contain a minimum of 100,000 U.S.P. units of vitamin D per pound. (Adopted 1956.)

208. **Vitamin D Feeding Oil** is either fish or fish liver oil or a blend of two or more of the following: Vitamin D concentrate, synthetic vitamin D, fish liver oil, fish oil, marine animal oil, or edible vegetable oil. The vitamin potency shall be stated in International Chick Units of vitamin D per pound. (Additional permissive per gram.) (Adopted 1944—Amended 1945, 1950.)

209. **Vitamin A & D Feeding Oil** is either fish or fish liver oil or a blend of two or more of the following: Vitamin A and/or D concentrate, synthetic vitamin D, fish liver oil, fish oil, marine animal oil, or edible vegetable oil. The vitamin potency shall be stated in International Chick Units of vitamin D and U.S.P. units of vitamin A per pound. (Additional permissive per gram.) (Adopted 1944—Amended 1945, 1950.)

210. **D-Activated Animal Sterol** is a product which is obtained by activation of a sterol fraction of animal origin with ultra-violet light or other means. For label identification it may be followed with the parenthetical phrase ("Source of Vitamin D<sub>2</sub>"). (Adopted 1942.)

211. **D-Activated Plant Sterol** is a product which is obtained by activation of a sterol fraction of plant origin with ultra-violet light or other means. For label identification it may be followed with the parenthetical phrase ("Source of Vitamin D<sub>2</sub>"). (Adopted 1944.)

212. **Dried.....Fermentation Solubles** is the product obtained by the concentration and dehydration of the liquid by-product resulting from the action of the ferment on the basic medium of grain, molasses, whey, or other media and shall contain not less than 18 milligrams of riboflavin per pound on a moisture-free basis. For label identification the source shall be indicated as "Dried Whey Fermentation Solubles." (Adopted 1948—Amended 1951.)

213. **Condensed.....Fermentation Solubles** is the product resulting from the removal of a considerable portion of the liquid by-product resulting from the action of the ferment on the basic medium of grain, molasses, whey, or other media, and shall contain not less than 18 milligrams of riboflavin per pound on a moisture-free basis. For label identification the source shall be indicated as "Condensed Whey Fermentation Solubles." (Adopted 1948—Amended 1951.)

214. **Vitamin B<sub>12</sub> Supplement** is a feeding material used for its vitamin B<sub>12</sub> activity. It shall contain a minimum vitamin B<sub>12</sub> activity of 1.5 milligrams per pound. The term shall not be applied to products for which there are accepted names and definitions. (Adopted 1952.)

215. **Vitamin E Supplement** is a feeding material used for its Vitamin E activity. It shall contain a minimum Vitamin E activity equal to 10,000 International Units of Vitamin E per pound. The label shall bear a statement of Vitamin E activity in terms of International Units of Vitamin E per pound. (Adopted 1953.)

216. **Riboflavin Supplement** is a feeding material used chiefly for its riboflavin content, and shall contain not less than 1,000 milligrams of riboflavin per pound. The label shall bear a parenthetical statement of origin immediately following this declaration. (Adopted 1957.)

#### Future Discussion

F-3. **Vitamin A Supplement** is a feeding material used for its Vitamin A content. It is composed of a vehicle and Vitamin A and/or its compounds. It shall contain not less than two million U.S.P. units of Vitamin A per pound. The label shall state the source of Vitamin A activity. (Suggested 1956.)

<u>Recognized English Name</u>	<u>Article or Substance Indicated</u>
Ascorbic Acid	Crystalline ascorbic acid relatively free of impurities.
Betaine Hydrochloride	Crystalline chloride of betaine relatively free of impurities.
Biotin	Biotin relatively free of impurities.
Calcium Pantothenate	Crystalline calcium pantothenate relatively free of impurities.
Carotene	The refined crystalline carotene fraction of plants.
Choline Chloride	Choline chloride relatively free of impurities.
Choline Pantothenate	Crystalline choline pantothenate relatively free of impurities.
Folic Acid	Crystalline folic acid relatively free of impurities.
Herring Oil	The oil extracted from whole or parts of herring.
Menadione	Crystalline menadione relatively free of impurities.
Menadione Sodium Bisulfite	The addition product of menadione and sodium bisulfite containing not less than 60 percent of menadione sodium bisulfite.
Menhaden Oil	The oil extracted from whole menhaden.
Niacin; Nicotinic Acid	Crystalline nicotinic acid relatively free of impurities.
Niacinamide; Nicotinamide	Crystalline amide of nicotinic acid relatively free of impurities.
Pyridoxine Hydrochloride	Crystalline chloride of pyridoxine relatively free of impurities.
Riboflavin	Crystalline riboflavin relatively free of impurities.
Salmon Oil	The oil extracted from cannery refuse of salmon.
Salmon Liver Oil	The oil extracted from salmon livers.
Sardine Oil; Pilchard Oil	The oil extracted from whole or parts of pilchard.
Shark Liver Oil	The oil extracted from shark livers.
Stearine	The stearine fraction of animal or vegetable oils.
Thiamine; Thiamine Hydrochloride	Crystalline chloride of thiamine relatively free of impurities.
a-Tocopherol	a-Tocopherol relatively free of impurities.
Tuna Oil	The oil extracted from cannery refuse of tuna.
Vitamin A Acetate	Vitamin A acetate relatively free of impurities.
Vitamin A Palmitate	Vitamin A Palmitate relatively free of impurities.
Wheat Germ Oil	The oil extracted or expressed from wheat germ.

**Resolution A. Resolved:**

(a) That the International Chick Unit of Vitamin D is the activity produced by one unit of vitamin D in the U.S. Pharmacopoeia "Vitamin D Reference Standard" determined according to the method of the Association of Official Agricultural Chemists.

(b) That guaranties of minimum vitamin content of feeds and feed supplements shall be stated in units or milligrams per pound as provided herein; vitamin E activity in International Units, vitamin A, other than precursors of vitamin A, in USP Units, vitamin D in products offered for poultry feeding in International Chick Units, vitamin D for other uses in USP Units, all other vitamins as true vitamins, not compounds, excepting only pyridoxine hydrochloride, choline chloride, and thiamine; oils and concentrates containing vitamin A or vitamin D or both may be additionally labeled to show vitamin content in units per gram.

(c) That the word "vitamin" or a contraction thereof, or any word suggesting a vitamin, may be used only in the brand name of a feed represented solely to be a vitamin supplement and which is labeled with the minimum vitamin content guaranteed as specified in (b) hereof.

(d) 1. That no declaration of vitamin content of a feed or feed supplement shall appear in the ingredient statement or any other part of the label of a proprietary feed excepting that such statement is a guarantee of minimum vitamin content of the entire product given in terms as specified in (b) hereof.

2. That the common feed and/or mineral guarantees be not required for any product represented solely to be a vitamin supplement and which is labeled with a minimum vitamin guarantee as specified in (b) hereof.

**Resolution B.**

Resolved that if a feeding material is represented to be a combined vitamin B<sub>12</sub> and antibiotic feed supplement, it shall meet the potency standards and other label and informational requirements established for each component.

**WHEAT PRODUCTS**

218. **Wheat Bran** is the coarse outer covering of the wheat kernel as separated from cleaned and scoured wheat in the usual process of commercial milling. (Adopted prior to 1928.)

219. **Wheat Mixed Feed** consists of the coarse outer covering of the wheat kernel, fine particles of wheat bran, wheat germ, and wheat flour, and the offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 9.5 per cent of crude fibre. (Adopted 1949.)

220. **Wheat Standard Middlings** consists of fine particles of wheat bran, wheat germ, wheat flour and some of the offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 9.5 per cent of crude fibre. (Adopted 1949.)

221. **Wheat Brown Shorts** consists of fine particles of wheat bran, wheat germ, and wheat flour and some of the offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 7.5 per cent of crude fibre. (Adopted 1949.)

222. **Wheat Gray Shorts, Wheat Gray Middlings, or Wheat Flour Middlings** consists of fine particles of wheat bran, wheat germ, wheat flour, and the offal from the "tail of the mill". The product shall be obtained in the usual process of commercial milling and shall contain not more than 6 per cent of crude fibre. (Adopted 1949.)

223. **Wheat Red Dog, Wheat White Shorts, or Wheat White Middlings** consists of the offal from the "tail of the mill" together with some fine particles of wheat bran, wheat germ, and wheat flour. This product shall be obtained in the usual process of commercial milling and shall contain not more than 4.0 per cent of crude fibre. (Adopted 1949.)

224. **Wheat Feed Flour** consists principally of wheat flour together with fine particles of wheat bran, wheat germ, and the offal from the "tail of the mill." This product shall be obtained in the usual process of commercial milling and shall contain not more than 1.5 per cent of crude fibre. (Adopted 1949.)

225. **Wheat Germ Meal** consists chiefly of wheat germ together with some bran and middlings or shorts. It shall contain not less than 25 per cent of protein and 7 per cent of fat. (Adopted 1949, Amended 1953.)

226. **Wheat Germ Oil Cake** is the cake secured in the removal of part of the oil from wheat germ meal and shall contain not less than 29 per cent of protein. (Adopted 1949.)

227. **Wheat Germ Oil Meal** is ground wheat germ oil cake. (Adopted 1944.)

## YEAST

228. **Primary Dried Yeast or Dried Yeast** is the dried, non-fermentative yeast of the botanical classification *Saccharomyces* which has been separated from the medium in which propagated. It shall contain not less than 40 per cent protein. (Adopted 1955.)

229. **Active Dry Yeast** is yeast which has been dried in such a manner as to preserve a large proportion of its fermenting power. It must contain no added cereal or filler and must contain not less than 15 billion live yeast cells per gram. (Adopted 1951.)

230. **Irradiated Yeast, Irradiated.....Yeast** is yeast which has been subjected to ultra-violet rays in order to increase its anti-rachitic potency. (Adopted 1944.)

NOTE—When **Irradiated Yeast or Irradiated.....Yeast** is used as an ingredient of proprietary feeds for four-footed animals, the name may be followed by a parenthetical phrase "(source of vitamin D<sub>2</sub>)."

(Adopted 1945.)

231. **Brewer's Dried Yeast** is the dried, non-fermentative, non-extracted yeast of the botanical classification *Saccharomyces* resulting as a by-product from the brewing of beer and ale. It shall contain not less than 40 per cent protein. (Adopted 1955.)

232. **Grain Distillers' Dried Yeast** is the dried non-fermentative yeast of the botanical classification *Saccharomyces* resulting from the fermentation of grains and yeast, separated from the mash, either before or after distillation. It shall contain not less than 40 per cent protein. (Adopted 1955.)

233. **Molasses Distillers' Dried Yeast** is the dried, non-fermentative yeast of the botanical classification *Saccharomyces* resulting from the fermentation of molasses and yeast, separated from the medium, either before or after distillation. It shall contain not less than 40 per cent protein. (Adopted 1955.)

234. **Torula Dried Yeast** is the dried, non-fermentative yeast of the botanical classification *Torulopsis* which has been separated from the medium in which propagated. It shall contain not less than 40 per cent protein. (Adopted 1955.)

235. **Yeast Culture** is the dried product composed of Yeast and the media on which it was grown, dried in such a manner as to preserve the fermenting activity of the yeast. The media shall be stated on the label. (Adopted 1957.)

Note—No reference to media in ingredient listing is required when yeast culture forms a component of a proprietary mixed feed.

## MISCELLANEOUS PRODUCTS

236. **Dried Apple Pomace** is the sound, dried residue obtained by the removal of cider from apples. (Adopted 1929.)

237. **Dried Apple Pectin Pulp** is the sound, dried residue obtained by the removal of pectin from apple products. (Adopted 1929.)

238. **Dried Beet Pulp** is the dried residue from sugar beets which have been cleaned and freed from crowns, leaves, and sand, and which have been extracted in the process of manufacturing sugar. (Adopted prior to 1928.)

239. **Condensed Beet Solubles Product** is the product obtained after partial removal of potassium salts and glutamic acid from a condensed filtrate obtained in a process for recovering sugar from beet molasses. (Adopted 1955.)

240. **Buckwheat Feed** is a mixture of buckwheat middlings and buckwheat hulls. It must contain not more than 30 per cent of crude fibre. (Adopted 1944.)

241. **Buckwheat Middlings** is that portion of the buckwheat grain immediately under the hull after separation of the flour. It shall contain no more hulls than is obtained in the usual process of buckwheat milling, and must contain not more than 10 per cent of crude fibre. (Adopted 1944.)

242. **Coconut Oil Meal or Copra Oil Meal** is the ground residue remaining after removal of most of the oil from the dried meat of the coconut. The name must include a term descriptive of the process of manufacture (hydraulic, expeller or solvent process). It shall be designated according to its protein content. (Adopted 1955.)

243. ....**Oil Cake**, .....**Oil Chips**, .....**Oil Flakes** is the product remaining after removal of most of the oil from ground seed cleaned of foreign materials. The name must include a term descriptive of the process of manufacture (hydraulic, expeller or solvent extracted) and of its kind. It shall be designated according to its protein content. (Adopted 1953.)

NOTE—This definition applies only to commodities not otherwise defined.

244. ....**Oil Meal** is.....oil cake, chips or flakes ground to meal. The name must include a term descriptive of the process of manufacture (hy-

draulic, expeller or solvent extracted) and of its kind. It shall be designated according to its protein content. (Adopted 1953.)

NOTE—This definition applies only to commodities not otherwise defined.

245. **Ground Almond Hulls or Almond Hull Meal** is the product obtained by drying and grinding that portion of the almond fruit which surrounds the nut. It shall be reasonably free of the nut shell and other foreign material. (Adopted 1953.)

246. **Dried Tomato Pomace** is a dried mixture of tomato skins, pulp and crushed seeds resulting from the process of extracting the juice from tomatoes. (Adopted 1937.)

247. **Velvet Bean Meal** is ground velvet beans containing only an unavoidable trace of hulls or pods. (Adopted prior to 1928.)

248. **Ground Velvet Bean and Pod** is the product derived by grinding velvet beans with the pod. It contains no additional pods or other materials. (Adopted prior to 1928.)

249. **Yeast dried Grains or Vinegar Dried Grains** is the properly dried residue from the mixture of cereals, malt and malt sprouts (sometimes cottonseed meal) obtained in the manufacture of yeast or vinegar, and consists of corn or corn and rye from which most of the starch has been extracted, together with malt added during the manufacturing process to change the starch to sugar, and malt sprouts (sometimes cottonseed meal) added during the manufacturing process to aid in filtering the residue from the wort and to serve as a source of food supply for the yeast. (Adopted prior to 1928.)

250. **Straw Meal** is the ground product remaining after separation of the seed from mature forage plants. The source of the material shall constitute a part of the name of the product; as for example, "Blue Grass Straw Meal," "Alfalfa Straw Meal." (Adopted 1948.)

251. **Grass Meal** is the product obtained by drying and grinding grass which has been cut before formation of the seed. If a specie name is used the product must correspond thereto. (Adopted 1949.)

252. **Ramie Leaf Meal** is the ground product consisting chiefly of leaves from the ramie plant. It must not contain more than 18% of crude fibre. (Adopted 1949.)

253. **Dehydrated Garbage** is composed of artificially dried animal and vegetable waste from garbage collected sufficiently often that harmful decomposition has not set in, and from which have been separated crockery, glass, metal, string and similar materials. Its odor shall not be suggestive of the presence of decomposition, and it shall not contain more than one-fifth of one per cent glass, none of which shall be knifelike or needlelike particles. It shall be processed at a temperature sufficient to destroy all organisms capable of producing animal diseases. If part of the grease and fats is removed it shall be designated as Degreased Dehydrated Garbage. (Adopted 1954.)

254. **Whole Pressed Safflower Seed** is the ground residue obtained after extracting the oil from whole safflower seed. The name must include a term descriptive of the process of manufacture—hydraulic, expeller, solvent. (Adopted 1954.)

255. **Hydrolyzed.....Oil** is the product resulting from the acid or alkaline hydrolysis of vegetable oil or of fractions of vegetable oil, obtained during refining. It consists predominantly of the fatty acids but also includes some natural oil, pigments, phospholipids and other natural components of the crude oil. Its source shall be stated as part of the official name of the product, as for example, "Hydrolyzed Cottonseed Oil." (Adopted 1956.)



256. **Cereal Food Crumbs** consists of particles of breakfast cereals obtained as a by-product of their processing. (Adopted 1957.)

### Tentative

T-22. ....**Oil**.....**Ester** consists of hydrolyzed vegetable oil which has been chemically reacted with an alcohol to produce an ester. Its name shall specify both the oil and the alcohol from which it is produced. For example, Cottonseed Oil Methyl Ester, Soybean Oil Ethyl Ester. (Proposed 1956.)

T-23 **Bakery Crumbs** consists of pieces of sound, dry bread and/or other bakery products suitable for animal feeding. (Proposed 1956.)

### 257. ADDITIONAL OFFICIALLY RECOGNIZED INGREDIENTS:

<u>RECOGNIZED ENGLISH NAME</u>	<u>ARTICE OR SUBSTANCE</u>
Aniseed	The dried ripe fruit of <i>Pimpinella Anisum</i> . Stimulant, carminative and flavoring agent.
Capsicum; Red Pepper	The dried, ripe fruit of any species of <i>Capsicum</i> .
Caraway Seed	The dried fruit of <i>carum carvi</i> . Stimulant, carminative and condiment.
Dextrose	A refined, crystalized sugar obtained chiefly by the hydrolysis of starch or of a starch-containing substance.
Fennel	The dried ripe fruit of <i>Foeniculum Vulgare</i> . Stimulant, carminative, galactagogue and condiment.
Fenugreek Seed	The dried fruit of <i>Trigonella Foenumgrascum</i> Aromatic.
Gentian	The dried rhizome and roots of <i>gentiana luten</i> . Simple bitter.
Ginger	The dried rhizome of <i>Zingiber officianalle</i> . Condiment, carminative and stimulant.
Glucose	A syrup obtained by the incomplete hydrolysis of starch or of a starch-containing substance.
Kelp	Any of the various large brown seaweeds of the families <i>Fucaceae</i> and <i>Laminariaceae</i> . Source of Iodine.
Kamala	The hair of the capsules of <i>malfotus philippinensis taenifuge</i> .
Lactose; Milk Sugar	A sugar obtained from cow's milk.
Locust Bean (Carobbean)	The fruit of <i>Robina pseudacacia</i> Nutrient.
Saccharin Sodium	Saccharin Sodium of a grade suitable for use in feed.

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958

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Manufacturer

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A & B Feed Service, Charles City, Iowa  
 A & H Milling Service, Charlotte, Iowa  
 Abbott Laboratories, No. Chicago, Illinois  
 Abilene Flour Mills Co., The, Abilene, Kansas  
 Ackerman, Inc., Popejoy, Iowa  
 Ackley, Roger, Marble Rock, Iowa  
 Adams Feed Co., Fairmont, Minnesota  
 Adams Feed Co., Storm Lake, Iowa  
 Adrian, Wm. L., Westgate, Iowa  
 Agri-Tech, Inc., Kansas City, Missouri  
 Albaugh, Glenn, Mechanicsville, Iowa  
 Albers Dehydrating Co., Wisner, Nebraska  
 Albers Milling Co., Los Angeles, California  
 Albion Alfalfa Mill, Inc., Albion, Nebraska  
 Albrecht Feed Mill, Greene, Iowa  
 Albrecht Service, Wall Lake, Iowa  
 Alden Coop Elevator Co., Alden, Iowa  
 Aldinger, Lloyd, Iowa Falls, Iowa  
 Alfa Meal Company, Columbus, Nebraska  
 Algit Norwegian Kelp Meal Co., Chicago, Illinois  
 All-In-One Feeds, Inc., Portland, Michigan  
 Alleman Coop. Co., Alleman, Iowa  
 Allied Mills, Inc., Chicago, Illinois  
 Almquist, Reynold D., Essex, Iowa  
 Almquist Feed & Produce, Red Oak, Iowa  
 Al's Feed Store, Dolliver, Iowa  
 Alstott Feed & Supply, Fort Dodge, Iowa  
 Alton Premium Feed Co., Alton, Iowa  
 Alton Rendering Works, Alton, Iowa  
 Altoona Elevator, Altoona, Iowa  
 Amana Feed Mill, Homestead, Iowa  
 Amber Creamery, Amber, Iowa  
 Amber Milling (Div. of Farmers Union Grain Terminal Ass'n), St. Paul, Minnesota  
 Amerco Feed & Milling Co., Council Bluffs, Iowa  
 American Crystal Sugar Co., Denver, Colorado  
 American Cyanamid Co., Princeton, New Jersey  
 American Flours, Inc., Newton, Kansas  
 American Maize-Products Co., New York, New York  
 American Pearl Button Co., Washington, Iowa  
 American Yeast Co., Inc., Cedar Rapids, Iowa  
 American Zinc Sales Co., Columbus, Ohio  
 Ames Reliable Products Co., Ames, Iowa  
 Anamosa Feed Mill, Anamosa, Iowa  
 Anderson Feed Co., Inc., Pipestone, Minnesota  
 Anderson Feed Mill, Jefferson, Iowa  
 Anderson Hatchery, Primghar, Iowa  
 Anderson & Hopper, State Center, Iowa  
 Anderson & Peterson, Essex, Iowa  
 Anderson Produce & Feed, Waukon, Iowa  
 Andrew Coop., Andrew, Iowa  
 Andrew Farm Store, Jefferson, Iowa  
 Andrew Mill Creamery Co., Andrew, Iowa  
 Anfinson Feed Store, Cushing, Iowa  
 Anheuser-Busch, Inc., St. Louis, Missouri  
 Aplington Grain & Milling Co., Aplington, Iowa  
 Arbie Mineral Feed Co., Inc., Marshalltown, Iowa  
 Archer Coop. Grain Co., Archer, Iowa  
 Archer-Daniels-Midland Co., Minneapolis, Minnesota  
 Arco Dehydrating Co., Lake Park, Iowa  
 Arlington Coop. Comm. Co., Arlington, Iowa  
 Arlington Dehydrator Co., Arlington, Nebraska  
 Armour & Co., Chicago, Illinois  
 Armour Laboratories, Kankakee, Illinois  
 Arnold Bros., Russell, Iowa  
 Arnold Grain Co., Duncombe, Iowa  
 Arnold Grain & Livestock Co., Lake Park, Iowa  
 Arts-Way Feed & Milling, Holland, Iowa  
 Askey Feed Co., Red Oak, Iowa  
 Atkinson Milling Co., Minneapolis, Minnesota

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Atlantic Mill & Elevator, Atlantic, Iowa  
 Austinville Elevator & Lumber Co., Austinville, Iowa  
 Avoca Alfalfa Milling Co., Avoca, Iowa

B & H Hatchery, Cherokee, Iowa  
 B.C.S. Feed Supply, Bonaparte, Iowa  
 B & K Milling Co., Shenandoah, Iowa  
 B & M Co., Inc. Fort Dodge, Iowa  
 Babcock Milling Co., Farnhamville, Iowa  
 Baber's Vis-Vita Sales, Inc., Sioux City, Iowa  
 Backman Feed Service, Mt. Vernon, Iowa  
 Badger By-Products Co., Inc., Milwaukee, Wisconsin  
 Badger Coop. Elevator Co., Badger, Iowa  
 Bailey Feed Service, Waterloo, Iowa  
 Baker & Bros. H. J., New York, New York  
 Bakker & Rus Seed & Feed, Pella, Iowa  
 Barenthin Feed & Produce, Bennett, Iowa  
 Barnes Hatchery, Oskaloosa, Iowa  
 Bartels Portable Mill, Denver, Iowa  
 Barton Mills, Inc., Omaha, Nebraska  
 Barton Salt Co., Hutchinson, Kansas  
 Barvin Packing Co., Houston, Texas  
 Baxter Hatchery, Mt. Pleasant, Iowa  
 Bay State Milling Co., Leavenworth, Kansas  
 Bay State Milling Co., Winona, Minnesota  
 Beale, N. S. & Son Co., Toledo & Tama, Iowa  
 Beaman Coop. Co., Beaman, Iowa  
 Beaman, Howard, Casey, Iowa  
 Beardstown Mills Co., Beardstown, Illinois  
 Beatty's Feed Mill, Edgewood, Iowa  
 Beermann Bros., Dehy., Dakota City, Nebraska  
 Beer's Feed & Seed, Bennett, Iowa  
 Bell Brand Farm Supply, Fayette, Iowa  
 Bell Milling Co., Oskaloosa, Iowa  
 Belz & Company Feed Mill, Conrad, Iowa  
 Bendull & Sons, Vinton, Iowa  
 Berry Poultry Farm, Clarinda, Iowa  
 Big Bill's Feeds, Wyoming & Onslow, Iowa  
 Big Chief Stock Powder Co., Omaha, Nebraska  
 Big 4 Coop. Processing Ass'n., Sheldon, Iowa  
 Big Gain Products, West Union, Iowa  
 Big Jo Flour Mills (Div. of International Milling Co.), Wabasha, Minnesota  
 Birdwood Products Co., North Platte, Nebraska  
 Black Hawk Chemical Co., Inc., Cedar Falls, Iowa  
 Blackford Co., Oskaloosa, Iowa  
 Blair Milling & Elevator Co., Inc., Atchison, Kansas  
 Blairstown Feed Mill, Blairstown, Iowa  
 Blatchford Calf Meal Co., Waukegan, Illinois  
 Blenda Life, Inc., Green Isle, Minnesota  
 Blocker Milling Service, Waukon, Iowa  
 Bloemendaal Hatcheries, Alton, Iowa  
 Bloemendaal Hatcheries, Hartley, Iowa  
 Bloomfield Creamery Co., Bloomfield, Nebraska  
 Bloomfield Feed Mill, Bloomfield, Iowa  
 Blue Diamond Feed Co., Des Moines, Iowa  
 Blue Earth Rendering Co., Blue Earth, Minnesota  
 Blue Grass Feed Mill, Blue Grass, Iowa  
 Blue Ribbon Buttermilk Co., Sioux City, Iowa  
 Blue Ribbon Feeder Supply, Charles City, Iowa  
 Blume Feed & Milling, Clarinda, Iowa  
 Bob's Feed & Supply, Marshalltown, Iowa  
 Boeke Feed Co., Inc., Des Moines, Iowa  
 Bohstedt, B. R. & Son, Victor, Iowa  
 Boleyn, Clarence A., West Union, Iowa  
 Bolin Elevator, Coin, Iowa  
 Bolson, L. C. Co., The, Decorah, Iowa  
 Bonaparte Mill, Bonaparte, Iowa  
 Bookey Packing Co., Des Moines, Iowa  
 Boone Valley Coop. Processing Ass'n., Eagle Grove, Iowa  
 Booneville Coop. Elevator Co., Booneville, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Borden Co., The (Special Products Div.), New York, New York  
 Borden's Soy Processing Co., Waterloo, Iowa  
 Bordwell & Co., Washington, Iowa  
 Boss Feed Service, Wyoming, Iowa  
 Bowers Feed, Marshalltown, Iowa  
 Bowles Grain & Feed Co., Earling, Iowa  
 Bowles Grain & Feed Co., Portsmouth, Iowa  
 Bowman Feed Products, Inc., Holland, Michigan  
 Boyden Rendering Co., Boyden, Iowa  
 Bozarth, Leland, Morning Sun, Iowa  
 Bradgate Coop. Exchange, Bradgate, Iowa  
 Brady, J. F. Co., Atkinson, Nebraska  
 Brandt Elevator, Inc., Kesley, Iowa  
 Brandt Elevator, Inc., Stout, Iowa  
 Brandt, K. W. Elevator, Allison, Iowa  
 Brazos Valley Cotton Oil Co., Waco, Texas  
 Bream, Clarence E., Coralville, Iowa  
 Bremer Elevator, Bremer, Iowa  
 Brenno Mobile Service, Calmar, Iowa  
 Brickner, S. E. & Son, Decorah, Iowa  
 Brinkert Feed Co., Hartley, Iowa  
 Brinkman's Feed & Hay Grinding, Clarion, Iowa  
 Bristow Elevator Co., Bristow, Iowa  
 Broadlawn Products Co., Orion, Illinois  
 Brode Corp., The, Memphis, Tennessee  
 Brom Hatchery & Feed, Pella, Iowa  
 Brown Feed & Fertilizer, Oxford Junction, Iowa  
 Brown Forman Distillers Corp., Louisville, Kentucky  
 Bruce Milling Co., Inc., Kansas City, Kansas  
 Bruntlett, D. E. Elevator, Gowrie, Iowa  
 Buckeye Cellulose Corp., The, Cincinnati, Ohio  
 Buckeye Coop. Elevator, Buckeye, Iowa  
 Buelt Hatchery, Breda, Iowa  
 Burget Mill, Altoona, Iowa  
 Burnside, F. M., Cherokee, Iowa  
 Burt Cooperative Elevator, Burt, Iowa  
 Butler Chemical Co., Sales Div., Galena Park, Texas  
 Buttolph Grain Co., Bennett, Iowa  
 Butz Hatchery, Garner, Iowa

C & G Coal & Feed Co., West Des Moines, Iowa  
 C K Processing Co., Muscatine, Iowa  
 C & R Feed Service, Clinton, Iowa  
 C & R Feed Store, Lawler, Iowa  
 C & S Farm Store, Winthrop, Iowa  
 Calmar Milling Service, Calmar, Iowa  
 Campbell & Co., Inc., Mattoon, Illinois  
 Cane Products Corp., New York, New York  
 Cargill, Inc., Minneapolis, Minnesota  
 Carlson Rendering Plant, Martensdale, Iowa  
 Carpenter Elevator, Carpenter, Iowa  
 Carpenter's Feed Store, Brooklyn, Iowa  
 Carroll Grain & Plumbing Co., Carroll, Iowa  
 Carroll Rendering Works, Carroll, Iowa  
 Carroll Roller Mills, Carroll, Iowa  
 Carroll Sales Co., Mason City, Iowa  
 Carrollton Processing, Carrollton, Missouri  
 Carson Feed Co., Danville, Illinois  
 Cascade Feed Co., Inc., Cascade, Iowa  
 Case Feed Mill, Des Moines, Iowa  
 Casey Foxbilt Feed Mill Co., Casey, Iowa  
 Castro, Dewey, Jewell, Iowa  
 Center Jct. Coop., Center Junction, Iowa  
 Central Alfalfa, Inc., Lexington, Nebraska  
 Central Farm Products Co., Allerton, Iowa  
 Central Feed & Grain Co., Kansas City, Missouri  
 Central Iowa Bean Mill, Gladbrook, Iowa  
 Central Iowa Milling Co., Bagley, Iowa  
 Central Iowa Rendering Plant, Marshalltown, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Central Nebraska Packing Co., North Platte, Nebraska  
 Central Produce, Estherville, Iowa  
 Central Soya Co., Inc., Fort Wayne, Indiana  
 Challenge Feed Co., Atlantic, Iowa  
 Chapin Feed Milling Co., Chapin, Iowa  
 Charter Oak Grain Co., Charter Oak, Iowa  
 Chef Pet Foods, Inc., Delavan, Wisconsin  
 Chelsea Feed Mill, Chelsea, Iowa  
 Chester Feed Mill, Chester, Iowa  
 Chieftain Feeds, Cherokee, Iowa  
 Christy's Grain & Feed, Oxford, Iowa  
 City Mills, Guthrie Center, Iowa  
 Clarion Farm Supply, Clarion, Iowa  
 Clarion Farmers Elevator Cooperative, Clarion, Iowa  
 Clarke County Grain Co., Osceola, Iowa  
 Clarno, Dr. Products Co., Waterloo, Iowa  
 Clausen Distributing Co., Sioux City, Iowa  
 Clay Center Alfalfa Dehydrating Co., Inc., Clay Center, Kansas  
 Clermont Cooperative Co., Clermont, Iowa  
 Climax Grain & Feed Co., Rolfe, Iowa  
 Clinton Corn Processing Co., Clinton, Iowa  
 Clover Leaf Products, Inc., Belle Plaine, Iowa  
 Colburn Feed Mill, Tripoli, Iowa  
 Cole Rendering Works, Waterloo, Iowa  
 Colfax Feed Mill, Colfax, Iowa  
 Colorado Milling & Elevator Co., The, Denver, Colorado  
 Columbia Quarry Co., St. Louis, Missouri  
 Columbian Hog & Cattle Powder Co., Kansas City, Missouri  
 Colwell Coop. Grain Exchange, Colwell, Iowa  
 Commander-Larrabee Milling Co., Minneapolis, Minnesota  
 Commercial Solvents Corp., Terre Haute, Indiana  
 Community Coop. Ass'n, Webster City, Iowa  
 Community Feed Milling & Grain Co., The, Clarinda, Iowa  
 Conkey, G. E. Company Nebraska City, Nebraska  
 Connie's Feed Store, Latimer, Iowa  
 Conrad Coop., Conrad, Iowa  
 Conrad Bros., Lowden, Iowa  
 Conradi, Wm. H., Dike, Iowa  
 Consolidated Blenders, Inc., Fremont, Nebraska  
 Consolidated Flour Mills Co., The, Wichita, Kansas  
 Consolidated Products Co., Danville, Illinois  
 Consumers Coop. Ass'n., Kansas City, Missouri  
 Consumers Supply Corp., Storm Lake, Iowa  
 Continental Distilling Corp., Philadelphia, Pennsylvania  
 Cooper, Emory, Hampton, Iowa  
 Cooper's Mill, Ames, Iowa  
 Cooper, O. A. Company, The, Humboldt, Nebraska  
 Cooperative Elevator Ass'n., Ocheyedan, Iowa  
 Coop Elevator & Supply, Kamrar, Iowa  
 Cooperative Grain & Products Co., Ringsted, Iowa  
 Cooperative of Hudson, Hudson, Iowa  
 Corn Belt Supply Co., Inc., Sioux City, Iowa  
 Corn Products Sales Co., New York, New York  
 Corn States Laboratories, Inc., Omaha, Nebraska  
 Corning Rendering Plant, Corning, Iowa  
 Council Bluffs Hatchery, Council Bluffs, Iowa  
 Crenshaw Oil Company, Crenshaw, Mississippi  
 Cresco Milling Company, Cresco, Iowa  
 Crete Mills, The, Crete, Nebraska  
 Crossing, Floyd, Elevator, Charles City, Iowa  
 Crown Prince Dog Food Co., North Platte, Nebraska  
 Crump, A. W., Maquoketa, Iowa  
 Crystal Milling Co., Crystal Lake, Iowa  
 Cudahy Laboratories, Omaha, Nebraska  
 Cylinder Coop. Elevator Co., Cylinder, Iowa

Dahl's Feed Store, Des Moines, Iowa  
 Dairy Association Co., Inc., Lyndonville, Vermont  
 Dairyland Milk Corporation, St. Paul, Minnesota  
 Dallas Center Produce, Inc., Dallas Center, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Danilson, Vern Co., Adel, Iowa  
 Dannen Mills, Inc., St. Joseph, Missouri  
 Dari-Dri Company, Dundee, Illinois  
 Darling & Company, Chicago, Illinois  
 Dashiell, W. B. Company, Memphis, Tennessee  
 Davenport Elevator Co., Davenport, Casey and West Bend, Iowa  
 Dave's Feed Store, Luxemburg, Iowa  
 Davidson's Custom Grinding & Mixing, Waverly, Iowa  
 Davies Feed & Supply, Marengo, Iowa  
 Davis Company, M. H., Little Rock, Arkansas  
 Davis Elevator, Lenox, Iowa  
 Davis Enterprises, Inc., Dayton, Ohio  
 Dawe's Laboratories, Inc., Chicago, Illinois  
 Dayton Cooperative Elevator, Dayton, Iowa  
 Dean & Bill's Agricultural Service, New Hampton, Iowa  
 Decatur Elevator Co., Decatur, Illinois  
 Decatur Milling Co., Inc., Decatur, Illinois  
 Decker, Jacob E. & Sons, Mason City, Iowa  
 Decorah Creamery Co., Decorah, Iowa  
 Decorah Feed Mill, Decorah, Iowa  
 Dedham Cooperative Ass'n., Dedham, Iowa  
 Deeny, Donald F., Waucoma, Iowa  
 Dehy Alfalfa Mills, Inc., Fremont, Nebraska  
 Delmar Grain & Feed Co., Inc., Delmar, Iowa  
 Del's Feed Service, Lone Tree, Iowa  
 Delta Oil Mill, Inc., Jonestown, Mississippi  
 Denison Rendering Works, Denison, Iowa  
 Denison Seed Company, Denison, Iowa  
 Dennis, L. J. & Son, Center Point, Iowa  
 Denver Mill, Denver, Iowa  
 Des Moines Cooperative Dairy, Des Moines, Iowa  
 Des Moines County Farm Service Co., Danville & Mediapolis, Iowa  
 Des Moines Feed Co., Des Moines, Iowa  
 Des Moines Oat Products Co., Des Moines, Iowa  
 Desert Gold Feed Co., Liberty, Missouri  
 De Soto Elevator Co., De Soto, Iowa  
 Devils Glen Hatchery, Bettendorf, Iowa  
 De Witt Mill & Feed, De Witt, Iowa  
 Diamond Crystal Salt Co., St. Clair, Michigan  
 Diamond V Mills, Inc., Cedar Rapids, Iowa  
 Dickens Coop. Elevator, Dickens, Iowa  
 Doane Feed Products Co., Joplin, Missouri  
 Doerres, Bert, Lone Tree, Iowa  
 Dog Life Packing Co., Chicago, Illinois  
 Dolan, Robert L., Hills, Iowa  
 Donovan's, Inc., Albert Lea, Minnesota  
 Don's Cashway Farm Store, Rock Falls, Iowa  
 Don's Milling Service, Lakota, Iowa  
 Dontie Feed & Supply Store, Buffalo Center, Iowa  
 Doolittle Mill & Feed, Nevada, Iowa  
 Doughboy Industries, Inc., New Richmond, Wisconsin  
 Dove & Steffen, Oelwein, Iowa  
 Doyle Packing Company, Chicago, Illinois  
 Drake, Keith, Kalona, Iowa  
 DuBois, Clifford C. & Company, Mason City, Iowa  
 DuBois Farm Supply, Mason City, Iowa  
 Dubuque Packing Company, Dubuque, Iowa  
 Duffy & Ludeking, Waukon, Iowa  
 Dugdale Packing Co., St. Joseph, Missouri  
 Dunbar Cooperative Elevator, Dunbar, Iowa  
 Dunkerton Cooperative Elevator, Dunkerton & Fairbank, Iowa  
 DuPont de Nemours, E. I. & Co., Wilmington, Delaware  
 Durant Feed Company, Durant, Iowa  
 Dyas Feed Mill, Bellevue, Iowa  
 Dyersburg Oil Mill Co., Dyersburg, Tennessee  
 E & G Warehouse Co., Sigourney, Iowa  
 Eagle Grove Grain Company, Eagle Grove, Iowa  
 Eagle Roller Mills Co., New Ulm, Minnesota  
 Earlham Mill, Earlham, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Eastern Iowa Dairyland Products, Inc., Maquoketa, Iowa  
 Econ-O-Mix Feeds, Wilton Junction, Iowa  
 Economy Feed Mill, Inc., Guttenburg, Iowa  
 Economy Products, Shenandoah, Iowa  
 Edgewood Feed Mill, Edgewood, Iowa  
 Edison Dehydrating Co., Inc., Edison, Nebraska  
 Eilers Farm Service, Ireton, Iowa  
 Eldridge Cooperative Co., Eldridge, Iowa  
 Elenz Farm Supply, North Washington, Iowa  
 Elgin-Clermont Coop. Dairy Co., Elgin, Iowa  
 Elgin Cooperative Company, Elgin, Iowa  
 Elkader Cooperative Co., Elkader, Iowa  
 Elliott Packing Co., Duluth, Minnesota  
 Elna Brands, Inc. (Topco Associates Inc.), Chicago, Illinois  
 Elton Seed & Milling Co., Badger, Iowa  
 Emerson Feed & Fertilizer, Hedrick, Iowa  
 Emmetsburg Grain Co., Emmetsburg, Iowa  
 Emmetsburg Rendering Works, Emmetsburg, Iowa  
 Equity Coop. Ass'n. Inc., Waukon, Iowa  
 Equity Coop. Exchange, DeWitt, Iowa  
 Erdahl Hatchery, Cresco, Iowa  
 Ervin Lumber & Grain, Milo, Iowa  
 Eschenheimer, Rudy, Co., Inc., Chillicothe, Missouri  
 Etteldorf Chickeries, Ossian, Iowa  
 Evans Industries, Inc., Marion, Indiana  
 Evergreen Hatchery, Dysart, Iowa  
 Everson's Hatchery, Manson, Iowa  
 Ewing, Ray Co., The, Pasadena, California

F. T. & H. Feed Service, Colesburg, Iowa  
 F. M. S. Inc., Greenville, Ohio  
 Fagen Elevator Co., Inc., Keota, Iowa  
 Fairfax Grain Company, Fairfax, Iowa  
 Famous Molasses Feed Co., Ltd., Omaha, Nebraska  
 Farm Feed Co., Sioux City, Iowa  
 Farm Service, Breda, Iowa  
 Farmcraft Feeds, Inc., Des Moines, Iowa  
 Farmersburg Elevator, Farmersburg, Iowa  
 Fascher's Mobile Milling Service, Guttenberg, Iowa  
 Fast Gain Feeds, Inc., Sioux City, Iowa  
 Faulkner Grain & Feed Co., Faulkner, Iowa  
 Fauser's Feed & Supply, Waterloo, Iowa  
 Fedder's Hatchery, Sheldon, Iowa  
 Federal Foods, Inc., Thiensville, Wisconsin  
 Feed Products, Inc., Omaha, Nebraska  
 Feed-Rite Products Co., Chicago, Illinois  
 Feed Service Corporation, Crete, Nebraska  
 Feed Specialties, Inc., Des Moines, Iowa  
 Feller Grain Co., Cornelia, Iowa  
 Fenton Coop. Elevator Co., Fenton, Iowa  
 Ferron Corporation, Des Moines, Iowa  
 Fertile Valley Hatchery, Fertile, Iowa  
 Fine Foods Inc., Minneapolis, Minnesota  
 Fish Products Co., Lewes, Delaware  
 Fish Products Co., Tuckerton, New Jersey  
 Fleck Feed & Grain Co., Inc., Killduff, Iowa  
 Fleischmann Malting Co., Chicago, Illinois  
 Forest City Grist Mill, Forest City, Iowa  
 Fort Dodge By-Products Co., Inc., Fort Dodge, Iowa  
 Fort Dodge Feed Co., Inc., Fort Dodge, Iowa  
 Fort Madison Seed & Feed Co., Fort Madison, Iowa  
 Foster Feed Company, Fostoria, Iowa  
 Foster Mill, Washington, Iowa  
 Fostoria Cooperative Elevator Co., Fostoria, Iowa  
 Fox Produce, Lowden, Iowa  
 Foxbilt, Inc., Des Moines, Iowa  
 France Grain & Feed Co., Cherokee, Iowa  
 Frank's John L. & Co., Miles, Iowa  
 Fredericksburg Farmers Coop. Co., Fredericksburg, Iowa

FEEB MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Fredericksburg Produce Ass'n., Fredericksburg, Iowa  
 Frederika Mill, Frederika, Iowa  
 Frescoln Elevator, Chillicothe, Iowa  
 Freshwaters-Doah, West Chester, Iowa  
 Fridley Feed Mill, Sumner, Iowa  
 Friedlein, Carl S., Guttenberg, Iowa  
 Friends Laboratories, Ottumwa, Iowa  
 Frith, E. E. Company, Dubuque, Iowa  
 Froning & Deppe, Ames, Iowa  
 Froning & Froning, Garrison, Iowa  
 Fruen Milling Company, Minneapolis, Minnesota  
 Funk Bros. Seed Company, Bloomington, Illinois  
 Farmers Elevator Co., Inc., Ackley, Iowa  
 Farmers Coop. Elevator Co., Albert City, Iowa  
 Farmers Elevator, Alburnett, Iowa  
 Farmers Coop. Elevator Co., Allendorf, Iowa  
 Farmers Mutual Coop., Alton, Iowa  
 Farmers Cooperative Ass'n., Alvord, Iowa  
 Farmers Supply Co., Ankeny, Iowa  
 Farmers Coop. Elevator, Arcadia, Iowa  
 Farmers Coop. Elevator Co., Armstrong, Iowa  
 Farmers Elevator Co., Ashton, Iowa  
 Farmers Produce & Hatchery, Audubon, Iowa  
 Farmers Coop. Co., Aurelia, Iowa  
 Farmers Coop. Creamery Ass'n., Avoca, Iowa  
 Farmers Coop. Elevator Co., Ayrshire, Iowa  
 Farmers Coop. Company, Barnes City, Iowa  
 Farmers Coop. Elevator Co., Bedford, Iowa  
 Farmers Grain Company, Belmont, Iowa  
 Farmers Elevator, Bode, Iowa  
 Farmers Coop. Elevator & L. S. Co., Boone, Iowa  
 Farmers Coop. Elevator Co., Boxholm, Iowa  
 Farmers Coop. Creamery Co., Boyden, Iowa  
 Farmers Coop. Ass'n., Boyden, Iowa  
 Farmers Coop. Company, Britt, Iowa  
 Farmers Cooperative Elevator, Buffalo Center, Iowa  
 Farmers Coop. Elevator Co., Calamus, Iowa  
 Farmers Grain Co., Inc., Carlisle & Runnells, Iowa  
 Farmers Coop. Company, Cedar Falls, Iowa  
 Farmers Supply Co., Cedar Rapids, Iowa  
 Farmers Coop. Exchange, Central City, Iowa  
 Farmers Elevator Coop. Co., Chapin, Iowa  
 Farmers Feed Service, Charles City, Iowa  
 Farmers Coop. Co., Cherokee, Iowa  
 Farmers Coop. Company, Clear Lake, Iowa  
 Farmers Coop. Co., Cleghorn, Iowa  
 Farmers Coop. Grain & Lumber Co., Conroy, Iowa  
 Farmers Coop. Creamery, Corning, Iowa  
 Farmers Feed & Milling Service, Corwith, Iowa  
 Farmers Grain & Coal Co., Coulter, Iowa  
 Farmers Coop. Company, Creston, Iowa  
 Farmers Coop. Company, Dallas Center, Iowa  
 Farmers Feed Store, Dayton, Iowa  
 Farmers Service Store, Deep River, Iowa  
 Farmers Silver Spring Coop. Creamery Ass'n., Delhi, Iowa  
 Farmers Elevator & Mill, Inc., Denison, Iowa  
 Farmers Coop. Company, Dike, Iowa  
 Farmers Inc. Coop. Society, Dougherty, Iowa  
 Farmers Grain & Lumber Co., Dows, Iowa  
 Farmers Coop. Grain Co., Dumont, Iowa  
 Farmers Elevator Co., Dunlap, Iowa  
 Farmers Shipping Ass'n., Dyersville, Iowa  
 Farmers Union Coop., Dyersville, Iowa  
 Farmers Coop. Company, Eagle Grove, Iowa  
 Farmers Feed & Supply, Elkader, Iowa  
 Farmers Coop. Company, Ellsworth, Iowa  
 Farmers Coop. Elevator Co., Everly, Iowa  
 Farmers Coop. Company, Farnhamville, Iowa  
 Farmers Certified Mills, Fertile, Iowa  
 Farmers Coop. Company, Fontanelle, Iowa



FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Farmers Coop. Elevator Ass'n, Forest City, Iowa  
 Farmers Elevator Service Co., Fort Dodge, Iowa  
 Farmers Butter & Dairy Coop., Fredericksburg, Iowa  
 Farmers Coop. Company, Garden City, Iowa  
 Farmers Produce, Garner, Iowa  
 Farmers Elevator Co., George, Iowa  
 Farmers Elevator Coop., Goldfield, Iowa  
 Farmers Coop. Grain & Lumber Co., Gowrie, Iowa  
 Farmers Coop. Grain & Lumber Co., Grafton, Iowa  
 Farmers Inc. Coop. Society, Greene, Iowa  
 Farmers Coop. Company, Greenfield, Iowa  
 Farmers Coop. Elevator Co., Grundy Center, Iowa  
 Farmers Coop. Company, Halbur, Iowa  
 Farmers Coop. Elevator, Hanlontown, Iowa  
 Farmers Coop. Elevator Co., Harcourt, Iowa  
 Farmers Coop. Company, Hinton, Iowa  
 Farmers Coop. Elevator Co., Holmes, Iowa  
 Farmers Elevator Company, Holstein, Iowa  
 Farmers Mutual Coop. Company, Hospers, Iowa  
 Farmers Coop. Elevator Co., Hubbard, Iowa  
 Farmers Coop. Ass'n., Hull, Iowa  
 Farmers Coop. Cry., Ass'n., Hull, Iowa  
 Farmers Coop. Ass'n., Humboldt, Iowa  
 Farmers Supply Inc., Independence, Iowa  
 Farmers Coop. Elevator Co., Iowa Falls, Iowa  
 Farmers Coop. Ass'n of Inwood, Inwood, Iowa  
 Farmers Coop. Ass'n., Ireton, Iowa  
 Farmers Feed Mill, Kalona, Iowa  
 Farmers Coop. Elevator Co., Kanawha, Iowa  
 Farmers Feed Service, Keswick, Iowa  
 Farmers Coop. Creamery Ass'n., Keosauqua, Iowa  
 Farmers Elevator Company, Kingsley, Iowa  
 Farmers Coop. Elevator Co., Lake Mills, Iowa  
 Farmers Exchange, Lake Park, Iowa  
 Farmers Coop. Grain & Seed Co., Lamoni, Iowa  
 Farmers Coop. Elevator Co., Lanyon, Iowa  
 Farmers Coop. Ass'n., Larchwood, Iowa  
 Farmers Coop. Elevator Co., Larrabee, Iowa  
 Farmers Coop. Elevator Co., Laurens, Iowa  
 Farmers Certified Mills Co., Lawler, Iowa  
 Farmers Coop. Co., Ledyard, Iowa  
 Farmers Coop. Feed Co., Inc., Lime Springs, Iowa  
 Farmers Coop. Elevator Co., Lincoln, Iowa  
 Farmers Coop. Elevator Co., Linn Grove, Iowa  
 Farmers Coop. Elevator Co., Livermore, Iowa  
 Farmers Coop. Creamery Ass'n., Logan, Iowa  
 Farmers Coop. Elevator Co., Luther, Iowa  
 Farmers Coop. Elevator, Manly, Iowa  
 Farmers Coop. Co., Marathon, Iowa  
 Farmers Coop. Elevator, Marcus, Iowa  
 Farmers Elevator Co., Marion, Iowa  
 Farmers Coop. Elevator, Martelle, Iowa  
 Farmers Elevator, Inc., Mason City, Iowa  
 Farmers Mutual Coop. Creamery, Monticello, Iowa  
 Farmers Union Coop., Mt. Pleasant, Iowa  
 Farmers Coop. Co., New Hampton, Iowa  
 Farmers Produce Co., Oelwein, Iowa  
 Farmers Elevator Co., Olds, Iowa  
 Farmers Mutual Coop. Ass'n., Orange City, Iowa  
 Farmers Coop. Exchange, Otley, Iowa  
 Farmers Coop. Elevator, Ottosen, Iowa  
 Farmers Coop. Co., Palmer, Iowa  
 Farmers Coop. Co., Paullina & Granville, Iowa  
 Farmers Coop. Exchange, Pella, Iowa  
 Farmers Union Coop. Marketing Ass'n., Pella, Iowa  
 Farmers Coop. Elevator Co., Pierson, Iowa  
 Farmers Coop. Co., Plymouth, Iowa  
 Farmers Coop. Co., Pocahontas, Iowa  
 Farmers Coop. Creamery Co., The, Postville, Iowa  
 Farmers Exchange, Prairie City, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Farmers Certified Mills, Protivin, Iowa  
 Farmers Coop. Elevator Co., Radcliffe, Iowa  
 Farmers Coop. Ass'n., Ralston, Iowa  
 Farmers Coop. Grain Co., Randall, Iowa  
 Farmers Coop. Co., Readlyn, Iowa  
 Farmers Mercantile Co., Red Oak, Iowa  
 Farmers Coop. Co., Remsen, Iowa  
 Farmers Coop. Co., Renwick, Iowa  
 Farmers Elevator Co. of Ritter, Sheldon, Iowa  
 Farmers Coop. Exchange, Rock Rapids, Iowa  
 Farmers Elevator Co., Rock Valley, Iowa  
 Farmers Coop. Society, Rockwell, Iowa  
 Farmers Coop. Elevator, Rockwell City, Iowa  
 Farmers Coop. Elevator Ass'n., Roland, Iowa  
 Farmers Coop. Company, Rudd, Iowa  
 Farmers Coop. Elevator, Ruthven, Iowa  
 Farmers Grain Co., Schaller, Iowa  
 Farmers Coop. Elevator, Sheldon, Iowa  
 Farmers Coop. Exchange, Shenandoah, Iowa  
 Farmers Coop. Elevator Co., Sibley, Iowa  
 Farmers Coop. Society, Sioux Center, Iowa  
 Farmers Mutual Coop. Creamery, Sioux Center, Iowa  
 Farmers Union Ass'n., Sioux City, Iowa  
 Farmers Union Coop., Inc., Sioux City, Iowa  
 Farmers Coop. Creamery Ass'n., Slater, Iowa  
 Farmers Feed & Supply, Solon, Iowa  
 Farmers Grain & Lumber Co., South English, Iowa  
 Farmers Coop. Elevator Co., Spencer, Iowa  
 Farmers Coop. Creamery Co., St. Olaf, Iowa  
 Farmers Coop. Elevator Co., Stanhope, Iowa  
 Farmers Elevator, Inc., Storm Lake, Iowa  
 Farmers Coop. Grain Co., Story City, Iowa  
 Farmers Grain & Lumber Co., Sunbury, Iowa  
 Farmers Union Coop. Ass'n., Mill, Superior, Nebraska  
 Farmers Coop. Company, Sutherland, Iowa  
 Farmers Coop. Elevator Co., Swea City, Iowa  
 Farmers Coop. Company, Terril, Iowa  
 Farmers Coop. Elevator Co., Thompson, Iowa  
 Farmers Coop. Company, Thornton, Iowa  
 Farmers Feed & Supply Co., Tipton, Iowa  
 Farmers Elevator Company, Traer, Iowa  
 Farmers Grain & Coop. Co., Vinton, Iowa  
 Farmers Elevator & Exchange, Wapello, Iowa  
 Farmers Coop. Creamery Ass'n., Watkins, Minnesota  
 Farmers Coop. Elevator Co., Waukegan, Iowa  
 Farmers Coop. Exchange, Waverly, Iowa  
 Farmers Coop. Society, Wesley, Iowa  
 Farmers Coop. Co., Winfield, Iowa  
 Farmers Coop. Ass'n., Winterset, Iowa  
 Farmers Coop. Elevator, Woden, Iowa  
 Farmers Grain & Supply Co., Inc., Woodward, Iowa  
 Farmers Coop. Company, Woolstock, Iowa  
  
 G & B Products, Inc., Waterloo, Iowa  
 G & I Feed Company, Walker, Iowa  
 G.L.A. Products Co., Monticello, Iowa  
 Gale Elevator & Seed Co., Chillicothe, Iowa  
 Galesburg Soy Products Co., Galesburg, Illinois  
 Gallard Schlesinger Chemical Mfg. Corp., Long Island City, New York  
 Garnavillo Mills (Brandt Bros.), Garnavillo, Iowa  
 Garner Roller Mills, Garner, Iowa  
 Garst Company, The, Coon Rapids, Iowa  
 Garvin, Mark, Marcus, Iowa  
 Geerlings Feed Mills, Inc., Waterloo, Iowa  
 General Foods Corporation (Baker Gaines Div.), Kankakee, Illinois  
 General Mills, Inc., Minneapolis, Minnesota  
 General Molasses Co., New York, New York  
 Geneva Grain & Lumber Co., Geneva, Iowa  
 Gilbert Cooperative Co., Gilbert, Iowa  
 Gilbertville Milling Co., Inc., Gilbertville, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Gilmore Cooperative Company, Gilmore City, Iowa  
 Gilmore, George R., Lisbon, Iowa  
 Gipple Elevator Co., Bridgewater, Iowa  
 Glidden Company, Chicago, Illinois  
 Glidden Coop. Creamery Ass'n., Glidden, Iowa  
 Golden Sun Milling Co., Estherville, Iowa  
 Goldenrod Oil Meal Sales Co., Memphis, Tennessee  
 Gooch Milling & Elevator Co., Lincoln, Nebraska  
 Good Morning Mills, Le Mars, Iowa  
 Good Report Feed Co., Council Bluffs, Iowa  
 Goode Seed & Feed Co., Albia, Iowa  
 Goodman & Mead, State Center, Iowa  
 Gordon Hatchery, Marion, Iowa  
 Gotsch, P. J. Hatchery, Lake View, Iowa  
 Grace Chemical Co., Memphis, Tennessee  
 Graettinger Coop. Grain Co., Graettinger, Iowa  
 Grain Processing Corporation, Muscatine, Iowa  
 Grand River Chemical Co., Pryor, Oklahoma  
 Grassland Pig & Feed Co., Odebolt, Iowa  
 Gray Mill, Gray, Iowa  
 Great Atlantic & Pacific Tea Co., The, Ida Grove, Iowa  
 Great Atlantic & Pacific Tea Co., The, New York, N. Y., & Minneapolis, Minn.  
 Greeley Mill & Elevator, Greeley, Iowa  
 Green Glow Mills, Inc., Laurel, Nebraska  
 Green Products Co., Conrad, Iowa  
 Greene Rendering Co., Greene, Iowa  
 Greenfield Mfg. Service, Williams, Iowa  
 Green's Milling Co., Morris, Minnesota  
 Grinnell Feed & Grain Co., Grinnell, Iowa  
 Griswold Milling Co., Griswold, Iowa  
 Gro-Mor Feeds, Inc., Queen City, Missouri  
 Grove Feed Mill, Monona, Iowa  
 Guthrie Seed & Feed, Newton, Iowa

Haase Poultry Service, Sumner, Iowa  
 Hales & Hunter Co., Chicago, Illinois  
 Hall Robert's Son, Inc., Postville, Iowa  
 Hamilton Hatchery, Bancroft, Iowa  
 Hampton Farmers Coop. Co., Hampton, Iowa  
 Hampton Feed & Milling Co., Hampton, Iowa  
 Hand, Peter, Foundation, Chicago, Illinois  
 Harding Creamery, Omaha, Nebraska  
 Hardy Coop. Elevator Co., Hardy, Iowa  
 Hardy Salt Company, St. Louis, Missouri  
 Harms, Herbert L. Milling Service, Alden, Iowa  
 Harms, Herman J. Grain Elevator, Brunsville, Iowa  
 Harrison Mobile Feed Service, Conrad, Iowa  
 Hartley Creamery, The, Hartley, Iowa  
 Hartley Farm Service, Hartley, Iowa  
 Hartog Elevator, Sanborn, Iowa  
 Hart's Milling Service, Woden, Iowa  
 Hartz Mountain Products Corp., New York, New York  
 Hasenbach, E. C. Feed Service, Clarence, Iowa  
 Hatfield's Feed Service, Colo, Iowa  
 Haverhill Elevator Co., Haverhill, Iowa  
 Hawarden Feed Mill, Hawarden, Iowa  
 Hawkeye Coop. Co., Hawkeye, Iowa  
 Hawkeye Feed Mill, Knoxville, Iowa  
 Hayes, A. D. Co., Eldon, Yarmouth & Packwood, Iowa  
 Haynie Menhaden Products, Inc., Wildwood, New Jersey  
 Healy Hatcheries, Farley, Iowa  
 Heger Products Co., No. St. Paul, Minnesota  
 Heithoff & Son, Reinbeck, Iowa  
 Helena Cotton Oil Co., Inc., Helena, Arkansas  
 Hemphill Hatchery & Milling, Creston, Iowa  
 Hendricks Feed Co., Dubuque, Iowa  
 Herman's Feed & Grain, Wellman, Iowa  
 Hershberger's Golden Rule Feed Service, Kalona, Iowa  
 Hess Buttermilk Co., Dyersville, Iowa  
 Hess, Roger M., Oelwein, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturers

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Higgins, F. J. Milling Co., Schuyler, Nebraska  
 Highland Products, Inc., Minneapolis, Minnesota  
 Hi-Life Packing Company, Chicago, Illinois  
 Hill Packing Company, Topeka, Kansas  
 Hilleman's Packing Plant, Marshalltown, Iowa  
 Hills Grain & Feed, Inc., Hills, Iowa  
 Hillyer, Ray, Bennett, Iowa  
 Hilmer Grain Company, Rochester, Minnesota  
 Hobarton Coop. Elevator Co., Algona, Iowa  
 Hoffman-Taff, Inc., Springfield, Missouri  
 Hoham Laboratories, Inc., Auburn, Indiana  
 Hokel Feed Service, Sheffield, Iowa  
 Hollingshurst & Co., Inc., New York, New York  
 Holly Sugar Corporation, Colorado Springs, Colorado  
 Holt Products Company, Milwaukee, Wisconsin  
 Home Lumber & Feed Co., Crawfordsville, Iowa  
 Home Mix Feed Co., Wilton Junction, Iowa  
 Honeggers' & Co., Inc., Fairbury, Illinois  
 Honeymead Products Co., Mankato, Minnesota  
 Hoose, Frank & Co., Eddyville, Iowa  
 Hoosier Mineral Feed Co., Greenwood, Indiana  
 Hoover Mills Co., Brighton, Iowa  
 Hoover's Hatchery, Rudd, Iowa  
 Hormel, Geo. A. & Co., Austin, Minnesota  
 Hosch Feed Service, Parkersburg, Iowa  
 Hosch's Feed Service, Ackley, Iowa  
 Hostetler Feed & Produce, Kalona, Iowa  
 Hotle Feed & Grain Co., Washington, Iowa  
 Houston Feed Co., St. Joseph, Missouri  
 Hovey's Mill Co., Decorah, Iowa  
 Howard, W. H., Moulton, Iowa  
 Howard County Equity Coop. Ass'n., Elma, Iowa  
 Howard-Iowa Products Co., Jefferson, Iowa  
 Howell's Store, Lyman, Iowa  
 Hubbard Milling Co., Mankato, Minnesota  
 Huber Yeast Products Co., Waterloo, Iowa  
 Hubinger Co., The, Keokuk, Iowa  
 Hudson Coop. Dairy Ass'n., Hudson, Iowa  
 Hultman, Curtis, Essex, Iowa  
 Humphrey, Guy H. Mill, Drakesville, Iowa  
 Humphreys-Godwin Co., Memphis, Tennessee  
 Hunting Elevator Co., Austin, Minnesota, Cresco, Everly & Hartley, Iowa  
 Hurlbut Coal & Feed, Cedar Falls, Iowa  
 Hy Cross Hatchery, Inc., Mason City, Iowa  
 Hygrade Food Products Corp., Olin, Iowa  
 Hygrade Food Products Corp., Quincy, Illinois  
 Hy-Line Poultry Farm, Spencer, Iowa

I & K Grain, Harlan, Iowa  
 I & K Grain & Feed Co., Irwin, Iowa  
 Ida Grove Chick & Feed Store, Ida Grove, Iowa  
 Ideal Feed Mill, West Point, Iowa  
 Illinois Mfg. Co. of Quincy, Quincy, Illinois  
 Impact Milling Co., Postville, Iowa  
 Imperial Products Co., Wadsworth, Illinois  
 Independence Rendering Works, Independence, Iowa  
 Indianola Chapter FFA, Indianola, Iowa  
 Industrial Molasses Corp., Minneapolis, Minnesota  
 Inland Mills, Inc., Des Moines, Iowa  
 Inland Molasses Co., Dubuque, Iowa  
 International Milling Co., Minneapolis, Minnesota  
 International Minerals & Chemical Corp., Skokie, Illinois  
 International Stock Food Co., Minneapolis, Minnesota  
 International Sugar Feed Co., Minneapolis, Minnesota  
 International Supply, Eldora, Iowa  
 Ionia Feed & Milling, Ionia, Iowa  
 Iowa Milling Co., Cedar Rapids, Iowa  
 Iowa Soda Products Co., Council Bluffs, Iowa  
 Iowa Soya Company, Redfield, Iowa  
 Iowa Valley Milling Co., Iowa City, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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- Iowa's Best Products Co., Cedar Rapids, Iowa  
 Ironized Feed Co., Cedar Rapids, Iowa  
 Ismert-Hincke Milling Co., The, Kansas City, Missouri
- J & M Feeds, Wilton Junction, Iowa  
 J & S Feed Service, Manning, Iowa  
 Jack's Feed Store, Ireton, Iowa  
 Jack's Feed & Produce, Stanwood, Iowa  
 Jacob Feed Company, Milford, Iowa  
 Jacobs Elevator, Charles City, Iowa  
 Janesville Feed Mill, Janesville, Iowa  
 Jaspersen, Kenneth W., Wilton Junction, Iowa  
 Jaster Feed Mill, Elkport, Iowa  
 Jefferson Feed Mill, Jefferson, Iowa  
 Jennison, W. J. Co., Minneapolis, Minnesota  
 Jensen's Mobile Feed Service, Anamosa, Iowa  
 Jerry's Milling Service, Elkader, Iowa  
 Jersee Co., The, Minneapolis, Minnesota  
 Jesup Coop. Creamery, Jesup, Iowa  
 Jesup Farmers Coop., Jesup, Iowa  
 Jewell Coop. Elevator Co., Jewell, Iowa  
 Jewell Feed Service, Greene, Iowa  
 Johnson Bros. Mills, Shenandoah & Essex, Iowa  
 Johnson County Creamery, Inc., Iowa City, Iowa  
 Johnson Feed & Grain, Brooklyn, Iowa  
 Johnson Feed & Grain, Montezuma, Iowa  
 Johnson Feed Mill, Hopkinton, Iowa  
 Johnson Feeder Supply, Northwood, Iowa  
 Johnson Grain Company, Gowrie, Iowa  
 Johnson Hatchery, Buffalo Center, Iowa  
 Johnson Hatcheries, Inc., West Branch, Iowa  
 Johnson-Hauser, Inc., Union, Iowa  
 Johnson Produce & Feed Co., Odebolt, Iowa  
 Joice Coop. Elevator Co., Joice, Iowa  
 Jones, Harley, Shell Rock, Iowa  
 Jones Hatchery & Feed, Winfield, Iowa  
 Jorgensen's Feed & Seed, Avoca, Iowa  
 Juergens Produce & Feed, Carroll, Iowa
- K & B Hatchery & Feed Store, Jesup, Iowa  
 K & K Mfg. Inc., Minneapolis, Minnesota  
 Kaberle Farm Supply, Strawberry Point, Iowa  
 Kalb Hatchery & Feed, Peosta, Iowa  
 Kanawha Milling Co., Kanawha, Iowa  
 Kansas Flour Mills Co., Kansas City, Missouri  
 Kar-O-Ten Company, St. Joseph, Missouri  
 Karg's Feed Service, New Market, Iowa  
 Kark Feed & Rendering Co., Osage, Iowa  
 Kark Milling Company, Blue Earth, Minnesota  
 Karschner Products Co., Northwood, Iowa  
 Kaufman Feed & Grain, Stanley, Iowa  
 Kay Dee Feed Company, Sioux City, Iowa  
 Kel Min Corporation of America, Kansas City, Missouri  
 Kellogg Company, Ocala, Florida  
 Kellogg Sales Company, Battle Creek, Michigan  
 Kelsay Feed Co., U.A., Red Oak, Iowa  
 Kemp Feed Company, Sigourney, Iowa  
 Kennel Feed Company (Div. of Hygrade Products Corp.), Fairfield, Conn.  
 Kennett Oil Mill, Inc., Kennett, Missouri  
 Kenny, William W., Jr. (Kenny's Portable Mill), Osage, Iowa  
 Kent Feeds, Inc., Muscatine, Iowa  
 Keosauqua Feed & Grain Co., Keosauqua, Iowa  
 Keota Spray Service, Keota, Iowa  
 Kerber Milling Co., Emmetsburg, Iowa  
 Kidman's Standard Stock Powder Co., Des Moines, Iowa  
 King Company, The, Cedar Rapids, Iowa  
 King Midas Flour Mills, Minneapolis, Minnesota  
 King-Vita Feed Company, Des Moines, Iowa  
 Kingan, Inc. (Div. of Hygrade Food Products Corp.), Storm Lake, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Kirkpatrick & Son, North English, Iowa  
 Kisco Products Company, Sheldon, Iowa  
 Kisley Garage & Mill, Stacyville, Iowa  
 Klemme Coop. Grain Co., Klemme, Iowa  
 Klinefelter's, Inc., Gladbrook, Iowa  
 Knauf & Tesch Company, Chilton, Wisconsin  
 Knierim Coop. Elevator Co., Knierim, Iowa  
 Kraft Foods Company, Chicago, Illinois  
 Kreiner Bros., Hampton, Iowa  
 Krob, F. J. & Co., Ely, Iowa  
 Kruse Grain Company, Inc., Cleves, Iowa  
  
 Laab's Dairy Co., Westboro, Wisconsin  
 Lacona Coop. Elevator, Lacona, Iowa  
 LaGrange Mills, Red Wing, Minnesota  
 Lake City Hatchery, Lake City, Iowa  
 Lake City Rendering Co., Lake City, Iowa  
 Lake States Yeast Corporation, Rhinelander, Wisconsin  
 Lake View Feed & Milling, Lake View, Iowa  
 Lakota Farmers Elevator Co., Lakota, Iowa  
 Lambert Feed Co., Garner, Iowa  
 Lamesa Cotton Oil Co., Lamesa, Texas  
 Lammers Bros., Breda, Iowa  
 Lamont Feed Mill, Lamont, Iowa  
 Land O'Lakes Creameries, Inc., Minneapolis, Minnesota  
 Lang Alfalfa Farms, Grinnell, Iowa  
 La Porte City Coop. Elevator, La Porte City, Iowa  
 Latare, Don, Grand Mound, Iowa  
 Latimer Grain Company, Latimer, Iowa  
 Laurel Coop. Co., Laurel, Iowa  
 Lawn Hill Coop., Lawn Hill, Iowa  
 Leach Feed Store, Griswold, Iowa  
 Lee, C. L. & Sons, Ida Grove, Iowa  
 Leftwich, J. H. & Co., Inc., Mobile, Alabama  
 Le Grand Elevator Co., Le Grand, Iowa  
 Leichtman's, New Hampton, Iowa  
 Leigh, Harry Feed Co., Dyersville, Iowa  
 Leland Farmers Coop. Elevator, Leland, Iowa  
 Leland Oil Works, Leland, Mississippi  
 Le Mars Hatchery, The, Le Mars, Iowa  
 Le Mars Rendering Works, Le Mars, Iowa  
 Lenning, Emery, Blairsburg, Iowa  
 Lenning, Glenn, Radcliffe, Iowa  
 Lenth Feed Store, Riceville, Iowa  
 Leonard's Hatchery, Osage, Iowa  
 Leytem's Feed Service, Monticello, Iowa  
 Life Guard Feed Products Co., Des Moines, Iowa  
 Lillig Grain & Feed, Keota, Iowa  
 Lilly, Eli & Company, Indianapolis, Indiana  
 Link Feed Company, Epworth, Iowa  
 Linn County Farmers Mutual Cry. Ass'n., Coggon, Iowa  
 Linn's Feed Service, Coon Rapids, Iowa  
 Lisbon Elevator, Inc., Lisbon, Iowa  
 Liscomb Grain Co., Liscomb, Iowa  
 Little Cedar Coop. Elevator, Little Cedar, Iowa  
 Livestock Enterprises, Stratford, Iowa  
 Lloyd, W. E., D. V. M., Essex, Iowa  
 Logan Mill, Logan, Iowa  
 Lohrville Feed Mill, Lohrville, Iowa  
 Loncala Phosphate Co., High Springs, Florida  
 Lone Rock Coop. Exchange Co., Lone Rock, Iowa  
 Lost Nation Mill, Lost Nation, Iowa  
 Lothe Mobil Milling, Newton, Iowa  
 Lovitt, L. B. & Co., Memphis Tennessee  
 Low Moor Feed Service, Low Moor, Iowa  
 Lubbock Cotton Oil Company, Lubbock, Texas  
 Lucas Products Company, Bedford, Iowa  
 Lux Leghorn Land Farms, Inc., Hopkinton, Iowa  
 Lynnville Mill & Power, Lynnville, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Mc Allister Feed Mill, Stockport, Iowa  
 Mc Arthur Chemical Co., Eldridge, Iowa  
 Mc Callsburg Coop. Co., Mc Callsburg, Iowa  
 Mc Carthy Hatchery, Eldora, Iowa  
 Mc Cormack, Dan, Grundy Center, Iowa  
 Mc Gregor Bros., Dehy. Co., Nashua, Iowa  
 Mc Kee Feed & Grain Co., Muscatine, Iowa  
 Mc Keen's Vigortone Sales, Jesup, Iowa  
 Mc Kesson & Robbins, Inc., New York, N. Y.  
 Mc Millen Feed Mills, Fort Wayne, Indiana  
 M & J Feed, Cedar Rapids, Iowa  
 M & J Grain, West Branch, Iowa  
 M & M Livestock Products Co., Eagle Grove, Iowa  
 Macdonald's Dr. Vitamized Feed Co., Inc., Fort Dodge, Iowa  
 Mac's Feeder Supply, Belmond, Iowa  
 Maehr Feed & Supply Co., Inc., Davenport, Iowa  
 Malcom Farmers Coop. Elevator, Malcom, Iowa  
 Mallard Produce, Mallard, Iowa  
 Maloy Feed Mill, Eddyville, Iowa  
 Manchester Feed & Supply, Manchester, Iowa  
 Maney Bros. Mill & Elevator Co., Inc., Minneapolis, Minnesota  
 Manning Grain & Feed, Manning, Iowa  
 Manning Mill, Manning, Iowa  
 Manning Rendering Works, Manning, Iowa  
 Maple Dale Hatchery, Austin, Minnesota  
 Maplecrest Turkey Farms, Wellman, Iowa  
 Maquoketa Valley Coop., Arlington, Iowa  
 Marco Chemical Co., Fort Worth Texas  
 Marco Mills, Inc., Joplin, Missouri  
 Marhoefer Packing Co. of Iowa, Postville, Iowa  
 Marianna Sales Company, Memphis Tennessee  
 Marion Feed Center, Inc., Marion, Iowa  
 Marks Feed & Supply Store, Mc Gregor, Iowa  
 Marshall Creamery Co., Inc., Marshalltown, Iowa  
 Marshall Mill, Inc., Marshalltown, Iowa  
 Marshall Packing Company, Marshalltown, Iowa  
 Marshall Products Co., Inc., Ames, Iowa  
 Martin Hatchery & Mill, Inc., Maquoketa, Iowa  
 Martin Milling Company, Omaha, Nebraska  
 Marvick Feed Mill, Villisca, Iowa  
 Marv's Feed & Seed, Dunkerton, Iowa  
 Mason City Hatchery, Mason City, Iowa  
 Massena Coop. Co., Massena, Iowa  
 Matlock Coop., Matlock, Iowa  
 Maurice Elevator, Inc., Maurice, Iowa  
 Mauss Produce, New Albin, Iowa  
 Mayer, Oscar & Co., Inc., Madison, Wisconsin  
 Mayer, Oscar Packing Co., Davenport, Iowa  
 Maynard Coop. Co., Maynard, Iowa  
 Mayo Shell Corp., Houston, Texas  
 Mead Johnson & Co., Evansville, Indiana  
 Meier Feed & Milling, Chester, Iowa  
 Me-Jon Fertilizer, Inc., Oxford, Iowa  
 Melody Mills, Inc., Libertyville, Illinois  
 Merchants Creamery Co., The, Cincinnati, Ohio  
 Merck & Co., Inc., Rahway, New Jersey  
 Merkert's Bros. Grain & Feed Co., Minden, Iowa  
 Meyer, Lambert H., Garner, Iowa  
 Meyer, O. W. Laboratories, Napoleon, Ohio  
 Mid-America Milling Co., Omaha, Nebraska  
 Middleton Feed Service, What Cheer, Iowa  
 Middletown Mills, Burlington, Iowa  
 Midvale Feed & Grain, Huxley, Iowa  
 Midwest Dried Milk Co., Dundee, Illinois  
 Midwest Mineral Products Co., Grinnell, Iowa  
 Midwest Packing Co., Inc., Des Moines, Iowa  
 Midwest Solvents Co., Inc., Atchison, Kansas  
 Midwest Yeast Co., Des Moines, Iowa  
 Milbrew Co., Milwaukee, Wisconsin  
 Miller Chemical Co., Inc., Omaha, Nebraska

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Miller Truck Service, Ruthven, Iowa  
 Miller's Green Pasture Feed Co., Ralston, Nebraska  
 Milligan & Son, Inc., Sioux City, Iowa  
 Milligan, E. A. & Son, Inc., Des Moines, Iowa  
 Miner-Ol Co., Inc., The, Warsaw, Illinois  
 Minnesota Linseed Oil Co., Minneapolis, Minnesota  
 Minrulax, Inc., Council Bluffs, Iowa  
 Mitchell-Maskrey & Co., Maquoketa, Iowa  
 Mitchellville Coop., Mitchellville, Iowa  
 Moats Feed Mill, Strawberry Point, Iowa  
 Modern Milling Co., Postville, Iowa  
 Moeller and Walter, Inc., Dinsdale, Iowa  
 Monarch Feed Mill, Osage, Iowa  
 Monona Farmers Coop. Comm. Co., Monona, Iowa  
 Monroe Grain-Alfalfa Co., Monroe, Nebraska  
 Monsanto Chemical Co., St. Louis, Missouri  
 Montana Flour Mills Co., Great Falls, Montana  
 Montezuma Elevator, Montezuma, Iowa  
 Monticello Feed Mill, Monticello, Iowa  
 Moon Hatchery & Feed, Lamoni, Iowa  
 Moorman Mfg. Co., Quincy, Illinois  
 Morgan Packing Co., Austin, Indiana  
 Mor-Gro, Inc., Algona, Iowa  
 Morlan's Big "10" Feed Co., Eldora, Iowa  
 Mor-Milk Co., The, Dixon, Illinois  
 Morning Sun Rendering Works, Morning Sun, Iowa  
 Morrell & Co., John, Ottumwa, Iowa  
 Morrison Coop. Ass'n., Morrison, Iowa  
 Morton Salt Co., Chicago, Illinois  
 Mt. Ayr Mill & Feed, Mt. Ayr, Iowa  
 Mt. Pleasant Farmers Coop., Mt. Pleasant, Iowa  
 Mt. Union Coop. Elevator Co., Mt. Union, Iowa  
 Mowat, Wilson & Co., Detroit, Michigan  
 Mueller, F. & Sons Co., Grand Mound, Iowa  
 Mugge's Feed Milling Co., Spencer, Iowa  
 Mullen Feed Store, Lansing, Iowa  
 Munn, H. L. Lumber Co., Slater, Iowa  
 Murphy Feed Service, Fort Madison, Iowa  
 Murphy Products Co., Burlington, Wisconsin  
 Murray Elevator Co., Bancroft, Iowa  
 Muscatine Alfalfa Mills, Muscatine, Iowa  
 Muscatine Processing Corp., Muscatine, Iowa  
 Mutual Products Co., Minneapolis, Minnesota  
 Myers Feed & Milling, Fairbank, Iowa  
 Myers, Gene, Portable Feed Mill, Ridgeway, Iowa  
 Myers, W. A. Grinding & Mixing, Mc Gregor, Iowa  
 Myzon, Inc., Chicago, Illinois

Napier Coop. Ass'n., Ames, Iowa  
 Nashua Equity Coop., Nashua, Iowa  
 Nashua Grain & Milling Co., Nashua, Iowa  
 National Alfalfa Dehydrating & Milling Co., Lamar, Colorado  
 National Biscuit Co., New York, New York  
 National By-Products, Inc., Des Moines, Iowa  
 National Distillers Products Corp., New York, New York  
 National Food Co., Fond Du Lac, Wisconsin  
 National Molasses Co., Oreland, Pennsylvania  
 National Oats Co., Cedar Rapids, Iowa  
 National Tea Co., Chicago, Illinois  
 National Vitamin Products Co., Minneapolis, Minnesota  
 National Yeast Co., Inc., The, St. Olaf, Iowa  
 Nebraska Consolidated Mills Co., Omaha, Nebraska  
 Neese & Son, Des Moines, Iowa  
 Neff Hatchery, Adel, Iowa  
 Neil, Adrian M. Co., The, Tama, Iowa  
 Nelson, C. L. & R. H. Ahrens, Doctors, Jewell, Iowa  
 Nelson Grain & Feed, Galt, Iowa  
 Neppl Hatchery & Produce, Wall Lake, Iowa  
 New Era Milling Co., The, Arkansas City, Kansas  
 New Hartford Elevator, New Hartford, Iowa



FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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New London Farmers Coop., New London, Iowa  
 New Vienna Feed & Supply Co., New Vienna, Iowa  
 Newell Bros. Elevator, Eddyville, Iowa  
 Newell Coop. Elevator, Newell, Iowa  
 Newhall Grain Co., Inc., Newhall, Iowa  
 Newkirk Grinding Service, Melvin, Iowa  
 Nie Grain & Feed Co., Inc., Mechanicsville, Iowa  
 Nissen & Son Packing Co., G. B., Webster City, Iowa  
 Nitrogen Division (Allied Chemical & Dye Corp.), Hopewell, Virginia  
 Nixon & Company, Omaha, Nebraska  
 Nopco Chemical Co., Harrison, New Jersey  
 Nora Springs Mill, Nora Springs, Iowa  
 Norfolk Cereal & Flour Mills Co., Norfolk, Nebraska  
 North American Trading & Import Co., Philadelphia, Pennsylvania  
 North Dakota Mill & Elevator, Grand Forks, North Dakota  
 North Iowa Coop. Processing Ass'n., Mason City, Iowa  
 North Platte Rendering Co., North Platte, Nebraska  
 Northern States Laboratories, Luverne, Minnesota  
 Northwest Brewers Yeast Inc., St. Paul, Minnesota  
 Northwest Coop. Mills, St. Paul, Minnesota  
 Northwestern Distributing Co., Inc., Mason City, Iowa  
 Northwood Cooperative Elevator, Northwood, Iowa  
 Nu-Lac Yeaston Co., Jefferson, Iowa  
 Nutrena Mills, Inc., Minneapolis, Minnesota  
 Nutritional Products Co., The, Omaha, Nebraska  
 Nutting, Forrest A., Stillwater, Minnesota  
 Nu Way Feed & Farm Store, Colesburg, Iowa  
 Nuzum, Al Supply Co., Baxter, Iowa

O & H Feed & Food Market, Edgar, Wisconsin  
 O'Brien County Coop. Cry., Sanborn, Iowa  
 Ocoma Feed Mill, Elkhorn, Nebraska  
 Odebolt Coop. Elevator Co., Odebolt, Iowa  
 O'Donnell's Seed & Feed, Colo, Iowa  
 Oelwein Chemical Co., Inc., Oelwein, Iowa  
 Oelwein Elevator, Oelwein, Iowa  
 Oelwein Farmers Coop. Cry., Co., Oelwein, Iowa  
 Ogden Farm Supply, Ogden, Iowa  
 Ogden Grain Co., Ogden, Iowa  
 Ogden Hatchery, Inc., Ogden, Iowa  
 Olin Elevator & Milling Co., Olin, Iowa  
 Omaha Flour Mills Co., The, Omaha, Nebraska  
 Omeara's Feed Store, Petersville, Iowa  
 Oran Lumber Co., Oran, Iowa  
 Orleans Canning Co., Chicago, Illinois  
 Orleans Dog Candy Co., Chicago, Illinois  
 Orth, Leo, Mobile Mill, Elgin, Iowa  
 Osage Cooperative Elevator, Osage, Iowa  
 Osage Feed & Seed Co., Osage, Iowa  
 Osceola County Coop. Cry. Ass'n., Sibley, Iowa  
 Ossian Elevator, Ossian, Iowa  
 Ossian Feed Mill, Ossian, Iowa  
 Ostercamp & Artes Milling Service, Britt, Iowa  
 Ouren Seed Co., Council Bluffs, Iowa  
 Overgaard, Andrew K. (Gray Mill), Gray, Iowa  
 Oyens Coop. Company, Oyens, Iowa  
 Ozark Poultry Products, Inc., Siloam Springs, Arkansas

Pabulum Products, Evansville, Indiana  
 Pabst Brewing Co., Chicago, Illinois  
 Packard Elevator Co., Inc., Clarksville, Iowa  
 Paragon Co., The, Council Bluffs, Iowa  
 Park, Philip R., Inc., San Pedro, California  
 Parkersburg Feed Mill, Parkersburg, Iowa  
 Pash Feed Service, Holstein, Iowa  
 Pattison, Lloyd & Sons, Fayette, Iowa  
 Paullina Grain Co., Paullina, Iowa  
 Paul's Feed & Supply, Corning, Iowa  
 Paulson Dehydrated Products Co., Luverne, Minnesota  
 Pay Way Feed Mills, Inc., Kansas City, Missouri  
 Peavey Feed Mills, Minneapolis, Minnesota

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Pedrick Laboratories, Sand Springs, Oklahoma  
 Peerless Hatchery, Spencer, Iowa  
 Peet, E. M. Mfg. Co., Council Bluffs, Iowa  
 Pella Poultry Service, Pella, Iowa  
 Penick & Ford Ltd., Inc., Cedar Rapids, Iowa  
 People's Produce & Feed, Audubon, Iowa  
 Peoria Farm Milling, Pella, Iowa  
 Perk Foods Co., Chicago, Illinois  
 Persia Milling Co., Persia, Iowa  
 Peterson Coop. Elevator Co., Peterson, Iowa  
 Peterson, Everett H., Harlan, Iowa  
 Peterson Feed Mill, Waterloo, Iowa  
 Pfizer, Chas. & Co., Inc., Brooklyn, New York  
 Pierson Milling Co., Eldora, Iowa  
 Pilco Laboratories, Inc., Cedar Rapids, Iowa  
 Pillsbury Mills, Inc., Clinton, Iowa, Minneapolis, Minnesota  
 Pioneer Laboratories, Inc., Des Moines, Iowa  
 Pippert Grain & Milling Co., Inc., Gladbrook, Iowa  
 Pittsburg Plate Glass Co., Red Wing, Minnesota  
 Plains Coop. Oil Mill, Lubbock, Texas  
 Plank, F. Seed Co., North English, Iowa  
 Planters Cotton Oil Mill, Inc., Pine Bluff, Arkansas  
 Planters Manufacturing Co., Clarksdale, Mississippi  
 Polk City Grain Co., Pleasantville, Iowa  
 Pollock Elevators, Walford & Norway, Iowa  
 Pomeroy Coop. Grain Co., Pomeroy, Iowa  
 Pooley-Merfeld Co., Hansell, Iowa  
 Poppe Feed Mill, Floyd, Iowa  
 Portland Coop. Co., Portland, Iowa  
 Postville Feed Mill, Postville, Iowa  
 Potgeter Grain Co., Geo., Steamboat Rock, Iowa  
 Poul-An Laboratories, Inc., Kansas City, Missouri  
 Powers Feed Mill, Bagley, Iowa  
 Prairie City Feed Mill, Prairie City, Iowa  
 Preston Creamery Ass'n., Preston, Iowa  
 Preston Feed Mill, Inc., Preston, Iowa  
 Preston Soya Mills, Inc., Preston, Minnesota  
 Producers Creamery Co., Kirksville, Missouri  
 Protein Blenders, Inc., Iowa City, Iowa  
 Pro-Vita Company, Kansas City, Missouri  
 Pruess Feed & Supply, Mechanicsville, Iowa  
 Publicker Industries, Inc., Philadelphia, Pennsylvania  
 Puetz & Willis, Inc., Le Mars, Iowa  
 Pure Milk Products Co., Winsted, Minnesota  
 Puritan Laboratories, Inc., Des Moines, Iowa  
  
 Quaker Oats Co., The, Chicago, Illinois  
 Quincy Soybean Products Co., Quincy, Illinois  
 Quinn's Feed Mills, Lone Rock, Iowa  
 Quisenberry Mills, Inc., Kansas City, Missouri  
  
 R & I Feed Manufacturers, Moline, Illinois  
 R M Livestock Supplies, Muscatine, Iowa  
 R & M Mobile Milling, Rowley, Iowa  
 Ralph's Feed & Farm Supply, Westside, Iowa  
 Ralston Purina Co., St. Louis, Missouri  
 Randolph Foods, Guthrie Center, Iowa  
 Rath Packing Co., The, Waterloo, Iowa  
 Raven Feeds, Inc., Council Bluffs, Iowa  
 Ray-Vitam Products Co., Waseca, Minnesota  
 Readlyn Feed Mill, Readlyn, Iowa  
 Reber, Lester E., Kalona, Iowa  
 Red Star Mills, The, Corning, Iowa  
 Red Star Yeast & Products Co., Milwaukee, Wisconsin  
 Red Wing Milling Co., The, Red Wing, Minnesota  
 Regal Packer By-Products Co., Lynn Center, Illinois  
 Regent Food Co., San Francisco, California  
 Reid Grain Co., Hamburg, Iowa  
 Reid's Feeds, Manilla, Iowa  
 Reiter Feed Co., Wall Lake, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Reliable Rendering, Quitman & Maryville, Missouri  
 Rex Feed & Elevator Co., Lowden, Iowa  
 Riceville Grain Co., Riceville, Iowa  
 Ridgeway Feed Mill, Ridgeway, Iowa  
 Rinard Farmers Coop. Elevator, Rinard, Iowa  
 Risewick Feed Co., Ames, Iowa  
 Rising's Mill & Elevator, Algona, Iowa  
 Ritze's Feed & Supply, Lafayette, Iowa  
 Rival Packing Co., Chicago, Illinois  
 Riverside Grain & Feed Co., Inc., Riverside, Iowa  
 Roach, J. Sons, Inc., Plainfield, Iowa  
 Roberts Dairy Co., Omaha, Nebraska  
 Robinson Produce & Feed, Wesley, Iowa  
 Rockford Feed Mill, Rockford, Iowa  
 Rodney Milling Co., Kansas City, Missouri  
 Rogers Products Co., Ainsworth, Nebraska  
 Rooster Mills Co., Dubuque, Iowa  
 Rosebud Feeds Co., Exira, Iowa  
 Roth, Dan, Hatchery, Iowa City, Iowa  
 Roth, Orville, Sumner, Iowa  
 Roth Packing Co., Inc., Glenwood, Iowa  
 Rudkin Hatchery, Grinnell, Iowa  
 Russell Hatchery, Russell, Iowa  
 Russell-Miller Milling Co., Minneapolis, Minnesota  
 Ryan Coop., Ryan, Iowa  
 Ryan Grain Co., Sioux Rapids, Iowa  
 Ryde & Co., Chicago, Illinois

S & H Products, Inc., Audubon, Iowa  
 S & M Feed Service, Maquoketa, Iowa  
 S & O Products, Inc., Marshalltown, Iowa  
 S & P Farm Service, Central City, Iowa  
 Sac City Hatchery, Sac City, Iowa  
 Sac City Rendering Works, Sac City, Iowa  
 Sage, L. W. Sales Service, Atlantic, Iowa  
 St. Ansgar Grain & Feed Co., St. Ansgar, Iowa  
 St. Ansgar Mills, St. Ansgar, Iowa  
 St. Joseph Feed & Supply Co., Inc., St. Joseph, Missouri  
 St. Louis Brewers Yeast Corp., So. St. Louis, Missouri  
 St. Lucas Feed Mill, St. Lucas, Iowa  
 St. Olaf Coop. Co., St. Olaf, Iowa  
 St. Olaf Coop. Creamery Co., St. Olaf, Iowa  
 Sampson Produce, Stratford, Iowa  
 Samuelson Feed & Supply, Sioux Rapids, Iowa  
 Sanborn Coop. Grain Co., Sanborn, Iowa  
 Sanitary Rendering Co., Inc., Sioux City, Iowa  
 Sargent Calcium Co., Des Moines, Iowa  
 Savage Lumber Co., Coggon, Iowa  
 Scarville Coop. Elevator Co., Scarville, Iowa  
 Schenley Distillers, Inc., New York, New York  
 Schimmelpfennig's Mill, Sigourney, Iowa  
 Schlitz Brewing Co., Jos., Milwaukee, Wisconsin  
 Schmadeke Feed Mill, Clarksville, Iowa  
 Scholbrock Mill, Will, Calmar, Iowa  
 Schreiber Mills, Inc., St. Joseph, Missouri  
 Schroeder Feed Co., Tabor, Iowa  
 Schult & Son, H. J., Sumner, Iowa  
 Schultz Feed & Produce, Holy Cross, Iowa  
 Schweitzer, Peter J. Inc., Windom & Breckenridge, Minnesota  
 Scofield, Roy A., Council Bluffs, Iowa  
 Seacoast Products, Inc., Lewes, Delaware  
 Searle Grain Co., Minneapolis, Minnesota  
 Security Food Co., The, Minneapolis, Minnesota  
 Sederburg, Warner, Red Oak, Iowa  
 Seney Grain Co., Le Mars, Iowa  
 Sensor Mobil Milling, Decorah, Iowa  
 Sesker Milling, H. O., Scranton, Iowa  
 Shafer-Haggart Ltd., Vancouver, Canada  
 Shaffer's Feed & Supply Store, Monticello, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Sheffield Farmers Coop., Sheffield, Iowa  
 Shelgren's Hatchery, Correctionville, Iowa  
 Shell Rock Grain & Milling Co., Shell Rock, Iowa  
 Shellsburg Manufacturing Co., Shellsburg, Iowa  
 Sherwood Mill & Elevator Co., Monroe, Iowa  
 Shortley Elevator, State Center, Iowa  
 Sigourney Elevator, Sigourney, Iowa  
 Sikeston Cotton Oil Mill, Inc., Sikeston, Missouri  
 Si-Lak Co., The, Hospers, Iowa  
 Silmo Chemical Corp., Vineland, New Jersey  
 Simon Feed Store, Farley, Iowa  
 Simmon's Milk Products, Inc., Chicago, Illinois  
 Simon's Vita-Mino Sales Co., Sioux City, Iowa  
 Simonsen Mill-Rendering Plant, Quimby, Iowa  
 Singmaster Feed & Fertilizer, Hedrick, Iowa  
 Sinnwell Elevator, Alta Vista, Iowa  
 Sioux Alfalfa Meal Co., Vermillion, South Dakota  
 Sioux Falls Rendering Co., Sioux Falls, South Dakota  
 Sioux Hatchery & Feed, Sioux Center, Iowa  
 Sioux Industries, Inc., Sioux City, Iowa  
 Sioux Soya Mills, Sioux City, Iowa  
 Skewis Hatchery, Sheldon, Iowa  
 Small, W. J. Co., The (Div. of Archer-Daniels-Midland) Kansas City, Missouri  
 Smith, J. Howard, Inc., Port Monmouth, New Jersey  
 Smith, J. Paul Co., Fort Worth, Texas  
 Sniitjer Grain Co., Wellsburg, Iowa  
 Soluble Nutrients, Inc., Chicago, Illinois  
 Somers Coop. Co., Somers, Iowa  
 South Omaha Feed Co., Omaha, Nebraska  
 Southern Cotton Oil (Div. Wesson Oil & Snowdrift, Inc.), Memphis, Tennessee  
 Southern Cotton Oil (Div. Wesson Oil & Snowdrift, Inc.), Little Rock, Arkansas  
 Southern Cotton Oil Co., The, Newport, Arkansas  
 Southern Oyster Shell Milling Corp., Mobile, Alabama  
 Speers Hatchery, State Center, Iowa  
 Speltz Grain & Coal Co., Meltonville, St. Ansgar, Iowa and Albert Lea, Minn.  
 Spencer Kellogg & Sons, Inc., Buffalo, New York  
 Spencer Packing Co., Spencer, Iowa  
 Spencer Rendering Co., Spencer, Iowa  
 Spillville Feed Mill, Spillville, Iowa  
 Spirit Lake Feed Mill, Spirit Lake, Iowa  
 Springfield Milling Corp., Springfield, Minnesota  
 Springville Coop. Elevator, Springville, Iowa  
 Square Deal Hatchery Corp., Emmons, Minnesota  
 Squealer Feed Co., Harlan, Iowa  
 Squires Produce, Arlington, Iowa  
 Stabilized Vitamins, Inc., Brooklyn, New York  
 Stacyville Coop. Co., Stacyville, Iowa  
 Staley, A. E. Manufacturing Co., Decatur, Illinois  
 Staley Farm Supply Co., Hampton, Iowa  
 Staley Milling Co., Kansas City, Missouri  
 Stamp Milling Co., Lake Mills, Iowa  
 Stamper, F. M. Co. Mill, Moberly, Missouri  
 Standard Brands, Inc., New York, New York  
 Standard Chemical Mfg. Co., Omaha, Nebraska  
 Standard Feed & Fertilizer, Inc., Milwaukee, Wisconsin  
 Stanek, Laurin, Fort Dodge, Iowa  
 Stanwood Feed & Grain, Inc., Stanwood, Iowa  
 Star Livestock Service, Fairmont, Minnesota  
 State Brand Creameries, Inc., Mason City, Iowa  
 State Center Farmers Coop. Cry., Ass'n., State Center, Iowa  
 Steel Feed Co., Albia, Iowa  
 Steigerwalt, George, Glidden, Iowa  
 Sterling Alfalfa Products, Inc., Sterling, Colorado  
 Sterwin Chemicals, Inc., New York, New York  
 Stevenson Feed & Farm Supply, Britt, Iowa  
 Stickman Feed Mill, Plainfield, Iowa  
 Stork Hatchery & Farm Store, Fredericksburg, Iowa  
 Stotts Grain & Feed Co., Rockwell City, Iowa  
 Stratford Grain & Supply Coop., Stratford, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Streit, M. J. Feed Co., Keota, Iowa  
 Strickler Bros., Kalona, Iowa  
 Strommen Mfg. Co., Forest City, Iowa  
 Stumme, Elmer, Dunkerton, Iowa  
 Stutsman, Eldon Co., The, Hills, Iowa  
 Success Mills, Inc., Kansas City, Kansas  
 Success Products, Cedar Rapids, Iowa  
 Sully Coop. Exchange, Sully, Iowa  
 Sun Ray Milling Co., Hazleton, Iowa  
 Sunrise Hatchery, Orange City, Iowa  
 Sunshine Biscuits, Inc., Long Island, New York  
 Superior Feed Co., Carroll Iowa  
 Superior Phosphate Co., Dunnellon, Florida  
 Supersweet Feeds, New Ulm, Minnesota  
 Sutherland Farmers Coop. Co., Sutherland, Iowa  
 Sutphin Portable Milling Service, Taopi, Minnesota  
 Swanson Elevator Co., New Sharon, Iowa  
 Swanson Leghorn Farm & Hatchery, Klemme, Iowa  
 Swea City Hatchery, Swea City, Iowa  
 Sweetwater Cotton Oil Co., Sweetwater, Texas  
 Swift & Co., Chicago, Illinois  
 Swift & Co., Des Moines, Iowa  
 Swine Nutritional Service, Cedar Rapids, Iowa  
 Swisher Feed & Lumber Co., Swisher, Iowa  
 Syd's Mower & Feed Service, Tama, Iowa

Taber Bros., Hubbard, Iowa  
 Tabor Feed Plant, Tabor, Iowa  
 Taintor Coop. Co., Taintor, Iowa  
 Talbott & Olds, Grinnell, Iowa  
 Tama-Benton Coop. Co., Dysart, Iowa  
 Tanvilac Co., Inc., The, Des Moines, Iowa  
 Tarkio Molasses Feed Co., Kansas City, Missouri  
 Templeman, Harold, West Liberty, Iowa  
 Tenhulzen's Hatchery & Feed Mill, Denison, Iowa  
 Tennant & Hoyt Co., Lake City, Minnesota  
 Teske Milling Co., Davenport, Iowa  
 Thomas, B. F., Council Bluffs, Iowa  
 Thompson-Hayward Chemical Co., Kansas City, Missouri  
 Thompson's Feed Service, Dunlap, Iowa  
 Thompson's Milling Service, Hubbard, Iowa  
 Thornton Feed Store, Decorah, Iowa  
 Thrasher Feed & Farm Supply Store, Houghton, Iowa  
 Tice Feed & Grain, Lynnville, Iowa  
 Tietz Feeds, Chris, Manly, Iowa  
 Tip-Off Company, Troy, Ohio  
 Tjepkes Mineral & Feed Co., Ackley, Iowa  
 Tobian, Louis & Co., Dallas, Texas  
 Toeterville Coop. Elevator, Toeterville, Iowa  
 Ton-Hi, Inc., Omaha, Nebraska  
 Traders Oil Mill Co., Fort Worth, Texas  
 Trettin Hatchery & Poultry Farm, Rockford, Iowa  
 Triangle Feed & Grain Co., Charles City, Iowa  
 Triangle Feed & Roller Mill, Harlan, Iowa  
 Tri Associates, Inc., Minneapolis, Minnesota  
 Trico Feed Mills, Minden, Nebraska  
 Tri-County Coop. Drying Ass'n., Whittemore, Iowa  
 Tri-Foods Co., Concordia, Missouri  
 Tri-Mont Concentrate Co., Monterey, Minnesota  
 Tri-State Milling Co., Rapid City, South Dakota  
 Truesdale Coop. Elevator Co., Truesdale, Iowa  
 Trumix, Inc., Marshalltown, Iowa  
 Tyden Feed & L. S. Co., Inc., Dougherty, Iowa  
 Tyler Elevator, Ellsworth, Iowa

Ultra-Life Laboratories, Inc., East St. Louis, Illinois  
 Union Produce Coop., Ossian, Iowa  
 United Chemical Co., Des Moines, Iowa  
 United Mineral Products Co., Omaha, Nebraska  
 United Products Co., Lake Mills, Iowa

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Universal Laboratories, Inc., Dassel, Minnesota  
 Universal Shell Co., Muscatine, Iowa  
 Unkrich Feed & Grain, Mt. Pleasant, Iowa  
 U. S. Industrial Chemical Co. (Div. of National Distillers Products Corp.),  
 N. Y., N. Y.  
 Usen Canning Co., Boston, Massachusetts  
  
 Vagts Feed Service, Eldorado, Iowa  
 Valier & Spies Milling Co., Kansas City, Missouri  
 Valley Mill, Missouri Valley, Iowa  
 Valley Rendering Co., Ida Grove, Iowa  
 Van Camp, Glenn G., Bedford, Iowa  
 Van Nostrand Grain Co., Atlantic, Iowa  
 Van Nostrand Grain Co., Avoca, Iowa  
 Van Raden, Irv., Greene, Iowa  
 Van Raden-Reiher, Allison, Iowa  
 Varner Mills Co., Milan, Illinois  
 Vegefat, Inc., Dupe, Illinois  
 Vets, Div. of Perk Foods Co., Chicago, Illinois  
 Victor Chemical Works, Chicago, Illinois  
 Victoria Feed Co., Davenport, Iowa  
 Vigortone Products, Inc., Cedar Rapids, Iowa  
 Viking Feeds, Inc., Des Moines, Iowa  
 Vilas & Co., Storm Lake, Iowa  
 Vinton Farmers Supply, Inc., Vinton, Iowa  
 Visser Bros. Elevator Co., Sioux Center, Iowa  
 Vita-Best Feed Company, Monmouth, Iowa  
 Vita Con Sales Co., Schaller, Iowa  
 Vita Plus Corporation, Madison, Wisconsin  
 Vita-Vex Incorporated, North Kansas City, Missouri  
 Volga Feed Mill, Volga, Iowa  
 Voorhies Grain Co., Voorhies, Iowa  
 Voss, F. H. Milling Co., Clarksville, Iowa  
 Vy Lactos Laboratories, Inc., Des Moines, Iowa  
  
 Waggoner's, Centerville, Iowa  
 Wagner Produce & Feed, Massena, Iowa  
 Wake Feed Mill, J. H., Oskaloosa, Iowa  
 Walker, Hiram & Sons, Inc., Peoria, Illinois  
 Wall Lake Processing Co., Inc., Wall Lake, Iowa  
 Wall-Rogalsky Milling Co., Mc Pherson, Kansas  
 Walnut Grove Products Co., Inc., Atlantic, Iowa  
 Walsh Grain Co., Minneapolis, Minnesota  
 Wapsie Valley Creamery, Inc., Independence, Iowa  
 Wapsie Valley Feed Co., Independence, Iowa  
 Wapsipinicon Mill, Independence, Iowa  
 Ward Farm & Hatchery, Independence, Iowa  
 Ward-York Products, Madrid, Iowa  
 Warder & Lee Elevator, Webster, Iowa  
 Warder Feed Co., Ottumwa, Iowa  
 Ward's Feed & Supply, Kanawha, Iowa  
 Warehouse, E. & G Co., Sigourney, Iowa  
 Warren-Douglas Chemical Co., Inc., Des Moines, Iowa  
 Warren Feed Co., Council Bluffs, Iowa  
 Warren Feed Co., W. C., Osceola, Iowa  
 Waterloo Mills Co., Waterloo, Iowa  
 Watkins, J. R. Co., The, Winona, Minnesota  
 Waucoma Feed Mill, Waucoma, Iowa  
 Waverly Elevator Co., Waverly, Iowa  
 Waverly Feed Mill, Waverly, Iowa  
 Wayland Feed & Grain, Wayland, Iowa  
 Weber & Huston, Columbus Junction, Iowa  
 Welco Feed Mfg. Co., Inc., Spencer, Iowa  
 Welkona Turkeys, Inc., Wellman & Kalona, Iowa  
 Wellman Coop. Creamery Ass'n., Wellman, Iowa  
 Wellman Feed Mill, Wellman, Iowa  
 Welp's Mill, Bancroft, Iowa  
 Wenck's Mill & Hatchery, Lidderdale, Iowa  
 Wertz Feed Products, Sioux City, Iowa  
 Wessel, Duval & Co., Inc., New York, New York

FEED MANUFACTURERS WHO HAVE ONE OR MORE  
EFFECTIVE COMMERCIAL FEED REGISTRATIONS  
FOR THE YEAR 1958—Continued

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Manufacturer

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Wesson Oil & Snowdrift Co., Inc., Greenville, Mississippi  
Wesson Oil & Snowdrift Co., Inc., Little Rock, Arkansas  
Wesson Oil & Snowdrift Co., Inc., Memphis, Tennessee  
West Bend Elevator Co., West Bend, Iowa  
West Bend Processing Co., West Bend, Iowa  
West Point Feed Products Co., West Point, Nebraska  
West Side Elevator, Independence, Iowa  
West Union Feed Mill, West Union, Iowa  
Westendorf, Ed, Allison, Iowa  
Western Condensing Co., Appieton, Wisconsin  
Western Cotton Oil Co., Abilene, Texas  
Western Feed Mills, Sioux Falls, South Dakota  
Westgate Elevator Co., Westgate, Iowa  
Westside Milling Co., Westside, Iowa  
Weymiller Feed Store, New Albin, Iowa  
Wheatland Feed Mill, Inc., Wheatland, Iowa  
White's Hatcheries, Jack, Farmington, Iowa  
Whiteway Mill, Knoxville, Iowa  
Whitmoyer Laboratories, Inc., Myerstown, Pennsylvania  
Whiton Feed & Milling Co., Perry, Iowa  
Whittemore Cooperative Elevator, Whittemore, Iowa  
Whittemore Hatchery, Whittemore, Iowa  
Wholesaler Warehouse, Manchester, Iowa  
Wiest Brothers Mill, Ft. Atkinson, Iowa  
Wilbur-Ellis Company, Seattle, Washington  
Wilder Grain Co., Cedar Rapids, Iowa  
Wilke and Wilke, Fayette, Iowa  
Williams Milling Co., Sac City, Iowa  
Williamsburg Feed Service, Williamsburg, Iowa  
Wilson & Co., Inc., Chicago, Illinois  
Wilson Grain, Feed & Coal Co., Inc., Spencer, Iowa  
Wilson Hatchery, Ackley, Iowa  
Wilson Laboratories, Chicago, Illinois  
Wilson's Feed & Supply, West Union, Iowa  
Winborns, Williamsburg, Iowa  
Winfield Elevator & Supply Co., Winfield, Iowa  
Winnebago Hatchery & Feed Co., Forest City, Iowa  
Winneshiek Coop. Ass'n., Decorah, Iowa  
Winthrop Elevator, Winthrop, Iowa  
W-I-S-E Feeds, Exira, Iowa  
Wolf's Milling Service, Elkader, Iowa  
Wood Grain & Feed Co., Moville, Iowa  
Woodard, Floyd Feed Co., Webster City, Iowa  
Woodrum Farm Supply, Lake Park, Iowa  
Woodward & Dickerson, Inc., Philadelphia, Pennsylvania  
Woodward Rendering Co., Woodward, Iowa  
Worthington Dehydrating Co., Worthington, Minnesota  
Worthington Feed Mill, Worthington, Iowa  
Worthington Hatchery, Worthington, Minnesota  
Wraybill Dehydrating Co., Sloan, Iowa  
Wright Feeds, Paramount, California

Yaggie Mills, Yankton, South Dakota  
Yeisley Elevator, Victor, Iowa  
Yoders Feeds, Inc., Kalona, Iowa  
York Alfalfa Mills, Inc., York, Nebraska  
York's Swine Nutritional Co., Indianola, Iowa  
Young Feed Store, Inc., Marshalltown, Iowa  
Young, M. & Co., Inc., Winterset, Iowa

Zahasky Feed, Edwin, Waucoma, Iowa  
Zander Feed Co., Waterloo, Iowa  
Zaneta Mills, Inc., Hudson, Iowa  
Zastro Electric Hatchery, Norfolk, Nebraska  
Zearing Elevator Co., Zearing, Iowa  
Zip Feed Mills, Sioux Falls, South Dakota  
Zipton Chemical Co., Cedar Rapids, Iowa

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FEED MANUFACTURERS WHO HAVE REGISTERED  
ONE OR MORE BRANDS OF MINERAL MIXTURES  
FOR THE YEAR 1958

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Manufacturer

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Acton, Inc., Dunnellon, Florida  
 Adams Feed Co., Fairmont, Minnesota  
 Advance Feed Products Co., Burlington, Wisconsin  
 Amerco Feed & Milling Co., Council Bluffs, Iowa  
 American Phosphate Co., St. Louis, Missouri  
 American Salt Corporation, Kansas City, Missouri  
 Ames Reliable Products Co., Ames, Iowa  
 Anderson Feed Co., Inc., Worthington, Minnesota  
 Arbie Mineral Feed Co., Inc., Marshalltown, Iowa  
 Archer Coop. Grain Co., Archer, Iowa

B & M Co., Inc., Fort Dodge, Iowa  
 Barber Medicine Co., Kansas City, Missouri  
 Barton Salt Co., The, Hutchinson, Kansas  
 Basic Mineral Co., Council Bluffs, Iowa  
 Beardstown Mills Co., The, Beardstown, Illinois  
 Big Bill's Feed Store, Wyoming & Onslow, Iowa  
 Big Chief Stock Powder Co., Iowa City, Iowa  
 Big Gain Products, West Union, Iowa  
 Black Hawk Chemical Co., Inc., Cedar Falls, Iowa  
 Blue Diamond Feed Co., Des Moines, Iowa  
 Boeke Feed Company, Inc., Des Moines, Iowa  
 Bolson Co., L. C., Decorah, Iowa  
 Boone Valley Coop. Processing Ass'n., Eagle Grove, Iowa  
 Bowers Feeds, Marshalltown, Iowa  
 Bradley Mineral Co., Inc., Elmo, Missouri  
 Brinkert Feed Co., Hartley, Iowa

Calcium Carbonate Co., Quincy, Illinois  
 Callaghan Products Co., Geneva, Illinois  
 Carey Salt Co., The, Hutchinson, Kansas  
 Carpenter's Feed Store, Brooklyn, Iowa  
 Central Iowa Milling Co., Bagley, Iowa  
 Clarno, Dr. Products Co., Waterloo, Iowa  
 Columbian Hog & Cattle Powder Co., Kansas City, Missouri  
 Conkey, G. E. Company, Nebraska City, Nebraska  
 Connie's Feed Store, Latimer, Iowa  
 Consumers Coop. Ass'n., Kansas City, Missouri  
 Cooperative Elevator Ass'n., Ocheyedan, Iowa  
 Cooper, O. A. Co., The, Humboldt, Nebraska  
 Corn King Co., Inc., The, Cedar Rapids, Iowa  
 Coronet Phosphate Co., Norfolk, Virginia  
 Creston Mineral Co., Creston, Iowa  
 Cudahy Packing Co., The, Omaha, Nebraska

Darling & Co., Chicago, Illinois  
 Davies Feed & Supply, Marengo, Iowa  
 Diamond V Mills, Inc., Cedar Rapids, Iowa

Economy Products, Shenandoah, Iowa  
 Elco Products, Inc., Lake Crystal, Minnesota  
 Eldridge Coop. Co., Eldridge, Iowa

Farmers Elevator Co., Inc., Ackley, Iowa  
 Farmers Supply Co., Inc., Ankeny, Iowa  
 Farmers Coop. Elev. Co., Ayrshire, Iowa  
 Farmers Coop. Ass'n., Boyden, Iowa  
 Farmers Coop. Elev. Co., Boxholm, Iowa  
 Farmers Supply Co., Cedar Rapids, Iowa  
 Farmers Coop. Co., Creston, Iowa  
 Farmers Coop. Co., Dike, Iowa  
 Farmers Coop. Elevator, Earlham, Iowa  
 Farmers Elevator Service Co., Fort Dodge, Iowa  
 Farmers Friend Mineral Co., Napoleon, Ohio  
 Farmers Coop. Elev. Ass'n., Ocheyedan, Iowa  
 Farmers Elev. Co., Rock Valley, Iowa  
 Farmers Coop. Elev. Co., Ruthven, Iowa  
 Farmers Elev. Co. of Ritter, Sheldon, Iowa  
 Farmers Coop. Society, Sioux Center, Iowa  
 Farmers Union Ass'n., Sioux City, Iowa



FEED MANUFACTURERS WHO HAVE REGISTERED  
ONE OR MORE BRANDS OF MINERAL MIXTURES  
FOR THE YEAR 1958—Continued

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Manufacturer

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Farmers Feed & Supply, Solon, Iowa  
 Farmers Coop. Elev. Co., Thompson, Iowa  
 Farmers Coop. Co., Terril, Iowa  
 Farmers Feed & Supply Co., Tipton, Iowa  
 Farmcraft Feeds, Inc., Des Moines, Iowa  
 Farm Feed Company, Rock Rapids, Iowa  
 Farm Service, Breda, Iowa  
 Farmwell Feed Co., Des Moines, Iowa  
 Fast Gain Feeds, Inc., Sioux City, Iowa  
 Federal Stock Powder Co., Bedford, Iowa  
 Feed Products & Service Co., St. Louis, Missouri  
 Feed-Rite Products Co., Chicago, Illinois  
 Feed Specialties, Inc., Des Moines, Iowa  
 Fenton Coop. Elevator Co., Fenton, Iowa  
 Fleck Feed & Grain Co., Killduff, Iowa  
 Fostoria Coop. Elev. Co., Fostoria, Iowa  
 Foxbilt, Inc., Des Moines, Iowa

G L A Products Co., Monticello, Iowa  
 Geerlings Feed Mills, Inc., Waterloo, Iowa  
 Golden Sun Milling Co., Estherville, Iowa  
 Goodman & Mead, State Center, Iowa  
 Green Products Co., Inc., Conrad, Iowa  
 Guarantee Veterinary Co., Sioux City, Iowa

H & H Chemical Co., Des Moines, Iowa  
 Hardy Salt Co., St. Louis, Missouri  
 Harvest Brand, Inc., Pittsburg, Kansas  
 Hawarden Feed Mill, Hawarden, Iowa  
 Hickock Calcium Co., Le Roy, Minnesota  
 Holt Products Co., Milwaukee, Wisconsin  
 Honeggers' & Co., Inc., Fairbury, Illinois  
 Hoosier Mineral Feed Co., Greenwood, Indiana  
 Hormel, George A. & Co., Austin, Minnesota  
 Houston Feed Co., St. Joseph, Missouri  
 Howard-Iowa Products Co., Jefferson, Iowa  
 Howard Phosphate Co., Orlando, Florida  
 Huber Yeast Products Co., Waterloo, Iowa  
 Hunting Elevator Co., Austin, Minnesota

Ideal Products Co., Belle Plaine, Iowa  
 Illinois Manufacturing Co., Quincy, Illinois  
 Indianola Chapter, F F A, Indianola, Iowa  
 International Minerals & Chemical Corp., Skokie, Illinois  
 International Stock Food Co., Minneapolis, Minnesota  
 Iowa Limestone Co., Des Moines, Iowa  
 Iowa Valley Milling Co., Iowa City, Iowa  
 Iowa's Best Products Co., Cedar Rapids, Iowa  
 Ironized Feed Co., Cedar Rapids, Iowa

Johnson's Feed Mill, Hopkinton, Iowa  
 Joice Coop. Elevator, Joice, Iowa

Kark Milling Co., Blue Earth, Minnesota  
 Kay Dee Feed Co., Sioux City, Iowa  
 Kelsay, U. A. Co., Red Oak, Iowa  
 Kent Feeds, Inc., Muscatine, Iowa  
 Kidman's Standard Stock Powder Co., Des Moines, Iowa  
 King Vita Feed Co., Des Moines, Iowa  
 Kingsway Feed & Chemical Co., Cedar Rapids, Iowa  
 Klemme Coop. Grain Co., Klemme, Iowa

Land O'Lakes Creameries, Inc., Minneapolis, Minnesota  
 Lawn Hill Coop., New Providence, Iowa  
 Lee, C. L. & Sons, Ida Grove, Iowa  
 Life Guard Feed Products Co., Des Moines, Iowa  
 Lucas Products Co., Bedford, Iowa

Mc Allister Feed Mill, Stockport, Iowa  
 McConnon & Co., Winona, Minnesota

FEED MANUFACTURERS WHO HAVE REGISTERED  
ONE OR MORE BRANDS OF MINERAL MIXTURES  
FOR THE YEAR 1958—Continued

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Manufacturer

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M & M Livestock Products Co., Eagle Grove, Iowa  
 Macdonald's Dr., Vitamized Feed Co., Fort Dodge, Iowa  
 Manning Mill, Manning, Iowa  
 Marblehead Lime Co., Chicago, Illinois  
 Marion Feed Center, Inc., Marion, Iowa  
 Marshall Products Co., Ames, Iowa  
 Martin Hatchery & Mill, Maquoketa, Iowa  
 Master Feed & Seed Co., Inc., Madison, Wisconsin  
 Me-Jon Fertilizer, Inc., Oxford, Iowa  
 Michigan Salt Co., St. Louis, Michigan  
 Midwest Mineral Products Co., Grinnell, Iowa  
 Milligan & Son, Inc., Sioux City, Iowa  
 Miner-Ol Co., Inc., The, Warsaw, Illinois  
 Minrulax, Inc., Council Bluffs, Iowa  
 Missouri Mill & Foundry Clay Co., High Hill, Missouri  
 Moorman Manufacturing Co., Quincy, Illinois  
 Monsanto Chemical Co., St. Louis, Missouri  
 Mort-O-Line, Swea City, Iowa  
 Murphy Products Co., Burlington, Wisconsin

Nagel, Herman Co., The, Chicago, Illinois  
 Nashua Equity Coop., Nashua, Iowa  
 National Yeast Co., St. Olaf, Iowa  
 Nixon & Co., Omaha, Nebraska  
 Northwest Coop. Mills, Inc., St. Paul, Minnesota  
 Nu Lac Yeaston Co., Jefferson, Iowa  
 Nutrena Mills, Inc., Minneapolis, Minnesota  
 Nutritional Products Co., Omaha, Nebraska  
 Nuzum, Al Supply Co., Baxter, Iowa

Oelwein Chemical Co., Inc., Oelwein, Iowa  
 Ouren Seed Co., Council Bluffs, Iowa  
 Oyster Shell Products Corp., Mobile, Alabama

Park, Philip R., Inc., San Pedro, California  
 Peet, E. M. Manufacturing Co., Council Bluffs, Iowa & Frankfort, Indiana  
 Peterson Coop. Elevator Co., Peterson, Iowa  
 Pillsbury Mills, Inc., Clinton, Iowa  
 Pioneer Laboratories, Inc., Des Moines, Iowa  
 Poole, R. E. Chemical Co., Harlan, Iowa  
 Puritan Laboratories, Inc., Des Moines, Iowa

Quaker Oats Co., The, Chicago, Illinois

R M Livestock Supplies, Muscatine, Iowa  
 Ralston Purina Co., St. Louis, Missouri  
 Rath Packing Co., The, Waterloo, Iowa  
 Raven Feeds, Inc., Council Bluffs, Iowa  
 Reid's Feeds, Manilla, Iowa  
 Riley Feed Co., Kansas City, Missouri  
 Riverside Grain & Feed Co., Inc., Riverside, Iowa  
 Roach, J. Son, Inc., Plainfield, Iowa  
 Rooster Mills Co., Dubuque, Iowa  
 Rucklos Calcium Carbonate Co., Lincoln, Nebraska  
 Ryde & Company, Chicago, Illinois

S & O Products, Inc., Marshalltown, Iowa  
 Sanborn Coop. Grain Co., Sanborn, Iowa  
 Sankot's, F. J., Belle Plaine, Iowa  
 Schultz Chemical Co., Council Bluffs, Iowa  
 Scofield, Roy A. Co., Council Bluffs, Iowa  
 Shea Chemical Corp., Marysville, Ohio  
 Sherwood's, Monroe, Iowa  
 Sioux Industries, Inc., Sioux City, Iowa  
 Spencer Food Products Co., Champaign, Illinois  
 Squealer Feed Co., Harlan, Iowa  
 Stacyville Coop. Co., Stacyville, Iowa  
 Staley Milling Co., Kansas City, Missouri  
 Standard Chemical Mfg. Co., Omaha, Nebraska  
 Standish & Son, Waterloo, Iowa

FEED MANUFACTURERS WHO HAVE REGISTERED  
ONE OR MORE BRANDS OF MINERAL MIXTURES  
FOR THE YEAR 1958—Continued

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Manufacturer

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Stanek Feed Co., Fort Dodge, Iowa  
Steel Feed Company, Albia, Iowa  
Stephenson Co., Inc., Anamosa, Iowa  
Superior Feed Co., Carroll, Iowa  
Supersweet Feeds (Div. of International Milling), New Ulm, Minnesota  
Swift & Co., Des Moines, Iowa  
Swisher Feed & Lumber Co., Swisher, Iowa

Taber Bros., Hubbard, Iowa  
Tanvilac Co., Inc., The, Des Moines, Iowa  
Tarkio Molasses Feed Co., Kansas City, Missouri  
Teske Milling Co., Davenport, Iowa  
Thompson, A. W. Co., Prairie du Chien, Wisconsin  
Thompson Hayward Chemical Co., Kansas City, Missouri  
Tjepkes Mineral Feed Co., Ackley, Iowa  
Trumix, Inc., Marshalltown, Iowa

United Chemical Co., Des Moines, Iowa  
United Mineral Products Co., Omaha, Nebraska  
Universal Shell Co., Muscatine, Iowa

Valley Mill, Missouri Valley, Iowa  
Vigortone Products, Inc., Cedar Rapids, Iowa  
Viking Laboratories, Inc., Des Moines, Iowa  
Vilas & Co., Storm Lake, Iowa  
Vitamineral Products Co., Peoria, Illinois  
Vit-A-Way, Inc., Fort Worth, Texas

Walnut Grove Products Co., Inc., Atlantic, Iowa  
Ward-York Co., Madrid, Iowa  
Warren-Douglas Chemical Co., Inc., Des Moines, Iowa  
Warren Feed Co., Council Bluffs, Iowa  
Waterloo Mills Co., Waterloo, Iowa  
Watkins, J. R. Co., The, Winona, Minnesota  
Welco Feed Mfg. Co., Inc., Spencer, Iowa  
Whitmoyer Laboratories, Inc., Myerstown, Pennsylvania  
Whiton Feed & Milling Co., Perry, Iowa  
Wiest Bros., Ft. Atkinson, Iowa  
Williams Milling Co., Sac City, Iowa  
Wilson Hybrids, Inc., Harlan, Iowa  
Winborns, Williamsburg, Iowa  
Winneshiek Coop. Ass'n., Decorah, Iowa  
Winterscheidt Milling Co., Inc., Seneca, Kansas  
Woodard, Floyd Feed Co., Webster City, Iowa

Yoder Feed Mill, Inc., Kalona, Iowa

Zander Feed Co., Waterloo, Iowa  
Zipton Chemical Co., Cedar Rapids, Iowa

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MANUFACTURERS WHO HAVE REGISTERED ONE OR MORE  
BRANDS OF STOCK TONIC FOR THE YEAR  
ENDING JULY 15, 1959

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Manufacturer

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Albers Milling Co., Los Angeles, California  
 Alleman Coop. Co., Alleman, Iowa  
 Allied Mills, Inc., Chicago, Illinois  
 All-In-One Feeds, Inc., Portland, Michigan  
 American Cyanamid Co., Princeton, New Jersey  
 American Livestock Powder Co., Shenandoah, Iowa  
 Ames Reliable Products Co., Ames, Iowa  
 Anchor Serum Co., St. Joseph, Missouri  
 Animal Health Products Co., Neillsville, Wisconsin  
 Arbie Mineral Feed Co., Inc., Marshalltown, Iowa  
 Archer-Daniels-Midland Co., Minneapolis, Minnesota  
  
 Beardstown Mills Co., The, Beardstown, Illinois  
 Blair, R. D., Lohrville, Iowa  
 Blair Milling & Elevator Co., Inc., The, Atchinson, Kansas  
 Bowen Chemical Co., Council Bluffs, Iowa  
 Bowers Feed, Marshalltown, Iowa  
  
 Challenge Feed Co., Atlantic, Iowa  
 Clarno, Dr., Products Co., Waterloo, Iowa  
 Columbian Hog & Cattle Powder Co., Kansas City, Missouri  
 Conkey, G. E. Co., Nebraska City, Nebraska  
 Crete Mills, The, Crete, Nebraska  
  
 Dairy Ass'n. Co., Inc., Lyndonville, Vermont  
 Dannen Mills, Inc., St. Joseph, Missouri  
 Davenport Elevator, West Bend, Iowa  
 Donovans, Inc., Albert Lea, Minnesota  
 Doughboy Industries, Inc., New Richmond, Wisconsin  
 Dow Chemical Co., Midland, Michigan  
  
 Eby, Frank D., Marengo, Iowa  
 Etteldorf, P. J., Ossian, Iowa  
  
 Farinco Products, Inc., Fairfield, Iowa  
 Farmers Elevator Service Co., Fort Dodge, Iowa  
 Farm Chemicals Co., Marion, Indiana  
 Farmcraft Feeds, Inc., Des Moines, Iowa  
 Feed-Rite Products Co., Chicago, Illinois  
 Four M Stock Powder Co., Creston, Iowa  
 Foxbilt, Inc., Des Moines, Iowa  
  
 G. L. A. Products Co., Monticello, Iowa  
 Geerlings Feed Mills, Inc., Waterloo, Iowa  
 General Mills, Inc., Minneapolis, Minnesota  
 Gland-O-Lac Co., Omaha, Nebraska  
 Golden Sun Milling Co., Estherville, Iowa  
 Gooch Feed Mill Co., Lincoln, Nebraska  
  
 Hales & Hunter Co., Chicago, Illinois  
 Hawkeye Laboratories, Cedar Rapids, Iowa  
 Hess & Clark, Inc., Ashland, Ohio  
 Hinrich's Remedy Co., Walcott, Iowa  
 Honeggers' & Co. Inc., Fairbury, Illinois  
 Howard-Iowa Products Co., Jefferson, Iowa  
 Hubbard Milling Co., Mankato, Minnesota  
 Huber Yeast Products Co., Waterloo, Iowa  
  
 Ideal Products Co., Belle Plaine, Iowa  
 Inter-State Chemical Co., Charles City, Iowa  
  
 Johnson-Hauser, Inc., Union, Iowa  
  
 K.K.K. Medicine Co., Keokuk, Iowa  
 Kay Dee Feed Co., Sioux City, Iowa  
 Kelsay Company, U.A., Red Oak, Iowa  
 Kent Feeds, Inc., Muscatine, Iowa  
 Kerber Milling Co., Emmetsburg, Iowa  
 Kidman's Standard Stock Powder Co., Des Moines, Iowa  
 Klinefelter's, Inc., Gladbrook, Iowa

MANUFACTURERS WHO HAVE REGISTERED ONE OR MORE  
BRANDS OF STOCK TONIC FOR THE YEAR  
ENDING JULY 15, 1959—Continued

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Manufacturer

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Land O' Lakes Creameries, Inc., Minneapolis, Minnesota  
Lee, C. L. & Sons, Ida Grove, Iowa  
Le Gear, Dr. L. D., Medicine Co., St. Louis, Missouri  
Leonard's Hatchery, Osage, Iowa  
Lilly, Eli & Co., Indianapolis, Indiana  
Lisbon Elevator, Inc., Lisbon, Iowa  
Lux Leghorn Land Farms, Inc., Hopkinton, Iowa

McConnon & Co., Winona, Minnesota  
Mc Millen Feed Mills, Fort Wayne, Indiana  
Macdonald's, Dr., Vitamized Feed Co., Fort Dodge, Iowa  
Maide Riete Products, Council Bluffs, Iowa  
Maplecrest Turkey Farms, Inc., Wellman, Iowa  
Martin Hatchery & Mill, Maquoketa, Iowa  
Mayfield, O. J., D. V. M., Charles City, Iowa  
Me-Jon Fertilizer, Inc., Oxford, Iowa  
Merck & Co., Inc., Rahway, New Jersey  
Miller Chemical Co., Inc., Omaha, Nebraska  
Milligan & Son, Inc., Sioux City, Iowa  
Minrulax, Inc., Council Bluffs, Iowa  
Moorman Manufacturing Co., Quincy, Illinois  
Morton Salt Co., Chicago, Illinois  
Murphy Products Co., Burlington, Wisconsin  
Myzon, Inc., Chicago, Illinois

Nixon & Co., Omaha, Nebraska  
Northern States Laboratories, Luverne, Minnesota  
Northwestern Distributing Co., Inc., Mason City, Iowa  
Nutrena Mills, Inc., Minneapolis, Minnesota

O'Brien Chemical Co., Ida Grove, Iowa  
Oelwein Chemical Co., Inc., Oelwein, Iowa

Parke, Davis & Co., Detroit, Michigan  
Pay Way Feed Mills, Inc., Kansas City, Missouri  
Peavey Feed Mills, Minneapolis, Minnesota  
Peet, E. M., Manufacturing Co., Council Bluffs, Iowa  
Perk Company, Lowden, Iowa  
Pep-Up Products Co., Cherokee, Iowa  
Pillsbury Mills, Inc., Clinton, Iowa  
Polk Miller Products Corp., Richmond, Virginia  
Pratt Laboratories, Inc., Junction City, Kentucky  
Pride Stock Powder Co., Estherville, Iowa  
Protein Blenders, Inc., Iowa City, Iowa

Quaker Oats Co., The, Chicago, Illinois  
Quisenberry Mills, Inc., Kansas City, Missouri

R. M. Livestock Supplies, Muscatine, Iowa  
Ralston Purina Co., St. Louis, Missouri  
Rath Packing Co., The, Waterloo, Iowa  
Raven Feeds, Inc., Council Bluffs, Iowa  
Ray Vitam Products Co., Waseca, Minnesota

S. & M. Products Co., Eagle Grove, Iowa  
Salsbury's, Dr., Laboratories, Charles City, Iowa  
Schreiber Mills, Inc., St. Joseph, Missouri  
Schultz Chemical Co., C. W., Council Bluffs, Iowa  
Scofield, Roy A., Council Bluffs, Iowa  
Si-Lak Co., The, Hospers, Iowa  
Simonsen Mill Rendering Plant, Quimby, Iowa  
Special Products Co., Kensett, Iowa  
Specifide, Inc., Indianapolis, Indiana  
Spohn Medical Co., Goshen, Indiana  
Squealer Feed Co., Harlan, Iowa  
Staley Milling Co., Kansas City, Missouri  
Stamper, F. M. Mill, Moberly, Missouri  
Standard Chemical Mfg. Co., Omaha, Nebraska  
Supersweet Feeds, New Ulm, Minnesota  
Swift & Company, Chicago, Illinois

MANUFACTURERS WHO HAVE REGISTERED ONE OR MORE  
BRANDS OF STOCK TONIC FOR THE YEAR  
ENDING JULY 15, 1959—Continued

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Manufacturer

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Taber Bros., Hubbard, Iowa  
Tanvilac Co., The, Des Moines, Iowa  
Tryzol Products Co., Inc., Chicago, Illinois  
  
United Products Co., Lake Mills, Iowa  
  
Vigortone Products, Inc., Cedar Rapids, Iowa  
Viking Feeds, Inc., Des Moines, Iowa  
Vinton Farmers Supply, Inc., Vinton, Iowa  
Vita-Plus Corp., Madison, Wisconsin  
Vita Zest Corp., Wessington Springs, South Dakota  
Vy Lactos Laboratories, Inc., Des Moines, Iowa  
  
Walnut Grove Products Co., Inc., Atlantic, Iowa  
Warren Feed Co., Council Bluffs, Iowa  
Waterloo Mills Co., Waterloo, Iowa  
Watkins, J. R. Co., The, Winona, Minnesota  
Welp's Mill, Bancroft, Iowa  
Winborns, Williamsburg, Iowa  
Wyeth Laboratories, Inc., Philadelphia, Pennsylvania  
  
Yoder Feed Mill, Inc., Kalona, Iowa  
  
Zip Feed Mill, Sioux Falls, South Dakota

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## ADMINISTRATION:

I. Levin, State Chemist  
A. R. Miles  
L. Arduser  
V. Snider  
N. Guinn

## INSPECTORS:

J. C. Boyd, Waterloo  
H. V. Bradley, Knoxville  
R. Coil, Sloan  
C. W. Danielson, St. Ansgar  
H. Grindle, Malvern  
G. Kersey, Garwin  
S. L. Magill, Jefferson  
J. Nebergall, Tipton  
H. Reed, Boone  
H. Thompson, Grandview

## CHEMIST AND ANALYSTS:

M. Herrera  
M. Burns  
L. Chandler  
P. Frundt  
H. Hanna  
J. McCambridge  
M. Opiala

## KEY—To abbreviations:

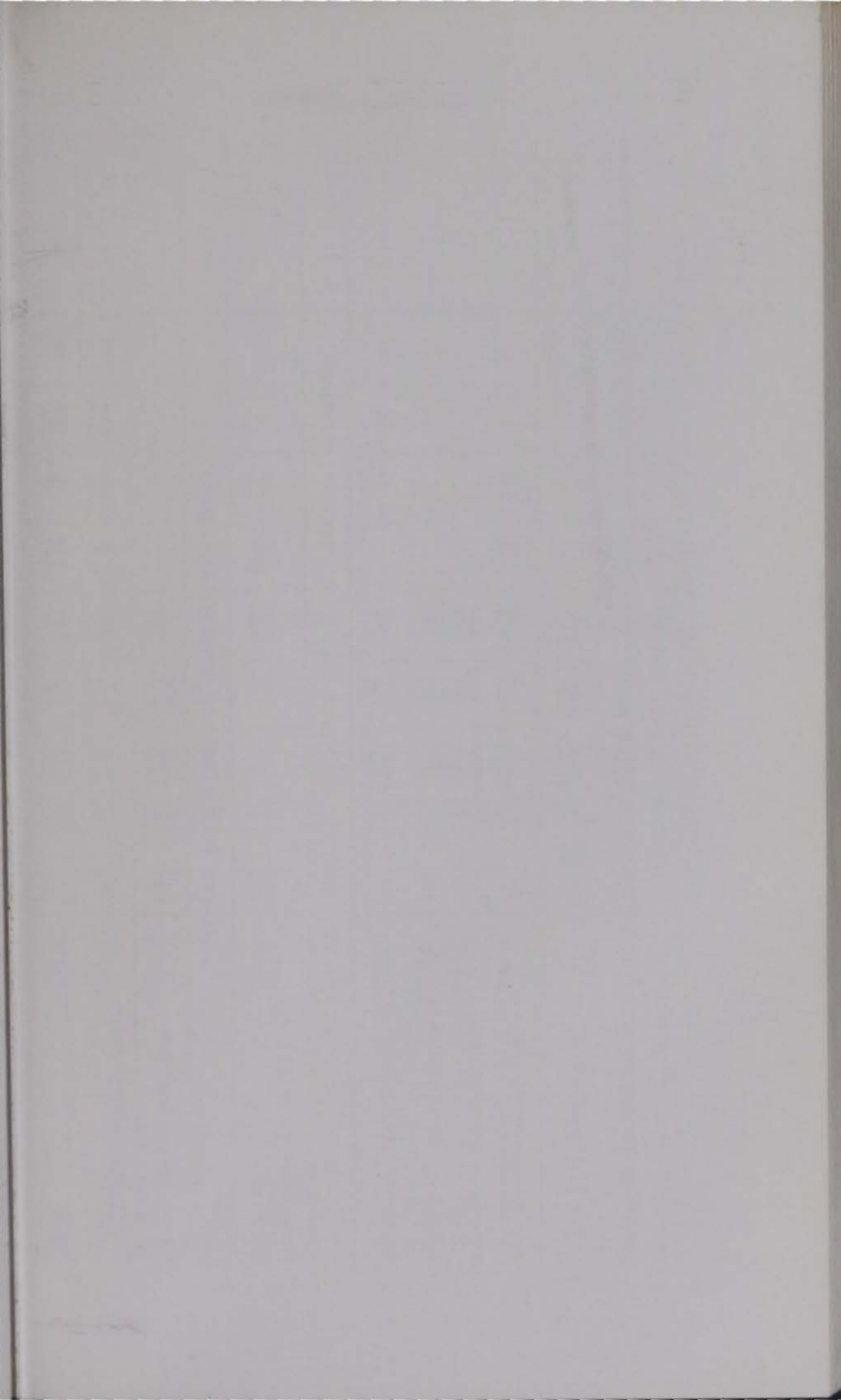
C—Claimed  
F—Found  
Ca—Calcium (Requirement—not more than guarantee).  
P—Phosphorus (Requirement—not less than guarantee).  
I—Iodine (Requirement—not less than guarantee).  
NaCl—Salt (Requirement—not more than guarantee).  
(5-1-57)—Indicates date sample was collected.

Where the claimed guarantee is shown the figures represent those given on the registration. In cases where the label and registration do not agree, the results found by laboratory analyses are checked against the label. This occasionally results in an apparent discrepancy in the results in the laboratory and in the guarantee on the registration.

## KEY TO CODE REMARKS

1. Label does not agree with registration.
  - A. Guaranteed Analysis
2. Low Protein
  - A. Official Warning Given
3. Low Fat
4. High Fiber
6. High Salt
7. Low Phosphorus
8. Low Iodine
22. Calcium (Ca) must be guaranteed as a maximum instead of a minimum.
51. Iodine (I) should be guaranteed instead of Potassium Iodide.
61. Microscopic examination shows product contains excess of non-permitted items.
63. Urea guaranteed—none found.





ANALYSIS OF COMMERCIAL FEEDS 1958  
ACKERMANS, INC., POPEJOY, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Econo Balancer 35% Hog Balancer..... D 225 (12-23-57)	Yes		C	35.00	3.00	7.50	4.70	1.30			
			F	37.70	3.77	6.24	4.40	1.31			
Econo-Balance 20% Laying Mash..... D 226 (12-23-57)	Yes		C	20.00	4.00	6.00					
			F	21.70	4.14	4.94					
Econo-Balance 16½% All-Mash Layer..... D 227 (12-23-57)	Yes		C	16.50	4.00	6.50					
			F	18.20	4.21	5.11					
Econo-Balance 16% Pig Starter Medicated..... D 228 (12-23-57)	Yes		C	16.00	3.50	4.00					
			F	18.60	3.85	3.44					

ACTON, INC., MEDIAM, PENNSYLVANIA & DUNNELLON, FLORIDA

Sea-Coll Brand Soft Phosphate with Colloidal Clay..... D 971 (7-31-58)	Yes		C			20.00	9.00				
			F			19.80	10.79				

ADAMS FEED COMPANY, STORM LAKE, IOWA

Manamar Supreme Laying Ration..... D 689 (12-24-57)	Yes		C	20.00	3.00	8.50					
			F	23.85	5.50	7.18					
Manamar Supreme 36% Pig & Sow Concentrate..... D 691 (12-24-57)	Yes		C	36.00	2.00	8.00	3.00	1.00	0.003	1.50	
			F	36.05	4.66	5.71	3.95	1.65	0.0035	2.41	5, 6
Manamar Supreme 40% Hog Concentrate..... D 690 (12-24-57)	Yes		C	40.00	1.50	8.00	4.25	1.75	0.002	1.50	
			F	40.40	4.32	6.10	4.65	1.88	0.0017	2.53	5, 6

Manamar Supreme Poultry Concentrate..... D 688 (12-24-57)	Yes	C	32.00	2.50	9.50	5.35	2.00	0.003	1.00	6
		F	32.75	3.77	5.92	5.55	2.00	0.0038	2.09	

ALBER'S MILLING COMPANY, KANSAS CITY 5, MISSOURI & LOS ANGELES, CALIFORNIA

Albers Rabbit Family Ration..... E 7215 (3-10-58)	Yes	C	18.00	3.00	16.00					3
		F	19.20	2.40	14.40					
Albers Calf Manna..... D 3795 (5-8-58) D 5296 (11-5-58)	Yes	C	20.00	3.50	5.50					
		F	26.45	4.30	4.75					
		F	26.20	4.17	5.21					
Friskies Meal..... D 5222 (8-6-58)	Yes	C	24.00	6.00	4.00					
		F	26.75	5.80	2.03					
Albers Suckle..... D 5289 (11-4-58)	Yes	C	24.00	5.00	0.50					
		F	26.65	5.00	0.38					

ALBION ALFALFA MILL, INC., ALBION, NEBRASKA

Beaver Brand Dehy Fine Ground Dehy Alfalfa Meal..... D 1434 (12-5-57) E 2673 (6-5-58) D 4218 (9-26-58) D 2018 (8-15-58)	Yes	C	17.00	1.75	27.00					2a 4
		F	15.65	1.89	26.08					
		F	18.55	2.63	29.51					
		F	19.00	2.00	23.54					
		F	18.60	2.26	25.96					

ALDEN COOP ELEVATOR CO., ALDEN, IOWA

Felco Mash Builder..... D 1201 (6-26-58)	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50	
		F	39.60	3.46	6.18	5.00	2.16		2.46	
Felco Special Hog Balancer..... D 1202 (6-26-58)	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	
		F	40.00	2.95	8.09	2.50	1.32	0.0006	1.35	
Felco Special Dry Lot Hog Supplement..... D 1203 (6-26-58)	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	4
		F	37.45	3.12	9.54	2.60	1.26	0.0008	1.27	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 ALDEN COOP ELEVATOR CO., ALDEN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco All Mash..... D 1204 (6-26-58)	Yes		C	16.00	2.50	8.00	.....	.....	.....	.....	
			F	18.65	4.26	3.33	.....	.....	.....	.....	
Felco Growing Mash Medicated..... D 1205 (6-26-58)	Yes		C	20.00	2.00	7.00	.....	.....	.....	.....	
			F	16.75	4.10	4.47	.....	.....	.....	.....	2a

ALDINGER FARM SERVICE, IOWA FALLS, IOWA

Aldingers 18% Starter & Grower Medicated..... D 1248 (7-10-58)	Yes		C	18.00	3.50	6.50	.....	.....	.....	.....	
			F	21.05	4.52	4.29	.....	.....	.....	.....	
Sutton's Super Starter and Grower Medicated..... D 1247 (7-10-58)	Yes		C	18.00	3.50	6.50	.....	.....	.....	.....	
			F	20.50	4.45	4.47	.....	.....	.....	.....	
Aldingers Pig Starter Medicated..... D 1249 (7-10-58)	Yes		C	17.00	3.00	6.00	.....	.....	.....	.....	
			F	19.55	3.88	2.98	.....	.....	.....	.....	

ALLEMAN COOP CO., ALLEMAN, IOWA

Felco 18% Egg Maker..... D 270 (5-5-58)	Yes		C	18.00	2.50	8.00	.....	.....	.....	.....	
D 5976 (11-10-58)			F	19.60	4.13	5.35	.....	.....	.....	.....	
			F	20.55	3.65	5.22	.....	.....	.....	.....	
Felco All Mash..... D 271 (5-5-58)	Yes		C	16.00	2.50	8.00	.....	.....	.....	.....	
D 5977 (11-10-58)			F	19.40	4.21	6.06	.....	.....	.....	.....	
			F	20.10	4.11	5.53	.....	.....	.....	.....	
Felco Sow Supplement..... D 272 (5-5-58)	Yes		C	32.00	2.00	9.00	.....	.....	.....	.....	
D 5978 (11-10-58)			F	33.20	3.87	9.33	.....	.....	.....	.....	
			F	34.45	3.65	9.20	.....	.....	.....	.....	

Felco Special Dry Lot Hog Supplement	Yes	C	35.00	1.50	9.00				
D 273 (5-5-58)		F	37.30	3.63	9.00				
D 5965 (11-10-58)		F	38.00	3.62	8.69				
Felco Pig Grower Medicated	Yes	C	16.00	2.00	6.00				
D 266 (5-5-58)		F	16.80	4.08	4.85				
D 5972 (11-10-58)		F	18.25	4.07	5.05				
Felco Pig Starter Medicated	Yes	C	18.00	3.00	5.00				
D 267 (5-5-58)		F	23.00	3.77	3.43				
D 5973 (11-10-58)		F	20.40	4.08	3.54				
Felco Mash Builder	Yes	C	38.00	3.00	8.00				
D 268 (5-5-58)		F	38.70	4.62	6.37				
D 5974 (11-10-58)		F	40.80	5.13	6.46				
Felco 20% Layer-Breeder	Yes	C	20.00	2.00	8.00				
D 269 (5-5-58)		F	24.50	2.88	7.08				
D 5975 (11-10-58)		F	24.00	3.08	6.86				
Felco Special Hog Balancer	Yes	C	40.00	1.50	9.00				
D 274 (5-5-58)		F	42.20	2.22	6.72				
D 5966 (11-10-58)		F	41.10	2.50	6.97				
Felco Dairy Supplement	Yes	C	35.00	0.50	8.00				
D 275 (5-5-58)		F	38.45	0.74	6.77				
D 5964 (11-10-58)		F	36.20	1.40	6.90				
Felco 0.0011% D.E.S. Mix Inc in Felco Beef Builder	Yes	C	35.00	0.50	9.00				
D 276 (5-5-58)		F	37.70	0.72	7.25				
D 5963 (11-10-58)		F	37.85	1.09	6.04				
Felco Growing Mash Medicated	Yes	C	20.00	2.00	7.00				
D 277 (5-5-58)		F	21.95	3.35	6.32				
Felco Starting Mash Medicated	Yes	C	20.00	2.00	7.00				
D 278 (5-5-58)		F	23.80	3.30	5.50				
Felco 26% No Grain Layer-Breeder	Yes	C	26.00	2.00	9.00				
D 279 (5-5-58)		F	27.20	3.07	8.25				
D 5971 (11-10-58)		F	30.25	3.73	8.73				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 ALLIED CHEMICAL & DYE CORP., OMAHA, NEBRASKA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Urea Feed Mixture.....	Yes		C	262.00	0.10	0.50	.....	.....	.....	.....	
D 4066 (7-9-58)			F	263.00	3.49	0.26	.....	.....	.....	.....	

ALLIED MILLS, INC., CHICAGO, ILLINOIS

Wayne Hog Supplement.....	Yes		C	40.00	1.50	6.00	3.70	1.20	0.0008	2.50	8 2
D 9305 (12-6-57)			F	40.00	2.19	5.72	.....	.....	.....	.....	
D 586 (12-30-57)			F	40.00	2.44	4.60	2.10	1.11	0.00052	2.14	
D 4338 (7-1-58)			F	39.55	1.85	5.66	.....	.....	.....	.....	
D 7512 (12-9-58)			F	39.35	2.13	6.18	.....	.....	.....	.....	
0.0011% D.E.S. Mixture Inc In Sugarine 22 Beefmaker.....	Yes		C	22.00	1.00	12.00	.....	.....	.....	.....	
D 9307 (12-6-57)			F	26.35	1.28	9.52	.....	.....	.....	.....	
D 4309 (6-24-58)			F	22.65	1.12	9.21	.....	.....	.....	.....	
Wayne Pip-Z Hog Wormer (725).....	Yes		C	15.00	3.00	5.00	.....	.....	.....	.....	
D 9309 (12-6-57)			F	19.00	4.06	3.84	.....	.....	.....	.....	
D 566 (12-30-57)			F	17.50	3.85	3.92	.....	.....	.....	.....	
D 7508 (12-9-58)			F	17.80	4.16	3.90	.....	.....	.....	.....	
Sugarine 22 Beefmaker.....	Yes		C	22.00	1.00	12.00	.....	.....	.....	.....	
D 9310 (12-6-57)			F	25.25	1.44	7.02	.....	.....	.....	.....	
D 575 (12-30-57)			F	25.90	1.60	8.43	.....	.....	.....	.....	
D 6659 (11-5-58)			F	23.90	1.81	6.90	.....	.....	.....	.....	
D 7513 (12-9-58)			F	23.15	2.30	6.69	.....	.....	.....	.....	
Wayne Beefmix A-Medicated 6-505-27.....	Yes		C	30.00	1.50	10.00	.....	.....	.....	.....	
D 563 (12-30-57)			F	31.65	2.92	5.95	.....	.....	.....	.....	
D 4308 (6-24-58)			F	30.90	2.02	6.39	.....	.....	.....	.....	

Wayne Tail Curler, Jr. (752) Medicated D 564 (12-30-57)	Yes	C F	18.00 20.35	3.00 3.95	3.00 2.57					
Wayne Medicated Bio-Ruminutra D 565 (12-30-58) D 4310 (6-24-58)	Yes	C F F	25.00 27.90 27.05	1.50 3.38 3.23	11.00 8.94 8.65					
Wayne Tail Curler Rockets D 572 (12-30-57) D 4306 (6-24-58)	Yes	C F F	20.00 22.05 21.00	6.00 7.13 6.30	1.50 1.10 1.24					
Wayne Rocket Broiler Mixer (101) Medicated D 592 (12-30-57) D 7520 (12-9-58)	Yes	C F F	44.00 46.70 40.00	6.50 6.92 7.46	2.50 2.48 4.15	3.50 3.50 3.50	1.00 1.50 1.32	0.001 0.00051 0.0083	1.25 0.775 1.25	8 2A, 4
Wayne Universal Mixer D 595 (12-30-57)	Yes	C F	36.00 37.35	4.00 4.59	6.50 5.81	4.50 3.10	1.25 1.58	0.001 0.00053	1.40 2.36	8, 6
0.0022% D.E.S. Mixture Inc In Wayne Beef Cattle Supplement D 589 (12-30-57)	Yes	C F	42.00 43.25	1.00 1.76	8.00 5.30	3.00 2.50	0.75 1.17	0.0008 0.00053	3.75 3.12	8
Wayne Beef Balancer D 594 (12-30-57)	Yes	C F	32.00 32.85	1.50 2.79	8.00 6.48	2.60 1.90	0.50 0.86	0.0004 0.0005	3.00 2.18	
Wayne Universal Egg 128 D 591 (12-30-57)	Yes	C F	18.00 20.55	4.00 4.60	4.00 4.50					4
Wayne Rabbit Ration D 593 (12-30-57)	Yes	C F	17.00 19.50	2.00 2.94	15.00 10.00					
Wayne Mink Meal D 596 (12-30-57) D 7507 (12-9-58)	Yes	C F F	20.00 23.75 23.75	2.00 4.36 4.32	5.00 3.95 4.22					
Wayne 32% Dairy Supplement D 597 (12-30-57)	Yes	C F	32.00 35.15	1.50 2.43	8.00 6.21					
Wayne Medicated Tail Curler Rockets D 1267 (3-17-58)	Yes	C F	20.00 21.70	6.00 6.79	1.50 0.96					
Wayne Turkey Developer (225) Medicated D 4857 (6-2-58)	Yes	C F	26.00 27.85	4.00 5.08	5.50 5.23					
Wayne Turkey Supplement 205 D 4858 (6-2-58)	Yes	C F	30.00 31.45	2.50 3.84	7.50 6.37					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

ALLIED MILLS, INC., CHICAGO, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wayne Pig & Sow Meal.....	Yes	(6-2-58)	C	20.00	3.00	6.00					2
D 4860			F	22.05	3.45	5.43					
Wayne Hog Balancer.....	Yes	(6-6-58)	C	35.00	1.50	8.00	4.00	1.00	0.0003	3.00	
D 2438			F	36.40	2.65	5.88					
D 4493			F	35.70	2.73	6.36	3.00	1.20	0.0008	1.90	
D 6658			F	33.45	2.48	5.61	3.50	1.06	0.0012	1.78	
D 6534			F	35.00	2.02	6.20					
Wayne Pig Balancer (707) Medicated.....	Yes	(7-1-58)	C	40.00	1.50	8.00	4.00	1.00	0.0003	3.00	
D 4335			F	40.45	2.00	5.29					
D 5511			F	39.75	3.02	6.03	2.70	1.10	0.00057	2.39	
D 5605			F	40.10	2.24	5.66	3.10	1.13	0.0008	2.57	
D 6654			F	41.25	2.33	5.91	3.00	1.07	0.0007	2.52	
Wayne Turkey Developer (227) Medicated.....	Yes	(7-1-58)	C	26.00	4.00	5.50					
D 4337			F	27.30	5.47	4.77					
Wayne Pig & Sow Meal.....	Yes	(7-1-58)	C	20.00	3.00	6.00					
D 4339			F	20.05	3.64	6.30					
D 5506			F	28.75	3.30	5.91					
Wayne Calf Starter "A".....	Yes	(12-6-57)	C	16.00	3.00	7.50					
E 9187			F	16.55	3.62	4.85					
D 568			F	17.45	3.68	5.24					
D 5295			F	19.00	3.62	6.03					
Wayne Medicated H-A-D (170).....	Yes	(12-6-57)	C	20.00	5.00	4.00					
E 9189			F	21.05	6.00	2.55					
D 569			F	22.15	5.33	2.85					
D 5513			F	22.05	5.40	2.70					
D 5532			F	22.65	5.41	2.85					
D 5297			F	22.00	5.23	2.91					



Wayne Grower (140)	Yes	C	20.00	3.50	6.50				
E 9191 (12-6-57)		F	22.00	5.14	5.50				
D 580 (12-30-57)		F	21.60	4.80	6.13				
D 7501 (12-9-58)		F	22.90	4.36	5.03				
Wayne Rabbit Ration	Yes	C	17.00	2.00	15.00				
E 9193 (12-6-57)		F	18.80	3.14	9.90				
Wayne Egg Krums	Yes	C	22.00	4.00	4.50				
E 9183 (12-6-57)		F	23.18	5.21	4.02				
D 5535 (9-23-58)		F	24.50	4.75	3.75				
Wayne Egg Balancer	Yes	C	26.00	2.00	7.00				
E 9184 (12-6-57)		F	28.30	2.95	5.50				
D 571 (12-30-57)		F	27.30	3.00	5.39				
D 4491 (7-28-58)		F	26.10	2.80	5.60				
D 7518 (12-9-58)		F	26.20	3.87	5.28				
Wayne Poultry Mixer	Yes	C	36.00	4.00	6.50	4.50	1.00	0.001	1.30
E 9185 (12-6-57)		F	35.90	5.06	5.55				
D 1268 (3-17-58)		F	36.20	3.62	5.71				
D 2437 (6-6-58)		F	34.75	3.74	5.50				
D 5512 (9-2-58)		F	38.15	4.23	5.15	4.10	1.29	0.00078	1.19
D 7506 (12-9-58)		F	37.45	4.38	5.81				
Wayne Calf Supplement	Yes	C	24.00	3.00	8.00				
E 9186 (12-6-57)		F	25.25	3.14	6.82				
D 561 (12-30-57)		F	24.80	3.11	6.64				
D 5294 (11-5-58)		F	25.70	3.45	6.83				
D 7514 (12-9-58)		F	24.85	3.20	7.29				
Wayne Turkey Pre-Starter (221) Medicated	Yes	C	30.00	4.00	5.00				
D 4862 (6-2-58)		F	32.10	4.05	4.25				
Wayne Pig Balancer (704) Medicated	Yes	C	40.00	1.50	8.00	4.00	1.00	0.0003	3.00
D 4939 (7-15-58)		F	40.55	2.28	5.16				
D 7517 (12-9-58)		F	41.95	1.98	5.62	2.80	1.00	0.0020	2.59
Wayne Medicated Res-Q-Diet (755)	Yes	C	15.00	3.00	4.50				
D 4950 (7-17-58)		F	16.35	3.64	3.91				
Wayne Egg (122) Medicated	Yes	C	22.00	4.00	4.50				
D 5504 (8-28-58)		F	23.30	5.00	4.41				
D 5298 (11-5-58)		F	23.25	5.18	3.59				
Wayne Rocket Broiler Starter (186) Medicated	Yes	C	23.00	5.00	2.50				
D 5547 (9-24-58)		F	24.55	5.40	2.21				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

ALLIED MILLS, INC., CHICAGO, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wayne Medicated Bio-Ruminutra (519)	Yes		C	25.00	1.50	11.00	2.00	0.75	0.0008	2.50	
D 5300 (11-5-58)			F	26.65	3.28	7.61	1.80	0.96	0.0013	2.26	
Wayne Tail Curler, Jr. (751) Medicated	Yes		C	18.00	3.00	3.00					
D 6657 (11-5-58)			F	21.95	3.88	3.00					
D 7511 (12-9-58)			F	20.40	4.09	2.72					
Sugarine 12 Beefmaker	Yes		C	12.00	1.00	12.00					
D 7510 (12-9-58)			F	12.40	2.59	8.86					
Wayne D.E.S. 0.0011% Mixture Inc In Sweet Mix	Yes		C	30.00	1.50	10.00	2.00	0.50	0.0008	2.50	
E 9199 (12-6-57)			F	33.00	2.71	6.02					
D 5501 (8-28-58)			F	30.15	2.60	6.86	1.80	0.99	0.0013	2.03	
Wayne Tail Curler Medicated	Yes		C	16.00	3.00	5.00					
D 9301 (12-6-57)			F	17.80	3.93	3.47					
D 582 (12-30-57)			F	17.35	3.75	3.23					
D 4859 (6-2-58)			F	18.65	3.82	3.95					
D 2439 (6-6-58)			F	18.50	4.00	3.40					
D 4311 (6-24-58)			F	18.10	4.12	3.42					
D 4336 (7-1-58)			F	17.30	4.37	3.22					
Wayne Hog Balancer 711-W	Yes		C	35.00	1.50	8.00	4.25	1.00	0.0003	3.00	
D 9302 (12-6-57)			F	36.90	1.67	6.20					
D 578 (12-30-57)			F	38.10	1.75	6.16	2.90	1.15	0.00052	1.83	
Wayne Brood Sow Supplement	Yes		C	36.00	1.50	9.00	4.50	1.00	0.0008	2.50	
D 9303 (12-6-57)			F	36.60	2.54	6.87					
D 567 (12-30-57)			F	38.40	3.57	6.01	3.50	1.47	0.00051	2.59	
D 577 (12-30-57)			F	36.65	2.41	6.90	3.10	1.27	0.00046	2.62	
D 1266 (3-17-58)			F	36.65	2.50	7.19					
D 6653 (11-5-58)			F	37.25	3.81	6.16	3.70	1.45	0.0010	2.48	
D 7503 (12-9-58)	F	37.85	2.81	7.18							

Wayne 42% Dairy Mixing Supplement.....	Yes	C	42.00	1.00	8.00	2.00	0.75	0.0008	3.75	
E 9194 (12-6-57)		F	44.05	2.78	6.70					
D 562 (12-30-57)		F	44.60	1.94	6.08	2.00	1.16	0.00053	2.79	
Wayne 32% Dairy Supplement.....	Yes	C	32.00	1.50	8.00	2.50	0.70	0.0008	2.50	
E 9195 (12-6-57)		F	33.35	2.82	5.55					
D 4940 (7-15-58)		F	31.65	1.81	6.50					
D 4492 (7-28-58)		F	33.40	2.03	5.66	2.00	1.10	0.0011	2.20	
D 5502 (8-28-58)		F	33.30	2.37	7.05	2.10	1.00	0.0018	2.00	
D 6651 (11--5-58)		F	33.00	2.27	6.86	2.30	1.05	0.0051	1.88	
Wayne Sweet Mix.....	Yes	C	30.00	1.50	10.00	2.00	0.50	0.0008	2.50	
E 9196 (12-6-57)		F	31.80	2.34	7.16					
E 9197 (12-6-57)		F	32.70	2.68	6.33					
D 581 (12-30-57)		F	31.95	2.12	6.28	1.70	0.985	0.00046	1.82	8
D 5505 (8-28-58)		F	32.15	2.59	5.80	1.70	0.88	0.0006	2.10	8
D 6652 (11-5-58)		F	30.65	2.26	6.18	2.30	0.86	0.0010	2.43	
D 7516 (12-9-58)		F	31.95	2.78	6.48					
Wayne Pig Balancer "AA" (707) Medicated.....	Yes	C	38.00	1.50	8.00	4.00	1.00	0.0003	3.00	
E 9198 (12-6-57)		F	40.00	1.60	6.27					
E 9200 (12-6-57)		F	38.80	2.81	5.04					
D 588 (12-30 57)		F	39.80	2.39	6.03	2.60	1.10	0.00035	2.66	
Wayne 42% Dairy Mixing Supplement-W.....	Yes	C	42.00	1.00	8.00					
D 7523 (12-9-58)		F	43.50	2.86	5.44					
Wayne Roughage Supplement.....	Yes	C	34.00	2.00	10.00					
D 7524 (12-9-58)		F	34.05	3.47	8.34					
Wayne Pullet Builder.....	Yes	C	18.00	2.50	8.00					
D 7505 (12-9-58)		F	19.35	3.76	4.91					
Wayne Cage Layer.....	Yes	C	18.00	6.00	4.00					
D 7502 (12-9-58)		F	19.75	6.65	3.72					
0.0011% D.E.S. and Aureomycin Mixture Inc In Wayne Beefmix A.....	Yes	C	30.00	1.50	10.00	2.00	0.50	0.0008	2.50	
D 7515 (12-9-58)		F	31.70	2.46	6.47	1.90	0.87	0.0007	1.98	8
Wayne Beef Balancer 511.....	Yes	C	32.00	1.50	8.00					
D 7519 (12-9-58)		F	33.70	3.28	6.20					
Wayne Chick Starter (132) Medicated.....	Yes	C	20.00	4.00	5.50					
D 7521 (12-9-58)		F	28.65	5.90	5.34					
D 7504 (12-9-58)		F	22.25	5.53	3.96					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 ALLIED MILLS, INC., CHICAGO, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wayne Rocket Broiler Finisher (196) Medicated. D 7522 (12-9-58)	Yes		C	20.00	5.00	2.50					
			F	20.95	5.51	2.24					
Wayne Egg 122..... D 584 (12-30-57) D 4861 (6-2-58)	Yes		C	22.00	4.00	4.50					
			F	23.75	4.87	4.41					
			F	23.60	5.01	4.05					
Wayne Medicated Stress Diet (176)..... D 585 (12-30-57) D 4307 (6-24-58) D 4949 (7-17-58)	Yes		C	20.00	5.00	4.00					
			F	22.10	5.32	2.81					
			F	22.30	4.89	2.72					
			F	20.70	5.16	2.98					
Wayne Starter and Grower..... D 587 (12-30-57)	Yes		C	18.00	2.50	6.00					
			F	20.00	3.43	5.10					
Wayne Egg Producer 123..... D 590 (12-30-57) D 7509 (12-9-58)	Yes		C	20.00	3.00	7.00					
			F	21.40	3.23	5.92					
			F	21.20	3.60	5.26					
Wayne 26% Egg & Breeder..... D 574 (12-30-57) D 5292 (11-5-58)	Yes		C	26.00	4.00	7.00					
			F	28.15	4.42	5.39					
			F	27.25	4.64	5.43					
Wayne Sweet Bulky Feed..... D 576 (12-30-57)	Yes		C	12.00	1.50	15.00					
			F	16.95	3.34	11.88					
Wayne Pig Balancer Medicated..... D 579 (12-30-57)	Yes		C	38.00	1.50	8.00					
			F	38.95	2.44	6.03					
Wayne Res-Q Medicated 755..... D 583 (12-30-57)	Yes		C	15.00	3.00	4.50					
			F	17.35	3.85	3.33					

ALTON PREMIUM FEED CO., ALTON, IOWA

COMMERCIAL FEEDS

Alton Premium Sow Supplement..... E 2658 (6-4-58)	Yes	C	32.00	4.00	10.10				
		F	33.85	5.77	8.94				
Alton Premium Meat Meal..... E 2659 (6-4-58)	Yes	C	55.00	7.00	3.50				
		F	56.15	11.23	1.05				
Alton Premium 26% Layer Breeder Crumbilized E 2660 (6-4-58)	Yes	C	26.00	3.60	6.70				
		F	27.82	5.41	6.22				
Alton Premium 20% Layer Crumbilized..... E 2661 (6-4-58)	Yes	C	20.00	3.60	6.30				
		F	22.25	4.66	5.97				
Alton Premium Hi-Grow Creep Grower Medicated ..... E 2650 (6-4-58)	Yes	C	16.00	3.50	4.70				
		F	17.20	4.22	3.52				
Alton Premium 0.0022% D.E.S. Mix Inc. In Premium Beef Topper 32..... E 2651 (6-4-58)	Yes	C	32.00	3.50	7.80				
		F	33.95	4.04	8.03				
Alton Premium Hi-Grow Hog Supplement Medicated ..... E 2652 (6-4-58)	Yes	C	40.00	4.00	7.00				
		F	43.00	6.40	6.60				
Alton Premium 40% Hog Finisher..... E 2653 (6-4-58)	Yes	C	40.00	4.50	7.00				
		F	41.25	5.61	4.34				
Alton Premium 0.0011% D.E.S. Mix Inc In Premium Beef Topper 40..... E 2654 (6-4-58)	Yes	C	40.00	3.30	7.80				
		F	41.35	4.18	7.24				
Alton Premium Swine Supplement "Pasture"..... E 2655 (6-4-58)	Yes	C	38.00	5.20	6.70				
		F	43.15	6.63	6.00				
Alton Premium Hi-Grow Creep Feed Medicated E 2656 (6-4-58)	Yes	C	20.00	5.00	4.50				
		F	21.30	4.92	3.12				
Alton Premium Hog Balancer "Dry Lot"..... E 2657 (6-4-58)	Yes	C	38.00	5.20	8.20				
		F	41.40	6.65	7.33				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
AMERICAN CRYSTAL SUGAR CO., DENVER, COLORADO

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Dried Beet Pulp D 1335 (12-27-57)	Yes		C F	8.50 11.25	0.30 0.41	19.00 15.95	-----	-----	-----	-----	

AMERICAN FLOURS, INC., NEWTON, KANSAS

American Ace Wheat Bran D 5967 (11-10-58)	No	Yes	C F	14.50 16.10	3.50 4.80	11.00 11.02	-----	-----	-----	-----	
American Ace Wheat Standard Middlings and Wheat Screenings D 5968 (11-10-58)	No	Yes	C F	15.00 17.95	3.50 4.38	9.50 9.10	-----	-----	-----	-----	

AMERICAN STORES COMPANY, LINCOLN, NEBRASKA

Lin-Pak 50% Meat Scraps D 2561	No		C F	50.00 51.80	8.00 11.97	3.00 2.13	-----	-----	-----	-----	
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AMERICAN YEAST CO., CEDAR RAPIDS, IOWA

American Feed Belt Triple F-F-F Multi Feed Ruminant Supplement Medicated D 552 (12-26-57)	Yes		C F	14.00 16.15	2.00 1.78	6.00 7.09	8.00 6.90	0.90 1.55	0.005 0.006	2.50 0.19	4
Nox-Bloat Cattle Mineral Supplement Medicated D 1561 (3-26-58)	No		C F	-----	-----	-----	24.00 27.60	3.50 3.94	0.005 0.0085	-----	

AMES RELIABLE PRODUCTS CO., AMES, IOWA

Ames Reliable Big 10 Supplement.....	Yes	C	40.00	2.00	9.00	5.50	1.50	0.0005	2.75	
E 4555 (9-23-57)		F	39.17	2.55	6.07	3.80	2.00	0.00067	2.58	2
D 152 (12-10-57)		F	38.90	2.31	5.48	5.50	2.22			2a
D 2078 (6-30-58)		F	40.30	2.16	6.42	5.30	1.67	0.0008	2.00	
Ames Reliable 27% Cafeteria.....	Yes	C	27.00	2.50	7.50	4.50	1.50	0.00015	1.25	
E 8361 (11-12-57)		F	28.65	3.03	8.49					4
E 8437 (2-17-58)		F	28.90	2.58	6.87					
D 2423 (6-5-58)		F	31.25	4.28	6.23					
D 155 (12-10-57)		F	27.30	3.38	8.16	5.50	1.91			4, 5
D 2074 (6-30-58)		F	29.65	3.25	6.33	3.80	1.54	0.00033	0.90	
Ames Reliable 0.0011% D.E.S. Mix Inc In Cattle Supplement.....	Yes	C	35.00	1.00	9.00					
E 8376 (11-12-57)		F	36.20	2.92	11.79					4
D 2421 (6-5-58)		F	39.10	3.60	8.50					
D 2072 (6-30-58)		F	38.15	2.84	9.20					
Ames Reliable Hi-E-16.....	Yes	C	16.00	3.50	4.00					
E 8378 (11-12-57)		F	17.90	4.85	4.79					4
E 8445 (2-17-58)		F	18.15	3.62	4.00					
D 2079 (6-30-58)		F	17.90	4.06	3.97					
Ames Reliable Brood Sow Supplement.....	Yes	C	30.00	2.00	10.00					
E 8380 (11-12-57)		F	30.30	2.93	10.68					4
D 2080 (6-30-58)		F	31.35	2.88	7.15					
Ames Reliable 30% Cattle Supplement.....	Yes	C	30.00	1.00	9.00					
E 8381 (11-12-57)		F	31.55	2.29	10.16					4
D 2422 (6-5-58)		F	32.60	2.48	8.13					
D 2082 (6-30-58)		F	33.60	2.44	8.69					
D 2090 (6-30-58)		F	32.00	2.67	8.98					
Ames Reliable Big 12 Supplement.....	Yes	C	35.00	1.50	8.00					
E 8382 (11-12-57)		F	34.70	11.53	8.75					4
Ames Reliable Pig Booster Medicated.....	Yes	C	16.00	3.00	6.50					
D 153 (12-10-57)		F	17.50	3.56	4.32					
E 8439 (2-17-58)		F	18.15	3.37	4.50					
D 2076 (6-30-58)		F	18.10	3.53	4.14					
Ames Reliable Chick Starter.....	Yes	C	20.00	3.00	4.50					
E 8438 (12-17-57)		F	21.85	2.70	3.42					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 AMES RELIABLE PRODUCTS CO., AMES, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Ames Reliable Chick Starter..... D 2083 (6-30-58)	No	Yes	C F	20.00 21.55	3.00 3.20	5.00 3.96					
Ames Reliable Chick Starter-Grower..... D 2085 (6-30-58)	Yes		C F	18.00 21.40	3.00 3.45	6.50 4.94					
Ames Reliable Turkey Range..... D 2086 (6-30-58)	Yes		C F	26.00 27.50	2.00 2.89	6.00 6.00					
Ames Reliable Poultry Mixer..... E 8444 (12-17-58) D 2084 (6-30-58)	Yes		C F F	40.00 40.00 41.60	2.50 3.36 2.82	8.00 6.56 6.16					
Ames Reliable Medicated Stress Diet..... E 8435 (2-17-58)	Yes		C F	18.00 19.45	3.00 3.82	5.00 4.25					
Ames Reliable Big 12 Supplement..... E 8436 (2-17-58) D 2089 (6-30-58)	Yes		C F F	35.00 35.65 37.35	1.50 2.37 2.62	8.00 6.20 6.36					
Ames Reliable Poultry & Hog Wormer Ration Medicated..... E 8434 (2-17-58)	Yes		C F	16.00 18.70	3.00 3.13	5.00 4.40					
Ames Reliable 32% All Purpose Concentrate..... D 154 (12-10-57) E 8440 (2-17-58) D 2424 (6-5-58) D 2088 (6-30-58)	Yes		C F F F F	32.00 33.30 32.85 35.30 35.20	1.50 3.28 3.34 3.13 3.15	8.00 7.15 7.12 6.55 7.89	5.00 6.20	1.50 2.14			5
Ames Baby Pig Pre-Weaner Medicated..... E 8441 (2-17-58) D 2426 (6-5-58) D 2071 (6-30-58)	Yes		C F F F	18.00 21.15 20.70 20.30	3.00 3.39 3.79 3.50	3.00 2.72 2.41 2.74					



Ames Reliable 20% Egg & Breeder.....	Yes	C	20.00	3.00	6.50				
E 8442 (2-17-58)		F	21.10	3.01	5.82				
D 2081 (6-30-58)		F	22.15	2.88	5.44				
Ames Reliable Big 10 Supplement Medicated.....	Yes	C	40.00	2.00	9.00				
E 8443 (2-17-58)		F	42.25	1.94	6.06				
Ames Reliable Complete Hog Grower Finisher.....	Yes	C	13.00	3.00	9.00				
D 2420 (6-5-58)		F	14.35	4.53	5.45				
D 2087 (6-30-58)		F	13.65	3.71	5.49				
Ames Reliable Medicated Cattle Conditioner Ration .....	Yes	C	14.00	2.00	15.00				
D2425 (6-5-58)		F	16.95	4.18	13.55				
Ames Reliable 40% Cattle Supplement.....	Yes	C	40.00	1.50	9.00				
D 2068 (6-30-58)		F	42.45	3.61	9.20				
Ames 22% Turkey Developer.....	Yes	C	22.00	3.00	6.00				
D 2069 (6-30-58)		F	24.20	3.15	4.84				
Ames Reliable Turkey Starter.....	Yes	C	26.00	2.50	5.50				
D 2070 (6-30-58)		F	28.45	3.98	4.64				
Ames Reliable Dairy Concentrate.....	Yes	C	32.00	1.50	12.00				
D 2073 (6-30-58)		F	36.70	1.90	7.80				
Ames Reliable Turkey Concentrate.....	Yes	C	32.00	2.00	7.00				
D 2075 (6-30-58)		F	34.25	2.88	6.78				
Ames Reliable 0.022% Iodinated Casein Inc In Lactating Sow Ration.....	Yes	C	15.00	3.00	7.50				
D 2077 (6-30-58)		F	17.70	4.49	6.93				

## ANAMOSA FEED MILL, ANAMOSA, IOWA

Top Notch 16% Pig Meal Medicated.....	Yes	C	16.00	3.50	5.00				
D 4787 (10-6-58)		F	17.20	3.83	4.13				
Top Notch 18.5% Egg Mash.....	Yes	C	18.50	4.00	7.00				
E 4875 (12-18-57)		F	20.00	4.25	6.08				
D 4786 (10-6-58)		F	20.65	4.00	5.47				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
ANAMOSA FEED MILL, ANAMOSA, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Top Notch 16% Pig Meal..... E 4876 (12-18-57)	Yes		C	16.00	4.00	6.50					
			F	17.90	4.18	5.03					
Top Notch 18% Pig Starter Medicated..... E 4877 (12-18-57)	Yes		C	18.00	4.00	6.00					
D 4788 (10-6-58)			F	19.00	4.57	4.66					
			F	19.45	3.58	4.89					3
Top Notch 30% Hog Supplement..... E 4878 (12-18-57)	Yes		C	30.00	2.75	8.00					
			F	34.10	4.27	7.99					
Top Notch 16% Dairy Feed..... E 4879 (12-18-57)	Yes		C	16.00	3.50	10.50					
D 4790 (10-6-58)			F	17.55	3.55	6.77					
			F	17.65	3.77	8.03					
Top Notch 26% Egg Balancer..... E 4880 (12-18-57)	Yes		C	26.00	3.50	8.50	4.70	1.30	0.0012	2.00	
D 4789 (10-6-58)			F	28.75	3.84	7.26					
			F	28.20	4.08	7.87	4.80	1.44	0.0011	1.88	
Top Notch 40% Hog Concentrate..... E 4881 (12-18-57)	Yes		C	40.00	2.50	7.00	4.00	1.30	0.0007	3.00	
D 4791 (10-6-58)			F	40.15	5.17	5.50					
			F	38.70	5.47	5.97	4.10	1.60	0.00085	2.72	2a
Top Notch 18% Chick Grower..... D 4792 (10-6-58)	Yes		C	18.00	4.00	6.00					
			F	18.85	4.04	4.25					
APLINGTON GRAIN & MILLING CO., APLINGTON, IOWA											
Aplington Egg Mash..... D 4694 (11-10-58)	Yes		C	18.00	3.00	8.50					
			F	19.95	4.60	6.45					
Aplington's Specific Swine Vitamin Mix #25..... D 4695 (11-10-58)	Yes		C	40.00	2.00	9.00					
			F	41.65	4.82	8.05					

ARBIE MINERAL FEED CO., INC., MARSHALLTOWN, IOWA

Arbie Hog Super Scooter Mineral Feed..... D 2139 (7-10-58)	Yes	C F				17.50 16.40	5.00 5.90	0.028 0.033	8.00 8.20	
Arbie Laying Supplement..... D 2140 (7-10-58) D 5194 (12-2-58)	Yes	C F F	31.00 32.20 32.40	3.50 5.37 5.74	7.00 7.86 7.26	4.50 5.50 5.60	0.90 2.30 2.23	0.003 0.003 0.0027	2.00 1.80 2.19	4, 5 5
Arbie Pig Scooter Pab Medicated..... D 2141 (7-10-58) D 6903 (12-2-58)	Yes	C F F	16.00 17.15 17.85	3.00 3.50 3.32	4.00 3.13 3.14					
Arbie Hog Scooter 35 Supplement..... D 2143 (7-10-58) D 5198 (12-2-58)	Yes	C F F	35.00 35.15 36.35	2.00 2.71 2.15	6.00 5.25 5.52	5.00 4.30	1.50 2.00	0.0028 0.0027	3.50 3.30	
Arbie Hog Scooter Mineral Feed..... D 2145 (7-10-58)	Yes	C F				16.00 15.60	3.25 5.30	0.028 0.030	8.00 8.20	
Arbie Pig Scooter Pre-Starter Medicated..... D 2142 (7-10-58) D 5190 (12-2-58)	Yes	C F F	20.00 22.50 23.85	6.00 7.03 7.14	1.50 1.73 2.00					1
Arbie 0.0022% D.E.S. Mix and Natural Live Bovine Rumen Organism Mix Inc In Beef Scooter ..... D 5191 (12-2-58)	Yes	C F	34.00 34.95	1.00 1.58	7.50 7.09	3.00 3.10	1.20 1.29	0.002 0.0028	1.50 1.42	
Arbie Live Rumen Bacteria Mix Inc In 32% Ration ..... D 5193 (12-2-58)	Yes	C F	32.00 33.20	3.50 2.36	6.00 7.53					3, 4
Arbie Sweet Pelleted Hog Scooter Mineral Feed ..... D 2118 (7-7-58)	Yes	C F				10.00 8.10	5.00 5.10	0.028 0.025	3.50 2.40	
Arbie 30% Poultry Grower Supplement Medicated ..... D 2129 (7-10-58) D 5192 (12-2-58)	Yes	C F F	30.00 32.50 30.00	3.50 4.74 4.38	7.00 7.47 6.68					1
Arbie 20% Chick Starter Medicated..... D 2130 (7-10-58)	Yes	C F	20.00 21.20	3.50 4.00	4.00 4.55					4

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 ARBIE MINERAL FEED CO., INC., MARSHALLTOWN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Arbie Beef Mineral Feed Medicated D 2134 (7-10-58)	Yes		C F				18.00 18.70	5.50 9.20	0.056 0.045	10.50 5.40	5
0.0022% Diethylstilbestrol Mix & Live Rumen Bacteria Inc In 36% Cattle Scooter Pellets D 638 (4-2-58)	Yes		C F	36.00 36.90	1.00 1.89	6.00 5.90	4.00 3.20	0.50 1.39	0.005 0.006	3.00 2.36	
D 5189 (12-2-58)			F	38.05	1.66	5.88					
Arbie Beef Mineral Feed D 637 (4-2-58)	Yes		C F				17.00 15.60	4.75 6.70	0.056 0.0239	9.50 10.41	8, 6
Arbie Hog Scooter 45 Supplement D 2116 (7-7-58)	Yes		C F	45.00 45.00	1.25 2.95	3.00 4.10	7.50 6.80	2.00 2.40	0.0042 0.0029	5.00 4.90	4, 8
D 5199 (12-2-58)			F	44.85	1.55	3.51	8.10	2.42	0.0033	4.98	4, 5
Arbie Shoat Scooter 45 Supplement D 2117 (7-7-58)	Yes		C F	45.00 46.45	1.25 2.55	3.00 3.68					4
D 5200 (12-2-58)			F	46.85	2.40	3.80					4
Arbie 36% Cattle Scooter A Medicated D 6901 (12-2-58)	Yes		C F	36.00 39.05	1.00 1.45	6.00 6.25	4.00 3.40	0.50 1.38	0.005 0.0047	3.00 3.05	
Arbie-Lac Mineral Feed D 2135 (7-10-58)	Yes		C F				18.50 19.10	0.78 1.60	0.028 0.0026	10.50 3.60	5 8
Arbie Egg Scooter 45 Supplement D 2137 (7-10-58)	Yes		C F	45.00 53.20	2.00 3.99	3.00 3.51	7.00 6.30	3.00 3.22	0.004 0.0032	4.00 3.96	4
D 5195 (12-3-58)			F	50.40	4.11	2.86					
Arbie Pig Scooter Starter-Grower Pre-Mix Medicated D 2138 (7-10-58)	Yes		C F	25.00 24.65	2.50 3.61	3.50 4.19					2, 4
D 6902 (12-2-58)			F	25.45	3.48	4.10					4

Arbie Calf Scooter Milk Replacer..... D 2128 (7-10-58)	Yes	C	21.00	7.50	0.50				
		F	21.70	8.23	0.30				
Arbie Milk Scooter Medicated..... D 2131 (7-10-58)	Yes	C	34.00	1.00	7.50				
D 5196 (12-2-58)		F	37.00	1.50	6.37				
		F	37.20	1.52	7.35				
Arbie Beef Scooter Medicated..... D 2132 (7-10-58)	Yes	C	34.00	1.00	7.50				
		F	34.75	1.70	6.60				
Arbie 36% Cattle Scooter Medicated..... D 2133 (7-10-58)	Yes	C	36.00	1.00	6.00				
		F	39.30	1.82	5.54				
Arbie Scooter Pip Hog Wormer Feed..... D 2136 (7-10-58)	Yes	C	14.00	2.50	5.00				
D 5197 (12-2-58)		F	16.05	4.04	3.00				
		F	16.30	4.00	3.12				

ARCADY FARMS MILLING CO., CHICAGO 27, ILLINOIS

Arcady Wonderlas ..... D 2427 (6-5-58)	Yes	C	5.00	1.00	12.00				
		F	6.10	1.48	11.88				

ARCHER-DANIELS-MIDLAND COMPANY, MINNEAPOLIS, MINNESOTA

Archer 0.00073% D.E.S. Mix In Beef Fattener..... D 3778 (4-15-58)	Yes	C	20.00	1.50	12.00				
		F	20.60	2.89	11.20				
Archer Quality 34% Protein Solvent Extracted Linseed Oil Meal..... D 2431 (6-6-58)	Yes	C	34.00	0.50	10.00				
D 4258 (7-3-58)		F	34.65	1.35	9.47				
D 2198 (11-18-58)		F	35.70	1.35	9.93				
		F	34.75	0.94	9.52				
9% Protein Flax Plant Product..... D 4067 (7-9-58)	Yes	C	9.00	2.00	35.00				
		F	10.75	2.16	29.00				
Archer Mink Food..... D 5539 (9-23-58)	Yes	C	20.00	2.00	6.00				
		F	22.30	3.68	5.91				
Archer Poultry Balancer..... D 5540 (9-23-58)	Yes	C	26.00	3.50	9.00	4.00	1.00	0.0002	2.00
		F	28.20	3.50	8.07	3.10	1.41	0.0007	1.62

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
ARCO DEHYDRATING CO., LAKE PARK, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Arco Dehy Alfalfa Pellets..... E 4586 (10-1-57)	Yes		C F	17.00 18.65	2.00 3.10	27.00 19.92	.....	.....	.....	.....	

ARLINGTON CO-OP COMMISSION CO., ARLINGTON, IOWA

Felco Sow Supplement..... D 1108 (3-31-58) D 1164 (5-1-58)	Yes		C F F	32.00 33.40 33.85	2.00 4.20 4.71	9.00 9.92 9.00	.....	.....	.....	.....	.....	+
Felco 18% Egg Maker..... D 1101 (3-31-58)	Yes		C F	18.00 21.05	2.50 4.65	8.00 6.28	.....	.....	.....	.....	.....	
Felco 26% No Grain Layer-Breeder..... D 1102 (3-31-58)	Yes		C F	26.00 30.75	2.00 3.36	9.00 8.15	.....	.....	.....	.....	.....	
Felco 0.0011% Diethylstilbestrol Mix Inc Beef Builder..... D 1103 (3-31-58)	Yes		C F	35.00 38.10	0.60 1.90	9.00 6.80	.....	.....	.....	.....	.....	
Felco Pig Starter..... D 1104 (3-31-58)	Yes		C F	18.00 22.45	3.00 4.45	5.00 4.25	.....	.....	.....	.....	.....	
Felco Pig Grower..... D 1105 (3-31-58)	Yes		C F	16.00 20.30	2.00 3.81	6.00 4.31	.....	.....	.....	.....	.....	
Felco Special Hog Balancer..... D 1106 (3-31-58)	Yes		C F	40.00 41.95	1.50 3.65	9.00 7.04	.....	.....	.....	.....	.....	
Felco Dairy Supplement..... D 1107 (3-31-58)	Yes		C F	35.00 35.25	0.50 1.45	8.00 5.76	.....	.....	.....	.....	.....	
Felco Special Dry Lot Hog Supplement..... D 1109 (3-31-58)	Yes		C F	35.00 38.40	1.50 4.15	9.00 9.00	.....	.....	.....	.....	.....	

Felco Beef Supplement..... D 1110	(3-31-58)	Yes	C	35.00	0.50	9.00	-----	-----	-----	-----
			F	36.95	2.24	6.70	-----	-----	-----	-----
Felco Mash Builder..... D 1163	(5-1-58)	Yes	C	38.00	3.00	8.00	-----	-----	-----	-----
			F	39.65	3.00	4.75	-----	-----	-----	-----

ARLINGTON DEHYDRATOR CO., ARLINGTON, NEBRASKA

Elkhorn Valley 17% Alfalfa Meal..... D 3807 D 2441	(3-27-58) (6-23-58)	No	C	17.00	1.75	27.00	-----	-----	-----	2a, 4
			F	13.05	1.75	32.32	-----	-----	-----	
			F	17.90	2.51	24.27	-----	-----	-----	

ARMOUR & COMPANY, CHICAGO, ILLINOIS

Armour 60% Protein Digester Tankage..... D 535 D 2451 D 4233	(4-7-58) (6-5-58) (9-29-58)	Yes	C	60.00	6.00	3.00	-----	-----	-----	3 2a
			F	61.55	7.38	1.25	-----	-----	-----	
			F	60.60	5.50	1.20	-----	-----	-----	
			F	58.90	7.30	1.01	-----	-----	-----	

ARNOLD BROTHERS, RUSSELL, IOWA

Arnold's Special 35% Hog Supplement..... D 4484	(7-24-58)	Yes	C	35.00	3.00	7.50	9.00	1.50	0.0006	3.50
			F	35.00	4.38	5.76	6.70	2.10	0.0018	3.30
Arnold's Pig Concentrate Medicated..... D 4485	(7-24-58)	Yes	C	40.00	3.50	6.00	6.00	2.00	0.0004	2.50
			F	40.50	6.66	4.35	2.00	2.20	0.0012	2.00
Arnold's Vita-Mam 37% Chicken Concentrate Medicated..... D 4483	(7-24-58)	Yes	C	37.00	3.00	7.00	5.00	1.00	0.0005	2.00
			F	39.20	6.19	4.97	4.70	1.50	0.0013	1.90

ATKINSON MILLING CO., MINNEAPOLIS, MINNESOTA

Freedom Pure Wheat Bran..... D 2402	(5-8-58)	Yes	C	15.00	4.00	12.00	-----	-----	-----	-----
			F	16.15	4.86	11.55	-----	-----	-----	-----

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
AURORA ALFALFA COMPANY, AURORA, NEBRASKA

Brand of Feed	Reg.	Reg- late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Green Valley 17% Dehydrated Alfalfa Meal D 4157 (6-30-58)	Yes		C	17.00	1.50	27.00	.....	.....	.....	.....	
			F	17.30	2.51	26.17	.....	.....	.....	.....	

AVOCA ALFALFA MILLING, AVOCA, IOWA

17% Dehydrated Alfalfa Meal with 2% Preserved Animal Fat..... D 1875 D 40	Yes		C	17.00	3.00	27.00	.....	.....	.....	.....	2a, 4
			F	15.85	3.21	28.39	.....	.....	.....	.....	
			F	20.30	4.28	21.77	.....	.....	.....	.....	

B & M COMPANY, INC., FORT DODGE, IOWA

Perfect Circle Concentrate Balancer For Dairy, Sheep & Ruminant Animals D 1979 (2-18-58)	Yes		C	40.00	3.00	8.00	.....	.....	.....	.....	3
			F	39.70	2.13	5.28	.....	.....	.....	.....	
Perfect Circle Mineral D 1971 (2-18-58)	Yes		C	7.00	1.00	2.00	21.00	5.00	0.003	5.50	2, 7
			F	6.40	0.92	1.44	19.00	3.16	0.0094	3.60	
Perfect Circle Concentrate Poultry Balancer D 1972 (2-18-58)	Yes		C	32.00	3.00	7.00	7.00	2.50	0.00125	1.00	7
			F	33.95	4.27	7.19	6.30	1.65	0.0025	0.81	
Perfect Circle 36% Pig Starter & Runt Snapper Concentrate. Medicated D 1977 (2-18-58)	Yes		C	36.00	3.50	6.00	7.00	2.00	0.0003	2.00	
			F	37.55	4.00	4.78	5.70	1.98	0.0041	0.91	
Perfect Circle 34% Swine Regular D 1974 (2-18-58)	Yes		C	34.00	4.00	7.00	.....	.....	.....	.....	3
			F	33.60	2.66	6.65	.....	.....	.....	.....	



Perfect Circle 36% Swine Special Concentrate. Medicated. D 1970 (2-18-58)	Yes	C	36.00	4.00	6.00					2a, 3
		F	34.95	3.55	6.28					
Perfect Circle Dairy Concentrate Balancer D 1975 (2-18-58)	Yes	C	42.00	2.00	6.00					
		F	42.00	1.78	6.55					
30% Beef Cattle Concentrate Perfect Circle D 1976 (2-18-58)	Yes	C	30.00	2.00	9.00					
		F	33.20	1.66	4.73					
Perfect Circle V-B Antibiotic Mixture D 1973 (2-18-58)	No	C	16.00	2.00	8.00					
		F	20.00	2.59	3.88					
Perfect Circle Poultry Starter and Grower Concentrate. Medicated D 1978 (2-18-58)	No	C	36.00	3.00	8.00					
		F	37.25	3.40	6.93					
Perfect Circle Vita Lite D 1980 (2-18-58)	No	C	28.00	2.00	8.00					
		F	32.65	2.53	4.32					

BABER'S VIS-VITA SALES, INC., SIOUX CITY, IOWA

Vis-Vita (Cattle & Sheep) D 1264 (3-7-58)	Yes	C	29.00	4.00	6.50					
		F	31.60	6.16	4.52					
Vis-Vita Hog, Poultry & Calf D 1265 (3-7-58) D 2446 (7-2-58) D 2278 (7-17-58)	Yes	C	29.00	4.00	6.50					
		F	32.10	5.36	4.30					
		F	31.85	6.76	4.58					
Cattle & Sheep Vis-Vita D 2445 (7-2-58)	Yes	C	24.00	4.00	6.50					
		F	30.50	7.61	4.23					

BACHMAN FEEDS, MT. VERNON, IOWA

My Own 18% Chick Grower D 3880 (6-2-58)	Yes	C	18.00	3.00	7.00					
		F	20.80	3.25	5.51					
My Own 20% Chick Starter D 3881 (6-2-58)	Yes	C	20.00	2.63	5.75					
		F	21.35	3.16	5.61					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
BADGER CO-OP ELEVATOR COMPANY, BADGER, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Co-Op 32% Dairy Concentrate D 1996 (3-26-58)	Yes		C	32.00	1.50	12.00	2.50	1.00	0.0007	2.00	8
			F	34.45	1.61	6.63	1.90	0.93	0.00088	2.74	
Co-Op 35% Brood Sow Supplement D 1997 (3-26-58)	Yes		C	35.00	3.00	12.00					
			F	37.20	3.06	10.87					
Co-Op Poultry Manufacturing-Concentrate D 1998 (3-26-58)	Yes		C	28.00	2.50	10.00					
			F	28.60	3.70	10.29					
Co-Op Hog Mixing Balancer D 1999 (3-26-58)	Yes		C	22.00	3.00	8.00					
			F	33.75	5.91	6.07					
Co-Op 24% Calf Meal D 3802 (3-26-58)	Yes		C	24.00	2.00	9.50					
			F	26.90	2.12	5.51					
Co-Op 35% Beef Cattle Supplement D 3803 (3-26-58)	Yes		C	35.00	1.00	11.00					
			F	37.05	1.33	7.97					
Badger Creep Feed D 1948 (3-26-58)	No		C	15.00	4.00	4.00					
			F	17.95	4.66	2.53					
Co-Op Open Formula Chick Starter-Grower Medicated D 1942 (3-26-58)	Yes		C	18.00	3.50	6.00					
			F	19.75	4.15	3.95					
Co-Op Super 40% Hog Balancer D 1944 (3-26-58)	Yes		C	40.00	3.00	8.00	5.00	2.00	0.0007	2.50	7, 8
			F	41.90	3.36	6.11	3.20	1.46	0.00062	3.17	
Co-Op Special Mixing Concentrate D 1945 (3-26-58)	Yes		C	36.00	2.50	7.00	7.00	2.00	0.0006	2.50	
			F	36.40	4.27	5.06	6.60	2.30	0.00066	2.26	
Coop Open Formula Chick Pre-Starter Complete Medicated D 1946 (3-26-58)	Yes		C	21.00	4.00	5.50					
			F	24.00	4.32	4.69					

Co-Op 16% All Mash Egg Mash D 1947 (3-26-58)	Yes		C	16.00	3.50	7.00				
			F	18.15	3.42	3.76				
Co-Op 20% Egg Mash D 1949 (3-26-58)	Yes		C	20.00	3.00	8.00				
			F	23.30	3.50	5.65				
Co-Op 26% Pig Meal D 1950 (3-26-58)	Yes		C	26.00	3.00	10.00				
			F	30.20	4.85	8.76				
Co-Op 26% Cafeteria Egg D 1995 (3-26-58)	Yes		C	26.00	2.50	10.00				
			F	28.40	4.00	8.48				

BAKKER & RUS SEED & FEED, PELLA, IOWA

Murphy's Cut-Cost 40% Hog Balancer D 4934 (7-10-58)	Yes		C	40.00	2.00	8.00				
			F	40.05	3.53	7.52				
B & R Pullet Grower D 4933 (7-10-58)	No	Yes	C	18.00	2.50	7.00				
			F	21.95	3.83	4.48				

BARTON MILLS, OMAHA, NEBRASKA

Dehydrated Alfalfa Meal D 2282 (7-21-58)	Yes		C	17.00	2.00					
			F	16.55	2.80					1a, 2

BAY STATE MILLING CO., WINONA, MINNESOTA

Wingold Standard Hard Wheat Middling and Wheat Screenings D 2357 (11-14-58)	Yes		C	16.00	4.00	9.50				
			F	17.65	5.59	9.19				

BAY STATE MILLING CO., LEAVENWORTH, KANSAS

"Bay State" Wheat Gray Shorts with ground wheat screenings not exceeding mill run D 646 (4-3-58)	Yes		C	16.00	3.50	6.00				
			F	18.35	4.51	6.75				4

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
BEARDSTOWN MILLS CO., BEARDSTOWN, ILLINOIS

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Critic 35% Hog Concentrate Red Label D 5252 (10-6-58)	Yes		C	35.00	2.50	8.50	4.00	1.30	0.0010	2.50	3
			F	36.65	2.05	6.04	4.10	1.20	0.0008	1.75	
Critic 36% Egg Concentrate D 5253 (10-6-58)	Yes		C	36.00	2.50	7.50	5.75	2.00	0.0023	3.00	3
			F	37.00	2.04	6.52	5.30	1.90	0.006	2.89	
Critic 34% Cattle Concentrate D 5254 (10-6-58)	Yes		C	34.00	3.50	7.50					3
			F	35.05	3.11	6.19					
Critic Pig Builder. Medicated D 3298 (6-26-58)	Yes		C	16.00	4.00	5.50					
			F	16.70	4.95	4.36					
Critic .0011% D.E.S. Mixture Inc. In Critic 34% Cattle Pellets D 3299 (6-26-58)	Yes		C	34.00	3.50	7.00					4
			F	35.35	3.60	7.76					
Critic Pig Pusher Concentrate Medicated D 5550 (10-6-58)	Yes		C	35.00	2.50	7.00					
			F	37.20	3.06	5.62					
Critic 28% Sow Supplement D 5251 (10-6-58)	Yes		C	28.00	2.50	8.50	4.50	2.25	0.0010	2.50	7
			F	30.20	2.95	8.13	3.90	1.83	0.0013	2.23	
Critic Egg Mash D 1728 (2-20-58)	Yes		C	20.00	3.50	7.50					
			F	23.85	3.58	6.97					
Critic Rabbit Pellets D 1727 (2-20-58)	Yes		C	18.00	3.00	10.00					
			F	18.10	4.21	8.11					
Critic 28% Sow Supplement D 1730 (2-20-58)	Yes		C	28.00	3.00	8.50					
			F	29.96	3.50	7.42					

Critic 26% Poultry Supplement..... D 1729	(2-20-58)	Yes	C F	26.00 27.70	3.00 4.03	7.00 7.46					4
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BEERMANN BROTHERS DEHY., DAKOTA CITY, NEBRASKA

Dehydrated Alfalfa..... D 692	(12-24-57)	Yes	C F	17.00 20.95	1.75 3.81	27.00 17.03					
D 541	(4-21-58)		F	19.30	3.10	25.70					
D 4236	(10-6-58)		F	18.75	3.35	24.76					

BELL BRAND FARM SUPPLY, FAYETTE, IOWA

Bell Brand Hi-Energy Hog Supplement Medicated .....	(11-29-57)	Yes	C F	35.00 37.10	3.75 4.77	6.50 8.28					4
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BIG BILL'S FEED STORE, ONSLOW, IOWA

Big Bill's 26% Grain Balancer..... D 1562	(4-2-58)	Yes	C F	26.00 30.20	4.00 4.16	9.00 6.62					
Big Bill's 20% Laying Mash..... D 1563	(4-2-58)	Yes	C F	20.00 22.05	4.00 4.26	6.00 4.66					
Big Bill's 34% Poultry Concentrate..... D 1564	(4-2-58)	Yes	C F	34.00 34.40	4.50 4.65	7.50 7.07	5.20 4.70	1.60 1.87	0.00068 0.00065	2.90 2.21	
Big Bill's 20% Chick Starter Mash Medicated..... D 1565	(4-2-58)	Yes	C F	20.00 23.15	4.00 4.14	4.50 3.64					
Big Bill's All Purpose Mineral..... D 1566	(4-2-58)	Yes	C F				23.00 22.80	7.00 7.72	0.0400 0.00052	7.50 8.16	8, 6
Big Bill's 40% Hog Supplement..... D 1567	(4-2-58)	Yes	C F	40.00 46.00	4.00 4.48	6.50 3.47					
Big Bill's 35% Pig & Sow Concentrate..... D 1569	(4-2-58)	Yes	C F	35.00 38.80	3.50 3.75	6.25 5.15	4.80 3.80	1.75 1.64	0.0004 0.0009	2.50 2.28	

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 BIG BILL'S FEED STORE, ONSLOW, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Big Bill's Super Pig Starter Medicated D 1568 (4-2-58)	Yes		C	17.00	4.70	3.00					
			F	19.20	4.92	2.40					
Big Bill's 45% Hog Supplement D 1570 (4-2-58)	Yes		C	45.00	4.50	6.00					
			F	46.90	4.45	3.61					
Big Bill's 32% Beef Supplement D 1571 (4-2-58)	Yes		C	32.00	3.00	8.00					
			F	35.75	3.35	7.75					
Big Bill's 32% Super Beef D 1572 (4-2-58)	Yes		C	32.00	1.50	7.00					
			F	35.65	2.59	6.66					
Big Bill's Vy-Mo-Lass Cattle Fattener D 1573 (4-2-58)	Yes		C	13.00	3.00	7.50					3
			F	21.85	1.37	6.65					
Big Bill's Hi-Mo-Lass Beef Builder D 1574 (4-2-58)	Yes		C	10.00	2.50	5.50					3, 4
			F	15.05	1.70	7.98					
Big Bill's 32% Dairy Concentrate D 1575 (4-2-58)	Yes		C	32.00	1.50	6.50	3.00	1.10	0.00054	2.30	
			F	33.05	2.13	5.77	2.70	1.79	0.0013	1.72	

BIG CHIEF STOCK POWDER CO., OMAHA, NEBRASKA

Big Chief Vi-Tum-Ino Pre-Mix Medicated D 5533 (9-23-58)	Yes		C	51.00	2.50	1.50					4
			F	52.25	5.35	2.82					

BIG 4 COOP PROC. ASSN., SHELDON, IOWA

Felco 41% Expeller Type Soybean Oil Meal E 2642 (5-8-58) D 2225 (7-2-58)	Yes		C	41.00	3.50	7.00					
			F	41.55	4.78	6.16					
			F	43.35	4.71	6.22					

Big 4 Co-Op Processing Association 0.0022% D.E.S. Mixture Inc In Expeller Process Soybean Oil Meal..... D 2226 (7-2-58)	Yes	C	41.00	3.50	7.00	.....	.....	.....	.....
		F	43.40	4.20	6.59	.....	.....	.....	.....
Big 4 Co-Op Processing Association 0.0011% D.E.S. Mixture Inc In Expeller Process Soybean Oil Meal..... D 2227 (7-2-58)	Yes	C	41.00	3.50	7.00	.....	.....	.....	.....
		F	43.90	4.80	6.10	.....	.....	.....	.....

**BIG GAIN PRODUCTS, WEST UNION, IOWA**

Big Gain Pig & Sow Ration..... D 165 (12-10-57)	Yes	C	17.00	3.00	5.00	4.00	1.00	.....	.....	4
		F	20.45	2.92	6.18	3.40	1.09	.....	.....	
Big Gain Stock Food..... D 166 (12-10-57)	Yes	C	32.00	2.25	6.00	6.00	1.50	.....	.....	4
		F	34.30	3.13	4.57	7.40	1.89	.....	.....	
Big Gain 26% Poultry Cafeteria..... D 167 (12-10-57)	Yes	C	26.00	2.40	8.00	4.20	1.00	0.0017	2.00	
		F	28.75	3.62	8.40	4.10	1.90	.....	.....	5
D 2366 (11-26-58)		F	27.25	3.69	7.58	5.60	1.24	0.004	2.18	
41% Hog Supplement..... D 168 (12-10-57)	Yes	C	41.00	4.00	4.00	6.60	2.00	.....	.....	2a
		F	40.00	3.97	3.38	5.50	2.19	.....	.....	
D 2360 (11-26-58)		F	41.00	3.76	3.46	.....	.....	.....	.....	
Big Gain 36% Poultry Concentrate..... D 161 (12-10-57)	Yes	C	36.00	2.50	8.00	6.00	1.50	0.0017	2.50	2a, 5
		F	33.40	3.21	7.48	6.70	1.89	.....	.....	2a
D 2364 (11-26-58)		F	33.95	4.10	7.23	.....	.....	.....	.....	
Big Gain 35% Brood Sow Concentrate..... D 162 (12-10-57)	Yes	C	35.00	2.50	7.00	7.00	1.50	0.006	2.50	
		F	35.00	3.57	6.25	6.20	1.81	.....	.....	8
D 2359 (11-26-58)		F	36.60	3.55	5.15	5.90	1.59	0.002	2.18	
Big Gain Special Beef (A) Supplement Medicated..... D 163 (12-10-57)	Yes	C	34.00	1.00	5.50	5.50	1.30	.....	.....	
		F	33.90	2.03	5.00	4.80	1.32	.....	.....	
Big Gain 40% Pork Builder Pellets..... D 164 (12-10-57)	Yes	C	40.00	3.00	5.00	7.00	1.50	.....	.....	
		F	40.35	3.82	4.00	5.20	1.53	.....	.....	
Big Gain Pig & Sow Ration..... D 2369 (11-26-58)	Yes	C	17.00	3.00	5.50	.....	.....	.....	.....	
		F	20.45	2.93	5.81	.....	.....	.....	.....	

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

BIG GAIN PRODUCTS, WEST UNION, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Big Gain Pig Starter-Grower Medicated D 2370 (11-26-58)	Yes		C	17.00	4.00	4.50					
			F	21.20	3.91	3.56					
Big Gain 50% Dairy Balancer D 2371 (11-26-58)	Yes		C	50.00	1.00	7.00					
			F	49.85	2.03	5.26					
Big Gain 40% Pasture Supplement D 2372 (11-26-58)	Yes		C	40.00	3.00	4.50	6.00	1.50	0.0017	2.00	
			F	39.75	5.07	3.25	5.40	1.91	0.0016	2.15	
Rumen Organism Mix Inc. In Special Beef (A) Supplement D 2362 (11-26-58)	Yes		C	34.00	1.00	5.50	5.50	1.30	0.005	2.00	8
			F	35.20	3.50	4.99	4.30	1.47	0.002	1.86	
Big Gain Stock Food D 2358 (11-26-58)	Yes		C	32.00	3.00	5.50	7.00	1.50	0.0017	2.00	
			F	33.25	3.29	5.82	5.40	1.43	0.0017	1.68	
Rumen Organism Mix Inc In Big Gain Spring Pasture 32% Dairy Concentrate D 2363 (11-26-58)	Yes		C	32.00	2.00	6.00	6.00	1.50	0.0017	2.50	5, 7
			F	34.10	2.14	5.81	7.30	1.09	0.002	2.10	
Big Gain 20% Egg Maker D 2365 (11-26-58)	Yes		C	20.00	3.00	7.00					
			F	21.95	3.02	5.92					
Rumen Organism Mix Medicated Inc In Big Gain Beef Builder D 2367 (11-26-58)	Yes		C	32.00	2.50	6.00	6.00	1.20	0.0017	2.50	2, 4
			F	31.50	3.30	6.88	4.60	1.11	0.0016	1.50	
Big Gain Baby Pig Pre Starter Pellets D 169 (12-10-57)	Yes		C	16.00	3.50	2.50					4
			F	18.40	4.18	3.12					
Big Gain 32% Poultry Concentrate D 170 (12-10-57) D 2361 (11-26-58)	Yes		C	32.00	3.50	9.00	5.40	1.50	0.0022	2.50	3
			F	31.85	2.70	7.65	5.30	1.55			
			F	30.70	3.00	8.28	5.30	1.40	0.0015	3.52	

2a, 8, 6, 3



Big Gain 32% Dairy Concentrate Medicated... D 171	Yes		C	32.00	2.00	6.00	6.00	1.50			
			F	32.15	2.16	6.00	6.00	1.53			
Big Gain Mor-Lass Cattle Pellets... D 172	Yes		C	23.00	3.50	7.00	7.00	1.00			
			F	26.05	5.29	5.50	6.10	1.13			

THE BIG JO FLOUR MILLS, DIVISION OF INTERNATIONAL MILLING CO., WASBASHA, MINNESOTA

Big Jo Wheat Standard Middlings. With Ground Mixed Screenings Not Exceeding Mill Run... D 2033	No	Yes	C	15.00	3.00	9.50				
			F	17.05	5.17	8.73				

BLACK HAWK CHEMICAL CO., INC., CEDAR FALLS, IOWA

Anameal 35%... D 3454	Yes		C	35.50	4.50	4.00					4
			F	38.25	4.37	5.50					

BLACKFORD COMPANY, OSKALOOSA, IOWA

Blackford's Big Ten 40% Protein... D 4901	Yes		C	40.00	4.50	7.00					3, 4
			F	41.00	4.12	7.46					
Blackford's Coarse Chop Feed... D 4902	Yes		C	9.50	3.00	8.00					
			F	10.85	4.15	4.91					

BLAIR MILLING & ELEVATOR CO., INC., ATCHISON, KANSAS

Certified Brand 40% Hog Supplement Cubes... D 4451	Yes		C	40.00	2.50	7.50					
			F	40.30	4.63	7.06					
Ajax Brand 16% Dairy Feed... D 4453	No	Yes	C	16.00	2.50	15.00					
			F	18.15	2.95	10.28					
Certified Brand 32% Concentrate (Poultry) Mash... D 4452	Yes		C	32.00	3.00	9.00					3
			F	33.85	2.55	8.06					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
BLAIR MILLING & ELEVATOR CO., INC., ATCHINSON, KANSAS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Certified Brand Kan-D Sweet Hog Supplement Cubes D 4454 (7-17-58)	Yes		C	35.00	2.50	8.00					
			F	35.55	4.24	7.46					
Blair's Certified Brand 18% Laying Mash D 4455 (7-17-58)	Yes		C	18.00	3.00	8.00					
			F	18.50	5.59	8.28					

BLAIRSTOWN FEED MILL, BLAIRSTOWN, IOWA

Lively 26% Egg Balancer D 5038 (7-28-58)	Yes		C	26.00	3.50	8.50					
			F	26.85	5.44	8.40					
Lively 36% Hog Supplement D 5039 (7-28-58)	Yes		C	36.00	3.50	7.50					
			F	37.00	4.67	7.70					
Lively 40% Hog Balancer D 5040 (7-28-58)	Yes		C	40.00	4.00	6.50					
			F	41.00	5.26	7.40					
Lively 18% Chick Grower D 5041 (7-28-58)	Yes		C	18.00	3.75	7.00					
			F	19.05	4.55	5.58					
Lively Booster Feed 30% Sow & Pig Balancer D 5042 (7-28-58)	Yes		C	30.00	2.00	10.00					
			F	33.70	4.19	8.06					
Lively 18% Egg Mash D 5043 (7-28-58)	Yes		C	18.00	4.00	7.00					
			F	19.30	5.00	6.47					

BLATCHFORD CALF MEAL CO., DES MOINES, IOWA

Blatchford's V-D Buff Label.....	Yes	C	31.00	2.00	7.00					
D 1714 (2-20-58)		F	34.50	2.50	6.04					
D 876 (6-27-58)		F	33.10	2.57	6.67					
Blatchford's V-D-Orange Label Medicated.....	Yes	C	31.00	2.00	7.00					
D 1713 (2-20-58)		F	32.00	3.30	6.47					
Blatchford's Grower Swinex Medicated.....	Yes	C	36.00	1.00	7.00					
D 1711 (2-20-58)		F	36.60	2.32	5.63					
Blatchfords' Sulfaquinoxaline & Arsanilic Acid V D Orange Label Pre-Mix.....	Yes	C	31.00	2.00	7.00					
D 1717 (2-20-58)		F	32.90	3.48	6.71					

BLOEMENDAAL HATCHERIES, ALTON & HARTLEY, IOWA

Triple-F 37% Egg Concentrate.....	Yes	C	37.00	3.50	7.50	5.40	1.80	0.0025	2.50	7
D 2194 (11-18-58)		F	37.20	3.53	7.38	5.00	1.45	0.0032	2.19	
Triple-F 22% Layer.....	Yes	C	22.00	3.50	4.50					
D 2195 (11-18-58)		F	23.00	3.86	4.09					

BLUE DIAMOND FEED CO., DES MOINES, IOWA

Blue Diamond 35% Balancer for Swine.....	Yes	C	35.00	3.20	4.40	8.00	2.70	0.0012	1.00	6, 1a
D 8854 (11-28-58)		F	36.70	3.81	4.80	7.80	2.82	0.0013	2.50	

BLUE GRASS FEED MILL, BLUE GRASS, IOWA

Blue Grass 35% Sow & Pig Concentrate.....	Yes	C	35.00	2.50	9.00	4.00	1.10	0.001	3.00	7
D 424 (12-2-57)		F	38.55	3.61	5.91					
E 7210 (3-3-58)		F	35.60	4.23	7.43					
E 7042 (4-23-58)		F	36.45	3.55	7.17	1.90	0.78	0.00136	2.68	
E 7276 (7-1-58)		F	36.40	3.16	7.05					
E 7107 (10-13-58)		F	37.60	3.40	7.56	3.70	1.35	0.0017	2.62	
D 2933 (12-2-58)		F	36.20	2.67	8.21	3.50	1.24	0.0017	2.89	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 BLUE GRASS FEED MILL, BLUE GRASS, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Blue Grass 32% Egg Concentrate.....	Yes		C	32.00	3.50	9.00					
D 425 (12-2-57)			F	36.40	4.28	6.64					
E 7209 (3-3-58)			F	35.00	7.73	7.78					
E 7038 (4-23-58)			F	34.40	4.80	8.05					
E 7277 (7-1-58)			F	33.30	4.65	7.92					
D 2930 (12-2-58)			F	35.30	4.11	8.05					
Blue Grass 36% Dairy Concentrate.....	Yes		C	36.00	1.50	7.00					
D 426 (12-2-57)			F	40.45	2.03	6.36					
E 7212 (3-3-58)			F	40.85	2.16	6.44					
E 7039 (4-23-58)			F	39.80	1.88	7.18					
E 7279 (7-1-58)			F	39.55	2.28	6.98					
E 7111 (10-13-58)			F	40.00	1.86	7.59					4
D 2932 (12-2-58)			F	37.75	2.12	7.76					4
Blue Grass 32% Steer Supplement Medicated.....	Yes		C	32.00	2.00	8.00	3.20	0.90	0.0015	3.00	
D 427 (12-2-57)			F	35.95	1.98	6.86					
E 7211 (3-3-58)			F	34.60	2.29	7.62					
E 7040 (4-23-58)			F	34.10	2.05	8.19					
E 7278 (7-1-58)			F	34.05	2.21	7.51	2.55	0.99	0.0017	2.72	
E 7110 (10-13-58)			F	35.15	2.21	7.71	2.30	1.16	0.0011	2.69	
D 2931 (12-2-58)			F	33.65	2.11	7.95	2.80	1.10	0.0014	2.62	
Blue Grass 26% Egg Balancer.....	Yes		C	26.00	3.50	8.50	4.70	1.30	0.0012	2.00	
D 428 (12-2-57)			F	29.60	4.72	7.01					
E 7206 (3-3-58)			F	29.15	4.20	8.31	3.90	1.38	0.0021	1.55	
E 7043 (4-23-58)			F	28.55	4.25	7.43					
E 7272 (7-1-58)			F	28.70	4.48	7.38					
E 7112 (10-13-58)			F	28.65	4.76	8.56					
D 2934 (12-2-58)			F	28.05	4.83	8.30					
Blue Grass 33% Pig Starter Mix Medicated.....	Yes		C	33.00	1.75	8.50	4.20	1.30	0.002	2.50	
D 429 (12-2-57)			F	35.60	2.81	6.50					
E 7208 (3-3-58)			F	34.20	2.19	7.53	4.10	1.34	0.002	2.14	
E 7041 (4-23-58)			F	35.00	2.73	6.84					4

E 7275	(7-1-58)		F	34.50	2.68	7.06	4.05	1.41	0.002	2.15	
E 7108	(10-13-58)		F	36.40	2.42	7.36					
D 2935	(12-2-58)		F	35.05	2.58	7.61					
Blue Grass 40% Hog Concentrate		Yes	C	40.00	4.00	6.50					
D 430	(12-2-57)		F	40.90	5.36	4.55					
Blue Grass 20% Chick Starter Medicated		Yes	C	20.00	4.00	6.50					
E 7207	(3-3-58)		F	21.55	4.96	5.69					
E 7044	(4-23-58)		F	22.00	4.65	5.46					
Blue Grass 32% Egg Concentrate		Yes	C	32.00	3.00	9.00	5.00	1.50	0.00015	3.00	
E 7109	(10-13-58)		F	34.25	4.44	8.52	4.50	1.69	0.0023	2.62	1a

BLUE RIBBON MINERAL COMPANY, ACKLEY, IOWA

Blue Ribbon Hog Mineral No. 2		Yes	C	12.00	2.00	3.50					
D 4527	(8-14-58)		F	14.05	4.70	4.13					4

BOEKE FEED COMPANY, DES MOINES, IOWA

Bow-Key Key Line 40% Hog		Yes	C	40.00	1.75	5.00					
D 4401	(6-25-58)		F	40.15	3.16	4.62					
Bow-Key Hy-Life Hog Balancer		Yes	C	35.00	1.50	7.50					
D 4402	(6-25-58)		F	36.85	2.18	8.48					4
Bow-Key Hy-Pro Balancer Medicated		Yes	C	35.00	2.00	7.50					
D 4403	(6-25-58)		F	37.15	2.78	7.49					
Bow-Key Key Line Pig & Sow		Yes	C	35.00	2.00	7.50					
D 4404	(6-25-58)		F	36.45	3.50	6.77					
Bow-Key Sweetened Pig Starter		Yes	C	18.00	3.00	3.00					
D 4405	(6-25-58)		F	19.20	3.41	3.30					
Bow-Key 40% Sweet Steer Supplement		Yes	C	40.00	3.00	9.00					
D 4406	(6-25-58)		F	41.30	4.27	8.26					
Bow-Key Breeder Balancer		Yes	C	26.00	2.00	5.50					
D 4407	(6-25-58)		F	26.75	2.94	6.28					4

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
BOEKE FEED COMPANY, DES MOINES, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Bow-Key Key Line Gro "N" Lo. D 4408 (6-25-58)	Yes		C F	20.00 21.10	2.10 2.68	7.50 7.58					
Bow-Key Super Starter D 4409 (6-25-58)	Yes		C F	20.00 22.35	2.75 3.21	5.50 4.73					
Bow-Key Egg Starter D 4410 (6-25-58)	Yes		C F	20.00 19.60	2.50 2.90	7.00 7.59					2, 4
Bow-Key Egg & Breeder D 4411 (6-25-58)	Yes		C F	20.00 22.90	2.50 3.10	7.50 6.21					
Bow-Key Hy Gro Concentrate D 4412 (6-25-58)	Yes		C F	22.00 23.45	2.00 2.96	6.50 6.16					
Bow-Key Hy-Gain Pig Grower Medicated D 4413 (6-25-58)	Yes		C F	16.00 17.75	3.00 3.56	4.50 3.99					
Bow-Key 0.0022% D.E.S. Mix Inc. In Bow-Key Sweet Steer Supplement D 4414 (6-25-58)	Yes		C F	40.00 40.25	3.00 3.99	9.00 8.72					
Bow-Key Key Line Hy-Energy Lay D 4415 (6-25-58)	Yes		C F	16.50 17.25	2.50 3.17	7.00 7.64					4
Bow-Key Key Line Poultry Concentrate D 4416 (6-25-58)	Yes		C F	38.00 38.00	2.00 2.91	6.00 6.00					
Bow-Key Key Line Start & Gro D 4417 (6-25-58)	Yes		F C	20.00 22.25	2.50 3.07	7.50 6.59					
Bow Key Super D.F. for Four Footed Animals #10 D 4418 (6-25-58)	Yes		C F	18.00 19.75	3.00 3.18	8.50 6.75					

Bow-Key 40% Hog Balancer..... D 4419 (6-25-58)	Yes	C	40.00	2.00	5.00					
		F	42.65	2.52	3.66					
Bow-Key Special Poultry Concentrate..... D 4421 (6-25-58)	Yes	C	42.00	2.00	5.00					
		F	43.95	3.05	4.04					
Bow-Key Key Line Pig Start & Gro..... D 4422 (6-25-58)	Yes	C	18.00	3.00	4.50					
		F	22.15	3.53	3.91					
Bow-Key Pig Pre-Starter Medicated..... D 4423 (6-25-58)	Yes	C	20.00	5.00	2.50					3
		F	21.55	4.47	2.41					

L. C. BOLSON COMPANY, DECORAH, IOWA

Bolson's High Test 37% Poultry Concentrate..... D 1502 (2-19-58)	No	Yes	C	37.00	5.00	7.50					
D 4344 (7-2-58)			F	37.05	5.91	6.48					2, 4
D 1388 (10-1-58)			F	36.50	5.18	8.17					2a
D 6399 (11-21-58)			F	35.65	5.33	6.97					2
			F	36.35	5.02	6.83					
Bolson's Full Basket Breeder Egg Ration..... D 1503 (2-19-58)	No		C	20.00	4.00	7.80					
			F	22.70	5.57	6.73					
Bolson's Contented Peep Chick Starter Medicated..... D 1504 (2-19-58)	No		C	20.00	4.50	5.50					
			F	21.45	5.11	5.54					
Bolson's Sleeker Dog Food..... D 1506 (2-19-58)	No	Yes	C	24.00	6.00	3.00					
D 1393 (10-1-58)			F	24.25	5.62	1.75					3
			F	24.85	4.74	3.05					3
Bolson's Calf Starter..... D 1507 (2-19-58)	No		C	16.00	4.50	8.50					
			F	18.45	4.50	6.64					
Bolson's Calf Grower..... D 1508 (2-19-58)	No		C	11.00	4.00	11.00					
			F	16.95	4.76	6.17					
Bolson's 17% Chick Growing Ration Medicated..... D 1509 (2-19-58)	No	Yes	C	17.00	4.00	7.50					
			F	18.05	4.55	8.02					4
Bolson's Hi-Energy Pig Grower..... D 1510 (2-19-58)	No	Yes	C	18.00	4.00	5.00					
			F	20.50	4.95	5.00					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
L. C. BOLSON COMPANY, DECORAH, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Bolson's Calf Weaner Milk Replacer Medicated D 1518 (2-19-58)	No	Yes	C	25.00	5.50	2.00					
			F	25.25	5.74	1.67					
Bolson's Hi-Test Protein Conditioner D 1519 (2-19-58)	No		C	35.00	4.00	9.00					
			F	37.15	4.55	6.16					
Bolson's Hi-Test 37% Pig & Sow Concentrate Medicated	Yes		C	37.00	4.50	7.80					
D 751 (4-29-58)			F	36.70	4.15	7.07					3
D 1391 (10-1-58)			F	35.40	4.99	5.62					2a
D 6400 (11-21-58)			F	37.20	4.17	6.50					3
Bolson's 32% Dairy Concentrate Rumen Organism Mix	Yes		C	32.00	4.00	7.50					
D 752 (4-29-58)			F	37.05	4.01	5.85					
D 1505 (2-19-58)			F	27.15	2.49	6.12					2a, 3
D 1394 (10-1-58)			F	35.75	3.88	6.32					
Bolson's Full Basket Breeder Egg Ration D 4345 (7-2-58)	Yes		C	20.00	4.50	7.50					
			F	22.65	5.08	7.34					
Bolson's 40% Economy Hog Balancer D 753 (5-29-58)	Yes		C	40.00	4.00	6.00					
			F	40.25	4.49	5.15					
Bolson's 26% Grain Balancer D 1389 (10-1-58)	Yes		C	26.00	4.50	7.50					
			F	26.60	5.13	6.34					
Bolson's Full Basket Breeder Egg Ration D 1390 (10-1-58)	Yes		C	20.00	4.20	7.80					
			F	22.60	4.85	7.28					1a
Bolson's Hi-Test Protein Conditioner D 1395 (10-1-58)	Yes		C	35.00	4.00	8.00	5.00	1.10	0.003	4.00	
			F	36.55	3.96	6.52	4.30	1.26	0.0042	3.33	
Bolson's High Test 37% Pig & Sow Concentrate D 1511 (2-19-58)	No		C	37.00	4.50	9.00					
			F	36.60	4.78	6.73					2



Bolson's 26% Grain Balancer.....	No	Yes	C	26.00	4.20	7.80					
D 1512 (2-19-58)			F	26.90	5.58	6.65					
D 4340 (7-2-58)			F	27.25	5.25	6.74					
Bolson's 32% Beef Supplement A.....	No	Yes	C	32.00	4.00	8.50					3
D 1513 (2-19-58)			F	32.55	3.23	6.42					
Bolson's Hi-Energy Pig Starter Medicated.....	No	Yes	C	18.00	4.00	3.80					
D 1514 (2-19-58)			F	19.15	4.90	3.64					
D 1392 (10-1-58)			F	19.45	4.91	3.62					
Bolson's Pig & Sow Ration.....	No		C	20.00	4.00	7.00					4
D 1515 (2-19-58)			F	21.90	4.27	9.10					
Bolson's 40% Economy Hog Balancer.....	No		C	40.00	4.00	6.00					2a
D 1516 (2-19-58)			F	38.80	5.24	5.46					
Bolson's Early Weaner Medicated.....	No		C	24.00	5.00	3.00					
D 1517 (2-19-58)			F	24.70	5.73	1.17					

BOOKEY PACKING CO., DES MOINES, IOWA

Bookey's Meat & Bone Meal.....	Yes		C	53.00	6.00	3.00					
D 5072 (8-6-58)			F	52.40	8.18	2.06					
D 5969 (11-10-58)			F	53.30	11.52	1.51					

BOONE VALLEY COOP PROCESSING ASSN., EAGLE GROVE, IOWA

Coop Open Formula Hog Concentrate—35 Medicated.....	Yes		C	35.00	2.50	9.00	5.50	2.00	0.001	3.00	
D 3463 (6-4-58)			F	36.90	3.42	8.62					
D 4301 (6-23-58)			F	36.55	3.05	9.00	4.00	1.64	0.0014	2.57	7
Coop Open Formula Hog Concentrate—40 Medicated.....	Yes		C	40.00	2.50	6.50					
D 3464 (6-4-58)			F	40.70	4.38	5.91					
D 4302 (6-23-58)			F	42.45	2.72	6.16					
Coop 35% Beef Cattle Supplement.....	Yes		C	35.00	1.00	11.00					
D 3465 (6-4-58)			F	37.40	1.18	6.70					
D 6037 (11-18-58)			F	37.80	1.51	7.21					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
BOONE VALLEY COOP PROCESSING ASSN., EAGLE GROVE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Coop Open Formula Calf Grower Supplement....	Yes		C	24.00	1.50	10.00	2.50	0.75	0.0002	1.50	2a
D 3466 (6-4-58)			F	22.75	2.87	6.27					
D 1245 (7-10-58)			F	27.05	2.58	8.13					
D 6045 (11-18-58)			F	27.75	3.04	7.16	2.50	1.08	0.0018	1.32	
Coop Open Formula Layer Supplement—20 Medicated	Yes		C	20.00	4.00	6.00	4.00	1.00	0.0002	1.00	
D 3467 (6-4-58)			F	22.25	4.93	5.81					
D 6041 (11-18-58)			F	21.35	5.64	5.20	3.60	1.01	0.0010	0.96	
Coop Open Formula Chick Pre-Starter Complete. Medicated	Yes		C	21.00	3.50	5.00					
D 3468 (6-4-58)			F	23.65	3.77	4.64					
Coop Soybean Extracted 44% Protein Soybean Oil Meal	Yes		C	44.00	0.50	7.00					
D 1250 (7-10-58)			F	46.95	0.86	5.15					
Coop 0.0011% D.E.S. Mix Inc In 35% Cattle Feed	Yes		C	35.00	1.00	11.00	2.50	1.00	0.0007	2.00	
D 6036 (11-18-58)			F	35.05	2.06	7.05	2.30	0.95	0.0008	2.24	
Coop 0.0011% D.E.S. Mix Inc In 22% Mor-MLASS	Yes		C	22.00	1.50	10.00					1a, 4
D 6038 (11-18-58)			F	23.10	1.33	11.82					
Coop Open Formula 0.00165% D.E.S. Mix Inc In Pala-Cubes	Yes		C	32.00	0.50	12.00					
D 6039 (11-18-58)			F	34.95	1.06	6.90					
Coop Pala-Cubes	Yes		C	32.00	0.50	12.00					
D 6040 (11-18-58)			F	34.90	0.90	6.66					
Coop 26% Cafeteria Egg	Yes		C	26.00	2.50	10.00					
D 6043 (11-18-58)			F	28.60	4.33	8.90					

Coop Open Formula Dairy Concentrate 32 D 6046 (11-18-58)	Yes	C	32.00	2.50	7.50	2.50	0.70	0.0002	2.50	
		F	35.65	2.43	5.31	2.60	0.97	0.0017	2.24	
Coop Medicated Poultry Boosterettes D 6048 (11-18-58)	Yes	C	18.00	4.00	5.00					
		F	17.75	5.71	3.83					
Coop Pig Concentrate Medicated D 6049 (11-18-58)	Yes	C	40.00	3.00	8.00	5.00	2.00	0.0007	2.50	
		F	41.20	3.09	6.63	3.10	1.18	0.0011	3.48	6, 7
Coop Tasty Mineral Concentrate D 6050 (11-18-58)	Yes	C				27.50	5.50	0.003	15.00	
		F				23.60	6.14	0.003	16.34	6
Coop 0.0022% D.E.S. Mix Inc In Solvent Extracted 44% Protein Soybean Oil Meal D 3810 (3-27-58)	Yes	C	44.00	0.50	7.00					
		F	44.30	0.42	6.40					
Coop Open Formula Complete Pig Starter Medicated D 264 (5-1-58)	Yes	C	18.00	5.00	3.50					
		F	19.60	5.12	2.35					
Coop Open Formula Layer Concentrate—26 Medicated D 3457 (6-4-58)	Yes	C	26.00	5.00	6.50	6.50	1.50	0.0004	1.75	
D 1243 (7-10-58)		F	26.60	5.17	6.99					4
D 6042 (11-18-58)		F	28.60	5.36	6.46					
		F	28.45	5.63	5.62	6.30	1.42	0.0013	1.67	
Coop Open Formula Layer Concentrate—32 Medicated D 3458 (6-4-58)	Yes	C	32.00	5.50	6.50					3
D 1244 (7-10-58)		F	32.70	4.42	5.81					3
		F	33.30	5.14	5.74					
Coop Open Formula Pig Concentrate Medicated D 3459 (6-4-58)	Yes	C	31.00	12.00	5.00	4.50	2.00	0.001	3.00	3
D 1242 (7-10-58)		F	36.40	6.78	3.84					3
D 1246 (7-10-58)		F	36.30	4.86	4.36					3
D 6179 (12-5-58)		F	34.75	9.46	3.64					
		F	33.85	12.50	4.15	4.80	2.02	0.0015	2.87	
Coop Open Formula Chick Starter-Grower Medicated D 3460 (6-4-58)	Yes	C	18.00	3.50	6.00					
D 6044 (11-18-58)		F	21.45	3.50	5.27					
		F	19.55	4.54	4.99					
Coop Open Formula Pig Pre-Starter Complete Medicated D 3461 (6-4-58)	Yes	C	20.00	5.00	3.00					
D 6152 (11-18-58)		F	22.40	4.88	1.91					
		F	21.70	5.58	1.83					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
BOONE VALLEY COOP PROCESSING ASSN., EAGLE GROVE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Coop Open Formula Pig Starter Complete Medicated	Yes		C	18.00	5.00	3.50					3
D 3462 (6-4-58)			F	18.50	4.86	2.17					
D 4173 (7-21-58)			F	19.80	6.12	2.56					
D 6047 (11-18-58)			F	18.15	4.97	2.39					
Coop 34% Sheep Concentrate	Yes		C	34.00	3.50	10.00					
D 6159 (11-18-58)			F	34.05	1.50	7.98					
Coop Open Formula Rabbit Ration	Yes		C	16.00	2.50	15.00					
D 6160 (11-18-58)			F	18.20	3.85	13.89					
Coop Medicated Swine Boosterettes	Yes		C	16.00	4.50	4.00					
D 6154 (11-18-58)			F	18.05	6.31	2.79					
Coop Medicated Cattle Boosterettes	Yes		C	12.00	1.00	15.00					
D 6155 (11-18-58)			F	14.50	1.15	9.38					
BORDEN CO., SPECIAL PRODUCTS DIVISION, NEW YORK, NEW YORK											
Flaydry Poultry Feed Supplement	Yes		C	24.00	1.50	7.00					
D 219 (12-13-57)			F	29.30	2.97	5.90					
Borden's MF-F1 Blend Poultry Feed Supplement	Yes		C	40.00	1.00	6.50					
D 220 (12-13-57)			F	42.45	2.03	4.15					
Bospro Plus	Yes		C	33.00	1.50	8.20					
D 221 (12-13-57)			F	36.00	2.76	5.45					
Special Formula 1581	Yes		C	50.00	2.50	5.50					
D 7132 (11-12-58)			F	50.00	4.67	4.51					

BORDEN'S SOY PROCESSING CO., WATERLOO, IOWA

Borden's 44% Protein Solvent Extracted Soybean Oil Meal..... D 222 (12-13-57)	Yes	C F	44.00 48.10	0.50 0.85	7.00 4.84	.....	.....	.....	.....
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BOWERS FEED, MARSHALLTOWN, IOWA

Bowers Booster 26% Poultry Concentrate..... E 8455 (2-25-58) D 2114 (7-3-58) D 6933 (12-11-58)	Yes	C F F F	26.00 27.15 26.85 26.60	4.00 4.58 4.13 3.53	7.00 9.66 8.39 10.50	.....	.....	.....	.....	4 4 3, 4
Bowers 35% Cattle Feed..... E 8447 (2-25-58) D 2108 (7-3-58) D 6925 (12-11-58)	No	Yes C F F F	35.00 35.00 34.25 34.50	4.00 2.39 2.74 1.81	7.50 8.12 8.48 8.32	.....	.....	.....	.....	2, 4 2, 3, 4
Bowers Booster 20% Pig Starter Medicated..... D 2112 (7-3-58)	Yes	C F	20.00 19.80	3.50 3.72	4.00 5.76	.....	.....	.....	.....	4
Booster Starter..... D 2115 (7-3-58)	Yes	C F	18.00 19.65	4.00 4.08	6.00 5.57	.....	.....	.....	.....	
Bowers Booster 40% Hog Feed Medicated..... 6927 (12-11-58)	Yes	C F	40.00 40.20	4.00 4.06	6.00 6.92	.....	.....	.....	.....	4
Bowers 32% Cattle Concentrate..... D 6929 (12-11-58)	Yes	C F	32.00 34.45	2.50 1.90	6.50 8.56	2.50 2.10	1.50 0.99	0.0002 0.002	1.00 1.11	3, 4, 7
Bowers Booster Fitting Ration Medicated..... D 6930 (12-11-58)	Yes	C F	25.00 27.15	3.00 2.78	6.00 9.64	.....	.....	.....	.....	4
Bowers Booster 18% Pig Starter Medicated..... D 6932 (12-11-58)	Yes	C F	18.00 19.50	3.50 3.76	4.00 3.38	.....	.....	.....	.....	
Bowers Booster Sweetened Hog Feed Medicated..... E 8451 (2-25-58) D 2111 (7-3-58) D 6931 (12-11-58)	Yes	C F F F	28.00 29.90 32.85 32.50	3.50 3.86 4.08 4.22	7.00 6.74 6.03 6.50	.....	.....	.....	.....	
Booster Pig Starter..... E 8452 (2-25-58)	Yes	C F	20.00 23.35	4.00 4.89	7.00 3.87	.....	.....	.....	.....	

COMMERCIAL FEEDS

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## BOWERS FEED, MARSHALLTOWN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Bowers Booster Poultry Concentrate	Yes		C	35.00	4.00	6.00					
E 8453 (2-25-58)			F	35.00	5.37	6.28					
D 2113 (7-3-58)			F	34.60	4.61	9.09					2, 4
D 6934 (12-11-58)			F	31.60	4.37	9.57					2a, 4
Booster Grower	Yes		C	17.00	4.50	7.00					
E 8454 (2-25-58)			F	19.55	4.13	5.86					3
Bowers Booster 40% Cattle Balancer	Yes		C	40.00	2.00	7.00					
E 8446 (2-25-58)			F	40.75	3.09	7.74					4
D 2106 (7-3-58)			F	40.40	3.02	7.17					
Bowers Booster 33% Dairy Feed	Yes		C	33.00	3.50	7.50					
E 8448 (2-25-58)			F	35.80	2.33	7.16					
D 2107 (7-3-58)			F	34.15	2.50	9.49					3, 4
D 6926 (12-11-58)			F	34.55	1.66	8.56					3, 4
Bowers Booster 40% Hog Feed	Yes		C	40.00	4.00	6.00					
E 8449 (2-25-58)			F	41.75	4.15	5.81					
D 2109 (7-3-58)			F	35.65	3.96	7.02					2a, 4
Bowers Booster 35% Pig & Sow Medicated	Yes		C	35.00	3.00	8.00					
E 8450 (2-25-58)			F	35.70	5.30	6.27					
D 2110 (7-3-58)			F	34.25	3.64	9.26					2, 4
D 6928 (12-11-58)			F	36.35	4.29	8.00					

## BRINKERT FEED COMPANY, HARTLEY, IOWA

Brinkert Booster Feeds 32% Sow & Pig Supplement	Yes		C	32.00	2.00	10.10					
D 2264 (7-14-58)			F	33.45	5.00	10.06					

Brinkert Booster Feeds 32% Sow & Pig Supplement D 2193 (11-14-58)	Yes	C	32.00	3.00	9.00	4.00	2.00	0.0002	2.50	
		F	34.30	4.28	8.67	3.90	1.92	0.0023	2.59	
Brinkert Booster Feeds Dry Lot Hog Supplement Medicated D 2265 (7-14-58)	Yes	C	35.00	1.90	8.20					
		F	35.00	3.02	7.25					
Brinkert Booster Feeds 40% Hog Protein Supplement Medicated D 2266 (7-14-58)	Yes	C	40.00	2.00	6.00					4
		F	40.00	3.17	8.00					
Brinkert Booster Feeds 0.0011% D.E.S. Mix Inc. In Rumens Booster D 2267 (7-14-58)	Yes	C	34.00	1.70	8.50					
		F	34.90	2.84	7.54					
Brinkert Booster Feeds 0.0022% D.E.S. Mix Inc. In Rumens Booster D 2268 (7-14-58)	Yes	C	45.00	1.10	8.00					4
		F	44.85	2.31	8.52					
Brinkert Booster Feeds Pig Starter and Grower Supplement Medicated D 2269 (7-14-58)	Yes	C	36.00	1.50	4.50					4
		F	36.65	2.53	5.35					
Brinkert Booster Feeds 36% Poultry Pre-Mix Medicated D 2270 (7-14-58)	Yes	C	36.00	3.50	6.50					4
		F	39.10	3.40	7.15					
Brinkert Booster Feeds 40% Dairy Concentrate D 2271 (7-14-58)	Yes	C	40.00	1.50	9.50					
		F	41.75	2.11	6.75					
Brinkert Booster Feeds 27% Poultry Balancer Medicated D 2272 (7-14-58)	Yes	C	27.00	3.50	6.50					
		F	28.55	3.92	5.96					

BRUCE MILLING CO., INC., KANSAS CITY, KANSAS

Select 60% Menhaden Fish Meal D 1807 (11-27-57)	Yes	C	60.00	5.00	1.00					
		F	60.25	6.45	0.49					
Select 60% Digester Tankage D 1100 (5-8-58)	Yes	C	60.00	6.00	3.00					
		F	61.50	8.77	1.79					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
BURT COOPERATIVE ELEVATOR, BURT, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco 20% Layer-Breeder..... D 1307 (12-26-57)	Yes		C F	20.00 25.30	2.00 4.57	8.00 7.56	5.00 3.00	1.00 1.22	0.0007 0.00122	2.00 1.20	

C & S FARM STORE, WINTHROP, IOWA

35% C & S Hog Balancer..... D 4502 (8-4-58)	Yes		C F	35.00 37.30	1.50 4.37	8.00 8.00					
34% C & S Pig & Sow Balancer..... D 4503 (8-4-58)	Yes		C F	34.00 36.40	2.00 3.63	9.50 9.70					
18% C & S Baby Pig..... D 4504 (8-4-58)	Yes		C F	18.00 18.40	3.00 3.28	3.00 2.26					
16% C & S Pig Grower..... D 4505 (8-4-58)	Yes		C F	16.00 17.80	3.00 4.15	4.00 3.23					
24% C & S Pig Grower..... D 4506 (8-4-58)	Yes		C F	24.00 25.40	2.50 2.84	6.00 4.40					
34% C & S Dairy Concentrate..... D 4507 (8-4-58)	Yes		C F	34.00 36.50	1.00 3.38	8.50 8.82					
36% C & S Mash Concentrate..... D 4508 (8-4-58)	Yes		C F	36.00 37.20	2.50 4.71	7.00 7.07					
18% C & S Chick Grower..... D 4509 (8-4-58)	Yes		C F	18.00 20.40	3.00 4.19	6.50 5.80					
28% C & S Free Choice Balancer..... D 4510 (8-4-58)	Yes		C F	28.00 28.00	3.00 3.93	7.00 6.68					



CALCIUM CARBONATE CO., OMAHA, NEBR.

Three C Brand Feeding Limestone..... D 1432	(12-5-57)	Yes	C F				40.00 36.80				
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CARGILL INCORPORATED, MINNEAPOLIS, MINNESOTA

Cargill 0.0022% Diethylstilbestrol Mix Inc. In 34% Solvent Extracted Linseed Oil Meal	(3-17-58)	Yes	C F F	34.00 35.05 35.70	0.50 2.10 1.65	10.00 8.86 8.85					
D 1941	(5-8-58)										
D 3793											
Cargill Inc. 44% Protein Solvent Extracted Soybean Oil Meal.....	(5-8-58)	Yes	C F F F	44.00 44.40 45.00 44.50	0.50 1.06 0.97 1.83	7.00 5.60 5.17 6.39					
D 3791	(7-16-58)										
D 4295	(10-8-58)										
D 4245											
Cargill Inc. 34% Protein Solvent Extracted Linseed Oil Meal.....	(5-9-58)	Yes	C F F F F	34.00 34.00 37.50 34.90 36.45	0.50 1.50 2.38 1.35 1.63	10.00 9.90 8.65 9.69 8.75					
E 2648	(6-5-58)										
D 2428	(7-3-58)										
D 4257	(11-4-58)										
D 6026											

CARPENTER ELEVATOR, CARPENTER, IOWA

Our Own 22% Layer.....	(12-6-57)	Yes	C F	22.00 22.85	3.50 4.50	4.50 4.30					
E 7832											
Our Own Hog Supplement.....	(12-6-57)	Yes	C F	35.70 35.95	1.72 4.45	8.43 7.90					
E 7833											
Our Own Hog Supplement.....	(12-6-57)	Yes	C F	40.00 40.25	4.05 5.19	6.60 6.17					
E 7834											

CARPENTERS FEED STORE, BROOKLYN, IOWA

Carp's Hi-Val-U Livestock Mineral Feed..... D 5115	(8-28-58)	Yes	C F				24.00 20.60	6.50 9.50	0.015 0.0034	8.50 7.16	8
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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
CARPENTERS FEED STORE, BROOKLYN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Carp's Hi-Val-U 40% Hog Concentrate..... D 5116 (8-28-58) D 5157 (11-3-58)	Yes		C F F	40.00 40.95 39.30	3.50 6.19 5.68	7.50 6.52 6.94	6.00 4.60	1.50 2.13	0.0002 0.0008	2.00 2.50	6, 1a 2
Carp's Hi-Val-U 36% Dairy Concentrate..... D 5117 (8-28-58)	Yes		C F	36.00 33.90	2.00 3.08	6.50 7.18	5.50 5.40	1.30 2.05	0.006 0.0013	4.00 4.10	2a, 4, 8
Carp's Hi-Val-U 34% Poultry Concentrate..... D 5118 (8-28-58)	Yes		C F	34.00 33.90	3.50 5.55	8.50 7.80	6.50 5.90	1.60 1.93	0.0004 0.001	2.50 0.47	1a
Carp's Hi-Val-U 34% Poultry Concentrate..... D 5156 (11-3-58)	Yes		C F	34.00 34.05	3.00 5.58	9.00 7.43	6.50 5.30	1.60 1.32	0.0004 0.0014	2.50 2.00	
CARROLL GRAIN & PLUMBING, CARROLL, IOWA											
Best Yet Swine Supplement..... D 4296 (7-16-58)	Yes		C F	39.00 42.00	4.00 3.62	6.50 4.68	6.00 3.80	3.75 3.54	0.0005 0.0015	3.00 3.00	3
Best Yet Hog Supplement..... D 4297 (7-16-58)	Yes		C F	40.00 41.40	2.00 2.97	6.00 5.56					
Best Yet Beef Concentrate with 0.0022% D.E.S. D 4299 (7-16-58)	Yes		C F	48.00 49.75	1.20 2.37	8.50 7.58					
CARROLL RENDERING WORKS, CARROLL, IOWA											
C.R.C. Dry Rendered Meat Meal 55%..... D 1913 (1-16-58) D 6014 (10-29-58)	Yes		C F F	55.00 55.90 56.85	6.00 9.04 9.83	3.00 1.20 1.00					

CARROLL ROLLER MILLS, CARROLL, IOWA

Starting Mash Medicated..... D 4201 (9-30-58)	Yes	C F	18.00 19.35	3.00 4.74	6.00 5.86				
Carroll Rabbit Pellets ..... D 4202 (9-30-58)	Yes	C F	14.00 16.90	3.00 3.80	12.00 7.82				
32% Cattle Supplement..... D 4203 (9-30-58)	Yes	C F	32.00 33.85	2.50 2.46	10.00 8.80	3.60 2.20	0.60 0.92	0.0002 0.0002	1.50 1.30
Carroll Developer Scratch..... D 4205 (9-30-58)	Yes	C F	9.50 10.30	2.50 2.97	4.00 1.54				
32% Mash Maker..... D 4206 (9-30-58)	Yes	C F	32.00 34.85	4.00 4.55	9.00 7.58	8.00 5.50	0.50 1.37	0.0002 0.0004	3.00 3.25
Poultry Fattening Mash..... D 4207 (9-30-58)	Yes	C F	14.20 15.40	4.00 4.38	5.00 3.82				
Carroll Quality Dog Food..... D 4208 (9-30-58)	Yes	C F	21.00 24.00	4.00 5.94	7.00 4.05				
Carroll Calf Meal..... D 4209 (9-30-58)	Yes	C F	23.40 23.60	4.00 3.99	7.20 7.30				
Growing Mash Medicated..... D 4210 (9-30-58)	Yes	C F	16.00 17.40	3.00 3.90	6.00 5.08				
20% Laying Mash..... D 4211 (9-30-58)	Yes	C F	20.00 21.70	3.10 3.94	6.80 5.83				
Carroll 26% Poultry Supplement Medicated..... D 4212 (9-30-58)	Yes	C F	26.00 27.50	3.00 4.25	8.50 8.06				
D 4217 (9-30-58)		F	27.05	4.35	8.11				
Carroll Pig & Sow Meal Medicated..... D 4213 (9-30-58)	Yes	C F	26.00 28.55	4.10 4.32	7.00 6.53				
Carroll 40% Hog Balancer Medicated..... D 4215 (9-30-58)	Yes	C F	40.00 41.70	4.00 5.27	6.00 4.80	6.30 5.30	0.50 1.11	0.00017 0.0004	2.50 2.48
Carroll Pig Starter..... D 4204 (9-30-58)	No	C F	19.00 19.40	3.00 4.08	7.00 4.23				
Carroll Complete Hog Feed Medicated..... D 4214 (9-30-58)	No	C F	16.00 14.95	3.00 3.88	8.00 6.36				

2a

COMMERCIAL FEEDS

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

CARROLL SALES CO., MASON CITY, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Carroll Pride-Rolled Oats..... D 2034 (8-21-58)	Yes		C F	15.00 18.05	5.00 5.86	3.00 2.20					

CARROLLTON PROCESSING CO., INC., CARROLLTON, MISSOURI

17% Dehydrated Alfalfa Meal..... D 2443 (6-23-58) D 6668 (11-21-58)	No	Yes	C F F	17.00 17.75 17.05	1.50 2.37 2.93	27.00 25.64 25.51					
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CENTRAL IOWA MILLING CO., BAGLEY, IOWA

Power Lass Bovine and Swine Mineral..... D 3681 (3-19-58)	Yes		C F				21.00 21.10	4.00 3.92	0.0265 0.022	10.00 10.00	
Power Lass Growing Hen Scratch Grains..... D 3692 (3-19-58) D 5613 (12-2-58)	Yes		C F F	8.50 9.50 9.30	2.00 3.35 3.06	2.50 1.70 1.60					
Power Lass Chick Scratch Grains..... D 3693 (3-19-58)	Yes		C F	9.00 9.95	2.00 3.15	3.00 1.50					
Power Lass Super Pig Starter Medicated..... D 3683 (3-19-58)	Yes		C F	18.00 19.40	4.50 4.20	4.00 3.59					
Power Lass 32% Poultry Concentrate..... D 3684 (3-19-58) D 1879 (4-4-58)	Yes		C F F	32.00 32.05 32.05	3.00 3.45 3.65	8.00 7.48 7.89	5.00 4.60 4.40	1.60 1.81 1.57	0.00068 0.0014 0.00084	2.00 2.73 2.71	6 6
Power Lass 20% Calf Starter..... D 3686 (3-19-58)	Yes		C F	20.00 20.45	2.50 2.90	5.50 4.76					

Power Lass Show Sweet D 3687	(3-19-58)	Yes	C F	12.00 14.15	2.50 2.65	5.50 4.25					
Power Lass Silage Booster Supplement D 3688	(3-19-58)	Yes	C F	24.00 24.95	1.00 1.00	11.00 11.15					
Power Lass-Power Lass 12% Heavy D 3689	(3-19-58)	Yes	C F	12.00 12.10	0.50 0.50	11.00 11.24					
Power Lass Big Three Supplement D 3690 D 1873	(3-19-58) (4-4-58)	Yes	C F F	23.00 19.00 23.65	1.00 0.50 0.85	10.00 11.15 9.92					2a, 3, 4
Power Lass Linheavy Supplement D 3691 D 1878	(3-19-58) (4-4-58)	Yes	C F F	21.00 21.00 21.15	1.00 1.22 0.60	10.00 10.65 10.39					4 3
Power Lass 26% Hi Pro Grain Balancer D 3678 D 1876	(3-19-58) (4-4-58)	Yes	C F F	26.00 26.35 24.60	3.00 3.25 3.37	7.00 6.97 7.25	4.50 3.90	1.20 1.34	0.00040 0.0006	1.50 2.08	6 2a
Power Lass 35% Pig & Sow Concentrate D 3679	(3-19-58)	Yes	C F	35.00 35.20	3.50 3.50	7.00 6.21	3.25 2.70	1.40 1.35	0.0005 0.00133	2.00 2.52	6
Power Lass Super Pig & Sow Concentrate Medicated D 3680	(3-19-58)	Yes	C F	35.00 35.80	3.50 3.55	7.00 6.16					
Power Lass 40% Hog Concentrate D 3682 D 1877	(3-19-58) (4-4-58)	Yes	C F F	40.10 37.05 38.70	2.50 2.65 2.89	7.00 6.36 6.69	5.00 3.40	1.20 0.97	0.00068 0.0014	2.50 2.54	2a 2
Power Feeding Rolled Oats D 262 D 643	(3-10-58) (4-3-58)	Yes	C F F	16.00 16.80 18.15	5.50 6.51 5.88	2.50 2.02 2.25					
Oat Mill By-Product D 263	(3-10-58)	Yes	C F	3.00 4.15	0.50 1.22	30.00 30.35					
Power Lass Power Lass D.E.S. Mixture Inc. In Big Three Supplement D 3676	(3-19-58)	Yes	C F	23.00 24.55	1.00 1.00	10.00 8.63					
Power Lass Nitrophenide Mixture Inc. In 18% Super Starter D 3677	(3-19-58)	Yes	C F	18.00 17.90	3.50 3.60	5.50 5.21					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
CENTRAL IOWA RENDERING PLANT, MARSHALLTOWN, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Tankage	Yes		C	55.00	6.00	4.00	.....	.....	.....	.....	
D 2105 (7-3-58)			F	57.80	10.85	1.37	.....	.....	.....	.....	
D 6935 (12-11-58)			F	59.70	11.55	1.22	.....	.....	.....	.....	

CEROPHYL LABORATORIES INC., DIV. OF AGRI-TECH-INC., KANSAS CITY, MISSOURI

Agri-Tech Dehydrated Alfalfa Meal	Yes		C	17.00	1.50	27.00	.....	.....	.....	.....	
D 2444 (6-24-58)			F	18.35	3.19	23.38	.....	.....	.....	.....	

CHAPIN FEED MILL, CHAPIN, IOWA

Rolled Oats	Yes		C	16.00	6.00	3.00	.....	.....	.....	.....	
D 3482 (6-25-58)			F	19.35	6.13	2.74	.....	.....	.....	.....	
0.0022% D.E.S. Mixture Inc. In Iowa Maid Steer Fattener	Yes		C	30.00	0.20	22.00	.....	.....	.....	.....	
D 3483 (4-25-58)			F	30.55	0.85	18.84	.....	.....	.....	.....	

CHESTER FEED MILL, CHESTER, IOWA

Murphy's Vig-O-Ray All Mash Laying Ration	Yes		C	15.00	3.00	7.00	.....	.....	.....	.....	
E 7864 (12-18-57)			F	16.25	4.03	6.04	.....	.....	.....	.....	
D 1362 (7-1-58)			F	15.30	4.98	6.23	.....	.....	.....	.....	
Murphy's Vig-O-Ray Laying Mash	Yes		C	18.00	3.00	8.00	.....	.....	.....	.....	
E 7865 (12-18-57)			F	19.50	3.95	7.43	.....	.....	.....	.....	
D 1361 (7-1-58)			F	19.95	3.43	7.35	.....	.....	.....	.....	

Murphy's Cut-Cost 40% Hog Balancer..... E 7867 (12-18-57) D 1360 (7-1-58)	Yes	C F F	40.00 40.20 40.40	2.00 5.35 5.14	8.00 7.66 8.64					4
Murphy's Cut Cost Creep Feed for Pigs..... E 7868 (12-18-57)	Yes	C F	16.00 17.75	2.50 4.68	6.00 5.07					
Murphy's Cut-Cost 35% Dairy Balancer..... E 7866 (12-18-57)	Yes	C F	35.00 35.40	2.00 2.93	9.00 7.67	3.00 1.50	1.00 1.28	0.004 0.0033	3.00 2.03	
Murphy's Vig-O-Ray Growing Mash..... D 1359 (7-1-58)	Yes	C F	16.00 18.60	3.00 3.74	8.00 6.14					

### CHIEFTAIN FEEDS, CHEROKEE, IOWA

Chieftain Hi-Bi 18% Pig Starter Medicated..... D 2229 (7-7-58)	Yes	C F	18.00 20.05	3.00 4.67	3.50 3.24					
Chieftain 18% Pig Starter..... D 2228 (7-7-58)	Yes	C F	18.00 21.50	3.00 4.34	3.50 3.33					
Chieftain 40% Hog Supplement..... D 2230 (7-7-58)	Yes	C F	40.00 42.55	2.50 2.64	8.00 6.82					
Chieftain 35% Dry Lot Supplement..... D 2232 (7-7-58)	Yes	C F	35.00 36.95	1.50 2.35	8.00 7.54					
Chieftain 35% Pig & Sow Supplement..... D 2233 (7-7-58)	Yes	C F	35.00 35.45	1.50 3.60	8.00 7.73					

### CITY MILLS, GUTHRIE CENTER, IOWA

Hi Quality 26% Poultry Supplement..... D 30 (6-24-58)	Yes	C F	25.00 30.30	3.70 4.61	8.00 8.00					
Hi Quality Pig Mix..... D 31 (6-24-58)	Yes	C F	16.80 19.20	4.40 4.52	4.40 4.84					4
Hi Quality 40% Hog Balancer..... D 32 (6-24-58)	Yes	C F	40.00 41.40	4.50 6.20	5.00 4.55					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 CITY MILLS, GUTHRIE CENTER, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Improved Chick-O-Starting Mash Medicated D 36 (6-24-58)	Yes		C	18.00	4.00	6.30					
			F	21.55	4.36	5.72					
Superfortified 35% "Hi Quality" Hog Supplement Medicated D 33 (6-24-58)	Yes		C	35.00	4.50	6.50					
			F	39.20	6.26	5.94					
Super Quality Baby Pig Starter D 29 (6-24-58)	Yes		C	18.00	4.40	2.80					
			F	22.25	6.17	2.69					

CLARION FARMERS ELEVATOR COOP, CLARION, IOWA

Felco Special Hog Balancer D 1197 (5-15-58)	Yes		C	40.00	1.50	9.00					
			F	41.75	3.57	7.01					
Felco Special Dry Lot Hog Supplement D 1198 (5-15-58)	Yes		C	35.00	1.50	9.00					
			F	36.95	4.00	8.98					
Felco Mash Builder D 1199 (5-15-58)	Yes		C	38.00	3.00	8.00					
			F	40.60	5.52	6.40					
Felco Dairy Supplement D 1200 (5-15-58)	Yes		C	35.00	0.50	8.00					
			F	37.70	1.45	7.04					
Felco Sow Supplement D 3451 (5-15-58) D 1239 (7-10-58)	Yes		C	32.00	2.00	9.00					
			F	33.50	4.10	9.51					4
			F	33.70	3.75	9.92					4
Felco Starting Mash Medicated D 3452 (5-15-58)	Yes		C	20.00	2.00	7.00					
			F	23.05	4.10	5.87					
Felco 26% No Grain Layer-Breeder D 3453 (5-15-58)	Yes		C	26.00	2.00	9.00					
			F	27.90	4.17	7.76					



CLARKE COUNTY GRAIN CO., OSCEOLA, IOWA

Nutri-Mix Egg Mash D 5243	(8-13-58)	Yes	C	16.00	4.00	7.50					
			F	17.90	4.40	7.03					
Nutri-Mix Dairy Ration D 5244	(8-13-58)	Yes	C	16.00	2.50	10.50					
			F	18.45	3.78	7.42					

DR. CLARNO PRODUCTS CO., WATERLOO, IOWA

Dr. Clarno's Mineral for Hogs D 2376	(11-28-58)	Yes	C				23.00	5.00	0.005	5.00	1a
			F				21.20	5.22	0.005	5.21	
Dr. Clarno's Mineral for Hogs D 212	(12-13-57)	Yes	C				23.00	6.00	0.05	5.00	6, 8
			F				19.80	6.52	0.032	7.30	
Dr. Clarno's Mineral for Cattle & Sheep D 213	(12-13-57)	Yes	C				24.00	6.50	0.05	5.00	5
			F				24.70	7.18	0.047	4.05	
Dr. Clarno's Phenothiazine Cattle Wormer D 196	(12-13-57)	Yes	C						0.0725	90.00	8
			F						0.013	88.00	
Dr. Clarno's Calf Formula Medicated D 2375		Yes	C	30.00	6.00	3.00					
			F	30.00	6.41	2.63					

CLAUSEN DISTRIBUTING CO., SIOUX CITY, IOWA

Economy Special Excell Mix for Hogs D 7543	(12-12-58)	Yes	C	32.00	5.00	6.00	8.75	3.00	0.0030	5.00	3, 7
			F	35.00	4.47	5.23	6.20	1.73	0.005	2.92	

CLERMONT CO-OP CO., CLERMONT, IOWA

Felco Special Hog Balancer D 83	(12-6-57)	Yes	C	40.00	1.50	9.00					
			F	43.70	2.01	7.34					
Felco 20% Layer-Breeder D 84	(12-6-57)	Yes	C	20.00	2.00	8.00					
			F	24.95	3.68	6.31					
Felco Pig Grower D 85	(12-6-57)	Yes	C	16.00	2.00	6.00					
			F	18.70	3.70	4.56					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
CLERMONT CO-OP CO., CLERMONT, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Pig Starter..... D 86 (12-6-57)	Yes		C	18.00	3.00	5.00					
			F	22.05	3.94	3.98					
Felco Sow Supplement..... D 79 (12-6-57)	Yes		C	32.00	2.00	9.00					
			F	34.95	4.54	8.85					
Felco Special Dry Lot Supplement..... D 80 (12-6-57)	Yes		C	35.00	1.50	9.00					
			F	37.00	4.09	8.24					
Felco 26% No Grain Layer-Breeder..... D 81 (12-6-57)	Yes		C	26.00	2.00	9.00					
			F	29.35	3.02	8.43					
Felco Mash Builder..... D 82 (12-6-57)	Yes		C	38.00	3.00	8.00					
			F	39.20	5.16	5.13					
Felco Dairy Supplement..... D 87 (12-6-57)	Yes		C	35.00	0.50	8.00					
			F	38.20	1.07	6.61					
Felco Beef Supplement..... D 88 (12-6-57)	Yes		C	35.00	0.50	9.00					
			F	37.00	1.25	8.98					
Felco Sweet Creep..... D 89 (12-6-57)	Yes		C	18.00	2.00	5.00					
			F	20.50	4.08	2.58					

CLIMAX GRAIN & FEED CO., ROLFE, IOWA

Climax Pig & Sow Meal..... D 964 (7-31-58)	Yes		C	30.00	5.00	7.50	4.00	1.20		2.00	
D 968 (7-31-58)			F	31.30	3.36	7.75	3.00	1.20		2.18	3
			F	30.60	4.33	7.11	2.20	1.20		2.30	3
Climax Hog Concentrate Pellets..... D 965 (7-31-58)	Yes		C	35.00	5.00	7.50	4.50	1.50		2.50	
			F	35.40	3.02	7.63	2.90	1.06		1.93	3, 7

Climax 32% Dairy Supplement D 966 (7-31-58)	Yes	C	32.00	4.50	8.00	4.00	1.20	2.50	2a, 3, 4, 6
		F	28.50	2.34	10.00	3.80	1.30	3.25	
Climax Pig Meal Creep Feed D 967 (7-31-58)	Yes	C	16.00	4.00	4.50	3.00	1.20	2.00	7
		F	17.00	4.44	4.37	2.00	0.73	2.00	
Climax Hog Concentrate D 969 (7-31-58)	Yes	C	40.00	5.50	5.50	5.50	1.50	2.20	3, 6
		F	41.25	4.09	5.35	4.40	1.50	2.83	
Climax Hog Concentrate D 960 (7-31-58)	Yes	C	35.00	5.00	7.50	4.50	1.50	2.50	2a, 3, 6
		F	33.65	4.13	6.38	3.30	1.30	3.10	
Climax Grain Balancer Crumbles D 961 (7-31-58)	Yes	C	26.00	4.50	8.00	4.00	1.50	2.00	3
		F	27.15	3.81	7.78	4.00	1.30	2.23	
Climax Chick Grower Mash D 962 (7-31-58)	Yes	C	18.00	4.50	7.00				
		F	19.20	4.75	5.97				
Climax Chick Starter D 953 (7-31-58)	Yes	C	20.00	4.50	7.00				
		F	20.70	4.47	5.97				
Climax Starter & Developer "Chick Granules" D 956 (7-31-58)	Yes	C	18.00	4.50	7.00				4
		F	18.00	4.48	7.65				
Climax Poultry Concentrate D 957 (7-31-58)	Yes	C	34.00	5.00	7.00	4.50	1.50	2.00	
		F	34.20	5.72	6.04	3.80	1.50	2.06	
Climax Grain Balancer Mash D 958 (7-31-58)	Yes	C	26.00	4.50	8.00	4.00	1.50	2.00	
		F	27.35	4.32	7.27	3.70	1.50	2.00	
Climax Pre-Creep Pig Feed with Sugar D 959 (7-31-58)	Yes	C	16.00	5.00	4.00	2.50	1.00	1.00	2
		F	15.45	5.93	1.30	2.40	1.00	0.61	

CLINTON CORN PROCESSING CO., CLINTON, IOWA

Clinton C.F.S. Concentrate #3 E 9701 (12-8-57)	Yes	C	25.00	1.00	9.00				
		F	26.35	1.45	8.20				
Clinton 41% Protein Corn Gluten Meal E 9702 (12-8-57)	Yes	C	41.00	1.00	6.00				
		F	43.65	2.01	2.35				
Clinton 21% Protein Corn Gluten Feed E 9703 (12-8-57)	Yes	C	21.00	1.00	10.00				
		F	22.65	1.53	7.99				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
CLINTON CORN PROCESSING CO., CLINTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Clinton 16% Protein Sweetened Corn Gluten Feed E 9704 (12-8-57)	Yes		C F	16.00 22.50	1.00 2.13	10.00 8.70					
Clinton 20% Protein Solvent Extracted Corn Oil Meal E 9705 (12-8-57)	Yes		C F	20.00 22.30	1.00 2.69	13.00 10.18					
Dex-Mo-Lass E 9706 (12-8-57) D 2219 (6-27-58)	Yes		C F F	12.00 13.10 12.60	0.20 0.80 2.52	6.00 4.70 4.72					

CLOVER LEAF PRODUCTS, INC., BELLE PLAINE, IOWA

Clover Leaf "Special" Hog Supplement And Grain Balancer Medicated D 2746 (5-29-58)	No	Yes	C F	38.00 38.00	5.00 5.00	6.25 7.06					
Clover Leaf 41% Hog Supplement Medicated D 2747 (5-29-58)	No	Yes	C F	41.00 42.00	5.00 5.62	6.50 7.23					4
Clover Leaf 38% Cattle Supplement D 2748 (5-29-58)	No	Yes	C F	38.00 38.70	3.00 3.01	6.25 6.81					4
Clover Leaf Pig Grower Medicated D 2749 (5-29-58)	No	Yes	C F	16.00 18.45	3.90 4.75	4.00 2.50					
Clover Leaf 28% Laying Mash D 2750 (5-29-58)	No	Yes	C F	28.00 30.05	4.00 4.16	7.25 7.25					
Clover Leaf Hog Concentrate Medicated D 2053 (5-29-58)	No	Yes	C F	37.50 39.80	3.25 4.33	4.70 5.85					4

Clover Leaf 34% Concentrate for Poultry D 2052 (5-29-58)	No	Yes	C	34.00	3.42	7.25					
			F	35.65	4.45	6.32					
Clover Leaf "57-A" Pig Starter Medicated D 2054 (5-29-58)	No	Yes	C	16.00	3.50	4.15					
			F	17.40	4.71	2.26					
Clover Leaf Yeast Culture D 2055 (5-29-58)	Yes		C	10.00	3.50	4.00					
			F	11.55	3.92	3.31					
Clover Leaf Nitrofurazone Mix Inc. In 20% Chick Starter D 2056 (5-29-58)	No	Yes	C	20.00	3.25	7.50					
			F	22.85	4.76	6.13					

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COLE RENDERING WORKS, WATERLOO, IOWA

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Cole's Meat & Bone Meal D 4522 (8-13-58)	Yes		C	55.00	6.00	2.00					
			F	56.00	12.61	1.17					

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COLFAX FEED MILL, COLFAX, IOWA

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Turn Rite 36% Pig Pusher Supplement D 5069 (8-6-58)	No	Yes	C	36.00	4.00	9.00	4.90	2.30	0.004	1.70	5, 6
			F	36.50	5.22	8.35	5.40	2.20	0.0047	3.30	
Turn Rite 40% Hog Supplement D 5068 (8-6-58)	No	Yes	C	40.00	3.00	8.50	3.20	1.50	0.0019	2.20	5, 6
			F	40.40	4.97	6.74	4.00	1.63	0.0018	2.64	
Turn Rite All Mash High Energy Breeder Medicated D 5067 (8-6-58)	No	Yes	C	16.00	3.50	6.00					
			F	16.00	4.13	6.20					
Turn Rite 26% Grain Balancer Medicated D 5063 (8-6-58)	No	Yes	C	26.00	3.00	8.50					
			F	27.75	4.24	8.15					
Turn Rite 20% Chick Starter Medicated D 5065 (8-6-58)	No	Yes	C	20.00	3.50	6.50					
			F	20.25	4.07	6.45					
Turn Rite 18% Growing Mash Medicated D 5064 (8-6-58)	No	Yes	C	18.00	3.00	7.00					
			F	19.80	4.23	6.63					
Turn Rite Pig Pusher D 5066 (8-6-58)	No	Yes	C	16.00	3.00	5.50					
			F	17.10	4.16	4.36					

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 COLORADO MILLING & ELEVATOR CO., DENVER, COLORADO

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wheat Bran.....	Yes		C	14.50	3.50	11.00					
D 3811 (3-27-58)		F	17.70	4.58	10.05						
D 2429 (6-6-58)		F	15.40	4.22	9.98						
D 4070 (7-9-58)		F	16.10	4.46	10.96						
D 973 (7-31-58)		F	15.65	4.73	12.00						
D 4170 (7-21-58)		F	17.05	4.70	9.59					4	
D 4139 (9-30-58)		F	16.30	4.52	11.52						
D 7131 (11-12-58)		F	15.95	5.05	10.29					4	
Wheat Gray Shorts & Screenings.....	Yes		C	16.00	3.50	6.00					
D 3552 (4-2-58)		F	16.55	4.43	2.22						
D 2517 (5-1-58)		F	16.10	3.73	5.50						
D 2281 (7-21-58)		F	15.85	4.83	6.45						

COLWELL CO-OP GRAIN EXCHANGE, COLWELL, IOWA

C.C. G 20% Egg Mash.....	Yes		C	20.00	2.75	8.00					
E 7855 (12-17-57)		F	22.80	3.68	6.57						
D 860 (6-4-58)		F	22.80	3.93	6.63						
D 6502 (11-28-58)		F	21.90	3.81	6.38						

CONNIE'S FEED STORE, LATIMER, IOWA

Connie's 20% Laying Mash.....	No		C	20.00	3.50	7.50					
D 1157 (4-22-58)		F	20.75	5.05	3.80						
Connie's 38% Hog Supplement Medicated.....	Yes		C	38.00	3.00	6.00					
D 1156 (4-22-58)		F	40.50	5.20	4.10						

CONRAD BROTHERS, LOWDEN, IOWA

Conrad's 16% Pig Starter Medicated..... D 3044 (8-4-58)	Yes		C F	16.00 17.05	4.00 4.39	3.50 2.70	.....	.....	.....	.....
Conrad's 40% Hog Supplement..... D 3046 (8-4-58)	Yes		C F	40.00 40.30	3.00 6.57	7.25 7.31	.....	.....	.....	.....
Conrad's 33% Dairy Concentrate..... D 3047 (8-4-58)	Yes		C F	33.00 33.00	0.80 3.24	7.00 6.66	.....	.....	.....	.....
Conrad's 32% Beef Supplement..... D 3048 (8-4-58)	Yes		C F	32.00 32.55	0.90 3.65	8.50 7.62	.....	.....	.....	.....

CONSOLIDATED BLENDERS, INC., FREMONT, NEBRASKA

17% Dehydrated Alfalfa Meal with Animal Fat-Merry Mixer Greenules..... D 3644 (4-24-58)	Yes		C	17.00	1.50	27.00	.....	.....	.....	.....
D 890 (6-27-58)			F	18.40	4.80	25.18	.....	.....	.....	.....
D 2447 (7-2-58)			F	18.25	3.28	26.49	.....	.....	.....	.....
D 902 (8-28-58)			F	18.00	4.64	22.99	.....	.....	.....	.....
			F	17.45	3.06	27.12	.....	.....	.....	.....
M M Merry Mixer Dehydrated Alfalfa..... D 2442 (6-23-58)	Yes		C	17.00	1.50	27.00	.....	.....	.....	.....
D 4424 (7-10-58)			F	17.85	3.65	28.40	.....	.....	.....	4
D 954 (7-31-58)			F	16.85	3.62	28.75	.....	.....	.....	4
			F	18.40	2.63	26.21	.....	.....	.....	.....

CONSOLIDATED PRODUCTS, DANVILLE, ILLINOIS

Consolidated's Dried Whey..... D 4267 (7-14-58)	No	Yes	C	10.00	0.50	.....	.....	.....	.....	.....
D 6016 (11-4-58)			F	13.60	0.66	.....	.....	.....	.....	.....
			F	12.46	2.25	.....	.....	.....	.....	.....

CONSUMERS COOPERATIVE ASSOCIATION, KANSAS CITY, MISSOURI

Coop Open Formula Pullet Feed Builder Medicated..... D 2305 (8-27-58)	Yes		C F	15.00 17.95	1.50 4.13	12.00 11.42	12.00 11.50	2.50 2.59	0.001 0.0015	5.50 5.48
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COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 CONSUMERS COOPERATIVE ASSOCIATION, KANSAS CITY, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Coop Open Formula Layer Concentrate -26 Medicated D 2308 (8-27-58)	Yes		C F	26.00 27.00	5.00 4.66	6.50 6.17	6.50 6.30	1.50 1.61	0.0004 0.0004	1.75 1.65	2
Coop Open Formula Sow Feed Builder Medicated D 2310 (8-27-58)	Yes		C F	30.00 32.30	4.50 6.84	10.00 9.92	10.00 8.50	3.50 3.27	0.0006 0.0015	5.00 4.93	
Coop Open Formula Hog Feed Fortifier Medicated D 2331 (9-3-58)	Yes		C F	25.00 38.40	4.00 7.73	6.00 2.46					
Coop Open Formula Sow Feed Fortifier Medicated D 6153 (11-18-58)	Yes		C F	25.00 41.45	4.00 8.68	6.00 3.19					
Coop Open Formula Pig Pre-Starter Complete Medicated E 2608 (4-21-58)	Yes		C F	20.00 21.75	5.00 6.00	3.00 2.72					
Coop Open Formula Chick Starter-Grower Medicated E 2609 (4-21-58)	Yes		C F	18.00 21.95	3.50 4.00	6.00 5.48					
Coop Open Formula Dairy Feed Builder E 2612 (4-21-58)	Yes		C F	36.00 39.20	4.00 7.20	6.50 5.42	5.00 5.00	0.80 1.23	0.0005 0.00106	5.50 4.90	
Coop Open Formula Chick Pre-Starter Complete Medicated E 2611 (4-21-58)	Yes		C F	21.00 23.90	3.50 3.50	5.00 4.21					
Coop Hog Mixing Balancer D 1999 (3-26-58)	Yes		C F	22.00 33.75	3.00 5.91	8.00 6.07					
Coop 55% Digester Tankage D 4660 (10-2-58)	Yes		C F	55.00 59.30	6.00 5.17	7.00 5.49					3



Coop 50% Meat & Bone Scraps.....	Yes	C	50.00	6.00	3.00					
D 4661 (10-2-58)		F	50.55	9.38	1.90					
D 6156 (11-18-58)		F	50.65	10.36	1.72					
Coop 60% Digester Tankage.....	Yes	C	60.00	5.00	7.00					2a
D 4662 (10-2-58)		F	58.00	9.61	4.33					
D 6161 (11-18-58)		F	61.50	4.93	1.32					
Co-Op 50% Meat & Bone Scraps.....	No	C	50.00	6.00	3.00					
E 8928 (11-13-57)		F	50.65	10.36	1.76					61
E 3304 (3-18-58)	Yes	F	50.15	11.54	1.01					
Co-Op Poultry Layer Balancer.....	Yes	C	25.00	3.00	8.00					
D 1943 (3-26-58)		F	29.25	9.14	6.12					
Co-Op Poultry Mixing Balancer.....	Yes	C	36.00	6.00	8.00					2a
D 2000 (3-26-58)		F	32.60	8.32	5.01					
Co-Op AFP Feed.....	Yes	C	6.00	40.00	17.00					3
D 3801 (3-26-58)		F	12.10	37.70	10.72					
Co-Op 60% Digester Tankage.....	Yes	C	60.00	5.00	7.00					61
E 3303 (3-18-58)		F	60.70	7.23	1.15					
Coop Open Formula Chick Feed Builder										
Medicated.....	Yes	C	25.00	11.00	7.00	12.00	3.00	0.008	4.50	8
D 527 (4-3-58)		F	26.10	19.75	5.83	9.30	3.06	0.0009	3.64	
Coop 32% Dairy Concentrate.....	Yes	C	32.00	1.50	12.00	2.50	1.00	0.0007	2.00	5, 6
D 528 (4-3-58)		F	35.30	1.45	5.90	3.66	0.93	0.00137	3.07	
Coop Open Formula Pig Feed Fortifier										
Medicated.....	Yes	C	10.00	1.00	6.00					
D 529 (4-3-58)		F	20.55	1.41	3.47					
Coop Chick-Starter-Grower Medicated.....	Yes	C	18.00	3.50	6.00					
D 648 (4-3-58)		F	18.65	3.57	4.98					
Coop Open Formula Layer Concentrate—										
26 Medicated.....	Yes	C	26.00	5.00	6.50	6.50	1.50	0.0004	1.75	
D 649 (4-3-58)		F	28.25	4.70	5.47	5.90	1.55	0.0005	1.52	
Coop 0.0022% D.E.S. Mixture Inc. In Beef										
Finisher Concentrate 35.....	Yes	C	35.00	1.00	8.00	3.00	0.50	0.0001	2.50	
D 650 (4-3-58)		F	40.70	1.78	5.53	2.20	0.99	0.00055	2.02	

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 CONSUMERS COOPERATIVE ASSOCIATION, KANSAS CITY, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Coop Medicated Swine Boosterettes E 2606 (4-21-58)	Yes		C	16.00	4.50	4.00					3
			F	18.15	4.98	3.13					
Coop Open Formula Pig Starter Complete Medicated D 530 (4-3-58)	Yes		C	18.00	5.00	3.50					
			F	20.40	3.58	2.80					
Coop Open Formula Pullet Grower Supplement Medicated D 531 (4-3-58)	Yes		C	18.00	3.00	7.00					
			F	20.25	4.94	6.26					
Coop 35% Swine Supplement D 532 (4-3-58)	Yes		C	35.00	1.00	8.50	5.00	2.00	0.0007	2.50	
			F	38.65	2.80	6.67	3.60	2.00	0.0021	2.56	
Coop Open Formula Layer Supplement—20 Medicated D 647 (4-3-58)	Yes		C	20.00	4.00	6.00	4.00	1.00	0.0002	1.00	
			F	20.05	5.76	5.46	3.40	1.02	0.0004	0.775	

CONSUMERS SUPPLY CO., STORM LAKE, IOWA

Champ 60% Digester Tankage E 4580 (9-27-57) D 2329 (9-3-58)	Yes		C	60.00	6.00	3.00					2a, 4 3, 4
			F	55.65	6.33	4.72					
			F	65.60	4.13	4.08					
Champ Rolled Oats D 3796 (5-8-58)	Yes		C	15.00	6.50	2.50					3
			F	18.20	5.87	2.30					

O. A. COOPER COMPANY, HUMBOLDT & BEATRICE, NEBRASKA

35% Sow & Pig Supplement D 5517 (9-9-58)	Yes		C	35.00	4.00	7.50				
			F	36.65	4.14	7.64				

26% Protein Poultry Supplement..... D 5518	(9-9-58)	Yes	C	26.00	4.00	8.00	-----	-----	-----	-----
				F	27.70	3.97	7.47	-----	-----	-----

COOPERATIVE OF HUDSON, HUDSON, IOWA

Felco Dairy Supplement..... D 4685	(11-10-58)	Yes	C	35.00	0.50	8.00	-----	-----	-----	-----
				F	37.40	3.46	6.10	-----	-----	-----
Felco Sow Supplement..... D 4686	(11-10-58)	Yes	C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00
				F	33.85	4.46	9.43	3.80	1.26	0.0011
Felco Special Hog Balancer..... D 4687	(11-10-58)	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00
				F	41.65	4.40	7.20	3.40	1.32	0.0015
Felco Special Dry Lot Hog Supplement..... D 4688	(11-10-58)	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00
				F	36.80	5.32	9.15	3.30	1.35	0.0014
Felco 20% Layer-Breeder..... D 4681	(11-10-58)	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00
				F	23.10	4.67	6.77	2.90	1.28	0.0011
Felco Mash Builder..... D 4682	(11-10-58)	Yes	C	38.00	3.00	8.00	6.00	1.00	-----	2.50
				F	37.90	5.46	6.93	5.70	2.28	-----
Felco All Mash..... D 4683	(11-10-58)	Yes	C	16.00	2.50	8.00	-----	-----	-----	-----
				F	18.80	3.85	5.44	-----	-----	-----
Felco 26% No Grain Layer-Breeder..... D 4684	(11-10-58)	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
				F	28.10	4.42	7.83	3.80	1.57	0.0012

CORN BELT SUPPLY CO., INC., SIOUX CITY, IOWA

Corn Belt 50% Protein Meat & Bone Scraps..... D 2279	(7-21-58)	Yes	C	50.00	5.00	3.00	-----	-----	-----	-----
				F	51.95	9.93	1.94	-----	-----	-----

THE CORN KING CO., CEDAR RAPIDS, IOWA

Corn King Mineral Compound..... D 4147	(9-30-58)	Yes	C	-----	-----	-----	26.00	4.50	0.02	6.00
				F	-----	-----	-----	26.00	4.56	0.02

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 CORNING RENDERING COMPANY, CORNING, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Gro-Mor Meat & Bone Meal with Poultry By-Products Meal..... D 4183 (7-21-58)	Yes		C F	55.00 53.30	6.00 13.90	3.00 2.00	.....	.....	.....	.....	2a

CRENSHAW OIL COMPANY, CRENSHAW, MISSISSIPPI

Wylodine Brand 41% Protein Old Process Cotton Seed Meal..... D 2179 (11-7-58)	Yes		C F	41.00 36.65	5.00 5.40	13.00 12.94	.....	.....	.....	.....	2a
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CRESCO MILLING CO., CRESCO, IOWA

C-M-C Super Pig Concentrate Medicated..... D 6395 (10-31-58)	Yes		C F	38.00 39.30	1.50 2.54	8.00 7.47	.....	.....	.....	.....	
C-M-C Super Pig Concentrate Medicated..... D 701 (4-3-58)	No		C F	38.00 39.10	1.50 2.29	4.00 7.61	4.00 3.40	1.30 1.69	0.0005 0.00067	2.00 1.88	4
C-M-C 20% Egg Mash..... D 702 (4-3-58)	Yes		C F	20.00 20.60	2.00 3.24	7.00 7.02	.....	.....	.....	.....	
C-M-C Mash Concentrate..... D 703 (4-3-58) D 6394 (10-31-58)	Yes		C F F	34.00 35.55 35.75	1.00 2.65 2.55	9.00 8.78 8.05	3.00 3.50	1.40 1.52	0.0006 0.0011	2.40 2.58	5
C-M-C Sow & Pig Concentrate..... D 704 (4-3-58) D 6393 (10-31-58)	Yes		C F F	35.00 36.95 37.40	1.00 1.95 1.94	9.00 9.43 7.59	3.00 3.45 4.20	1.10 1.39 1.58	0.0007 0.00095 0.0017	2.25 1.82 2.59	5 5

CRYSTAL MILLING COMPANY, CRYSTAL LAKE, IOWA

Crystal 40% Hog Concentrate..... D 6371	(10-29-58)	Yes	C F	40.00 41.45	2.00 3.03	7.00 5.58	3.00 3.50	1.50 1.30	0.0003 0.0007	2.00 1.39	5, 22
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CUDAHY PACKING COMPANY, OMAHA, NEBRASKA

Cudahy's Blue Ribbon 60% Digester Tankage... D 533	(4-7-58)	Yes	C F	60.00 59.35	6.00 8.17	3.00 1.57					2
D 4151	(6-30-58)		F	60.90	9.20	1.56					2a
D 5070	(8-6-58)		F	54.60	11.31	1.80					
Cudahy's Blue Ribbon 50% Meat & Bone Scraps D 4162	(6-30-58)	Yes	C F	50.00 50.30	6.00 12.48	3.00 2.02					
Cudahy All Purpose Mineral..... D 4146	(9-30-58)	Yes	C F				26.00 25.60	6.00 7.27	0.03 0.012	10.00 9.80	8

VERN DANILSON, ADEL, IOWA

Danilson's 0.0022% D.E.S. Mix Inc. In Beef Concentrate..... D 1854	(3-17-58)	Yes	C F	37.00 37.15	3.10 1.48	10.50 8.78					3
Ace Hog Balancer Medicated..... D 1851	(3-17-58)	Yes	C F	36.00 38.80	3.50 2.99	8.00 8.57	4.20 2.55	0.40 1.30	0.0006 0.00116	2.50 1.40	3, 4
Ace Pig Starter Medicated..... D 1853	(3-17-58)	Yes	C F	18.00 21.85	2.00 3.39	3.20 3.05					
Ace Chick Starter Medicated..... D 1859	(3-17-58)	Yes	C F	20.00 20.90	3.00 3.47	6.10 5.56					
Ace Laying Mash..... D 1858	(3-17-58)	Yes	C F	20.00 24.30	3.20 4.00	7.10 6.03					
Ace 26% Grain Balancer..... D 1857	(3-17-58)	Yes	C F	26.00 28.15	3.25 3.74	8.00 7.96	4.10 3.35	1.20 1.61	0.0003 0.0007	1.70 1.63	
Ace Pig Meal Medicated..... D 1855	(3-17-58)	Yes	C F	18.00 19.15	3.60 3.91	5.50 4.08					
D 1852	(3-17-58)		F	20.00	3.70	4.31					

COMMERCIAL FEEDS

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## DANNEN MILLS, INC., ST. JOSEPH, MISSOURI

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Dannen "22" Hunkets..... D 2475 (6-5-58)	Yes		C F	22.00 24.75	1.50 2.40	10.00 9.60					
Dannen 0.0011% D.E.S. Mix Inc. In Dannen "22" Hunkets..... D 2476 (6-5-58)	Yes		C F	22.00 24.05	1.50 1.52	10.00 8.54					
Dannen Hoggo Hog Supplement..... D 2477 (6-5-58)	Yes		C F	36.00 37.70	3.00 3.26	7.50 5.37					
D 3260 (6-10-58)	Yes		F	38.25	3.81	5.69					
Dannen 40% Hog Builder..... D 2478 (6-5-58)	Yes		C F	40.00 42.20	2.50 4.75	6.50 5.11	2.50	1.25	0.0007	1.50	
D 5555 (8-15-58)			F	41.60	2.08	5.22	2.80	1.36	0.00026	1.12	3, 8
D 5568 (8-19-58)			F	42.65	2.33	5.06					
Dannen Piggo Pig & Sow Supplement..... D 2471 (6-5-58)	Yes		C F	18.00 20.70	3.50 5.61	8.00 6.22					
D 3262 (6-10-58)			F	19.90	5.34	5.74					
Dannen 41% Cattle Supplement..... D 2472 (6-5-58)	Yes		C F	41.00 43.75	3.00 4.34	8.00 6.25					
Dannen 0.0022% D.E.S. Mix Inc. In Dannen "41" Missiles..... D 2473 (6-5-58)	Yes		C F	41.00 40.55	3.00 4.03	8.00 6.50					
Dannen 26% Free Choice Egg Concentrate..... D 2474 (6-5-58)	Yes		C F	26.00 27.05	3.00 3.14	8.50 8.38					
Dannen Big 20 Egg Feed..... D 2463 (6-5-58)	Yes		C F	20.00 20.15	4.00 5.28	8.00 6.94					
Dannen Pullet Booster..... D 2464 (6-5-58)	Yes		C F	17.00 17.20	2.50 2.60	7.50 5.54					

Dannen Thrifty 18% Egg Feed..... D 2465 (6-5-58)	Yes	C F	18.00 18.85	2.50 2.88	11.00 8.90			
Dannen Chick Grower..... D 2466 (6-5-58)	Yes	C F	17.00 17.90	3.00 3.55	7.50 5.79			
Dannen 35% Sow & Pig Supplement..... D 2467 (6-5-58)	Yes	C F	35.00 36.90	3.00 5.20	6.50 5.51			
Dannen Chick Starter Medicated..... D 2468 (6-5-58)	Yes	C F	20.00 21.80	3.00 4.16	6.50 5.77			
Dannen Poultry Mixer..... D 2469 (6-5-58)	Yes	C F	34.00 35.00	2.50 2.65	9.00 6.18			
Dannen Jelly Beans Pig Starter Medicated..... D 2470 (6-5-58)	Yes	C F	18.00 20.90	3.50 5.29	4.00 4.00			
Dannen 32% Dairy Mixer..... D 2479 (6-5-58)	Yes	C F	32.00 32.15	1.50 2.85	7.50 6.69			
Dannen Pig Slopper Meal..... D 2480 (6-5-58)	Yes	C F	16.00 18.35	2.50 3.88	6.50 5.85			
Dannen Calf Starter..... D 2481 (6-5-58)	Yes	C F	20.00 17.05	2.00 3.95	11.00 6.13			
Dannen Jelly Beans Pig Starter..... D 2482 (6-5-58)	Yes	C F	18.00 20.00	3.50 4.83	4.00 4.00			
D 3261 (6-10-58)	Yes	F	20.15	5.10	4.35			
Dannen 50% Dairy Concentrate..... D 2483 (6-5-58)	Yes	C F	50.00 51.60	1.50 2.47	7.50 4.73			
Dannen Rabbit Pellets..... D 2485 (6-5-58)	Yes	C F	15.00 17.80	2.50 3.70	15.00 11.32			
Dannen Complete Egg Feed..... D 2486 (6-5-58)	Yes	C F	15.00 16.05	3.50 3.72	8.00 5.67			
Big D 16% Dairy Feed..... D 2484 (6-5-58)	Yes	C F	16.00 17.35	2.50 3.00	9.00 7.14			
Dannen 0.0011% D.E.S. Mix Inc. In Dannen "22" Hunkets..... D 5554 (8-15-58)	Yes	C F	22.00 22.60	2.00 3.05	10.00 8.15			

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COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
DANNEN MILLS, INC., ST. JOSEPH, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Dannen Poultry Mixer D 5556 (8-15-58)	Yes		C	42.00	1.50	6.00	5.00	1.50	0.0006	1.50	
			F	41.65	2.26	3.20	5.00	1.59	0.00048	1.34	
Dannen Jelly Beans Pig Starter (Medicated) D 5566 (8-19-58)	Yes		C	18.00	3.50	4.00					
			F	20.50	5.45	4.42					
Dannen Piggo Pig & Sow Supplement (Medicated) D 5567 (8-19-58)	Yes		C	18.00	3.50	8.00					
			F	22.00	4.82	6.45					

DARLING & COMPANY, ALPHA, IOWA

Darling's Meat & Bone Scraps D 76 (12-6-57) D 2373 (11-26-58)	Yes		C	50.00	3.00	4.00					
			F	53.20	8.36	2.15					
			F	49.55	9.31	1.52					
Darling's Special Steamed Bone Meal D 1915 (1-16-58) D 3808 (3-27-58) D 2215 (6-27-58) D 5255 (10-6-58)	Yes		C				28.00	12.00			
			F				27.00	13.08			
			F				26.80	12.68			
			F				26.70	12.40			
			F				26.80	13.20			
Darling's Digester Tankage D 2374 (11-26-58)	Yes		C	60.00	3.00	4.00					
			F	59.65	6.93	1.05					

DAVENPORT ELEVATOR CO., DAVENPORT & WEST BEND, IOWA

Winner Dairy & Beef Supplement E 7220 (3-10-58) E 7271 (6-16-58) D 2905 (7-22-58)	Yes		C	32.00	2.00	7.50					
			F	34.70	1.49	7.33					
			F	34.90	1.45	7.63					
			F	34.85	1.59	7.45					



Deco 60% Digester Tankage..... D 3792 (5-8-58)	Yes	C F	60.00 60.65	6.00 9.41	3.00 3.37					
Deco 50% Meat & Bone Scraps..... D 3790 (5-8-58)	Yes	C F	50.00 50.00	4.00 9.38	3.00 2.57					
Winner Hen Scratch..... D 5524 (9-10-58)	Yes	C F	9.00 9.90	3.00 3.38	3.00 1.38					
Winner 0.0022% D.E.S. Mix Inc. In 36% Beef Fattener..... E 7101 (10-13-58)	Yes	C F	36.00 38.35	1.50 2.32	11.00 11.52					4
Winner Concentrate..... E 7104 (10-13-58) D 2887 (12-9-58)	Yes	C F F	32.00 35.10 34.80	1.50 2.79 3.28	9.00 7.99 8.68	5.50 4.00 3.50	1.00 1.57 1.22	0.001 0.0011 0.0008	2.50 2.56 2.39	
Winner Grower..... D 2889 (12-9-58)	Yes	C F	18.00 21.30	3.00 4.03	7.00 5.69					
Winner Dairy Ration..... D 437 (12-3-57) E 7221 (3-10-58) D 2903 (7-22-58) E 7103 (10-13-58) D 2885 (12-9-58)	Yes	C F F F F	16.00 17.50 16.85 18.25 18.20 18.05	3.00 2.58 3.06 3.19 3.74 4.38	9.00 8.93 8.65 8.04 7.62 8.04					3
Winner Pig Starter..... D 438 (12-3-57) E 7222 (3-10-58) D 7268 (6-16-58) D 2907 (7-22-58) E 7105 (10-13-58) D 2884 (12-9-58)	Yes	C F F F F F	18.00 20.75 20.25 19.40 19.50 19.75 19.90	2.50 3.43 4.85 3.57 2.96 4.30 4.27	7.00 5.75 7.11 6.16 10.00 6.60 6.45					4
Winner 26% Supplement..... D 439 (12-3-57) D 2888 (12-9-58)	Yes	C F F	26.00 28.30 28.55	2.00 2.30 3.04	10.00 7.57 8.27	5.00 3.40	1.00 1.14	0.001 0.0014	1.50 1.50	
Winner Concentrate..... D 440 (12-3-57) E 7219 (3-10-58) E 7270 (6-16-58) D 2908 (7-22-58)	Yes	C F F F F	32.00 35.35 34.40 34.15 33.65	1.50 2.47 2.54 2.44 2.30	9.00 7.15 8.22 8.15 7.58	5.00 3.50	1.00 1.38	0.001 0.0016	2.50 2.36	1a
Winner Broiler Ration..... D 441 (12-3-57)	Yes	C F	20.00 25.85	2.50 3.30	6.00 4.03					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 DAVENPORT ELEVATOR CO., DAVENPORT & WEST BEND, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Winner Egg Mash.....	Yes		C	20.00	3.00	7.50					
D 442 (12-3-57)			F	22.65	3.61	5.85					
E 7269 (6-16-58)			F	22.75	3.64	6.70					
D 2906 (7-22-58)			F	21.50	3.47	6.70					
E 7102 (10-13-58)			F	22.00	3.73	7.61					
D 2886 (12-9-58)			F	21.65	4.04	7.58					
Deco Rabbit Feed.....	Yes		C	15.00	3.00	17.50					
D 443 (12-3-57)			F	16.75	3.71	17.58					
Winner Pig & Hog Balancer.....	Yes		C	35.00	2.00	9.00	5.00	1.00	0.001	2.00	
D 436 (12-3-57)			F	38.65	2.43	6.65					
E 7223 (3-10-58)			F	36.55	2.06	7.26	3.50	1.65	0.0011	1.90	
E 7267 (6-16-58)			F	39.45	2.45	7.06					
D 2904 (7-22-58)			F	37.45	2.50	7.60					
E 7106 (10-13-58)			F	39.25	2.49	7.54	4.40	1.54	0.0017	1.82	

DAVIES FEED & SUPPLY, MARENGO, IOWA

Davies 18% Pre-Pig Starter Medicated.....	Yes		C	18.00	3.00	4.00					
D 2708 (4-29-58)			F	21.00	4.75	3.10					
D 6920 (12-4-58)			F	20.80	4.60	3.43					
Davies 28% Free-Choice Poultry Supplement Medicated.....	Yes		C	28.00	3.00	7.00					
D 2709 (4-29-58)			F	33.85	4.58	7.45					
D 6922 (12-4-58)			F	32.45	3.34	7.66					
Davies 32% Layer & Breeder Concentrate Medicated.....	Yes		C	32.00	2.50	8.00	2.50	1.25	0.0002	1.25	4
D 2710 (4-29-58)			F	34.65	4.95	8.35					
D 6921 (12-4-58)			F	35.30	4.64	8.81	3.10	1.36	0.0009	0.73	4, 5

Davies 35% Hog Concentrate Medicated..... D 6914 (12-4-58)	Yes	C	35.00	1.50	9.00				
		F	39.40	4.48	7.04				
Davies 20% Egg Mash Medicated..... D 2700 (4-29-58)	Yes	C	20.00	3.00	6.00				
D 6919 (12-4-58)		F	21.20	4.24	5.10				
		F	22.60	3.92	6.74				
Davies Super 35% Sow Concentrate Medicated..... D 2701 (4-29-58)	Yes	C	35.00	2.50	8.00				
D 6916 (12-4-58)		F	35.80	4.40	7.90				
		F	35.95	4.90	8.21				
Davies 32% Dairy Supplement..... D 2702 (4-29-58)	Yes	C	32.00	2.00	9.00	1.70	0.80	0.00024	2.50
D 6918 (12-4-58)		F	35.85	2.02	6.85				
		F	34.50	2.16	7.80	1.60	1.19	0.0026	2.51
Davies 33% Pig & Sow Supplement Medicated..... D 2703 (4-29-58)	Yes	C	33.00	2.00	8.00	3.50	1.30		2.00
D 6913 (12-4-58)		F	34.65	4.21	7.30				
		F	33.75	4.06	5.24	2.50	1.04		2.38
Davies 20% Chick Starter Medicated..... D 2704 (4-29-58)	Yes	C	20.00	3.00	5.00				
		F	21.25	3.97	4.50				
Davies 17% Chick Grower Medicated..... D 2705 (4-29-58)	Yes	C	17.00	3.50	6.00				
		F	18.55	4.48	5.75				
Davies Super 40% Hog Supplement Medicated..... D 2706 (4-29-58)	Yes	C	40.00	2.00	6.00				
D 6915 (12-4-58)		F	40.25	3.40	5.65				
		F	41.25	3.05	6.16				
Davies 20% Pig Starter Medicated..... D 2707 (4-29-58)	Yes	C	20.00	3.50	6.00				
D 6917 (12-4-58)		F	21.30	3.88	4.25				
		F	21.30	4.05	4.34				

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## DAWE'S LABORATORIES, INC., CHICAGO, ILLINOIS

Dawe's Vitamelk..... D 543 (4-21-58)	Yes	C	24.00	5.00	15.00				
		F	23.90	4.95	12.65				
Dawe's Vitamelk Multi-Vitamin Fortifier..... D 970 (7-31-58)	Yes	C	34.00	1.00	7.00				
		F	34.95	1.70	5.65				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
DAYTON COOPERATIVE ELEVATOR, DAYTON, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Special Dry Lot Hog Supplement D 4239 (10-8-58)	Yes		C	35.00	1.50	9.00					
			F	37.00	4.17	8.56					
Felco Mash Builder D 4241 (10-8-58)	Yes		C	38.00	3.00	8.00					
			F	39.05	4.34	5.36					
Felco Special Hog Balancer D 4242 (10-8-58)	Yes		C	40.00	1.50	9.00					
			F	40.10	5.06	7.29					

JACOB E. DECKER & SONS, MASON CITY, IOWA

Decker Digester Tankage D 1308 (12-26-57) D 802 (4-2-58) D 2659 (4-14-58) D 5149 (10-10-58) D 6364 (10-29-58)	Yes		C	60.00	6.00	3.00					
			F	64.40	12.76	0.70					
			F	64.00	8.58	0.75					
			F	64.75	8.43	1.20					
			F	55.75	11.07	0.57					
			F	62.50	7.76	0.41					2a
Decker Meat & Bone Meal D 803 (4-2-58) D 2660 (4-14-58) D 5152 (10-10-58) D 6363 (10-29-58)	Yes		C	50.00	6.00	3.00					
			F	49.85	12.06	2.60					
			F	53.05	12.29	1.52					
			F	52.35	12.31	1.60					
			F	52.20	11.45	1.66					

DECORAH FEED MILL, DECORAH, IOWA

B & M 32% Dairy Supplement D 705 (4-3-58)	Yes		C	32.00	2.00	9.00					
			F	33.20	2.33	9.76					4

B & M 40% Hog Supplement.....	Yes	C	40.00	3.00	8.00	3.50	1.60	0.001	2.75	5
D 706 (4-3-58)		F	40.90	3.98	7.06	3.40	1.60	0.0011	2.66	
D 1709 (10-1-58)		F	42.75	4.07	6.75	4.10	1.79	0.0016	2.79	
B & M 34% Poultry Concentrate Medicated.....	Yes	C	34.00	2.50	8.00	3.90	1.70	0.0006	2.25	5
D 707 (4-3-58)		F	34.40	3.55	7.95	4.40	2.38	0.00075	2.02	
A 1712 (10-1-58)		F	37.40	4.00	8.21					
B & M 20% Egg Mash Medicated.....	Yes	C	20.00	3.00	7.50					
D 708 (4-3-58)		F	24.05	4.01	6.75					
A 1711 (10-1-58)		F	22.75	4.22	6.95					
B & M 27% Poultry Balancer Medicated.....	Yes	C	27.00	3.00	9.00	4.30	2.10	0.0004	2.00	6
D 709 (4-3-58)		F	30.70	4.56	7.82	3.90	2.10	0.00045	2.88	
A 1710 (10-1-58)		F	30.45	3.76	8.36	4.70	2.25	0.0013	2.18	

DEDHAM COOP ASSOCIATION, DEDHAM, IOWA

Felco Starting Mash Medicated.....	Yes	C	20.00	2.00	7.00					
D 6163 (11-21-58)		F	21.50	3.67	5.65					
Felco 26% No Grain Layer-Breeder.....	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
D 6164 (11-21-58)		F	28.10	4.42	7.20	3.60	1.58	0.0010	2.11	
Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	
D 6165 (11-21-58)		F	36.90	4.56	8.20	3.80	1.32	0.0014	1.80	
Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00					
D 6166 (11-21-58)		F	41.80	4.26	6.02					
Felco Sow Supplement.....	Yes	C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	
D 6167 (11-21-58)		F	33.50	4.52	9.05	4.00	1.37	0.0013	2.08	

DEHYDRATED ALFALFA MILLS, INC., FREMONT, NEBRASKA

Evergreen-Alfalfa Meal.....	Yes	C	17.00	1.75	27.00					
D 4101 (9-3-58)		F	18.90	3.58	24.60					
D 2050 (8-26-58)		F	17.25	3.09	24.60					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

DENISON SEED COMPANY, DENISON, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
D-S Hog Feed..... D 4231 (9-29-58)	Yes		C F	38.00 40.75	2.40 4.45	9.20 8.05	..... .....	..... .....	..... .....	..... .....	

L. J. DENNIS & SON, CENTER POINT, IOWA

"Dennis" Laying Mash..... E 9780 (12-12-57)	Yes		C F	16.00 17.85	3.00 4.47	9.00 6.78	..... .....	..... .....	..... .....	..... .....	
"Dennis" 26% Egg Balancer..... E 9781 (12-12-57)	Yes		C F	26.00 28.50	4.00 4.13	9.00 8.40	..... .....	..... .....	..... .....	..... .....	
"Dennis" Hog Balancer..... E 9782 (12-12-57)	Yes		C F	35.00 42.00	4.00 5.46	10.00 7.60	..... .....	..... .....	..... .....	..... .....	

DES MOINES COUNTY FARM SERVICE CO., MEDIAPOLIS, IOWA

Felco Dairy Supplement..... D 491 (12-9-57)	Yes		C	35.00	0.50	8.00	.....	.....	.....	.....	
E 4386 (2-6-58)			F	37.00	1.84	6.32	.....	.....	.....	.....	
D 2871 (7-8-58)			F	37.30	1.60	6.65	.....	.....	.....	.....	
			F	36.60	1.58	6.51	.....	.....	.....	.....	
Felco Mash Builder..... D 492 (12-9-57)	Yes		C	38.00	3.00	8.00	.....	.....	.....	.....	
E 4387 (2-6-58)			F	39.40	4.40	5.90	.....	.....	.....	.....	
E 7035 (4-21-58)			F	39.65	5.51	5.59	.....	.....	.....	.....	
D 2874 (7-8-58)			F	39.10	4.15	5.42	.....	.....	.....	.....	
D 334 (10-14-58)			F	40.00	4.21	5.82	.....	.....	.....	.....	
D 2881 (12-3-58)			F	40.85 38.25	5.09 5.29	6.24 6.00	..... .....	..... .....	..... .....	..... .....	..... .....

Felco 26% No Grain Layer Breeder.....	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
D 493 (12-9-57)		F	28.05	3.78	8.80				
E 4389 (2-6-58)		F	28.50	3.60	7.29				
E 7034 (4-21-58)		F	29.70	3.85	7.63	3.70	1.62	0.00192	2.44
D 2873 (7-8-58)		F	28.55	3.32	7.89				
D 335 (10-14-58)		F	27.10	3.74	7.44				
Felco 20% Layer Breeder.....	Yes	C	20.00	2.00	8.00				
D 494 (12-9-57)		F	25.75	3.31	6.86				
E 4388 (2-6-58)		F	24.15	3.59	7.02				
Felco Beef Supplement.....	Yes	C	35.00	0.50	9.00				
D 495 (12-9-57)		F	39.35	1.55	6.02				
E 4385 (2-6-58)		F	38.05	1.31	6.28				
E 7036 (4-21-58)		F	38.70	2.02	6.60				
D 2872 (7-8-58)		F	37.90	1.89	6.64				
D 336 (10-14-58)		F	38.90	2.19	6.29				
Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00
D 496 (12-9-57)		F	43.45	3.08	6.29				
E 4384 (2-6-58)		F	42.90	3.80	6.87				
E 7031 (4-21-58)		F	42.10	3.35	5.97	3.20	1.49	0.00096	2.04
D 2870 (7-8-58)		F	42.10	2.74	6.78				
D 331 (10-14-58)		F	43.35	2.02	7.29				
D 2882 (12-3-58)		F	43.20	2.56	7.01				
Felco Special Pig & Sow Meal.....	Yes	C	20.00	2.00	9.00				
D 497 (12-9-57)		F	23.15	4.31	8.93				
E 7032 (4-21-58)		F	23.65	3.95	8.37				
D 2869 (7-8-58)		F	22.45	3.99	7.93				
E 4383 (2-6-58)		F	23.60	3.71	7.76				
D 332 (10-14-58)		F	23.30	3.87	8.15				
D 2883 (12-3-58)		F	22.55	4.58	8.63				
Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00
D 498 (12-9-57)		F	36.80	4.06	8.59				
E 4382 (2-6-58)		F	37.20	3.70	8.74				
E 7007 (2-18-58)		F	36.55	3.80	4.39				
E 7033 (4-21-58)		F	35.85	4.65	8.91	3.60	1.68	0.0011	1.98
D 2866 (7-8-58)		F	37.95	3.64	7.25				
D 333 (10-14-58)		F	37.65	3.45	9.57				
D 2880 (12-3-58)		F	35.85	3.51	9.10				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
DES MOINES OAT PRODUCTS CO., DES MOINES, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Regular Steamed Rolled Oat Groats.....	Yes		C	16.00	5.50	3.00	.....	.....	.....	.....	
E 9174 (12-6-57)			F	18.95	6.25	1.35	.....	.....	.....	.....	
D 4238 (10-7-58)			F	18.50	7.20	1.84	.....	.....	.....	.....	

DESERT GOLD FEED COMPANY, LIBERTY, MISSOURI

Desert Gold Alfalfa Pellets.....	No		C	17.00	2.50	25.00	.....	.....	.....	.....	
D 3530 (3-24-58)			F	21.05	3.75	19.34	.....	.....	.....	.....	

DIAMOND V MILLS, INC., CEDAR RAPIDS, IOWA

Diamond Mineral-Yeast Culture Feed.....	Yes		C	5.50	1.00	2.50	.....	.....	.....	.....	
E 9783 (12-13-57)			F	7.95	2.16	2.63	.....	.....	.....	.....	
Diamond Mineral Feed with Irradiated Yeast.....	Yes		C	.....	.....	.....	26.00	4.50	0.03	5.00	
E 9784 (12-13-57)			F	.....	.....	.....	24.60	4.56	0.035	4.60	

DOVE & STEFFEN, OELWEIN, IOWA

D & S Booster Feed 32% Poultry Concentrate.....	Yes		C	32.00	3.00	6.00	4.65	1.40	.....	.....	
D 173 (12-12-57)			F	35.10	3.48	6.20	4.30	1.56	.....	.....	
D & S Booster Feed 26% Cafeteria Balancer.....	Yes		C	26.00	3.00	8.00	3.95	1.20	.....	.....	
D 174 (12-12-57)			F	28.95	3.08	3.77	3.00	1.26	.....	.....	
D & S Super 45% Hog Balancer Medicated.....	Yes		C	45.00	3.00	5.50	.....	.....	.....	.....	
D 175 (12-12-57)			F	49.50	3.77	2.95	.....	.....	.....	.....	



D & S Booster Feed 34% Dairy Concentrate D 176 (12-12-57)	Yes		C	34.00	1.50	8.00	2.50	0.90		
			F	36.60	1.62	7.90	2.10	1.12		
D & S Booster Feed 30% Pig & Sow D 177 (12-12-57)	Yes		C	30.00	3.50	8.00	3.75	1.40		
			F	34.50	3.30	6.05	3.60	1.58		
D & S Booster Feed 40% Hog Balancer D 178 (12-12-57)	Yes		C	40.00	3.00	5.50	3.65	1.35		
			F	42.65	3.39	5.35	3.50	1.83		

DUBUQUE PACKING COMPANY, DUBUQUE, IOWA

Dubuque 60% Digester Tankage E 9745 (12-10-57) D 1598 (4-15-58)	Yes		C	60.00	5.00	3.00				
			F	59.70	6.00	1.86				
			F	64.40	6.52	1.75				
Dubuque 50% Meat & Bone Scraps E 9746 (12-10-57) D 1597 (4-15-58)	Yes		C	50.00	5.00	3.00				
			F	50.80	8.93	1.80				
			F	51.45	8.51	2.20				

DUGDALE PACKING COMPANY, ST. JOSEPH, MISSOURI

Dugdale's 60% Meat Meal Tankage D 3649 (4-24-58)	Yes		C	60.00	5.00	3.00				
			F	63.35	4.23	2.40				3

EAGLE GROVE GRAIN, EAGLE GROVE, IOWA

Eagle Brand Pig & Sow Supplement No. 1 D 3477 (6-4-58)	No	Yes	C	38.00	2.50	8.80				
			F	40.40	2.98	7.74				
Eagle Brand Poultry Balancer D 3478 (6-4-58)	No	Yes	C	33.00	2.00	9.70				
			F	35.75	3.09	7.82				

EARLHAM MILL, EARLHAM, IOWA

Earlham Pep-Mix Chick Starter Medicated D 3271 (6-18-58)	Yes		C	20.00	3.00	6.00				
			F	20.10	3.75	4.21				
Earlham Pep-Mix Growing Mash Medicated D 3270 (6-18-58)	Yes		C	18.00	3.00	7.00				
			F	19.70	4.09	5.21				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

ECON-O-MIX FEEDS, WILTON JUNCTION, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Econ-O-Mix (Hi-Cal) Egg Mash.....	Yes		C	17.00	4.50	3.50					3
D 444 (12-3-57)			F	17.95	4.52	3.34					
E 7017 (2-20-58)			F	18.65	4.06	2.92					
E 7076 (5-13-58)			F	18.05	4.21	2.53					
E 7236 (6-4-58)			F	18.10	4.80	2.63					
D 2919 (7-28-58)			F	18.40	4.75	2.49					
E 7117 (10-15-58)			F	18.35	4.42	2.80					
Econ-O-Mix Pig Starter.....	Yes		C	16.00	3.00	5.00					
D 445 (12-3-57)			F	17.65	4.35	2.57					
E 7016 (2-20-58)			F	17.50	4.22	2.88					
E 7077 (5-13-58)			F	17.30	4.43	3.17					
E 7237 (6-4-58)			F	17.00	4.48	2.82					
E 7118 (10-15-58)			F	18.25	3.87	3.11					
Econ-O-Mix Pig Starter Medicated.....	Yes		C	16.00	3.00	5.00					
D 2920 (7-28-58)			F	17.10	4.75	2.42					

ECONOMY PRODUCTS, SHENANDOAH, IOWA

Economy Excell Feed.....	Yes		C	32.00	4.00	4.00					4
D 2531 (4-29-58)			F	33.25	5.28	5.17					

EDGEWOOD FEED MILL, EDGEWOOD, IOWA

Perrinjaquet's 20% Egg Mash.....	Yes		C	20.00	4.00	7.00					
D 1599 (4-16-58)			F	21.05	4.05	5.45					
Perrinjaquet's 16% Pig Starter & Grower Medicated.....	Yes		C	16.00	3.50	5.00					
D 1600 (4-16-58)			F	17.10	4.40	3.33					

Perrinjaquet's 40% Hog Concentrate D 1451 (4-16-58)	Yes	C	40.00	2.50	7.00	4.00	1.30	0.0007	3.00
			F	41.95	4.01	5.52	3.50	1.38	0.00078
Perrinjaquet's 20% Chick Starter Medicated D 1452 (4-16-58)	Yes	C	20.00	4.00	4.75				
			F	22.00	4.58	3.55			

ELDRIDGE COOP CO., ELDRIDGE, IOWA

Felco Dairy Supplement D 2862 (7-7-58) D 7158 (11-26-58)	Yes	C	35.00	.50	8.00					
			F	38.40	2.10	5.51				
			F	39.95	1.95	6.07				
Felco Pig Grower Medicated D 7157 (11-26-58) D 7160 (11-26-58)	Yes	C	16.00	2.00	6.00					
			F	18.65	3.76	3.69				
			F	18.35	4.18	3.86				
Felco Pig Starter Medicated D 7154 (11-26-58)	Yes	C	18.00	3.00	5.00					
			F	20.65	4.95	2.86				
Felco Growing Mash D 7161 (11-26-58)	No	Yes	C	20.00	2.00	7.00				
				F	24.85	3.30	5.53			
Felco 20% Layer-Breeder E 7084 (5-19-58) D 2856 (7-7-58) D 7162 (11-26-58)	Yes	C	20.00	2.00	8.00					
			F	22.50	3.90	6.23				
			F	23.40	4.20	6.86				
			F	23.50	4.02	7.92				
Felco Growing Mash Medicated D 2852 (7-7-58)	Yes	C	20.00	2.00	7.00					
			F	23.65	3.64	6.52				
Felco Sweet Creep Medicated D 2855 (7-7-58) D 7159 (11-26-58)	Yes	C	18.00	2.00	5.00					
			F	23.60	3.95	2.81				
			F	22.50	4.20	2.43				
Felco Starting Mash Medicated D 2859 (7-7-58)	Yes	C	20.00	2.00	7.00					
			F	19.00	4.33	7.52				
Felco Pig Grower E 7203 (3-3-58) E 7082 (5-19-58) D 2851 (7-7-58)	Yes	C	16.00	2.00	6.00					
			F	19.30	3.69	4.18				
			F	17.80	3.91	4.49				
			F	19.40	3.93	4.23				
Felco Special Hog Balancer E 7205 (3-3-58) D 7152 (11-26-58)	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	
			F	40.75	2.88	7.55	2.50	1.38	0.0025	1.85
			F	43.25	3.33	7.21	2.50	1.23	0.0010	1.53

2a, 4

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
ELDRIDGE COOP CO., ELDRIDGE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Mash Builder.....	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	
E 7080 (5-19-58)			F	38.75	4.48	5.76					
D 2853 (7-7-58)			F	40.75	4.43	5.91					
D 7156 (11-26-58)			F	41.25	4.70	5.30	5.80	2.59		1.91	
Felco Special Hog Balancer.....	Yes		C	40.00	1.50	9.00					
E 7083 (5-19-58)			F	40.90	3.13	7.19					
D 2861 (7-7-58)			F	42.50	2.71	7.36					
Felco Minerals.....	Yes		C				26.00	6.00	0.01	20.00	
D 404 (12-2-57)			F				25.80	6.60	0.013	18.30	
D 7155 (11-26-58)			F				22.60	7.00	0.009	20.40	6
Felco Dry Lot Hog Supplement.....	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	
D 411 (12-2-57)			F	39.10	2.61	8.87	2.80	1.28	0.0103	2.03	
E 7204 (3-3-58)			F	37.75	3.03	9.24					
E 7081 (5-19-58)			F	38.75	4.07	8.38					
D 2857 (7-7-58)			F	36.90	3.37	9.58					4
D 7151 (11-26-58)			F	38.40	3.84	9.00					
Felco Pig Starter.....	Yes		C	18.00	3.00	5.00					
E 7201 (3-3-58)			F	21.65	4.04	3.49					
D 2854 (7-7-58)			F	22.55	4.62	3.41					
Felco Sow Supplement.....	Yes		C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	
E 7202 (3-3-58)			F	34.55	3.42	9.00	3.60	1.55	0.0013	2.24	
E 7079 (5-19-58)			F	36.45	3.97	8.15					
D 2860 (7-7-58)			F	33.80	4.34	9.40					
D 7153 (11-26-58)			F	36.20	3.68	9.03					

ELGIN COOP COMPANY, ELGIN, IOWA

Felco Special Dry Lot Hog Supplement.....	Yes		C	35.00	1.50	9.00					
D 73 (12-6-57)			F	41.05	2.93	8.08					

Felco Special Hog Balancer..... D 74 (12-6-57)	Yes	C	40.00	1.50	9.00					
		F	43.60	2.47	6.50					
Felco Mash Builder..... D 75 (12-6-57)	Yes	C	38.00	3.00	8.00					3
		F	42.10	2.57	5.94					

ELKADER COOP COMPANY, ELKADER, IOWA

Felco Mash Builder..... D 3042 (7-29-58)	Yes	C	38.00	3.00	8.00					
		F	38.80	4.64	7.01					
Felco Pig Starter Medicated..... D 3043 (7-29-58)	Yes	C	18.00	3.00	5.00					
		F	20.45	4.68	4.55					
Felco 20% Layer-Breeder..... D 3038 (7-29-58)	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00	
		F	26.45	3.34	8.29	2.10	0.98	0.0008	1.10	
Felco Special Hog Balancer..... D 3039 (7-29-58)	Yes	C	40.00	1.50	9.00					
		F	42.35	2.78	7.26					
Felco Special Dry Lot Hog Supplement..... D 3040 (7-29-58)	Yes	C	35.00	1.50	9.00					
		F	39.00	2.97	9.00					
Felco Growing Mash Medicated..... D 3041 (7-29-58)	Yes	C	20.00	2.00	7.00					
		F	22.50	3.45	5.44					

EMMETSBURG RENDERING WORKS, EMMETSBURG, IOWA

Premium Meat and Bone Meal..... D 1331 (12-27-57)	Yes	C	55.00	7.00	2.00					
		F	59.80	8.73	1.41					

EQUITY COOP OF WAUKON, WAUKON, IOWA

Midland Vita-Con 35% Pig & Sow Concentrate..... D 3049 (8-13-58)	Yes	C	35.00	2.50	7.50	4.50	1.80	0.0005	2.00	
		F	35.10	3.75	7.45	4.00	1.61	0.0042	2.44	6
Midland Vita-Con 16% Pig Feed..... D 3050 (8-13-58)	Yes	C	16.00	3.50	6.00					
		F	16.10	5.97	4.69					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
EQUITY COOP OF WAUKON, WAUKON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Midland Vita-Con High Energy 20% Layer Mash ..... D 4701 (8-13-58)	No	Yes	C F	20.00 20.10	3.50 4.03	5.00 4.22	..... .....	..... .....	..... .....	..... .....	
ERVIN LUMBER & GRAIN, MILO, IOWA											
Check-R-Mix Laying Feed (All Mash) SE..... D 3325 (5-16-58)	Yes		C F	16.00 16.90	3.00 4.43	7.00 3.67	..... .....	..... .....	..... .....	..... .....	1a
RUDY ESCHENHEIMER CO., CHILLICOTHE, MISSOURI											
Reco Dry D3 Type 3000 Vitamin D3 in Dry carrier Control..... D 2565 (11-3-58)	Yes		C F	8.50 8.50	4.00 1.85	..... .....	..... .....	..... .....	..... .....	..... .....	3
EVERGREEN HATCHERY, DYSART, IOWA											
Evergreen 35% Hog Supplement..... D 5005 (7-22-58)	Yes		C F	35.00 37.85	3.00 5.68	7.50 6.40	..... .....	..... .....	..... .....	..... .....	
Evergreen Chick Starter..... D 5008 (7-22-58)	Yes		C F	18.00 24.55	3.00 5.18	5.50 5.46	..... .....	..... .....	..... .....	..... .....	
Evergreen Chick Grower..... D 5009 (7-22-58)	Yes		C F	16.00 16.95	3.00 4.83	5.50 5.75	..... .....	..... .....	..... .....	..... .....	
Evergreen 26% Poultry Supplement..... D 5010 (7-22-58)	Yes		C F	26.00 25.55	3.00 4.84	5.50 6.73	..... .....	..... .....	..... .....	..... .....	2, 4

Evergreen Pig Starter with Sugar Medicated D 5011 (7-22-58)	Yes	C F	18.00 19.00	3.00 4.13	5.00 4.28					
Evergreen 37% Cafeteria Chicken Supplement Medicated D 5007 (7-22-58)	Yes	C F	37.00 36.05	3.00 4.70	7.00 5.59	5.00 4.60	1.00 1.40	0.0005 0.0010	3.00 1.10	2
Evergreen 40% Pig & Shoat Concentrate Medicated D 5006 (7-22-58)	Yes	C F	40.00 39.20	3.00 5.63	6.50 6.65	4.50 4.20	1.00 1.60	0.0002 0.0005	3.50 1.85	2

FAGEN ELEVATOR, KEOTA, IOWA

Fagen 35% Sow & Pig Concentrate D 6663 (11-17-58)	Yes	C F	35.00 35.80	2.50 4.16	9.00 6.61	4.00 3.80	1.10 1.22	0.001 0.0029	3.00 2.69	
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FARMCRAFT FEEDS, INC., DES MOINES, IOWA

Farmtrate Dairy D 7590 (12-18-58)	Yes	C F	38.00 36.90	3.00 2.78	6.50 6.42					2a
Pern Shotts D 7591 (12-18-58)	Yes	C F	9.00 12.45	2.00 2.47	6.00 7.47	6.00 6.90	0.60 0.99	0.001 0.003	7.00 0.64	4, 5
Y C M Mineral Premix or Supplement D 7592 (12-18-58)	Yes	C F				16.00 13.00	7.00 7.14	0.003 0.003	7.00 6.52	
B-M (Blended Mineral) 7593 (12-18-58)	Yes	C F				16.00 15.20	6.00 5.78	0.001 0.006	10.00 7.41	
Farmtrate For Swine D 7582 (12-18-58)	Yes	C F	31.00 35.05	3.00 3.00	5.00 4.00	7.00 5.30	2.00 2.40	0.001 0.001	5.00 4.60	
Chic-Gro Medicated D 7583 (12-18-58)	Yes	C F	37.00 39.60	4.00 3.53	6.00 5.80					3
Power---House Antibiotic and B-Complex Vitamin Premix Medicated D 7584 (12-18-58)	Yes	C F	1.00 17.75	0.20 1.69	0.50 1.73					4
Farmtrate Cattle & Sheep D 7585 (12-18-58)	Yes	C F	38.00 37.80	3.00 2.88	6.50 6.15					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMCRAFT FEEDS, INC., DES MOINES, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Pay-Off Special Supplement D 7586 (12-18-58)	Yes		C	20.00	1.50	5.00	4.00	0.50	0.001	2.00	
			F	28.35	1.88	4.77	3.80	1.15	0.0009	1.07	
Wean-Gro for pigs D 7587 (12-18-58)	Yes		C	21.00	3.00	1.50					
			F	24.95	3.70	1.52					
Farmtrate Poultry D 7588 (12-18-58)	Yes		C	31.00	4.00	7.00	6.00	1.50	0.001	2.00	3, 6
			F	32.80	3.19	5.98	4.00	1.40	0.0014	2.43	
Wean-Gro For Calves D 7589 (12-18-58)	Yes		C	23.00	4.00	2.00	2.00	0.80	0.001	2.50	
			F	27.60	3.90	1.42	1.60	0.91	0.0014	1.93	
Antibiotic and Vitamin Base P Medicated D 7578 (12-18-58)	Yes		C	18.00	2.50	7.00					4
			F	24.10	3.07	10.41					
Vitamin Base H D 7579 (12-18-58)	Yes		C	20.00	2.50	7.50					4
			F	24.95	2.92	15.44					
Dog Food D 7580 (12-18-58)	Yes		C	24.00	5.00	4.00					4
			F	25.25	7.10	2.92					
Farmcraft Pig Power D 7581 (12-18-58)	Yes		C	16.00	4.00	4.50					
			F	19.40	4.22	2.90					
Lasses-Power D 7574 (12-18-58)	Yes		C	11.00	1.50	13.00					3
			F	11.40	1.00	7.64					
0.0015% D.E.S. Mixture Inc In Beef-Power D 7575 (12-18-58)	Yes		C	28.00	0.50	10.00	3.00	1.40	0.0005	2.00	
			F	31.15	1.92	7.65	2.30	1.21	0.002	1.82	
Power-Pac Yeast Culture D 7576 (12-18-58)	Yes		C	10.00	3.00	5.00					2, 3
			F	9.50	0.82	2.30					
Beef-Power D 7577 (12-18-58)	Yes		C	28.00	0.50	10.00					
			F	30.05	2.02	7.80					



FARMERSBURG ELEVATOR, FARMERSBURG, IOWA

Farmersburg Poultry Mash Concentrate..... D 67 (12-6-57) D 3035 (7-29-58)	Yes	C F F	34.00 36.30 35.95	3.00 5.12 5.87	9.00 6.83 6.83	7.80 4.90	1.80 2.30	0.008 0.003	3.75 3.20	7, 8
Farmersburg Hog & Pig Concentrate..... D 68 (12-6-57) D 3036 (7-29-58)	Yes	C F F	40.00 46.60 44.00	4.50 3.75 5.52	8.00 5.73 5.43	5.50 2.00	1.50 1.50	0.0001 0.0023	2.00 2.52	3 6
Farmersburg Growing & Laying Mash..... D 69 (12-6-58) D 3037 (7-29-58)	Yes	C F F	19.00 21.50 20.35	3.50 4.65 4.83	7.00 5.82 5.62					

FAULKNER GRAIN & FEED CO., FAULKNER, IOWA

Big Ben Super 40 Hog Balancer..... D 4693 (11-10-58)	Yes	C F	40.00 43.30	4.00 4.37	7.50 6.03					
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FAUSER FEED & SUPPLY, WATERLOO, IOWA

Fauser's Check-R-Mix Sow & Pig Feed Y..... D 183 (12-12-57)	Yes	C F	14.00 16.25	3.00 3.58	7.50 4.12					
Fauser's Check-R-Mix Laying Feed (All Mash) S E..... D 184 (12-12-57)	Yes	C F	16.00 17.30	2.50 4.38	8.00 3.25					
Fauser's Check-R-Mix 16% Dairy Feed A C..... D 185 (12-12-57)	Yes	C F	16.00 18.20	2.50 3.35	12.00 5.96					

FEED PRODUCTS, INC., OMAHA, NEBRASKA

Golden Glow Dried Brewers Yeast..... D 8937 (11-13-57)	No	C F	45.00 43.75	0.40 0.58	5.00 1.48					2a
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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FEED-RITE PRODUCTS CO., CHICAGO, ILLINOIS

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Feed-Rite Vitamin Mineral for Hogs E 7037 (4-23-58)	Yes		C	.....	.....	.....	34.00	4.00	0.038	10.00	
			F	.....	.....	.....	30.50	4.51	0.06	8.01	

FEED SPECIALTIES COMPANY, DES MOINES, IOWA

Plus-Swine Foundation Pre-Mix D 1706 (2-20-58) D 3652 (3-4-58)	Yes		C	8.00	0.50	12.00	.....	.....	.....	.....	
			F	19.80	4.98	8.01	.....	.....	.....	.....	
			F	17.75	5.23	9.13	.....	.....	.....	.....	
4.4% Iodinated Casein Mixture Inc in Plus Sow Feed Foundation Pre-Mix D 3654 (3-4-58)	Yes		C	8.00	0.50	12.00	.....	.....	.....	.....	
			F	21.20	9.43	7.45	.....	.....	.....	.....	
"Plus" Pig Feed Foundation Premix Antibiotic-Vitamin Pre-Mix D 3655 (3-4-58)	Yes		C	8.00	0.50	12.00	.....	.....	.....	.....	
			F	17.45	5.88	8.32	.....	.....	.....	.....	
"Plus" Poultry Feed Foundation Pre-Mix D 3653 (3-4-58)	Yes		C	16.00	1.50	7.00	.....	.....	.....	.....	4
			F	19.20	6.05	7.87	.....	.....	.....	.....	

FLECK FEED & GRAIN COMPANY, KILLDUFF, IOWA

Fleck Complete Pig & Hog Feed D 5135 (9-30-58)	Yes		C	16.00	3.75	6.00	.....	.....	.....	.....	
			F	17.20	3.86	4.81	.....	.....	.....	.....	
Fleck Pig Supplement Medicated E 8460 (3-3-58) D 5141 (9-30-58)	Yes		C	40.00	3.00	6.00	5.00	1.80	0.0015	3.25	5
			F	41.10	3.69	5.98	.....	.....	.....	.....	
			F	39.85	4.38	5.71	6.20	2.03	0.0014	2.14	

Fleck 36% Poultry Concentrate Medicated	Yes	C	36.00	2.50	6.50	6.50	2.50	0.0007	3.00
E 8461 (3-3-58)		F	37.50	3.50	5.45				
D 5137 (9-30-58)		F	38.80	2.98	6.25	5.70	2.28	0.0009	2.34
Fleck All-Purpose Mash Medicated	Yes	C	18.00	3.50	5.50				
E 8462 (3-3-58)		F	20.50	3.59	4.79				
D 5139 (9-30-58)		F	20.20	4.08	5.14				
Fleck Dry Lot Brood Sow Supplement	Yes	C	30.00	2.50	12.00	5.00	1.25	0.001	2.00
E 8463 (3-3-58)		F	33.35	2.72	11.40				
D 5134 (9-30-58)		F	33.05	3.75	11.46	4.30	1.19	0.001	1.75
Fleck Dairy Concentrate	Yes	C	30.00	1.50	7.50	3.50	0.90	0.0007	1.50
E 8341 (11-5-57)		F	32.15	2.60	7.63				
D 5143 (10-2-58)		F	31.90	2.89	7.27	2.90	1.02	0.0010	1.39
Fleck Dry Lot Brood Sow Supplement	Yes	C	30.00	2.50	12.00				
E 8345 (11-5-57)		F	30.60	3.48	12.85				
Fleck Complete Brood Sow Meal Medicated	Yes	C	16.00	3.50	7.50				
E 8458 (3-3-58)		F	16.75	4.07	6.83				
D 5138 (9-30-58)		F	16.80	4.28	7.58				
Fleck Chick Starter Medicated	Yes	C	20.00	3.50	5.50				
E 8459 (3-3-58)		F	21.40	3.85	5.16				
Fleck 26% Balancer (Cafeteria Concentrate)									
Medicated	Yes	C	26.00	3.50	5.50	4.00	1.85	0.00045	1.60
E 8464 (3-3-58)		F	27.95	3.61	5.31				
D 5136 (9-30-58)		F	27.85	4.34	5.57	3.60	1.71	0.0011	1.50
Fleck Poultry Breeder Mash Medicated	Yes	C	20.00	3.50	6.00				
E 8466 (3-3-58)		F	21.15	3.93	5.59				
Fleck Hog Supplement	Yes	C	38.00	3.00	6.50	6.50	1.75	0.0015	3.25
E 8467 (3-3-58)		F	38.30	3.79	6.35				
D 5133 (9-30-58)		F	38.40	3.97	6.15	6.00	1.82	0.0015	2.87
Fleck Pig Grower Medicated	Yes	C	18.00	3.50	4.00				
E 8468 (3-3-58)		F	18.90	4.04	3.28				
D 5132 (9-30-58)		F	22.15	4.15	4.16				
Fleck Pig Starter Medicated	Yes	C	20.00	3.50	3.00				
E 8469 (3-3-58)		F	20.05	4.36	2.99				
D 5131 (9-30-58)		F	21.40	4.40	2.95				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FLECK FEED & GRAIN COMPANY, KILLDUFF, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Fleck Super Layer Medicated D 5140 (9-30-58)	Yes		C	21.00	3.50	6.00					
			F	21.65	4.35	5.46					
Fleck Pullet Builder Medicated D 5142 (9-30-58)	Yes		C	18.00	3.50	5.50					
			F	19.80	3.98	4.93					
Fleck Cattle Supplement D 5144 (10-2-58)	Yes		C	36.00	1.50	7.50					
			F	38.40	2.87	7.86					

FOREST CITY GRIST MILL, FOREST CITY, IOWA

Just Right 36% Cattle Supplement D 1351 (6-30-58)	Yes		C	36.00	2.00	7.50					
			F	38.00	2.17	7.03					
Just Right 34% Poultry Concentrate D 1352 (6-30-58)	Yes		C	34.00	3.50	6.00					
			F	35.55	3.42	2.32					
Just Right 40% Hog Supplement D 1353 (6-30-58)	Yes		C	40.00	2.00	7.00					
			F	41.75	3.01	6.64					

FORT DODGE BY-PRODUCTS, FORT DODGE, IOWA

Fort Brand Meat & Bone Scraps E 4593 (10-1-57)	Yes		C	50.00	6.00	3.00					
D 2213 (6-27-58)			F	51.65	6.85	2.87					
D 2301 (8-26-58)			F	53.20	9.36	2.73					
D 5164 (11-3-58)			F	51.25	11.44	1.28					
			F	50.80	10.95	1.84					
Fort Brand Feeding Tankage E 9180 (12-6-57)	Yes		C	60.00	6.00	3.00					
D 2554 (4-29-58)			F	64.50	10.36	1.47					
			F	61.05	6.60	1.66					

Fort Brand Blood Meal D 1961	(1-23-58)	Yes	C	85.00	1.00	3.00				
			F	85.45	1.69	0.35				
Fish Scrap D 261	(2-6-58)	Yes	C	60.00						
			F	65.60						
Fort Brand Fish Meal D 1956 E 2671	(1-23-58) (6-5-58)	Yes	C	60.00	5.00	2.00				
			F	64.15	8.87	0.72				
			F	60.30	10.18	0.30				

FORT DODGE FEED COMPANY, FORT DODGE, IOWA

Fort Brand Rolled Oats D 3797	(5-8-58)	Yes	C	15.00	4.00	3.00				
			F	17.50	6.12	1.96				

FORT MADISON SEED & FEED CO., FORT MADISON, IOWA

Madison Sunshine 17% Egg Mash D 313 E 7030 D 2867 D 2924	(12-11-57) (4-21-58) (7-8-58) (12-1-58)	Yes	C	17.00	3.50	7.00				
			F	18.20	4.07	6.54				
			F	18.20	4.30	6.80				
			F	16.90	3.92	6.30				
			F	18.40	4.33	6.62				

FOSTORIA COOP ELEVATOR CO., FOSTORIA, IOWA

Felco 26% No Grain Layer-Breeder D 555	(12-26-57)	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
			F	29.85	4.04	8.02	3.20	1.55	0.00173	2.26
Felco Dairy Supplement D 556	(12-26-57)	Yes	C	35.00	0.50	8.00				
			F	37.55	3.38	6.67				
Felco Special Dry Lot Hog Supplement D 558	(12-26-57)	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00
			F	37.30	4.42	8.42	3.50	1.62	0.00113	1.93
Felco Special Hog Balancer D 559	(12-26-57)	Yes	C	40.00	1.50	9.00				
			F	42.55	4.07	6.96				
Felco Mash Builder D 560	(12-26-57)	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50
			F	39.80	5.78	5.72	5.80	2.53		2.24

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

FOXBILT, INC., DES MOINES, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Foxbilt 20% Layer	Yes		C	20.00	3.00	8.00	3.20	1.20	0.001	1.20	
D 2235 (7-7-58)			F	22.20	3.88	6.40					
D 5422 (12-4-58)			F	20.65	3.96	7.31	2.60	1.12	0.0016	1.39	
D 7568 (12-8-58)			F	21.65	3.76	6.30					
Foxbilt 26% Poultry Balancer	Yes		C	26.00	2.50	8.90	5.00	1.80	0.001	1.70	
D 2236 (7-7-58)			F	26.95	4.02	8.33					
D 5418 (12-4-58)			F	27.40	3.67	8.07	3.70	1.76	0.002	1.93	
D 7572 (12-8-58)			F	28.25	3.68	8.64					
Foxbilt 20% Calf Meal Medicated	Yes		C	20.00	2.00	7.50	2.25	1.00	0.004	2.35	
D 5553 (8-14-58)			F	21.40	2.69	6.05	1.70	1.11	0.0012	1.09	8
D 5423 (12-4-58)			F	21.20	2.98	6.60					
D 7569 (12-8-58)			F	23.50	2.93	6.81					
D 7564 (12-8-58)			F	24.25	2.92	6.14	1.70	1.13	0.0014	1.52	8
Foxbilt Milk Replacer	Yes		C	21.00	8.50	0.50					
D 5248 (8-14-58)			F	21.90	8.61	0.39					
Foxbilt Fox Saturation Feed	Yes		C	33.00	4.00	6.00					
D 5250 (8-14-58)			F	40.00	2.23	6.04					
Foxcentrate 45	Yes		C	45.00	1.50	3.00	7.75	2.00	0.004	4.50	3
D 6666 (11-21-58)			F	46.80	2.93	2.66	6.70	2.65	0.005	4.21	1a
Poultrate "45"	Yes		C	45.00	2.50	3.00	7.00	3.00	0.008	4.00	1a
D 6671 (11-21-58)			F	42.10	2.83	3.20	5.60	2.93	0.0056	3.51	2a, 8
Foxbilt Chictrate	Yes		C	40.00	3.00	6.50					
D 7557 (12-8-58)			F	40.60	3.65	5.94					
Foxbilt Beef Formula Pre-Mix Medicated	Yes		C				18.00	8.50	0.012	3.00	
D 7560 (12-8-58)			F				15.80	10.12	0.011	3.25	
Foxbilt "Poultry Pre-Mix"	Yes		C	25.00	2.00	5.50	10.00	4.00	0.006	6.00	
D 7561 (12-8-58)			F	31.30	3.02	6.00	6.60	3.33	0.012	4.67	4, 7

Foxbilt "Pasture-Plus" D 7562 (12-8-58)	Yes	C F	16.00 18.85	1.25 5.74	5.50 3.56					
Foxbilt "Free Choice" Mineral Feed D 7566 (12-8-58)	Yes	C F				20.00 20.00	6.50 7.54	0.03 0.028	12.00 7.43	
Foxbilt 32% Mash-Mix D 7573 (12-8-58)	Yes	C F	32.00 34.55	2.50 3.50	8.50 8.60	6.50 3.20	2.20 1.84	0.001 0.002	2.50 2.01	7
Foxbilt Super Shoat D 4855 (6-2-58) D 5417 (12-4-58) D 7551 (12-8-58)	Yes	C F F F	35.00 40.20 39.85 39.00	3.50 4.75 4.63 3.87	8.50 7.19 7.01 7.29					
Foxbilt "Super Pig" Starter Medicated D 4854 (6-2-58) D 3300 (6-26-58) D 2234 (7-7-58) D 6670 (11-21-58) D 5425 (12-4-58) D 7570 (12-8-58)	Yes	C F F F F F	16.00 17.70 17.30 19.50 17.85 18.40 17.85	3.00 4.09 3.82 4.19 4.37 4.68 3.06	4.00 3.50 3.97 2.81 3.00 3.00 2.96	1.10 1.10	0.50 1.04	0.001 0.0015	1.00 0.87	
Foxbilt Pigtrate-M Medicated D 4313 (6-26-58)	Yes	C F	37.00 38.30	2.50 3.28	6.50 6.31					
Foxbilt "Super Chick" Pullet Developer D 2231 (7-7-58)	Yes	C F	17.00 19.20	3.00 3.56	6.50 4.96					
Foxcentrate 45 D 4851 (6-2-58) D 5249 (8-14-58) D 7558 (12-8-58)	Yes	C F F F	45.00 45.90 45.00 42.50	2.00 2.03 3.70 3.45	3.50 2.80 3.47 3.10	8.70 7.70 7.50	2.00 2.57 2.61	0.003 0.0036 0.0046	4.75 3.25 4.53	2a
Foxbilt Pigtrate Pellets D 4856 (6-2-58) D 6667 (11-21-58) D 7559 (12-8-58)	Yes	C F F F	37.00 40.80 40.05 39.40	2.50 3.00 3.47 2.94	6.50 5.36 5.33 5.90	5.25 4.40	1.75 1.99	0.005 0.0065	3.00 2.06	
Foxbilt 33% Sow & Pig Supplement D 4852 (6-2-58) D 5552 (8-14-58) D 6669 (11-21-58) D 5421 (12-4-58)	Yes	C F F F F	33.00 35.60 33.15 35.20 34.00	3.00 4.03 4.95 4.90 4.07	9.50 7.19 7.42 7.50 8.88	3.60 3.80 3.10	1.40 1.87 1.57	0.0006 0.0012 0.0009	2.00 1.45 1.35	
Foxbilt 40% Hog Balancer D 4853 (6-2-58) D 5420 (12-4-58)	Yes	C F F	40.00 40.00 44.40	3.00 3.05 3.80	8.00 7.23 8.00					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

FOXBILT, INC., DES MOINES, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Foxbilt Sheep Magic Medicated D 7553 (12-8-58)	Yes		C F	35.00 36.00	1.50 1.45	7.50 7.45	4.00 3.10	1.40 1.46	0.002 0.0035	2.25 1.47	
Foxbilt Beef Magic Cattle Wormer D 7554 (12-8-58)	Yes		C F	28.00 38.55	1.00 11.53	7.00 6.65					
Foxbilt Medicated Sheep Magic Formula "500" D 7555 (12-8-58)	Yes		C F	35.00 36.75	1.50 1.47	7.50 7.38					
Foxbilt Mineral Mixture Medicated D 7556 (12-8-58)	Yes		C F				15.00 15.00	4.50 5.34	0.005 0.029	31.00 26.20	
Foxbilt "Super 40%" Hog Balancer D 5419 (12-4-58) D 7565 (12-8-58)	Yes		C F F	40.00 41.50 40.70	3.00 4.25 4.41	7.00 6.97 6.75					
Foxbilt Complete Layer D 5424 (12-4-58) D 7563 (12-8-58)	Yes		C F F	17.00 18.40 19.00	3.00 3.37 3.38	5.00 5.47 4.72	2.50 1.90	1.00 0.75	0.0002 0.0012	0.70 0.58	
Foxbilt 32% Dairy Concentrate Medicated D 5426 (12-4-58) D 7571 (12-8-58)	Yes		C F F	32.00 33.75 35.50	0.75 1.04 1.60	6.50 7.33 7.45					4 4
Foxbilt Beef Magic Medicated D 7552 (12-8-58)	Yes		C F	33.00 37.95	1.00 2.05	7.00 6.63					

JOHN L. FRANKS & CO., MILO, IOWA

Fran-Co 20% Pig Starter D 3890 (6-3-58)	Yes		C F	20.00 21.25	3.00 4.38	4.00 2.81					
Fran-Co 18% Pig & Sow D 3891 (6-3-58)	Yes		C F	18.00 19.20	3.00 3.37	6.50 5.91					



Fran-Co 30% Hog Supplement D 3892 (6-3-58)	Yes	C	30.00	2.00	9.00					
		F	31.45	2.53	8.80					
Fran-Co 24% Calf Starter D 3893 (6-3-58)	Yes	C	24.00	2.36	6.20					
		F	26.90	3.74	6.36					
Fran-Co 0.0022% D.E.S. Mix Inc In 33% Special Mix D 3894 (6-3-58)	Yes	C	33.00	2.50	6.00					4
		F	32.60	2.68	7.14					
Fran-Co 40% Hog Supplement D 3895 (6-3-58)	Yes	C	40.00	2.00	6.50					
		F	40.00	2.31	6.28					
Fran-Co 32% Dairy Concentrate D 3882 (6-3-58)	Yes	C	32.00	2.00	7.00					
		F	32.00	2.37	7.00					
Fran-Co 22% Catlmo D 3883 (6-3-58)	Yes	C	22.00	2.00	8.50					
		F	21.90	2.13	5.11					
Fran-Co 18% Growing Mash D 3884 (6-3-58)	Yes	C	18.00	3.00	5.50					
		F	19.20	3.84	4.37					
Fran-Co Catlmo-12% D 3885 (6-3-58)	Yes	C	12.00	1.00	14.00					
		F	16.25	1.57	7.55					
Fran-Co 18% Laying Mash D 3886 (6-3-58)	Yes	C	18.00	3.00	5.50					
		F	18.30	3.73	4.40					
Fran-Co 21% High Energy Chick Starter D 3887 (6-3-58)	Yes	C	21.00	2.50	4.50					2
		F	20.50	3.58	4.41					
Fran-Co 32% Poultry Concentrate D 3888 (6-3-58)	Yes	C	32.00	2.50	8.00					
		F	34.45	3.65	7.63					
Fran-Co 26% Cafeteria Egg Mash D 3889 (6-3-58)	Yes	C	26.00	3.00	8.00					2, 4
		F	25.10	4.41	8.87					

FREDERICKSBURG FARMERS COOP, FREDERICKSBURG, IOWA

Felco Sow Supplement D 6536 (12-12-58)	Yes	C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	
		F	33.25	3.47	10.69	4.00	1.55	0.0013	2.16	4
Felco Calf Meal D 6535 (12-12-58)	Yes	C	20.00	2.00	8.00					
		F	23.65	3.27	4.66					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FREDERICKSBURG FARMERS COOP, FREDERICKSBURG, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Dairy Supplement..... D 6537 (12-12-58)	Yes		C F	35.00 35.80	0.50 2.22	8.00 7.06	.....	.....	.....	.....	
FREDERIKA MILL, FREDERIKA, IOWA											
Frederika 18% Laying Mash..... D 151 (12-10-57)	Yes		C F	18.00 18.10	3.00 3.70	8.50 6.40	.....	.....	.....	.....	
FRIDLEY FEED MILL, SUMNER, IOWA											
Fridley's Quality 20% Egg Mash..... D 159 (12-10-57)	Yes		C F	20.00 19.75	4.00 4.15	6.00 6.15	.....	.....	.....	.....	
Fridley's 40% Hog Balancer..... D 160 (12-10-57)	Yes		C F	40.00 41.40	2.00 4.11	6.50 5.28	.....	.....	.....	.....	
E. E. FRITH COMPANY, DUBUQUE, IOWA											
Frith's Meat Scraps..... E 9744 (12-10-57) D 3008 (7-15-58)	Yes		C F F	50.00 57.25 53.10	3.00 15.25 7.64	7.00 1.60 1.50	.....	.....	.....	.....	
Frith's "Blue Boy" Digester Tankage..... E 9743 (12-10-57) D 3007 (7-15-58)	Yes		C F F	60.00 60.00 63.75	5.00 11.73 8.02	3.00 1.28 1.08	.....	.....	.....	.....	1a

Fruen's Mixer's Pulverized White Oats..... D 878 (6-27-58)	Yes	C	10.00	2.50	15.00					
		F	10.15	2.96	15.42					
Dust On..... D 4102 (9-3-58)	No	C	14.00	8.00	14.00					
		F	14.60	8.55	11.76					

FARMERS ELEVATOR CO., INC., ACKLEY, IOWA

Lion's Hog Balancer..... D 4532 (8-14-58)	Yes	C	40.00	5.00	7.00					4
		F	40.20	5.58	9.00					
Lion's Laying Mash..... D 4533 (8-14-58) D 4566 (9-18-58)	Yes	C	20.00	4.00	7.00					2a
		F	16.65	3.87	6.93					
		F	21.65	4.62	7.00					

FARMERS ELEVATOR CO., ALBURNETT, IOWA

Wayne-Mix (10) Starter Medicated..... D 4715 (8-15-58)	Yes	C	20.00	3.50	5.50					
		F	21.70	4.47	4.73					
Farmers Beef-Gro 26% Dry Lot Supplement..... D 4717 (8-15-58)	Yes	C	26.00	1.50	6.00	9.50	1.75	0.0009	3.00	4
		F	29.45	4.26	6.93	5.70	1.84	0.0015	2.43	
Farmer's Markitop 33% Hog Concentrate..... D 4716 (8-15-58)	Yes	C	33.00	2.00	8.00	7.00	1.50	0.0029	2.00	
		F	35.80	5.19	6.97	4.80	2.12	0.0033	1.73	
Gain Fast Pig Starter..... D 4711 (8-15-58)	Yes	C	18.50	4.00	4.00					
		F	21.40	5.61	1.99					
Wayne-Mix (10) Layer..... D 4712 (8-15-58)	Yes	C	18.00	3.50	5.50					
		F	19.85	4.25	4.92					
Wayne-Mix (10) Pig Starter Medicated..... D 4713 (8-15-58)	Yes	C	17.00	3.00	6.00					
		F	17.95	3.20	5.25					
Wayne-Mix (10) Grower..... D 4714 (8-15-58)	Yes	C	18.00	3.50	5.50					
		F	18.80	4.08	5.15					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS COOP ELEVATOR CO., ARCADIA, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Special Hog Balancer.....	Yes		C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	2
D 6001 (10-29-58)			F	39.95	5.18	7.02					
D 6002 (10-29-58)			F	39.40	4.98	7.23	3.90	1.54	0.00085	2.15	
Felco Pig Starter.....	Yes		C	18.00	3.00	5.00					
D 6003 (10-29-58)			F	19.85	5.49	3.76					
Felco Sweet Creep.....	No	Yes	C	18.00	2.00	5.00					
D 6004 (10-29-58)			F	22.25	5.15	2.49					
Felco Pig Grower.....	Yes		C	16.00	2.00	6.00					
D 6005 (10-29-58)			F	18.30	4.39	3.94					
Felco Sow Supplement.....	Yes		C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	
D 6006 (10-29-58)			F	34.60	4.85	8.31	3.70	1.50	0.0064	2.77	
D 6007 (10-29-58)			F	32.90	5.03	9.10					
Felco 26% No Grain Layer-Breeder.....	Yes		C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
D 6008 (10-29-58)			F	28.70	4.52	7.41	3.20	1.47	0.0012	2.06	
D 6011 (10-29-58)			F	28.95	2.85	6.95					
Felco Mash Builder.....	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	
D 6010 (10-29-58)			F	40.55	5.67	5.34	4.80	1.92		1.86	
D 6012 (10-29-58)			F	40.25	5.68	5.84					
Arcadia Beef Supplement.....	Yes		C	32.00	3.00	9.00					3
D 6013 (10-29-58)			F	35.60	2.54	7.21					

FARMERS ELEVATOR CO., ASHTON, IOWA

Felco Dairy Supplement.....	Yes		C	35.00	0.50	8.00					
D 2191 (11-12-58)			F	35.00	4.07	7.28					

Felco 26% No Grain Layer-Breeder D 2192 (11-12-58)	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
		F	28.40	4.70	8.38	3.40	1.38	0.0028	0.73	
Felco 0.0022% D.E.S. Mix Inc. In Steak Maker D 2187 (11-12-58)	Yes	C	41.00	0.50	9.00					
		F	41.65	4.73	6.84					
Felco Special Dry Lot Hog Supplement D 2188 (11-12-58)	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	4
		F	35.00	4.59	9.54	3.80	1.80	0.0012	1.96	
Farmers Creep Feed D 2189 (11-12-58)	Yes	C	15.50	4.00	4.50					2
		F	14.70	5.87	2.72					
Felco Pig Starter Medicated D 2190 (11-12-58)	Yes	C	18.00	3.00	5.00					
		F	21.60	4.15	3.63					

FARMERS CO-OP CREAMERY ASSOCIATION, AVOCA, IOWA

Golden Nugget Dried Buttermilk Powder Poultry & Animal Feed D 7125 (11-12-58)	No	C	30.00	5.00						
		F	33.48	8.60						

FARMERS COOPERATIVE COMPANY, BARNES CITY, IOWA

B.C. 40% Hog Concentrate D 4942 (7-15-58)	Yes	C	40.00	2.50	7.00	4.00	1.30	0.0007	3.00	
		F	41.70	4.02	5.08	3.30	1.30	0.001	2.60	
B.C. 16% Pig Starter Medicated D 4943 (7-15-58)	Yes	C	16.00	3.50	4.00					
		F	16.55	4.27	3.71					
B.C. 16% Chick Grower D 4944 (7-15-58)	Yes	C	16.00	4.00	6.50					
		F	16.90	4.76	4.63					
B.C. 35% Sow & Pig Concentrate D 4945 (7-15-58)	Yes	C	35.00	2.50	9.00	4.00	1.10	0.001	3.00	
		F	35.20	3.53	8.10	4.00	1.40	0.001	3.00	
B.C. 20% Egg Mash D 4946 (7-15-58)	Yes	C	20.00	4.00	7.00					
		F	21.70	4.34	4.81					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

FARM SERVICE, BREDA, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Farm Service 0.0022% D.E.S. Mix Inc. In Complex 40 Cattle Supplement D 1935 (2-27-58)	Yes		C	40.00	0.60	12.00					
			F	42.05	3.00	7.32					
"Production-Feed" Sow Balancer D 1934 (2-27-58)	Yes		C	31.00	2.20	9.50					
			F	33.25	3.42	9.72					

FARMERS CO-OP COMPANY, BRITT, IOWA

Co-Op Special Mixing Concentrate E 7854 (12-13-57)	Yes		C	36.00	2.50	7.00	7.00	2.00	0.0006	2.50	
			F	38.05	3.01	6.08	5.40	2.00	0.00134	2.71	
Co-Op Super 40% Hog Balancer E 7853 (12-13-57)	Yes		C	40.00	3.00	8.00	5.00	2.00	0.0007	2.50	6, 7
			F	43.35	3.27	7.06	2.40	1.23	0.00136	3.18	
Coop Open Formula Hog Concentrate 40 Medicated D 6514 (12-1-58)	Yes		C	40.00	2.50	6.50	5.50	2.00	0.001	3.00	
			F	41.00	2.45	5.62	4.00	2.15	0.0017	2.95	

FARMERS CO-OP ELEVATOR, BUFFALO CENTER, IOWA

Felco Pig Starter Medicated D 717 (4-8-58)	Yes		C	18.00	3.00	5.00					
			F	22.60	4.41	3.85					
Felco Sweet Creep Medicated D 718 (4-8-58)	Yes		C	18.00	2.00	5.00					
			F	21.65	3.39	3.20					
Felco Mash Builder D 6375 (10-29-58)	Yes		C	38.00	3.00	8.00					
			F	40.05	4.61	5.72					

Felco Special Hog Balancer..... D 6376 (10-29-58)	Yes	C	40.00	1.50	9.00				
		F	42.65	3.20	7.32				
Felco 26% No Grain Layer-Breeder..... D 713 (4-8-58)	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
		F	29.10	4.22	8.15	3.80	1.70	0.0007	2.14
Felco Special Dry Lot Hog Supplement..... D 714 (4-8-58)	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00
D 6378 (10-29-58)		F	36.80	4.08	8.86	3.80	1.61	0.00085	1.96
		F	37.15	4.24	8.56				
Felco Dairy Supplement..... D 715 (4-8-58)	Yes	C	35.00	0.50	8.00				
D 6377 (10-29-58)		F	35.10	1.90	6.35				
		F	34.85	1.96	7.39				
Felco Sow Supplement..... D 716 (4-8-58)	Yes	C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00
		F	33.85	3.94	9.35	4.23	1.69	0.001	2.42

FARMERS GRAIN CO., INC., CARLISLE, IOWA

Nature-Trait Staff O Life 16% Complete Dairy..... D 5559 (8-18-58)	Yes	C	16.00	3.50	8.50				
		F	16.30	4.12	5.97				
Farmers Arsanilic Acid Mix Inc In Nature-Trait for poultry..... D 5558 (8-18-58)	No	C	37.00	3.25	8.00				
		F	37.20	5.28	6.76				
Nature-Trait Staff O Life Pig Pre-Starter..... D 5562 (8-18-58)	Yes	C	18.00	4.00	5.50				
		F	19.25	3.95	3.15				
Nature-Trait Staff O Life 18% Egg Mash..... D 5561 (8-18-58)	Yes	C	18.00	3.50	7.00				
		F	19.65	4.20	4.95				
Farmers Improved No. 1 16% Layer (All Mash)..... D 5560 (8-18-58)	Yes	C	16.00	3.50	6.50				
		F	16.80	4.16	4.78				

FARMERS CO-OP COMPANY, CEDAR FALLS, IOWA

Felco 26% No Grain Layer-Breeder..... D 4689 (11-10-58)	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
		F	29.80	4.32	7.85	2.70	1.40	0.0008	1.82
Felco 20% Layer-Breeder..... D 4690 (11-10-58)	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00
		F	23.85	5.13	7.10	2.70	1.17	0.0012	1.85

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS COOP COMPANY, CEDAR FALLS, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Dairy Supplement..... D 4691 (11-10-58)	Yes		C	35.00	0.50	8.00	.....	.....	.....	.....	
			F	36.50	3.76	6.15	.....	.....	.....	.....	
Felco Sow Supplement..... D 4692 (11-10-58)	Yes		C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	4
			F	33.90	5.95	10.10	3.80	1.69	0.0013	2.00	

FARMERS SUPPLY COMPANY, CEDAR RAPIDS, IOWA

Energy 40% Hog Supplement..... D 3876 (5-14-58)	Yes		C	40.00	3.00	7.50	.....	.....	.....	.....	
			F	41.60	3.56	5.10	.....	.....	.....	.....	
Energy Mash Maker..... D 3877 (5-14-58)	Yes		C	36.00	3.00	7.50	.....	.....	.....	.....	
			F	37.40	3.21	5.71	.....	.....	.....	.....	
Energy 32% Dairy Concentrate..... D 3878 (5-14-58)	Yes		C	32.00	2.50	7.50	.....	.....	.....	.....	
			F	39.60	2.33	6.52	.....	.....	.....	.....	

FARMERS COOP EXCHANGE, CENTRAL CITY, IOWA

Felco Mash Builder..... D 1593 (4-8-58)	Yes		C	38.00	3.00	8.00	6.00	1.00	.....	2.50	
			F	38.55	5.11	6.82	5.90	2.58	.....	2.44	
Felco Special Hog Balancer..... D 1596 (4-8-58)	Yes		C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	
			F	41.35	3.02	8.80	2.60	1.23	0.00065	1.60	
Felco Special Dry Lot Hog Supplement..... D 1594 (4-8-58)	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	4
			F	35.85	4.35	10.53	2.90	1.23	0.00135	1.75	



FARMERS COOPERATIVE COMPANY, CLEGHORN, IOWA

Coop 20% Egg Mash..... D 2332 (9-3-58)	Yes	C F	20.00 20.00	3.00 4.91	3.00 6.39	2.50 2.00	1.00 1.09	0.0002 0.0006	1.50 1.55	4
Creep Feed..... D 2333 (9-3-58)	Yes	C F	16.84 16.40	5.84 5.06	3.05 2.49					2, 3
Molasses Cattle Feed Supplement..... D 2330 (9-3-58)	Yes	C F	32.00 34.25	4.00 1.55	6.00 9.92					3, 4

FARMERS COOP GRAIN & LUMBER CO., CONROY, IOWA

Felco Mash Builder..... E 4858 (12-5-57) D 5035 (7-25-58)	Yes	C F F	38.00 38.90 38.70	3.00 5.04 4.78	8.00 6.21 5.85					
Felco Special Hog Balancer..... E 4859 (12-5-57) D 5032 (7-25-58)	Yes	C F F	40.00 42.95 41.95	1.50 3.52 2.35	9.00 7.49 7.05					
Felco Sow Supplement..... E 4860 (12-5-57) D 5033 (7-25-58)	Yes	C F F	32.00 34.40 33.35	2.00 3.38 3.78	9.00 10.27 9.37					4
Felco Dairy Supplement..... E 4861 (12-5-57) D 5029 (7-25-58)	Yes	C F F	35.00 36.55 38.80	0.50 3.12 1.36	8.00 7.29 7.03					
Felco 26% No Grain Mash..... E 4862 (12-5-57)	Yes	C F	26.00 28.90	2.00 3.01	9.00 8.45					
Felco 0.0011% D.E.S. Mix Inc. in Beef Builder..... E 4863 (12-5-57)	Yes	C F	35.00 37.10	0.50 2.95	9.00 7.50					
Felco Beef Supplement..... E 4864 (12-5-57) D 5030 (7-25-58)	Yes	C F F	35.00 37.25 38.15	0.50 3.11 1.22	9.00 6.00 6.86					
Felco 20% Layer-Breeder..... E 4865 (12-5-57) D 5026 (7-25-58)	Yes	C F F	20.00 23.95 23.60	2.00 3.81 4.69	8.00 7.25 6.96					
Felco Special Dry Lot Hog Supplement..... D 5027 (7-25-58) E 4866 (12-5-57)	Yes	C F F	35.00 36.75 37.45	1.50 3.54 3.46	5.00 8.73 9.65					4

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS COOP GRAIN & LUMBER CO., CONROY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco 26% No Grain Layer-Breeder D 5028 (7-25-58)	Yes		C	26.00	2.00	9.00					
			F	28.00	3.24	7.73					
Felco Starting Mash Medicated D 5031 (7-25-58)	Yes		C	20.00	2.00	7.00					
			F	23.75	3.33	5.93					
Felco 0.0011% D.E.S. Mix Inc. In Beef Builder D 5034 (7-25-58)	Yes		C	35.00	0.50	9.00					
			F	37.05	1.27	6.35					
Felco Growing Mash Medicated D 5036 (7-25-58)	Yes		C	20.00	2.00	7.00					
			F	22.80	3.25	5.35					

FARMERS FEED & MILLING CO., CORWITH, IOWA

Murphy's Vig-O-Ray Grain Balancer D 863 (6-5-58)	Yes		C	25.00	2.00	9.00					
			F	28.45	4.53	9.05					
Murphy's Cut-Cost 40% Hog Balancer D 864 (6-5-58)	Yes		C	40.00	2.00	8.00					
			F	39.60	3.85	7.02					
Murphy's Vig-O-Ray Starting Mash D 865 (6-5-58)	Yes		C	18.00	3.00	7.00					
			F	19.70	3.80	6.15					
Murphy's Cut-Cost Creep Feed for Pigs Medicated D 866 (6-5-58)	Yes		C	16.00	2.50	6.00					
			F	18.55	5.00	3.35					

FARMERS COOP COMPANY, CRESTON, IOWA

Felco 20% Layer-Breeder D 2541 (4-29-58)	Yes		C	20.00	2.00	8.00					
			F	23.65	3.61	8.38					

Felco Special Pig & Sow Meal D 2542 (4-29-58)	Yes	C	20.00	2.00	9.00				
		F	23.15	4.29	8.98				
Felco 26% No Grain Layer-Breeder D 2543 (4-29-58)	Yes	C	26.00	2.00	9.00				
		F	29.00	3.35	8.16				
Felco Growing Mash Medicated D 2544 (4-29-58)	Yes	C	20.00	2.00	7.00				
		F	21.80	4.09	5.37				
Felco Dairy Supplement D 2552 (4-29-58)	Yes	C	35.00	0.50	8.00				2
		F	34.40	1.77	4.44				
Felco 0.022% D.E.S. Mix Inc. in Steak Maker. D 2547 (4-29-58)	Yes	C	41.00	0.50	9.00				
		F	44.15	3.47	6.56				
Felco Special Dry Lot Hog Supplement D 2533 (4-29-58)	Yes	C	35.00	1.50	9.00				
		F	37.00	4.75	9.23				
Felco Starting Mash Medicated D 2534 (4-29-58)	Yes	C	20.00	2.00	7.00				
		F	22.40	3.41	5.62				
Felco Special Hog Balancer D 2536 (4-29-58)	Yes	C	40.00	1.50	9.00				
		F	41.80	4.88	7.09				
Felco Special Dry Lot Hog Supplement Medi- cated D 2535 (4-29-58)	Yes	C	35.00	1.50	9.00				4
		F	36.05	4.75	9.76				
Felco Pig Starter Medicated D 2537 (4-29-58)	Yes	C	18.00	3.00	5.00				
		F	20.65	5.31	3.52				
Felco Beef Supplement "B" D 2538 (4-29-58)	Yes	C	41.00	0.50	9.00				
		F	46.15	2.60	6.63				
Felco Sow Supplement D 2539 (4-29-58)	Yes	C	32.00	2.00	9.00				4
		F	33.80	4.26	10.26				
Felco Sweet Creep Medicated D 2540 (4-29-58)	Yes	C	18.00	2.00	5.00				
		F	21.45	4.12	3.31				

FARMERS COOP ELEVATOR CO., DALLAS CENTER, IOWA

Felco Special Dry Lot Hog Supplement D 3436 (11-26-58)	Yes	C	35.00	1.50	9.00				
		F	35.90	3.74	7.58				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS COOP ELEVATOR CO., DALLAS CENTER, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Pig Starter D 3437 (11-26-58)	Yes		C	18.00	3.00	5.00					
			F	19.60	5.80	3.27					
Felco 18% Egg Maker D 3438 (11-26-58)	Yes		C	18.00	2.50	8.00					
			F	21.40	3.67	5.50					
Felco All Mash D 3439 (11-26-58)	Yes		C	16.00	2.50	8.00					
			F	18.75	4.16	5.33					
Felco 0.0011% D.E.S. Mix Inc. In Beef Builder D 3432 (11-26-58)	Yes		C	35.00	0.50	9.00					
			F	39.60	1.40	6.25					
Felco Special Hog Balancer D 3433 (11-26-58)	Yes		C	40.00	1.50	9.00					
			F	40.80	3.83	6.40					
Felco 26% No Grain Layer-Breeder D 3434 (11-26-58)	Yes		C	26.00	2.00	9.00					
			F	28.25	2.80	6.86					
Felco Dairy Supplement D 3435 (11-26-58)	Yes		C	35.00	0.50	8.00					
			F	36.40	2.24	6.48					
Felco Dairy Ration D 3440 (11-26-58)	Yes		C	16.00	2.00	8.00					
			F	20.00	3.82	6.75					
Felco Mash Builder D 3441 (11-26-58)	Yes		C	38.00	3.00	8.00					
			F	38.80	3.90	5.64					
Felco Pig Grower D 3442 (11-26-58)	Yes		C	16.00	2.00	6.00					
			F	19.20	3.34	4.16					

FARMERS COOP COMPANY, DIKE, IOWA

Felco 41% Expeller Soybean Oil Meal.....	Yes	C	41.00	3.50	7.00					
D 4720 (8-15-58)		F	44.90	5.04	6.15					
D 4555 (8-20-58)		F	42.65	3.91	6.99					
D 4568 (9-18-58)		F	43.95	4.54	6.11					
Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	4
D 4553 (8-20-58)		F	36.50	4.48	9.94	3.00	1.19	0.0008	1.62	
Felco Mash Builder.....	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50	2a
D 4554 (8-20-58)		F	37.00	5.38	7.35	5.40	1.89		1.96	
D 4573 (9-26-58)		F	39.45	4.97	6.40					
Felco Pig Starter.....	Yes	C	18.00	3.00	5.00					
D 4556 (8-20-58)		F	20.60	4.97	3.60					
Felco 0.0011% D.E.S. Mix Inc In Beef Builder.....	Yes	C	35.00	0.50	9.00					
D 4557 (8-20-58)		F	36.30	4.32	7.45					
Felco Special Pig & Sow Meal.....	Yes	C	20.00	2.00	9.00					
D 4558 (8-20-58)		F	22.40	4.59	8.80					
Felco 20% Layer-Breeder.....	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00	
D 4559 (8-20-58)		F	22.75	4.15	7.72	3.40	1.13	0.00095	1.73	
Felco Sow Supplement.....	Yes	C	32.00	2.00	9.00					4
D 4560 (8-20-58)		F	33.50	4.69	9.89					
Felco 26% No Grain Layer-Breeder.....	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
D 4561 (8-20-58)		F	27.65	4.50	8.17	4.20	1.55	0.00114	2.11	
Felco Beef Supplement.....	Yes	C	35.00	0.50	9.00					
D 4562 (8-20-58)		F	37.65	3.55	7.08					
Felco 0.0022% D.E.S. Mix Inc In Steak Maker.....	Yes	C	41.00	0.50	9.00					
D 4563 (8-20-58)		F	44.55	3.74	7.44					
Felco Dairy Supplement.....	Yes	C	35.00	0.50	8.00					2a
D 4564 (8-20-58)		F	32.90	3.88	7.99					
D 4574 (9-26-58)		F	34.85	3.42	6.92					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

FARMERS GRAIN & LUMBER CO., DOWS, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Farmers Quality 20% Laying Mash D 229 (12-23-57)	Yes		C	20.00	3.00	7.50					
			F	21.80	4.31	5.28					
Farmers Quality 26% Grain Balancer D 230 (12-23-57)	Yes		C	26.00	2.50	9.00					
			F	28.80	4.33	8.49					

FARMERS SHIPPING ASSOCIATION, DYERSVILLE, IOWA

F.S.A. Thirty-Five Dairy Supplement D 3009 (7-15-58)	Yes		C	35.00	0.52	8.00					2a
			F	33.75	2.93	7.70					
F.S.A. Forty Hog Supplement D 3010 (7-15-58)	Yes		C	40.00	4.00	6.00					
			F	41.85	5.65	6.25					
F.S.A. Pig Starter Concentrate D 3011 (7-15-58)	Yes		C	30.00	3.00	4.00					
			F	29.60	5.18	3.72					
F.S.A. Pig Grower Concentrate Medicated D 3012 (7-15-58)	Yes		C	37.00	4.50	7.00					
			F	38.90	5.35	6.50					
F.S.A. Pig Starter Medicated D 3013 (7-15-58)	Yes		C	14.00	3.00	3.00					
			F	16.05	5.20	2.37					

FARMERS UNION COOP, DYERSVILLE, IOWA

Farmer's Best 26% Egg Balancer D 1486 (5-6-58)	Yes		C	26.00	4.00	9.00					
			F	28.55	5.42	6.88					
Farmer's Best 16% Pig Meal D 1487 (5-6-58)	Yes		C	16.00	3.50	6.50					
			F	16.90	4.45	4.68					

Farmer's Best 18% Egg Mash..... D 1488 (5-6-58)	Yes	C	18.00	4.00	7.00				
		F	20.40	4.13	5.00				
Farmer's Best 37% Hog Balancer..... D 1489 (5-6-58)	Yes	C	37.00	2.50	7.00				
		F	38.85	4.60	6.86				

FARMERS COOP ASSOCIATION, EAGLE GROVE, IOWA

Farmers Creep Feed..... D 4657 (10-2-58)	Yes	C	15.00	4.00	4.00				
		F	16.90	4.22	2.55				
Coop Open Formula Chick Starter-Grower Medicated ..... D 4658 (10-2-58)	Yes	C	18.00	3.50	6.00				
		F	19.70	3.75	4.92				
Coop 32% Dairy Concentrate..... D 4659 (10-2-58)	Yes	C	32.00	1.50	12.00	2.50	1.00	0.0007	2.00
		F	35.20	1.50	7.95	2.40	0.81	0.00099	2.34
Coop Open Formula Hog Concentrate-40 Medi- cated ..... D 4653 (10-2-58)	Yes	C	40.00	2.50	6.50	5.50	2.00	0.001	3.00
		F	40.00	2.85	6.71	3.70	1.80	0.0028	2.81
Coop Open Formula Layer Concentrate-32 Medicated ..... D 4654 (10-2-58)	Yes	C	32.00	5.50	6.50	8.50	1.75	0.0005	2.25
		F	34.00	6.12	5.25	8.10	1.58	0.0009	2.24
Coop Open Formula Hog Concentrate-35 Medicated ..... D 4655 (10-2-58)	Yes	C	35.00	2.50	9.00	5.50	2.00	0.001	3.00
		F	36.45	2.93	8.87	4.00	1.82	0.0012	3.12
Coop Open Formula Sow Concentrate..... D 4656 (10-2-58)	Yes	C	35.00	3.00	9.00	5.50	2.00	0.001	3.00
		F	36.40	4.44	8.89	4.80	2.03	0.0015	3.02

FARMERS COOP COMPANY, ELLSWORTH, IOWA

Coop Open Formula Layer Concentrate-32 Medicated ..... D 1226 (7-1-58)	Yes	C	32.00	5.50	6.50				
		F	33.95	3.99	6.57				
Laying Mash..... D 1227 (7-1-58)	Yes	C	18.00	3.00	8.50				
		F	19.65	4.10	7.37				

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS COOP COMPANY, ELLSWORTH, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Coop Open Formula Layer Concentrate-26 Medicated D 1228 (7-1-58)	Yes		C F	26.00 26.55	5.00 4.68	6.50 6.26					
Coop Open Formula Chick Starter-Grower Medicated D 1229 (7-1-58)	Yes		C F	18.00 19.35	3.50 3.75	6.00 5.50					
Coop Open Formula Sow Concentrate D 1222 (7-1-58)	Yes		C F	35.00 37.25	3.00 4.70	9.00 8.22					
Coop Open Formula Hog Concentrate-40 Medicated D 1223 (7-1-58)	Yes		C F	40.00 39.10	2.50 3.62	6.50 6.46					2
Coop 35% Beef Cattle Supplement D 1224 (7-1-58)	Yes		C F	35.00 38.95	1.00 1.22	11.00 8.64					
Coop Open Formula Pig Starter Complete Medicated D 1225 (7-1-58)	Yes		C F	18.00 20.50	5.00 4.47	3.50 3.29					3

FARMERS COOP ELEVATOR CO., EVERLY, IOWA

Everly Rolled Oats D 2013 (8-15-58)	Yes		C F	14.00 15.35	5.50 8.90	2.50 1.39					
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FARMERS COOPERATIVE CO., FARNHAMVILLE, IOWA

Felco Beef Supplement D 1982 (3-21-58)	Yes		C F	35.00 36.60	0.50 3.52	9.00 7.76					
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Felco Dairy Supplement D 1983 (3-21-58)	Yes	C	35.00	0.50	8.00					2
		F	33.40	3.85	6.94					
Felco 26% No Grain Layer-Breeder D 1984 (3-21-58)	Yes	C	26.00	2.00	9.00					
		F	27.65	4.18	8.53					
Co-Op Hog Balancer D 1985 (3-21-58)	Yes	C	36.00	4.00	8.00					
		F	40.50	5.20	7.95					
Felco Mash Builder D 1986 (3-21-58)	Yes	C	38.00	3.00	8.00					
		F	38.00	5.70	6.20					
Felco Sow Supplement D 1987 (3-21-58)	Yes	C	32.00	2.00	9.00					4
		F	35.65	5.23	9.92					

FARMERS CERTIFIED MILLS, FERTILE, IOWA

Farmers Certified Pork Packer D 1275 (3-17-58)	Yes	C	30.00	2.50	6.50					
		F	32.75	3.98	5.92					
Farmers Certified Poultry Supertrate D 6370 (10-29-58)	Yes	C	35.00	1.50	7.50	6.50	1.50	0.0005	3.00	
		F	36.40	4.07	7.74	5.20	2.07	0.0010	2.54	
Farmers Certified Hog Supertrate D 1271 (3-17-58) D 6369 (10-29-58)	Yes	C	38.00	2.00	7.00	8.00	2.00	0.0005	3.00	
		F	38.10	4.66	7.30					
		F	39.85	5.14	6.72	5.90	1.94	0.0019	3.10	
Farmers Certified Eggtrate D 1272 (3-17-58)	Yes	C	35.00	1.50	6.00					4
		F	36.65	4.56	6.95					
Farmers Certified Chick Starter D 1273 (3-17-58)	Yes	C	21.00	2.50	4.50					4
		F	24.85	4.46	4.93					
Farmers Certified Honey-Sweet Dairy & Beef Concentrate D 1274 (3-17-58)	Yes	C	36.00	1.00	8.00					
		F	37.80	2.71	7.37					

FARMERS CO-OP ELEVATOR ASSOCIATION, FOREST CITY, IOWA

Felco Special Hog Balancer D 6525 (12-5-58)	Yes	C	40.00	1.50	9.00					
		F	43.60	3.12	7.78					

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## FARMERS CO-OP ELEVATOR ASSOCIATION, FOREST CITY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco 26% No Grain Layer-Breeder D 6526 (12-5-58)	Yes		C	26.00	2.00	9.00					
			F	30.20	3.11	8.88					
Felco Sow Supplement D 6521 (12-5-58)	Yes		C	32.00	2.00	9.00					4
			F	35.60	3.64	10.47					
Felco Dairy Supplement D 6522 (12-5-58)	Yes		C	35.00	0.50	8.00					
			F	37.25	0.82	7.61					
Felco Special Dry Lot Hog Supplement D 6523 (12-5-58)	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	4
			F	38.00	3.67	9.98	3.50	1.45	0.0008	2.00	
Felco Mash Builder D 6524 (12-5-58)	Yes		C	38.00	3.00	8.00					
			F	38.20	4.58	6.52					

## FARMERS ELEVATOR SERVICE CO., FORT DODGE, IOWA

Felco Calf Developer D 5607 (12-1-58)	Yes		C	24.00	10.00	0.25					
			F	25.70	10.86	0.09					
Felco Pig Starter Medicated D 1446 (2-13-58)	Yes		C	18.00	3.00	5.00					
D 4141 (9-30-58)			F	21.15	4.92	3.00					
D 5604 (12-1-58)			F	19.35	5.08	4.27					
			F	19.15	5.60	2.55					
Felco Quick Weaner Medicated D 1443 (2-13-58)	Yes		C	20.00	7.00	3.00					
			F	21.90	8.27	3.05					
Felco 0.0011% D.E.S. Mix Inc In 11% Cattle Feed D 1442 (2-13-58)	Yes		C	11.00	2.00	17.00					3
			F	12.35	0.45	12.06					

Felco 0.0022% D.E.S. Mix Inc In Steak Maker	Yes	C	41.00	0.00	5.00				
D 1441 (2-13-58)		F	44.05	1.59	5.65				
E 3674 (3-19-58)		F	43.30	2.00	5.26				
Felco 0.0011% D.E.S. Mix Inc In 22% Cattle Feed	Yes	C	22.00	0.50	12.00				
D 1440 (2-13-58)		F	22.70	0.46	11.86				4
D 2223 (6-27-58)		F	23.25	0.82	12.48				
Felco Growing Mash Medicated	Yes	C	20.00	2.00	7.00				
D 1445 (2-13-58)		F	21.30	3.48	5.03				
Felco 0.0011% D.E.S. Mix Inc In Beef Builder	Yes	C	35.00	0.50	9.00				
D 1444 (2-13-58)		F	43.05	2.94	5.36				
D 3675 (3-19-58)		F	39.15	2.55	6.17				
Felco "30"	Yes	C	30.00	2.00	20.00				2a, 4
D 635 (4-2-58)		F	27.85	3.06	25.60				2a, 4
D 2553 (4-29-58)		F	27.30	6.80	21.06				
Felco "37"	Yes	C	37.00	2.00	18.00				2a
D 910 (9-3-58)		F	35.30	6.56	17.79				2a 4
D 2319 (9-2-58)		F	32.50	5.76	20.60				2a
D 5151 (10-10-58)		F	33.55	7.09	18.06				2a
D 5970 (11-10-58)		F	35.55	8.30	15.96				2
D 6162 (11-21-58)		F	36.35	5.40	18.33				
Felco Sweetner	Yes	C	8.00	0.35	15.00				2a
D 2326 (9-2-58)		F	6.60	0.64	14.38				
Felco Beef "30"	Yes	C	30.00	0.50	6.00				
D 2197 (11-19-58)		F	33.40	1.22	4.79				
D 5606 (12-1-58)		F	33.15	1.54	5.20				
Nicarbazin Premix Medicated	No	C	20.00	1.50	8.00				
D 2416 (5-8-58)		F	24.75	3.34	6.02				
Felco Dairy Supplement	Yes	C	35.00	0.50	8.00				
D 5563 (8-18-58)		F	35.80	1.72	8.47				
Felco 26% No Grain Layer-Breeder	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
D 5565 (8-18-58)		F	25.70	3.92	9.36				
D 2046 (8-26-58)		F	25.70	3.77	9.70	6.30	2.06	0.0008	1.68
D 2151 (10-29-58)		F	25.75	3.35	7.92	5.90	1.90	0.0014	2.21
D 6698 (12-1-58)		F	25.80	4.38	8.13	6.00	1.92	0.0010	1.73
Felco 22% Cattle Feed	Yes	C	22.00	5.00	12.00				
D 2040 (8-25-58)		F	22.70	3.10	13.30				3, 4

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS ELEVATOR SERVICE CO., FORT DODGE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Special Dry Lot Hog Supplement	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	
D 70 (12-6-57)			F	36.40	3.74	7.36					
D 316 (12-11-57)			F	35.95	3.15	7.07					
D 1595 (4-8-58)			F	35.75	3.48	7.51	3.70	1.24	0.0014	2.30	
D 6696 (12-1-58)			F	34.85	4.29	7.52					
Felco Special Hog Balancer	Yes		C	40.00	1.50	9.00					
D 71 (12-6-57)			F	41.75	4.64	5.79					
D 318 (12-11-57)			F	43.55	2.92	7.25					
D 6697 (12-1-58)			F	41.70	4.58	5.91					
Felco Mash Builder	Yes		C	38.00	3.00	8.00					
D 72 (12-6-57)			F	40.10	4.18	5.73					
Felco 20% Layer Breeder	Yes		C	20.00	2.00	8.00					
D 319 (12-11-57)			F	23.85	3.06	6.40					
D 3670 (3-19-58)			F	21.75	3.50	6.64					
Felco Pig Grower	Yes		C	16.00	2.00	6.00					
D 317 (12-11-57)			F	18.60	4.12	4.50					
D 3673 (3-19-58)			F	19.15	4.00	4.23					
Felco Starting Mash Medicated	Yes		C	20.00	2.00	7.00					
D 1449 (2-13-58)			F	22.50	3.59	4.70					
D 3671 (3-19-58)			F	21.70	3.10	5.29					
Felco Special Dry Lot Hog Supplement Medicated	Yes		C	35.00	1.50	9.00					
D 1448 (2-13-58)			F	34.85	3.61	4.57					
Felco Pig Grower Medicated	Yes		C	16.00	2.00	6.00					
D 1447 (2-13-58)			F	18.65	4.02	4.22					
D 4132 (9-30-58)			F	17.50	4.00	4.65					

FARMERS BUTTER & DAIRY COOPERATIVE, FREDERICKSBURG, IOWA

Dried Buttermilk.....		Yes	C	31.90	5.00					
D 6361	(10-17-58)		F	33.30	7.88					
Dried Skim Milk.....		Yes	C	35.30	0.50					
D 6362	(10-17-58)		F	38.25	0.63					

FARMERS COOP CO., GARDEN CITY, IOWA

Felco Special Hog Balancer.....		Yes	C	40.00	1.50	9.00				
D 1235	(7-9-58)		F	41.15	2.81	7.25				
Felco 20% Layer-Breeder.....		Yes	C	20.00	2.00	8.00				
D 1236	(7-9-58)		F	22.80	3.68	7.26				
Felco Special Dry Lot Hog Supplement.....		Yes	C	35.00	1.50	9.00				
D 1237	(7-9-58)		F	38.30	3.36	9.00				
Felco Mash Builder.....		Yes	C	38.00	3.00	8.00				
D 1238	(7-9-58)		F	40.85	3.96	5.62				

FARMERS ELEVATOR COOP, GOLDFIELD, IOWA

Fountain City 17% Egg Mash.....		Yes	C	17.00	3.00	7.00				
D 1194	(5-15-58)		F	17.95	4.30	5.87				
Fountain City 20% Chick Starter.....		Yes	C	20.00	4.00	4.75				
D 1195	(5-15-58)		F	19.80	4.40	3.21				
Fountain City Creep Feed.....		Yes	C	15.00	4.00	4.00				
D 1196	(5-15-58)		F	15.75	5.40	3.60				

FARMERS CO-OP GRAIN & LUMBER CO., GRAFTON, IOWA

Felco Special Hog Balancer.....		Yes	C	40.00	1.50	9.00				
D 805	(4-2-58)		F	43.80	2.74	7.36				
D 6365	(10-29-58)		F	43.30	3.91	6.38				

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS CO-OP GRAIN & LUMBER CO., GRAFTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Mash Builder	Yes		C	38.00	3.00	8.00					
D 806 (4-2-58)			F	39.85	4.34	6.20					
D 6367 (10-29-58)			F	42.00	5.25	6.17					
Felco Special Pig & Sow Meal	Yes		C	20.00	2.00	9.00					
D 804 (4-2-58)			F	22.80	3.12	10.31					4
D 6368 (10-29-58)			F	23.40	4.16	9.67					4
Felco Special Dry Lot Hog Supplement	Yes		C	35.00	1.50	9.00					
D 807 (4-2-58)			F	36.10	3.63	9.99					
D 6366 (10-29-58)			F	39.20	3.57	7.43					4

FARMERS COOP ELEVATOR, HANLONTOWN, IOWA

Our Own 20% Egg Mash	Yes		C	20.00	3.50	7.50	2.80	0.80	0.0007	1.20	
E 7895 (12-20-57)			F	21.25	4.44	7.06	2.60	1.14	0.0008	1.48	
Our Own 18% Chick Grower	Yes		C	18.00	4.00	7.00					
D 835 (8-27-58)			F	20.95	4.93	6.76					

FARMERS CO-OP COMPANY, HINTON, IOWA

Coop Open Formula Hog Concentrate-40 Medicated	Yes		C	40.00	2.50	6.50	5.50	2.00	0.001	3.00	2a
D 2306 (8-27-58)			F	38.23	4.95	5.06	4.20	1.74	0.0015	2.95	
Coop Open Formula Chick Starter-Grower Medicated	Yes		C	18.00	3.50	6.00					
D 2307 (8-27-58)			F	18.00	5.34	5.43					

Coop Open Formula Chick 110-Starter Com- plete Medicated..... D 2309	(8-27-58)	Yes	C F	21.00 20.85	3.50 5.71	5.00 4.45	.....	.....	.....	.....
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FARMERS CO-OP ELEVATOR CO., HOLMES, IOWA

Felco 26% No Grain Layer-Breeder..... D 1188	(5-15-58)	Yes	C F	26.00 28.65	2.00 3.15	9.00 7.82	.....	.....	.....	.....
Felco Special Hog Balancer..... D 1189	(5-15-58)	Yes	C F	40.00 40.80	1.50 2.58	9.00 7.50	.....	.....	.....	.....
Felco Special Dry Lot Hog Supplement..... D 1190	(5-15-58)	Yes	C F	35.00 36.45	1.50 3.50	9.00 8.92	.....	.....	.....	.....
Felco Mash Builder..... D 1191	(5-15-58)	Yes	C F	38.00 39.30	3.00 4.70	8.00 6.04	.....	.....	.....	.....
Felco Sow Supplement..... D 1192	(5-15-58)	Yes	C F	32.00 34.05	2.00 3.65	9.00 9.49	.....	.....	.....	4
D 1240	(7-10-58)		F	34.00	3.53	9.38	.....	.....	.....	
Felco Pig Starter..... D 1193	(5-15-58)	Yes	C F	18.00 20.95	3.00 4.40	5.00 3.66	.....	.....	.....	.....

FARMERS ELEVATOR CO., HOLSTEIN, IOWA

Felco Mash Builder..... D 2312	(8-29-58)	Yes	C F	38.00 38.55	3.00 6.32	8.00 6.47	.....	.....	.....	.....
Felco Pig & Sow Meal..... D 2313	(8-29-58)	Yes	C F	20.00 22.95	2.00 4.95	9.00 9.11	.....	.....	.....	.....
Felco Growing Mash..... D 2314	(8-29-58)	Yes	C F	20.00 20.45	2.00 4.35	7.00 6.09	.....	.....	.....	.....
Felco 20% Layer-Breeder..... D 2315	(8-29-58)	Yes	C F	20.00 23.85	2.00 4.68	8.00 7.53	5.00 3.00	1.00 1.07	0.0007 0.0010	2.00 1.72
Felco Special Dry Lot Hog Supplement..... D 2316	(8-29-58)	Yes	C F	35.00 35.20	1.50 5.15	9.00 9.00	.....	.....	.....	.....
Felco Special Hog Balancer..... D 2317	(8-29-58)	Yes	C F	40.00 39.10	1.50 5.17	9.00 7.14	5.00 4.10	1.00 1.68	0.0005 0.0010	3.00 1.86

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
FARMERS COOP ELEVATOR CO., HUBBARD, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Hub Laying Mash..... D 1210 (7-1-58)	Yes		C F	20.00 28.20	4.00 3.82	7.00 6.52					
Hub Antibiotic & Arsanilic Acid Mixture Inc In 40% Special Hog Supplement..... D 1211 (7-1-58)	Yes		C F	40.00 41.50	4.00 3.93	6.50 4.82					
Hub Chick Starter..... D 1212 (7-1-58)	Yes		C F	18.00 21.10	4.00 3.99	6.50 4.05					
Hub All Purpose Poultry Concentrate 34% Protein for Growing and Laying Mash..... D 1213 (7-1-58)	Yes		C F	34.00 38.45	4.00 3.82	7.00 7.03					
Hub Chick Grower..... D 1214 (7-1-58)	Yes		C F	18.00 21.80	4.00 4.04	7.50 4.98					
Hub Pig & Sow Meal..... D 1215 (7-1-58)	Yes		C F	26.00 30.00	4.00 3.70	8.00 6.33					
Hub Pig-Starter Pellets..... D 1216 (7-1-58)	Yes		C F	16.00 19.65	3.50 4.61	4.00 2.70					
Hub Grain Balancer..... D 1217 (7-1-58)	Yes		C F	26.00 29.55	4.00 4.11	8.00 5.59					
Hub Cattle Feed..... D 1218 (7-1-58)	Yes		C F	33.00 35.40	2.25 2.42	8.00 8.22					
Hub Brand 0.0015% D.E.S. Mix Inc In Cattle Feed..... D 1219 (7-1-58)	Yes		C F	32.00 32.15	2.50 2.50	9.00 8.95					



FARMERS COOPERATIVE ASSOCIATION, HULL, IOWA

Felco Special Dry Lot Hog Supplement D 2160 (10-29-58)	Yes	C F	35.00 35.20	1.50 4.29	9.00 8.96				
Felco 26% No Grain Layer-Breeder D 2161 (10-29-58)	Yes	C F	26.00 26.40	2.00 4.52	9.00 8.05				
Felco All Mash D 2162 (10-29-58)	Yes	C F	16.00 17.95	2.50 4.68	8.00 5.72				
Felco Special Hog Balancer D 2156 (10-29-58)	Yes	C F	40.00 40.10	1.50 4.04	9.00 7.22				
Felco 18% Egg Maker D 2157 (10-29-58)	Yes	C F	18.00 18.85	2.50 4.30	8.00 5.20				
Felco 20% Layer-Breeder D 2158 (10-29-58)	Yes	C F	20.00 22.70	2.00 4.41	8.00 6.96	5.00 2.90	1.00 1.17	0.0007 0.0012	2.00 1.73
Felco Mash Builder D 2159 (10-29-58)	Yes	C F	38.00 37.90	3.00 4.81	8.00 5.67				
"Our Own Cattle Feed" D 2152 (10-29-58)	Yes	C F	33.00 29.25	1.00 2.19	8.00 8.20				2a
Felco Pig Starter Medicated D 2153 (10-29-58)	Yes	C F	18.00 20.55	3.00 6.00	5.00 3.46				
Felco Sow Supplement D 2154 (10-29-58)	Yes	C F	32.00 33.25	2.00 4.23	9.00 9.32	4.00 3.40	1.00 1.15	0.0008 0.0016	3.00 2.52
Felco Dairy Supplement D 2155 (10-29-58)	Yes	C F	35.00 33.40	0.50 3.91	8.00 6.60				2a

COMMERCIAL FEEDS

FARMERS COOPERATIVE ASSOCIATION, HUMBOLDT, IOWA

Felco Starting Mash Medicated D 3815 (3-27-58)	Yes	C F	20.00 22.25	2.00 3.52	7.00 6.22				
Felco Laying Mash D 3816 (3-27-58)	Yes	C F	20.00 24.50	2.00 3.00	8.00 6.57	5.00 2.40	1.00 1.25	0.0007 0.000765	2.00 1.67
Felco 26% No Grain Layer-Breeder D 3817 (3-27-58)	Yes	C F	26.00 27.55	2.00 3.96	9.00 7.47	5.00 3.50	1.00 1.46	0.0005 0.00084	3.00 2.14

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMER'S COOPERATIVE ASS'N., HUMBOLDT, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Mash Builder D 3818 (3-27-58)	Yes		C F	38.00 37.80	3.00 4.11	8.00 7.02	6.00 5.80	1.00 2.26		2.50 2.03	
Felco Special Hog Balancer D 3819 (3-27-58)	Yes		C F	40.00 40.70	1.50 3.56	9.00 6.97	5.00 2.70	1.00 1.20	0.0005 0.0005	3.00 2.02	
Felco Special Dry Lot Hog Supplement D 3820 (3-27-58)	Yes		C F	35.00 35.50	1.50 3.65	9.00 9.00	5.00 3.10	1.00 1.38	0.0008 0.00154	3.00 2.26	
Felco Sow Supplement D 3821 (3-27-58)	Yes		C F	32.00 32.00	2.00 3.58	9.00 9.45	4.00 3.30	1.00 1.28	0.0008 0.00168	3.00 2.32	4
Humboldt Rolled Oats D 3822 (3-27-58)	Yes		C F	16.00 18.75	5.50 5.93	2.50 2.31					
Felco Sulfaquinoxaline Mixture Inc In Growing Mash D 3823 (3-27-58)	Yes		C F	20.00 24.50	2.00 2.85	7.00 5.45					
Felco Pig Starter D 3824 (3-27-58)	Yes		C F	18.00 23.25	3.00 3.79	5.00 3.78					
Felco Pig Grower D 3825 (3-27-58)	Yes		C F	16.00 20.00	2.00 2.80	6.00 4.81					
Felco Beef Supplement D 3826 (3-27-58)	Yes		C F	35.00 39.00	0.50 1.10	9.00 6.66					
Felco Dairy Supplement D 3827 (3-27-58)	Yes		C F	35.00 36.00	0.50 2.56	8.00 6.38					
FARMERS SUPPLY, INC., INDEPENDENCE, IOWA											
Independence Best 30% Sow & Pig D 4517 (8-7-58)	Yes		C F	30.00 32.00	2.00 3.48	8.50 7.83					

Independence Best 40% Hog D 4518 (8-7-58)	Yes	C	40.00	2.50	7.00				
		F	40.00	5.18	5.76				
Independence Best 26% Poultry Balancer D 4519 (8-7-58)	Yes	C	26.00	3.00	8.50				
		F	28.55	4.82	7.01				
Independence Best 18% Chick Grower D 4520 (8-7-58)	Yes	C	18.00	3.50	7.50				
		F	19.50	4.30	6.40				

FARMERS COOP ELEVATOR CO., IOWA FALLS, IOWA

Iowa Falls Special Pig Starter Medicated D 4605 (7-16-58)	Yes	C	18.00	3.00	3.00				
		F	19.55	9.35	2.40				
Coop Open Formula Pullet Grower Complete Medicated D 4606 (7-16-58)	Yes	C	15.00	2.50	7.00				
		F	17.50	4.10	6.50				
Coop Open Formula Chick Starter-Grower Medicated D 4607 (7-16-58)	Yes	C	18.00	3.50	6.00				
		F	18.80	3.57	4.88				
Coop Open Formula Layer-Supplement -20 Medicated D 4608 (7-16-58)	Yes	C	20.00	4.00	6.00	4.00	1.00	0.0002	1.00
		F	19.80	4.02	4.50	3.80	1.10	0.0004	0.89
Coop Open Formula Hog Concentrate-35 Medicated D 4601 (7-10-58)	Yes	C	35.00	2.50	9.00				
		F	36.10	2.93	9.26				
Coop Open Formula Layer Concentrate-32 Medicated D 4602 (7-10-58)	Yes	C	32.00	5.50	6.50				3
		F	33.50	4.00	5.86				
Coop Open Formula Hog Concentrate-40 Medicated D 4603 (7-10-58)	Yes	C	40.00	2.50	6.50				2a
		F	39.00	2.79	5.88				
Farmers Creep Feed Medicated D 4604 (7-16-58)	Yes	C	15.00	4.00	4.00				
		F	15.25	5.20	2.13				
Coop Open Formula Sow Concentrate D 4609 (7-16-58)	Yes	C	35.00	3.00	9.00				4
		F	35.00	4.15	10.47				

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMER'S CERTIFIED MILLS, LAWLER, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Farmers Certified Calf Starter E 7886 (12-19-57)	Yes		C F	22.00 25.60	1.50 3.75	8.00 8.25					
Farmers Certified Pig Starter E 7888 (12-19-57)	Yes		C F	14.00 14.85	3.00 4.54	4.00 3.03					
Farmers Certified Pork Packer E 7889 (12-19-57) D 845 (8-28-58)	Yes		G F F	40.00 38.50 40.55	2.00 2.16 1.82	9.00 5.42 5.73	5.50 4.40 3.50	1.50 1.81 1.49	0.0005 0.0011 0.00065	2.75 2.28 2.29	2
Farmers Certified Piggy-Sweet Pre-Weaner E 7890 (12-19-57)	Yes		C F	15.00 19.45	2.50 4.99	3.00 3.58					4
Farmers Certified Eggtrate E 7885 (12-19-57) D 842 (8-28-58)	Yes		C F F	35.00 37.40 36.35	1.50 3.92 3.33	6.00 6.58 6.95	8.50 7.30 7.80	2.50 2.85 3.09	0.0002 0.0016 0.0010	2.00 2.38 2.71	4, 6 4, 6
Farmers Certified Hog Supertrate E 7887 (12-19-57) D 1253 (3-4-58) D 843 (8-28-58)	Yes		C F F F	38.00 30.00 38.20 38.55	2.00 6.21 5.88 3.35	7.00 9.86 6.07 6.98	8.00 1.40 5.45 6.20	2.00 1.07 2.18 2.23	0.0005 0.020 0.00027 0.0016	3.00 0.94 2.94 3.26	2a, 4, 7 8
Farmers Certified Caltrate E 7891 (12-19-57)	Yes		C F	38.00 40.00	2.50 4.97	5.30 5.08	2.50 3.66	1.00 1.94	0.0009 0.0015	3.00 3.14	5
Farmers Certified Poultry Supertrate D 844 (8-28-58)	Yes		C F	35.00 36.15	1.50 2.26	7.50 7.22	6.50 5.90	1.50 2.56	0.0005 0.0007	3.00 2.94	

FARMERS CO-OP FEED CO., INC., LIME SPRINGS, IOWA

Farmers Best Egg Mash E 7870 (12-18-57) D 794 (8-21-58)	Yes		C F F	18.00 19.10 18.40	2.50 3.99 4.23	9.00 6.00 6.27					
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Big Ten Hog Supplement  
E 7871 (12-18-57)

Yes	C	40.00	4.00	9.00						
	F	41.00	4.00	8.00						
	F	41.00	4.00	8.00						

Big Ten Hog Supplement.....	Yes	C	40.00	4.00	9.60				
E 7871 (12-18-57)		F	41.55	5.28	5.57				
D 795 (8-21-58)		F	41.00	5.15	5.79				
Farmers Best Free Choice Egg Balancer.....	Yes	C	26.00	3.75	7.00				
E 7872 (12-18-57)		F	27.70	4.03	6.81				
D 793 (8-21-58)		F	27.35	4.49	7.12				

FARMERS COOP ELEVATOR, LINCOLN, IOWA

Felco 20% Layer-Breeder.....	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00	
D 2651 (4-14-58)		F	23.85	3.97	7.02	2.40	1.60	0.0011	1.62	
D 5145 (10-10-58)		F	24.20	4.44	6.89					
Felco 26% No Grain Layer-Breeder.....	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
D 2652 (4-14-58)		F	28.65	4.28	7.80	3.40	1.58	0.00181	2.32	
D 5148 (10-10-58)		F	29.00	4.30	8.33					
Felco Pig Starter.....	Yes	C	18.00	3.00	5.00					
D 2653 (4-14-58)		F	21.55	4.76	3.93					
D 5147 (10-10-58)		F	19.50	6.39	3.44					
Felco Sow Supplement.....	Yes	C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	4
D 2654 (4-14-58)		F	35.10	4.55	9.81	3.40	1.46	0.0018	3.07	
D 5146 (10-10-58)		F	34.20	5.24	9.00					
Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	
D 2655 (4-14-58)		F	42.05	4.71	7.33	3.20	1.58	0.00148	1.60	
Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	
D 2656 (4-14-58)		F	38.15	4.62	9.25	2.80	1.25	0.00113	1.96	
D 5150 (10-10-58)		F	37.35	5.08	8.89					
Felco Growing Mash Medicated.....	Yes	C	20.00	2.00	7.00					
2657 (4-14-58)		F	21.85	4.03	5.50					
Felco Starting Mash Medicated.....	Yes	C	20.00	2.00	7.00					
D 2658 (4-14-58)		F	21.25	4.27	6.04					

FARMERS ELEVATOR, MASON CITY, IOWA

Check-R-Mix Laying Mash LE.....	Yes	C	21.00	3.00	7.00					
D 897 (6-27-58)		F	21.50	4.21	4.36					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS ELEVATOR, MASON CITY, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Check-R-Mix Laying Feed (All Mash) SE D 898 (6-27-58)	Yes		C	16.00	3.00	7.00					
			F	17.50	4.57	4.59					
Check-R-Mix Sow Feed D D-899 (6-27-58)	Yes		C	14.00	2.50	6.00					
			F	15.35	3.83	5.48					

FARMERS COOP COMPANY, NEW HAMPTON, IOWA

Farmers "Sure Start" Pig Starter D 855 (6-4-58) D 6503 (11-28-58)	Yes		C	18.00	3.00	4.50					
			F	18.55	4.00	2.93					
			F	19.05	4.06	3.40					
Farmers 40% Hog Concentrate D 856 (6-4-58) D 6504 (11-28-58)	Yes		C	40.00	1.80	7.50	4.50	1.00	0.0008	3.50	
			F	40.45	3.19	7.00					
			F	39.75	3.66	6.76	4.50	1.94	0.0010	2.71	

FARMERS ELEVATOR CO., OLDS, IOWA

Check-R-Mix Laying Mash T-T D 487 (12-9-57) E 7003 (2-18-58) E 7052 (4-28-58)	Yes		C	18.00	3.00	8.00					
			F	20.90	5.50	6.10					
			F	19.20	4.68	6.06					
			F	19.65	4.66	5.35					
Check-R-Mix Growing Feed (All Mash) SJ E 7085 (5-27-58) D 325 (10-14-58)	Yes		C	17.00	3.00	8.00					
			F	17.70	5.11	4.58					
			F	17.35	4.56	3.85					

FARMERS MUTUAL COOP ASSOCIATION, ORANGE CITY, IOWA

Felco Special Dry Lot Hog Supplement..... E 4582 (9-27-58)	Yes	C	35.00	1.50	9.00						4
		F	35.05	4.34	10.28						

FARMERS COOPERATIVE CO., PAULLINA, GRANVILLE, IOWA

Felco Starting Mash Medicated..... D 2023 (8-19-58)	Yes	C	20.00	2.00	7.00						
		F	21.95	4.64	5.96						
Felco 18% Egg Maker..... D 2024 (8-19-58)	Yes	C	18.00	2.50	8.00						
		F	18.60	4.81	6.00						
Felco 20% Layer-Breeder..... D 2025 (8-19-58)	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00		
		F	22.65	4.76	7.31	3.00	1.22	0.0009	1.63		
Felco Special Hog Balancer..... D 2026 (8-19-58)	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00		
		F	41.45	4.72	7.46	2.50	1.11	0.0007	1.68		
Felco Special Dry Lot Hog Supplement..... D 2027 (8-19-58)	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00		4
		F	37.15	4.66	9.87	2.90	1.22	0.0008	1.88		

FARMERS COOPERATIVE EXCHANGE, PELLA, IOWA

Felco Mash Builder..... D 4932 (7-10-58)	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50		
		F	39.90	4.54	6.71	5.70	2.50		2.00		

FARMERS CO-OPERATIVE CO., PLYMOUTH, IOWA

Plymouth-Maid Laying Mash..... D 1301 (12-20-57)	Yes	C	17.00	4.00	8.00						
D 833 (8-26-58)		F	20.20	4.51	5.43						
		F	18.35	4.28	5.54						
Plymouth-Maid Hog Balancer..... E 7899 (12-20-57)	Yes	C	40.00	4.00	8.00						
D 834 (8-26-58)		F	42.20	4.20	8.40						
		F	40.00	4.42	8.00						
Plymouth-Maid 26% No Grain Mash..... E 7900 (12-20-57)	Yes	C	26.00	3.00	9.00						
		F	29.50	3.40	9.22						

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS COOP COMPANY, POCAHONTAS, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Growing Mash Medicated D 2406 (5-8-58)	Yes		C F	20.00 23.15	2.00 3.10	7.00 5.90					
Felco Pig Starter Medicated D 2407 (5-8-58)	Yes		C F	18.00 21.05	3.00 4.38	5.00 3.40					
Felco Beef Supplement D 2408 (5-8-58)	Yes		C F	35.00 36.95	0.50 0.80	9.00 6.85					
Felco Special Dry Lot Hog Supplement D 2409 (5-8-58)	Yes		C F	35.00 35.10	1.50 4.02	9.00 8.45					
Felco 26% No Grain Layer-Breeder D 2410 (5-8-58)	Yes		C F	26.00 28.70	2.00 3.58	9.00 7.86					
Felco Mash Builder D 2411 (5-8-58)	Yes		C F	38.00 38.90	3.00 4.74	8.00 6.33					
Felco Sow Supplement D 2412 (5-8-58)	Yes		C F	32.00 30.45	2.00 4.25	9.00 9.00					2a
Felco Dairy Supplement D 2413 (5-8-58)	Yes		C F	35.00 37.70	0.50 0.80	8.00 6.88					
Felco 20% Layer-Breeder D 2414 (5-8-58)	Yes		C F	20.00 24.40	2.00 3.42	8.00 7.28					
Felco Starting Mash Medicated D 2415 (5-8-58)	Yes		C F	20.00 22.85	2.00 3.68	7.00 6.38					
Pocahontas Rolled Oats D 2417 (5-8-58)	No	Yes	C F	16.00 19.10	5.50 6.48	2.50 1.85					



FARMERS COOP EXCHANGE, PRAIRIE CITY, IOWA

Felco Mash Builder..... D 5057 (8-6-58)	Yes		C F	38.00 39.80	3.00 4.90	8.00 6.82				
Felco Growing Mash Medicated..... D 5053 (8-6-58)	No	Yes	C F	20.00 22.75	2.00 3.28	7.00 6.30				
Felco 26% No Grain Mash..... D 5051 (8-6-58)	No	Yes	C F	26.00 30.55	2.00 4.05	9.00 6.95				
Felco Dairy Supplement..... D 5052 (8-6-58)	Yes		C F	35.00 38.85	0.50 2.05	8.00 6.11				
Felco Special Dry Lot Hog Supplement..... D 5054 (8-6-58)	Yes		C F	35.00 35.80	1.50 4.46	9.00 8.70				
Felco Pig Starter Medicated..... D 5055 (8-6-58)	Yes		C F	18.00 21.30	3.00 4.17	5.00 3.65				
Felco Special Hog Balancer..... D 5056 (8-6-58)	Yes		C F	40.00 40.00	1.50 4.21	9.00 7.09				

FARMERS CERTIFIED MILLS, PROTIVIN, IOWA

Farmers Certified Egg-Booster..... D 768 (5-8-58)	Yes		C F	16.00 18.60	3.50 4.14	5.50 5.36				
Farmers Certified Chick Starter..... D 769 (5-8-58)	Yes		C F	21.00 20.90	2.50 4.21	4.50 3.82				
Farmers Certified Hog Super-Trate..... D 770 (5-8-58) D 6390 (10-31-58)	Yes		C F F	38.00 40.40 40.10	2.00 3.90 4.79	7.00 6.90 6.73				
Farmers Certified Poultry Super-Trate..... D 771 (5-8-58) D 6389 (10-31-58)	Yes		C F F	35.00 35.25 34.55	1.50 2.67 2.60	7.50 7.66 7.43	6.50 6.40	1.50 2.67	0.0005 0.0012	3.00 3.23
Farmers Certified Pork Packer..... D 772 (5-8-58)	Yes		C F	30.00 33.65	2.50 3.79	6.50 5.95				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
FARMERS COOP ELEVATOR CO., RADCLIFFE, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco 26% No Grain Layer-Breeder D 1221 (7-1-58)	Yes		C F	26.00 29.05	2.00 2.88	9.00 8.14					

FARMERS COOPERATIVE ASSOCIATION, RALSTON, IOWA

Farmers Expeller Process Soybean Oil Meal 41% Protein	Yes		C	41.00	3.50	7.00					
D 3841 (4-2-58)			F	40.90	3.60	6.02					
D 2503 (5-1-58)			F	44.45	3.87	5.73					
D 2432 (6-6-58)			F	44.60	4.90	6.13					
D 35 (6-24-58)			F	46.80	4.33	4.83					
D 6019 (11-4-58)			F	43.05	4.18	5.90					

FARMERS MERCANTILE CO., RED OAK, IOWA

Coop 0.0022% D.E.S. Mix Inc. In Coop 35% Cattle Feed D 4180 (7-21-58)	No	Yes	C F	35.00 37.20	1.00 2.09	11.00 6.87					
Coop Open Formula Hog Concentrate-40 Medicated D 4174 (7-21-58)	Yes		C F	40.00 37.75	2.50 2.69	6.50 5.25	5.50 6.00	2.00 2.33	0.001 0.0011	3.00 2.90	2a, 5
Coop 35% Beef Cattle Supplement D 4175 (7-21-58)	Yes		C F	35.00 36.40	1.00 1.55	11.00 6.00	2.50 3.10	1.00 0.95	0.0007 0.0012	2.00 2.46	5, 6
Coop 40% Cattle Supplement D 4176 (7-21-58)	Yes		C F	40.00 43.25	1.00 2.78	14.00 9.58					
Coop 0.0022% D.E.S. Mix Inc In Coop 40% Cattle Feed D 4177 (7-21-58)	Yes		C F	40.00 44.10	1.00 2.70	10.00 8.75					

Coop Open Formula Sow Concentrate D 4178 (7-21-58)	Yes	C	35.00	3.00	9.00	5.50	2.00	0.001	3.00	8
		F	35.30	5.78	8.08	5.20	2.27	0.0006	2.61	
Coop Open Formula Chick Starter-Grower Medicated D 4179 (7-21-58)	Yes	C	18.00	3.50	6.00					
		F	18.00	4.60	4.14					
Coop Open Formula Layer Concentrate-26 Medicated D 4181 (7-21-58)	Yes	C	26.00	5.00	6.50	6.50	1.50	0.0004	1.75	
		F	25.65	6.20	6.55	6.10	1.62	0.00068	1.55	
Coop Open Formula Pig Concentrate Medicated D 4182 (7-21-58)	Yes	C	31.00	12.00	5.00	4.50	2.00	0.001	3.00	2
		F	33.85	11.33	3.58	4.80	1.91	0.0012	2.80	

FARMERS COOP SOCIETY, ROCKWELL, IOWA

Felco Mash Builder D 829 (8-26-58)	Yes	C	38.00	3.00	8.00					
		F	38.85	4.79	6.47					
Felco Special Dry Lot Hog Supplement D 830 (8-26-58)	Yes	C	35.00	1.50	9.00					
		F	39.65	4.05	8.58					
Felco 26% No Grain Layer-Breeder D 831 (8-26-58)	Yes	C	26.00	2.00	9.00					
		F	29.45	3.62	8.17					
Felco Special Hog Balancer D 832 (8-26-58)	Yes	C	40.00	1.50	9.00					
		F	41.90	4.07	7.16					

FARMERS COOP ELEVATOR, ROLAND, IOWA

Felco Dairy Supplement E 8494 (3-18-58)	Yes	C	35.00	0.50	8.00					
		F	37.55	1.30	7.10					
Felco Mash Builder E 8495 (3-18-58)	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50	
		F	40.40	4.25	6.20	5.50	2.32		2.16	
Felco Pig Grower E 8496 (3-18-58)	Yes	C	16.00	2.00	6.00					
		F	19.05	3.80	4.71					
Felco Special Hog Balancer E 8497 (3-18-58)	Yes	C	40.00	1.50	9.00					
		F	40.55	3.50	7.48					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMER'S COOP ELEVATOR, ROLAND, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco 20% Layer-Breeder E 8498 (3-18-58)	Yes		C	20.00	2.00	8.00					
			F	24.95	3.25	7.32					
Felco 26% No Grain Layer-Breeder E 8499 (3-18-58)	Yes		C	26.00	2.00	9.00					
			F	29.00	3.45	8.82					
Felco Pig Starter E 8500 (3-18-58)	Yes		C	18.00	3.00	5.00					
			F	21.75	4.40	3.90					
Felco Special Dry Lot Hog Supplement E 3301 (3-18-58)	Yes		C	35.00	1.50	9.00					
			F	37.30	3.45	9.00					
Felco Starting Mash Medicated E 3302 (3-18-58)	No	Yes	C	20.00	2.00	7.00					
			F	23.00	3.45	6.46					

FARMERS CO-OP COMPANY, RUDD, IOWA

Felco Mash Builder E 7860 (12-17-57)	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	
			F	38.00	4.13	6.63	6.00	2.67		2.54	
Felco Special Dry Lot Hog Supplement E 7861 (12-17-57) D 799 (8-21-58)	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	4
			F	37.75	3.12	9.28	3.70	1.81	0.002	1.86	
			F	37.05	3.60	10.26					
Felco 26% No Grain Layer-Breeder E 7863 (12-17-57)	Yes		C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
			F	28.75	3.08	8.31	3.20	1.92	0.0018	1.96	
Felco Pig Starter Medicated D 797 (8-21-58)	Yes		C	18.00	3.00	5.00					
			F	20.70	4.60	4.28					
Felco Sow Supplement E 7856 (12-17-57) D 798 (8-21-58)	Yes		C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	4
			F	33.05	3.70	10.37	4.10	1.86	0.0016	2.08	
			F	33.10	4.27	10.63					

Felco Special Hog Balancer Yes C 40.00 1.50 9.00 5.00 1.00 0.0005 3.00

Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00
E 7857 (12-17-57)		F	42.75	2.62	7.83	3.30	2.02	0.004	1.50
D 796 (8-21-58)		F	40.80	4.00	8.28				
Felco Beef Supplement.....	Yes	C	35.00	0.50	9.00				
E 7858 (12-17-57)		F	41.00	1.14	7.15				
D 800 (8-21-58)		F	40.60	1.15	5.56				
Felco Pig Grower.....	Yes	C	16.00	2.00	6.00				
E 7859 (12-17-57)		F	20.55	3.60	5.14				

FARMERS CO-OP ELEVATOR CO., RUTHVEN, IOWA

Felco Minerals.....	Yes	C				26.00	6.00	0.01	20.00
D 1310 (12-26-57)		F				26.20	6.08	0.017	19.32
Felco 26% No Grain Mash.....	Yes	C	26.00	2.00	9.00	5.00	1.00		2.00
D 1311 (12-26-57)		F	30.90	3.24	7.49	3.30	1.68		1.63
Felco 20% Layer-Breeder.....	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00
D 1319 (12-26-57)		F	23.85	3.06	6.77	2.70	1.49	0.0017	2.32
Felco Sow Supplement.....	Yes	C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00
D 1320 (12-26-57)		F	37.15	3.51	8.72	3.60	1.27	0.0016	2.18
Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00
D 1321 (12-26-57)		F	43.65	3.07	7.04	2.60	1.48	0.0014	1.68
Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00
D 1322 (12-26-57)		F	34.85	3.79	8.66	4.20	1.88	0.0023	1.88
Felco Pig Starter.....	Yes	C	18.00	3.00	5.00				
D 1309 (12-26-57)		F	20.15	4.91	3.94				
Top Notch Hulled Oats.....	Yes	C	16.00	5.50	2.50				
D 1312 (12-26-57)		F	18.10	6.08	1.72				
Felco 0.0022% Diethylstilbestrol Mix Inc In Steak Maker.....	Yes	C	41.00	0.50	9.00				
D 1313 (12-26-57)		F	45.45	0.92	5.80				
Top Notch 35% Dairy Concentrate.....	Yes	C	35.00	2.50	9.00				
D 1314 (12-26-57)		F	36.00	2.12	8.15				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS CO-OP ELEVATOR CO., RUTHVEN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco All-Mash D 1315 (12-26-57)	Yes		C	16.00	2.50	8.00					
			F	18.40	4.45	6.17					
Top Notch Super Pig Grower D 1316 (12-26-57)	Yes		C	16.00	3.00	3.50					
			F	18.70	3.38	2.69					
Felco Sulfaquinoxaline Mixture Inc. In Growing Mash D 1317 (12-26-57)	Yes		C	20.00	2.00	7.00					
			F	21.90	3.20	5.63					
Felco Sweet Creep D 1318 (12-26-57)	Yes		C	18.00	2.00	5.00					
			F	20.95	3.11	3.55					

FARMERS GRAIN CO., SCHALLER, IOWA

Eureka 40% Hog Balancer D 2163 (10-31-58)	Yes		C	40.00	3.50	7.50	4.25	0.75	0.0012	2.50	3
			F	41.85	2.43	7.35	2.50	1.26	0.0022	2.06	
Eureka 27% Poultry Balancer D 2164 (10-31-58)	Yes		C	27.00	3.00	8.50	4.25	0.75	0.0012	2.00	
			F	31.20	3.47	7.85	3.10	1.30	0.0029	1.80	
Eureka 34% Cattle Supplement D 2168 (10-31-58)	Yes		C	34.00	2.00	9.00					4
			F	35.25	4.10	9.68					

FARMERS CO-OP ELEVATOR ASSOCIATION, SHELDON, IOWA

Coop 24% Calf Meal D 2016 (8-15-58)	No	Yes	C	24.00	2.00	9.50					
			F	24.15	4.50	6.85					
Coop Special Hog Balancer D 2011 (8-15-58)	No	Yes	C	33.00	3.00	9.00	4.50	1.50	0.0007	2.50	5
			F	34.80	5.15	7.91	5.70	1.94	0.0011	2.76	

Coop Open Formula Layer Supplement-20 Medicated D 2014 (8-15-58)	Yes		C F	20.00 20.85	4.00 5.39	6.00 5.82	4.00 3.90	1.00 1.05	0.0002 0.0006	1.00 0.91	
Coop Open Formula Layer Concentrate-26 Medicated D 2017 (8-15-58)	Yes		C F	26.00 25.65	5.00 5.69	6.50 7.01	6.50 7.00	1.50 1.64	0.0004 0.0006	1.75 1.88	2, 4, 5
Sheldons Best 0.0011% D.E.S. Mix Inc In Special 40% Beef Supplement D 2010 (8-15-58)	Yes		C F	40.00 41.35	5.00 3.35	9.00 6.66	2.00 4.10	0.40 1.52	0.0002 0.0008	2.00 1.62	3, 5
Coop 35% Brood Sow Supplement D 2012 (8-15-58)	No	Yes	C F	35.00 36.30	2.50 4.25	12.00 8.98	3.00 3.20	1.00 1.42	0.0007 0.0007	2.00 2.33	6

FARMERS COOPERATIVE EXCHANGE, SHENANDOAH, IOWA

Felco Pig Starter Medicated D 4131 (9-30-58)	Yes		C F	18.00 21.85	3.00 4.39	5.00 4.18					
Felco Special Hog Balancer D 4133 (9-30-58)	Yes		C F	40.00 41.85	1.50 4.08	9.00 6.02	5.00 2.90	1.00 1.26	0.0005 0.0013	3.00 1.85	
Felco 0.0022% D.E.S. Mix Inc In Steak Maker D 4134 (9-30-58)	Yes		C F	41.00 43.80	0.50 1.43	9.00 7.12					
Felco Beef Supplement "B" D 4135 (9-30-58)	Yes		C F	41.00 45.40	0.50 1.46	9.00 6.92					
Felco Mash Builder D 4143 (9-30-58)	Yes		C F	38.00 40.10	3.00 4.14	8.00 5.51	6.00 5.70	1.00 2.22		2.50 2.21	

FARMERS CO-OP SOCIETY, SIOUX CENTER, IOWA

Farmers Mix 32% Cattle Feed D 2174 (11-4-58)	Yes		C F	32.00 34.00	4.00 4.70	7.00 6.77					
Farmers Mix Pig & Hog Meal D 2170 (11-4-58)	Yes		C F	30.00 30.00	3.50 5.46	7.00 8.62					4
Farmers Mix 40% Hog Balancer D 2171 (11-4-58)	Yes		C F	40.00 38.00	4.00 5.62	7.00 5.71					2a

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMER'S CO-OP SOCIETY, SIOUX CENTER, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Farmers Mix 30% Dairy Feed..... D 2172 (11-4-58)	Yes		C F	30.00 30.35	4.00 4.13	7.00 7.36	.....	.....	.....	.....	
Farmers Mix Egg Mash..... D 2173 (11-4-58)	Yes		C F	18.00 21.00	4.00 5.00	7.00 7.00	.....	.....	.....	.....	

FARMERS MUTUAL COOP CREAMERY, SIOUX CENTER, IOWA

Sioux Brand Dried Buttermilk..... D 2323 (9-2-58)	Yes		C F	32.00 32.50	5.00 6.87	.....	.....	.....	.....	.....	
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FARMERS UNION COOP, SIOUX CITY, IOWA

40% Cattle Supplement..... D 655 (12-13-57)	Yes		C F	40.00 40.95	2.30 2.09	6.00 6.73	.....	.....	.....	.....	
35% Pig & Sow Supplement..... D 656 (12-13-57) D 598 (4-21-58)	Yes		C F F	35.00 35.65 32.15	2.50 3.17 4.25	8.50 7.08 7.52	4.00 ..... 4.33	1.00 ..... 1.70	0.0002 ..... 0.00187	3.00 ..... 2.79	4 2a
22% Pig Pre-Starter..... D 657 (12-13-57) E 2603 (4-21-58)	Yes		C F F	22.00 24.00 25.15	2.50 3.90 3.75	4.00 3.76 5.25	.....	.....	.....	.....	
18% Cattle Supplement..... D 658 (12-13-57)	Yes		C F	18.00 17.90	3.80 4.52	9.00 8.42	.....	.....	.....	.....	
32% Cattle Supplement..... D 651 (12-13-57)	Yes		C F	32.00 31.80	4.00 2.83	7.00 7.75	.....	.....	.....	.....	3, 4

40% Hog Concentrate..... D 652 (12-13-57)	Yes		C F	40.00 41.30	3.20 4.30	7.00 5.70	.....	.....	.....	.....	
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40% Hog Concentrate D 652	(12-13-57)		F	41.50	4.30	5.70							
36% Layer Concentrate D 653	(12-13-57)	Yes	C	36.00	2.50	7.50							
			F	37.10	5.23	5.72							
26% Poultry Balancer (26 Caf-G) D 654	(12-13-57)	Yes	C	26.00	3.00	8.00							
			F	27.60	4.35	7.08							
Co-Op Super 40% Hog Balancer D 671	(12-13-57)	Yes	C	40.00	3.00	8.00							
			F	42.60	5.35	5.45							
Co-Op 32% Poultry Concentrate D 672	(12-13-57)	Yes	C	32.00	2.50	8.50							
			F	32.45	4.17	7.65							
Co-Op Special Mixing Concentrate D 673	(12-13-57)	Yes	C	36.00	2.50	7.00							
			F	36.10	5.32	5.91							
Murphy's Vig-O-Ray Starting Mash Medi- cated D 547	(4-21-58)	Yes	C	18.00	3.00	7.00							4
			F	20.25	4.05	7.55							
Farmers Union 18% Pig Starter Medicated with Hygromycin B E 2604	(4-21-58)	No	Yes	C	18.00	3.00	4.00						4
			F	28.20	3.75	5.10							
Murphy's Cut-Cost Creep for Pigs Medicated E 2602	(4-21-58)	Yes	C	16.00	2.50	6.00							
			F	16.40	4.40	5.91							
Farmers Union Coop 32% Cattle Supplement. 32-C.S. E 2605	(4-21-58)	Yes	C	32.00	5.50	8.00	2.50	0.60	0.00011	2.20			3, 4, 6
			F	31.90	4.48	8.97	2.50	0.84	0.0006	2.66			
40% Hog Concentrate 40 Reg. E 2601	(4-21-58)	No	Yes	C	40.00	2.40	5.50						4
			F	40.25	4.15	6.63							
Farmers Union 35% Pig & Sow Medicated with Hygromycin B 35 E 2607	(4-21-58)	Yes	C	35.00	2.50	8.50							
			F	35.10	3.35	7.78							

FARMERS FEED & SUPPLY, SOLON, IOWA

Acorn 35% Beef Cattle Concentrate Medi- cated D 4781	(10-1-58)	Yes	C	35.00	2.50	6.00	4.00	1.00	0.0014	2.50			4
			F	35.20	3.62	6.70	3.40	1.34	0.0012	2.10			

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMER'S FEED & SUPPLY, SOLON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Acorn 20% Laying Mash Medicated D 4782 (10-1-58)	Yes		C	20.00	3.50	6.00					
			F	21.75	6.04	5.83					
Acorn 35% Poultry Concentrate Medicated D 4777 (10-1-58)	Yes		C	35.00	3.50	7.50	4.50	2.00	0.0038	2.50	8
			F	36.70	6.96	7.27	4.50	1.79	0.0011	2.39	
Acorn 18% Complete Pig Starter Medicated D 4778 (10-1-58)	Yes		C	18.00	3.50	3.80					
			F	22.20	5.60	3.55					
Acorn 36% Big "A" Hog Fattener D 4779 (10-1-58)	Yes		C	36.00	1.50	6.00					
			F	37.10	3.46	6.46					
Acorn 32% Dairy Concentrate D 4780 (10-1-58)	Yes		C	32.00	1.50	8.00	6.00	1.50	0.0022	3.50	2a, 8
			F	30.75	3.85	7.05	4.40	1.86	0.0015	3.61	
Acorn 20% Grower Mash D 4783 (10-1-58)	Yes		C	20.00	3.00	6.50					
			F	22.35	5.54	5.74					
Acorn 30% Pig Grower Concentrate Medi- cated D 4784 (10-1-58)	No		C	30.00	3.50	7.00					
			F	34.25	5.47	7.43					
Acorn 40% Hog Fattener Concentrate D 4785 (10-1-58)	Yes		C	40.00	2.50	6.00	5.00	1.25	0.0017	1.50	4, 8
			F	41.60	4.10	6.72	3.70	1.38	0.00069	1.52	

FARMERS COOP ELEVATOR, SPENCER, IOWA

Felco Special Hog Balancer D 695 (12-26-57)	Yes		C	40.00	1.50	9.00					
			F	40.13	5.14	7.07					
Felco Special Dry Lot Hog Supplement D 697 (12-26-57)	Yes		C	35.00	1.50	9.00					
			F	38.55	4.53	7.71					

Coop Regular 40% Hog Balancer..... D 698	(3-4-58)	Yes	C	40.00	2.50	7.50	5.00	2.00	0.0007	2.50
			F	40.15	4.82	5.72	3.80	1.81	0.00137	1.67

FARMERS UNION COOP ASSOCIATION MILL, SUPERIOR, NEBRASKA

Blue Line 16% Dairy Ration..... D 659	(12-13-57)	Yes	C	16.00	3.50	8.00				
			F	16.10	3.72	7.34				
Blue Line Calf Meal..... D 660	(12-13-57)	Yes	C	22.00	3.50	4.50				2, 4
			F	21.00	4.62	5.18				
Blue Line 18% Basic Cattle Supplement..... D 661	(12-13-57)	Yes	F	18.00	3.00	12.25				
			C	19.25	4.95	10.26				
Blue Line 33% Cattle Supplement..... D 662	(12-13-57)	Yes	C	33.00	4.50	8.00				3, 4
			F	34.10	3.12	9.05				
Blue Line 34% Dairy Supplement..... D 663	(12-13-57)	Yes	C	34.00	4.50	8.00				3, 4
			F	37.05	2.91	9.07				
Blue Line 18% Sweetened-Pig Pellets Pre- Starter..... D 664	(12-13-57)	Yes	C	18.00	4.30	3.10				
			F	20.60	5.08	2.50				
Blue Line 35% Pig & Sow Supplement..... D 665	(12-13-57)	Yes	C	35.00	2.20	7.50				
			F	38.20	3.04	7.04				
Blue Line 40% Pork Maker..... D 666	(12-13-57)	Yes	C	40.00	4.00	6.20				3
			F	40.30	3.02	5.22				
Blue Line Nitrofurazone mix in 20% Co-Op Blue Line Chick Starter..... D 549	(4-21-58)	Yes	C	20.00	3.00	6.00				
			F	20.40	4.25	4.52				
Co-Op Blue Line Feeds 18% Basic Cattle Supplement..... D 550	(4-21-58)	Yes	C	18.00	3.00	12.25	3.50	1.00	0.001	2.50
			F	19.95	5.10	10.63	4.00	1.34	0.00192	3.00
Coop Blue Line Feeds 20% Layer Mash..... D 545	(4-21-58)	Yes	C	20.00	3.00	6.00				1a
			F	21.55	4.15	5.80				
Blue Line 32% Poultry Concentrate..... D 667	(12-13-57)	Yes	C	32.00	3.50	8.00				
			F	32.40	3.49	7.30				
D 544	(4-21-58)		F	32.90	3.83	7.10				

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 FARMERS UNION COOP ASSOCIATION MILL, SUPERIOR, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Blue Line 26% Grain Balancer.....	Yes		C	26.00	3.50	7.70					
D 668 (12-13-57)			F	27.05	3.84	6.93					
D 546 (4-21-58)			F	26.40	4.05	6.22					
Blue Line 20% Layer Mash.....	Yes		C	20.00	3.50	6.00					
D 669 (12-13-57)			F	22.10	3.53	5.75					
Blue Line Nitrofurazone Mix in 18% Co-Op Blue Line Grower Mash.....	Yes		C	18.00	3.00	6.50					
D 548 (4-21-58)			F	21.05	3.85	6.45					

FARMERS COOP ELEVATOR CO., SWEA CITY, IOWA

Felco Beef Supplement.....	Yes		C	35.00	0.50	9.00					
D 1332 (12-27-57)			F	37.35	3.65	6.88					
Felco 26% No Grain Mash.....	Yes		C	26.00	2.00	9.00					
D 1333 (12-27-57)			F	29.00	4.40	7.65					
Felco 20% Layer-Breeder.....	Yes		C	20.00	2.00	8.00					
D 1334 (12-27-57)			F	24.25	4.81	6.52					

FARMERS COOP CO., TERRIL, IOWA

Felco Starting Mash Medicated.....	Yes		C	20.00	2.00	7.00					
D 2045 (8-26-58)			F	21.55	4.48	5.64					
Felco 20% Layer-Breeder.....	Yes		C	20.00	2.00	8.00	5.00	1.00	0.0007		2.00
D 2047 (8-26-58)			F	22.30	3.67	7.37	3.00	1.15	0.0018		1.68

Felco Special Dry Lot Hog Supplement.....	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008		3.00
D 2048 (8-26-58)			F	36.55	4.77	8.87	3.33	1.19	0.0010		1.87

Felco Special Dry Lot Hog Supplement D 2048	(8-26-58)		F	36.55	4.77	8.87	3.33	1.19	0.0010	1.83
Felco Special Hog Balancer D 2049	(8-26-58)	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00
			F	40.10	5.06	6.81	3.40	1.28	0.0006	1.57
Felco Calf Meal D 2302	(8-26-58)	Yes	C	20.00	2.00	8.00				
			F	21.15	4.09	5.09				

FARMERS CO-OP ELEVATOR CO., THOMPSON, IOWA

Felco Special Dry Lot Hog Supplement D 719 D 6382	(4-8-58) (10-29-58)	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00
			F	35.45	3.08	8.64	3.50	1.37	0.0015	2.24
			F	37.95	3.38	7.85				
Felco Mash Builder D 720 D 6380	(4-8-58) (10-29-58)	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50
			F	39.55	4.53	5.56	5.90	2.64		1.72
			F	40.25	4.66	5.85				
Felco Special Hog Balancer D 721 D 6379	(4-8-58) (10-29-58)	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00
			F	42.35	3.54	7.78	3.70	1.55	0.0005	1.82
			F	43.30	3.23	7.15				
Felco Dairy Supplement D 722 D 6381	(4-8-58) (10-29-58)	Yes	C	35.00	0.50	8.00				
			F	38.10	1.12	7.24				
			F	37.50	1.53	7.00				
Felco Starting Mash Medicated D 723	(4-8-58)	Yes	C	20.00	2.00	7.00				
			F	23.80	3.65	6.22				
Felco 26% No Grain Layer-Breeder D 724	(4-8-58)	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
			F	29.30	3.51	7.98	3.20	1.30	0.0008	2.16

FARMERS FEED & SUPPLY CO., TIPTON, IOWA

Honeyhead 40% Hybrid Supplement Medicated D 1610	(2-24-58)	Yes	C	40.00	2.40	6.00				
			F	41.20	2.80	4.97				
Honeyhead Multiple "35" Medicated D 1611	(2-24-58)	Yes	C	35.00	2.00	6.50				
			F	36.95	2.97	5.40				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
FARMERS ELEVATOR & EXCHANGE, WAPELLO, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wapello Chief Feed 30% Pig & Sow Meal..... E 4390 (2-6-58)	Yes		C	30.00	4.50	7.50					
			F	31.90	4.45	7.09					
Wapello Chief Feed 41% Hog Balancer..... E 4391 (2-6-58)	Yes		C	41.00	5.00	6.50					3
			F	42.05	4.66	5.93					

FARMERS COOP CREAMERY ASSOCIATION, WATKINS, MINNESOTA

Dried Whole Whey..... D 2723 (5-1-58) D 2345 (10-29-58)	Yes		C	10.50	0.50	0.50					
			F	12.15	0.70	None					
			F	12.70	0.64	None					

FARMERS COOPERATIVE ASSOCIATION, WINTERSET, IOWA

Felco 26% No Grain Layer-Breeder..... D 6699 (12-1-58)	Yes		C	26.00	2.00	9.00					2a
			F	25.00	3.90	6.38					
Felco 20% Layer-Breeder..... D 6700 (12-1-58)	Yes		C	20.00	2.00	8.00					
			F	23.25	3.95	6.29					
Felco Dairy Supplement..... D 5601 (12-1-58)	Yes		C	35.00	0.50	8.00					
			F	36.85	1.22	6.94					
Felco Dairy Ration..... D 5602 (12-1-58)	Yes		C	16.00	2.00	8.00					
			F	19.55	4.08	6.09					
Felco Sweet Creep..... D 5603 (12-1-58)	Yes		C	18.00	2.00	5.00					
			F	21.65	3.96	2.51					

FARMERS CO-OP ELEVATOR, WODEN, IOWA

Felco Dairy Supplement..... D 6372 (10-29-58)	Yes		C	35.00	0.50	8.00				
			F	37.50	1.82	6.56				
Felco Special Dry Lot Hog Supplement..... D 6373 (10-29-58)	Yes		C	35.00	1.50	9.00				
			F	37.40	3.20	8.60				
Felco Mash Builder..... D 6374 (10-29-58)	Yes		C	38.00	3.00	8.00				
			F	39.60	6.86	6.53				

FARMERS FEED & MILLING CO., WODEN, IOWA

Felco Mash Builder..... D 861 (6-5-58)	Yes		C	38.00	3.00	8.00				
			F	39.75	4.38	6.22				
Felco Special Dry Lot Hog Supplement..... D 862 (6-5-58)	Yes		C	35.00	1.50	9.00				
			F	37.00	3.84	8.65				

G. L. A. PRODUCTS CO., MONTICELLO, IOWA

G.L.A. Swine Premix Medicated..... D 1627 (2-27-58)	Yes		C	12.00	1.00	4.00					4
			F	18.05	4.22	10.95					
G.L.A. Beef Premix Medicated..... D 1628 (2-27-58)	Yes		C	22.00	1.80	5.50					4
			F	29.30	6.63	8.08					
G.L.A. Poultry Premix Medicated..... D 1629 (2-27-58)	Yes		C	17.00	1.00	5.50					4
			F	28.15	5.27	9.98					
G.L.A. Dairy Premix Medicated..... D 1630 (2-27-58)	Yes		C	20.00	1.00	6.00					4
			F	22.75	3.88	9.05					

GAINER MILLS, INC., SPRINGFIELD, ILLINOIS

Gainer Ad-Mo-Las..... D 2217 (6-27-58)	No	Yes	C	2.50	0.50	27.50				
			F	3.60	0.75	16.65				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
GALE ELEVATOR & SEED CO., CHILLICOTHE, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Gale "Superior" 16% Pullet Grower D 5569 (8-19-58)	Yes		C F	16.00 18.15	4.00 4.22	6.50 4.76					
Gale "Superior" 35% Sow & Pig Concentrate D 5570 (8-19-58)	Yes		C F	35.00 34.15	2.50 3.04	9.00 8.38	4.00 4.30	1.10 1.38	0.001 0.0012	3.00 3.12	2
Gale "Superior" 20% Egg Mash D 5571 (8-19-58)	Yes		C F	20.00 20.80	4.00 3.88	7.00 5.69					
Gale "Superior" 40% Hog Concentrate D 5572 (8-19-58)	Yes		C F	40.00 39.80	3.00 2.74	6.50 6.65	4.40 4.50	1.60 1.68	0.0005 0.00087	3.00 2.99	
Gale "Superior" 16% Dairy Feed D 5573 (8-19-58)	Yes		C F	16.00 19.20	3.50 3.97	8.50 5.78					

GARNAVILLO MILL, GARNAVILLO, IOWA

Silver Mill 38% Pig & Sow D 3024 (7-28-58)	Yes		C F	38.00 40.10	2.00 3.73	11.00 10.95					
Silver Mill 40% Hog Balancer D 3025 (7-28-58)	Yes		C F	40.00 40.15	2.00 3.24	6.90 6.76	4.20 3.00	1.60 1.44	0.00015 0.00129	2.20 2.34	
Silver Mill Egro Mash D 3026 (7-28-58)	Yes		C F	20.00 22.55	3.20 3.25	7.00 6.21	3.90 2.00	1.10 1.15	0.00015 0.0008	1.20 1.20	
Silver Mill Chick Starter Medicated D 3027 (7-28-58)	Yes		C F	20.00 21.85	3.00 3.64	4.50 4.67					
Silver Mill Pig Pre-Starter Medicated D 3028 (7-28-58)	Yes		C F	18.00 20.45	2.50 3.24	2.50 2.29					
Silver Mill 41% Dairy Concentrate D 3029 (7-28-58)	Yes		C F	41.00 42.55	2.00 2.68	8.00 7.70	2.30 2.10	0.75 2.40	0.00054 0.0009	2.80 2.40	



Silver Mill Pig Supplement Medicated D 3030 (7-28-58)	Yes	C	35.00	2.50	8.50	4.20	2.20	0.0009	2.80	4
		F	36.80	4.30	9.05	4.40	2.32	0.0020	2.50	
Silver Mill Poultry Concentrate D 3031 (7-28-58)	Yes	C	34.00	2.50	8.00	6.00	2.00	0.0007	3.50	4
		F	36.60	3.30	8.89	5.70	1.58	0.0017	3.30	
Silver Mill 28% Free Choice Supplement D 3032 (7-28-58)	Yes	C	28.00	2.50	8.50	3.80	1.60	0.00054	2.20	
		F	29.80	4.04	8.50	3.50	2.36	0.00124	1.70	
Silver Mill Pork Booster Medicated D 3033 (7-28-58)	Yes	C	12.00	1.50	5.50					
		F	20.50	1.84	5.56					
Silver Mill Pig Starter & Grower Medicated D 3034 (7-28-58)	Yes	C	16.00	3.00	3.30					
		F	21.00	4.34	3.23					

GEERLINGS FEED MILLS, INC., WATERLOO, IOWA

Geerlings 30% Sheep Concentrate D 214 (12-13-57)	Yes	C	30.00	1.50	7.50	1.50	0.90			
D 5507 (9-2-58)		F	33.85	2.15	7.53	1.70	1.01			
D 2378 (11-28-58)		F	34.15	1.51	7.57					
		F	33.85	1.90	7.20					
Geerlings Swine Premix D 215 (12-13-57)	Yes	C	30.00	3.00	5.50					
		F	33.05	3.28	4.32					
Geerlings 34% Cattle Concentrate Medicated D 4462 (7-21-58)	Yes	C	34.00	1.50	8.00					
D 2385 (11-28-58)		F	34.15	1.91	6.77					
		F	33.60	2.10	6.51					
Geerlings Chickbits Medicated D 2380 (11-28-58)	Yes	C	19.00	3.50	7.00					
		F	21.95	4.15	6.16					
Geerling's Calf Primer Medicated D 2379 (11-28-58)	Yes	C	27.00	3.00	8.00	2.00	0.90	0.0004	0.70	
		F	28.50	3.52	8.34	1.90	0.95	0.0014	0.91	
Geerling's Super-Creep Medicated D 2392 (11-28-58)	Yes	C	18.00	5.00	3.50					
		F	19.15	7.28	2.89					
Geerling's Creepmeal Pellets Medicated D 2393 (11-28-58)	Yes	C	16.00	3.50	4.00					
		F	17.55	4.10	3.40					
Geerling's Weaning Meal D 2398 (11-28-58)	Yes	C	19.00	4.50	2.75					
		F	22.95	5.98	2.36					
Geerlings 32% Dairy Concentrate D 191 (12-13-57)	Yes	C	32.00	1.50	8.50	1.50	0.80			5
		F	34.35	1.55	7.52	2.20	1.10			

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 GEERLINGS FEED MILLS, INC., WATERLOO, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Geerlings Pig & Sow Supplement	Yes		C	26.50	3.00	8.00	1.50	0.90			
D 192 (12-13-57)			F	29.00	3.78	7.35	1.60	9.91			
D 2394 (11-28-58)			F	28.85	4.00	4.92					
Geerlings Creepmeal Pellets Medicated	Yes		C	16.00	4.50	4.00	1.30	0.80			
D 193 (12-13-57)			F	19.25	4.56	3.17	1.50	0.85			
Geerlings Special Bettermeal	Yes		C	26.50	3.00	8.00	3.00	1.25			
D 194 (12-13-57)			F	27.95	3.80	6.65	1.70	0.97			7
Geerlings 38% Poultry Concentrate	Yes		C	38.00	2.50	6.00	3.70	2.00			
D 187 (12-13-57)			F	38.05	2.70	4.80	3.40	2.10			
D 2389 (11-28-58)			F	41.10	2.91	5.02					
Geerlings Laybits	Yes		C	20.00	3.50	7.50	2.50	0.90	0.0003	0.80	
D 188 (12-13-57)			F	22.15	3.62	6.80	2.10	0.97			
D 2388 (11-28-58)			F	20.50	3.59	6.93	2.40	0.93	0.0012	0.73	
Geerlings 26% Breeder Mash	Yes		C	26.00	3.80	8.00	3.00	1.60			
D 189 (12-13-57)			F	28.90	3.73	6.32	3.30	1.77			
Geerlings 45% Dairy Concentrate Medicated	Yes		C	45.00	1.50	7.00	1.50	0.80		2.70	
D 190 (12-13-57)			F	45.95	1.81	5.80	2.30	0.88			5
D 2384 (11-28-58)			F	46.40	1.67	5.50	2.60	0.89		2.66	5
Geerlings One Shot Wormer	Yes		C	22.00	4.00	4.50					
D 208 (12-13-57)			F	32.00	5.56	4.19					
D 2382 (11-28-58)			F	31.85	5.40	3.71					
Geerlings Special Bettermeal Medicated	Yes		C	26.50	3.00	8.00	3.00	1.25	0.00015	1.00	
D 209 (12-13-57)			F	29.45	3.01	7.10	1.60	0.96			7
D 5510 (9-2-58)			F	29.35	4.28	7.45	1.19	1.00	0.00068	1.27	
D 2396 (11-28-58)			F	29.75	3.68	7.30					
Geerlings H.B. 45 Bacon Maker	Yes		C	45.00	2.70	4.00	6.00	2.00	0.0006	5.00	
D 210 (12-13-57)			F	45.00	3.48	2.20	4.30	1.90			
D 2395 (11-28-58)			F	45.25	4.55	3.33	5.40	1.96	0.0033	4.11	

Geerlings D 211	(12-13-57)		F	21.30	3.91	3.21					
Geerlings D 2383	(11-28-58)		F	21.35	4.15	2.95					
Geerlings Crittertone Medicated	(12-13-57)	Yes	C	25.00	2.50	9.00	2.50	1.00			
Geerlings D 204	(12-13-57)		F	28.85	3.15	8.30	2.50	1.23			
Hi-Bred Calf Meal	(12-13-57)	Yes	C	25.00	4.00	8.00	1.20	0.80			5
Hi-Bred D 205	(12-13-57)		F	28.45	4.01	7.47	1.80	1.10			
Geerlings 50% Mixing Concentrate	(12-13-57)	Yes	C	50.00	4.50	4.00	5.00	1.80	0.0018	5.00	
Geerlings D 206	(12-13-57)		F	50.00	7.00	2.30	4.30	1.63			
Geerlings D 2387	(11-28-58)		F	52.15	4.50	2.17	5.30	1.55	0.0021	4.11	
Geerlings 34% Cattle Concentrate Medicated	(12-13-57)	Yes	C	34.00	1.50	8.00	1.50	0.80			
Geerlings D 207	(12-13-57)		F	35.10	2.50	7.70	1.80	0.99			
Geerlings Creepmeal Base	(12-13-57)	Yes	C	32.00	3.50	4.50	3.50	1.70			
Geerlings D 195	(12-13-57)		F	34.80	3.72	3.90	3.40	1.89			
Geerlings Weaning Meal Medicated	(12-13-57)	Yes	C	19.00	4.50	2.75	1.30	0.90			5
Geerlings D 197	(12-13-57)		F	24.10	8.67	2.24	1.80	1.10			
Geerlings Creepmeal Base Medicated	(12-13-57)	Yes	C	32.00	3.50	4.50	3.50	1.70			5
Geerlings D 198	(12-13-57)		F	34.45	3.96	4.13	4.10	1.89			
Geerlings D 2397	(11-28-58)		F	34.85	4.63	4.25					
Best-Of-All Cattle Feed 0.0022% D.E.S. and Rumen Concentrate Mix Inc In Geerlings	(12-13-57)	Yes	C	34.00	1.50	8.00	1.50	0.80			
Best-Of-All D 199	(12-13-57)		F	35.75	1.90	6.72	1.80	0.96			
Best-Of-All D 2386	(11-28-58)		F	33.90	1.48	6.68					
Geerlings 26% Kafeteria Concentrate	(12-13-57)	Yes	C	26.00	3.80	8.00	3.00	1.20	0.0003	1.00	
Geerlings D 200	(12-13-57)		F	30.25	3.76	6.63	3.00	1.44			
Geerlings D 2390	(11-28-58)		F	29.70	3.57	7.01	3.20	1.48	0.0012	1.17	
Geerlings H. B. 40 Hog Concentrate	(12-13-57)	Yes	C	40.00	3.00	6.50	4.00	1.50			
Geerlings D 201	(12-13-57)		F	42.45	3.46	5.35	3.70	1.53			
Geerlings D 2391	(11-28-58)		F	42.85	3.54	6.05					
Geerlings 34% Quick Mix Concentrate	(12-13-57)	Yes	C	34.00	2.50	7.00	4.50	1.70	0.0006	2.50	
Geerlings D 202	(12-13-57)		F	37.70	2.45	3.77	4.20	2.23			
Geerlings D 2381	(11-28-58)		F	35.75	2.42	6.90	4.30	2.40	0.0015	2.51	
Best-Of-All Cattle Feed 0.0011% D.E.S. and Rumen Concentrate Mix Inc. In Geerlings	(12-13-57)	Yes	C	34.00	1.50	8.00	1.50	0.80			
Best-Of-All D 203	(12-13-57)		F	35.35	2.08	7.34	1.80	1.00			
Geerlings Minerals	(11-28-58)	Yes	C				19.70	6.50	0.20	9.00	
Geerlings D 2377	(11-28-58)		F				20.00	6.72	0.005	7.71	8

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 GENERAL MILLS, INC., MINNEAPOLIS, MINNESOTA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Larro Farm Tested Suregrow..... D 1070 (3-18-58)	Yes		C F	20.00 21.40	4.00 4.17	7.50 4.92					
Larro Farm Tested Surepork Super 40..... D 1071 (3-18-58) D 5577 (8-21-58)	Yes		C F F	40.00 38.35 39.95	2.50 3.19 2.21	5.00 4.13 5.02	5.00 5.10	1.50 1.48	0.0003 0.0015	3.00 2.61	2
Larro Farm Tested Surepork 30..... D 1073 (3-18-58)	Yes		C F	30.00 31.45	2.50 2.74	8.00 6.42	3.50 2.70	1.00 1.00	0.0001 0.0007	2.00 1.88	
Larro Farm Tested Surechick (NCB) Medicated..... D 1074 (3-18-58)	Yes		C F	20.00 21.10	3.50 3.68	4.50 3.07					
Larro Farm Tested Surelay 26..... D 1066 (3-18-58)	Yes		C F	26.00 26.10	3.00 3.27	8.00 5.47					
Larro Farm Tested Special Sure-Rabbit..... D 1067 (3-18-58)	Yes		C F	15.00 16.85	2.00 2.68	19.00 17.58					
Larro Farm Tested Surepork 35..... D 1068 (3-18-58) D 5275 (10-28-58)	Yes		C F F	35.00 35.50 36.80	2.00 1.40 2.00	10.00 6.00 7.55					3
Larro Farm Tested Surechick 38..... D 1069 (3-18-58)	Yes		C F	38.00 39.65	2.50 3.24	7.50 6.36					
Larro Farm Tested Surebroiler Starter 26 (AGS) Medicated..... D 1089 (3-18-58)	Yes		C F	26.00 24.40	6.50 6.50	2.50 2.30					2
Larro Farm Tested Surelay..... D 1090 (3-18-58)	Yes		C F	20.00 21.75	4.00 4.28	7.50 5.65					
Larro Farm Tested Surelay "H-E"..... D 1091 (3-18-58)	Yes		C F	20.00 20.35	4.00 4.18	4.50 3.61					

Larro Farm Tested Suremilk 32	Yes	C	32.00	1.50	11.00					
D 1092 (3-18-58)		F	33.15	1.64	6.07					
D 5274 (10-28-58)		F	33.45	2.12	6.83					
Larro Farm Tested Surepork Super 40 (HYG)	Yes	C	40.00	2.50	5.00	5.00	1.50	0.0003	3.00	
Medicated		F	40.15	2.91	4.05	4.50	1.58	0.00185	3.14	
D 1084 (3-18-58)										
Larro Farm Tested Suremilk 20	Yes	C	20.00	2.50	10.00					
D 1086 (3-18-58)		F	21.05	3.54	6.32					
Larro Farm Tested Surebroiler 42 (NCB-AGS)	Yes	C	42.00	10.00	2.50	2.50	1.25		1.00	
Medicated		F	43.05	8.93	2.72	2.70	1.46		0.53	3
D 1087 (3-18-58)										
Larro Farm Tested 0.0015% D.E.S. Mix in Surecattle 32	Yes	C	32.00	1.50	9.00	2.00	1.00	0.0004	3.50	
D 1088 (3-18-58)		F	33.00	1.67	7.49	1.80	1.09	0.0014	1.93	

GILBERTVILLE MILLING CO., INC., GILBERTVILLE, IOWA

Murphy's Cut-Cost 16% Dairy Ration	Yes	C	16.00	2.50	10.00					
D 4678 (11-7-58)		F	19.80	3.28	8.14					
Murphy's Cut-Cost Creep Feed for Pigs	Yes	C	16.00	2.50	6.00					
D 4679 (11-7-58)		F	18.30	4.72	5.15					
Murphy's Cut-Cost Calf Meal	Yes	C	13.00	3.00	8.00					
D 4680 (11-7-58)		F	15.20	4.22	5.78					
Murphy's Vig-O-Ray Laying Mash	Yes	C	18.00	3.00	8.00					
D 4674 (11-7-58)		F	20.25	4.24	6.79					
Murphy's Cut-Cost 35% Dairy Balancer	Yes	C	35.00	2.00	9.00	3.00	1.00	0.004	3.00	
D 4675 (11-7-58)		F	35.50	1.47	8.15	1.40	1.03	0.0028	1.80	3, 8
G. M. C. Hen Scratch	Yes	C	9.50	2.50	5.50					
D 4676 (11-7-58)		F	11.50	3.98	3.46					
Murphy's Cut-Cost Brood Sow Mix	Yes	C	15.00	3.00	8.00					
D 4677 (11-7-58)		F	18.30	4.24	7.00					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 GILMORE CO-OPERATIVE COMPANY, GILMORE CITY, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Feeding Rolled Oats Groats D 6151 (11-18-58)	Yes		C F	16.00 17.10	4.30 6.05	1.80 1.50					
Coop Open Formula Layer Concentrate 32 Medicated D 6157 (11-18-58)	Yes		C F	32.00 33.70	5.50 6.52	6.50 5.42	8.50 7.90	1.75 1.67	0.0005 0.0012	2.25 2.36	
Coop Open Formula Hog Concentrate 40 Medicated D 6158 (11-18-58)	Yes		C F	40.00 40.70	2.50 2.52	6.50 5.05	5.50 4.40	2.00 2.02	0.001 0.0010	3.00 2.76	

GOLDEN ROD OIL MEAL SALES CO., MEMPHIS, TENNESSEE

Golden Rod 41% Protein Cottonseed Meal D 901 (8-28-58)	Yes		C F	41.00 39.80	3.00 3.63	14.00 11.67					2a
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GOLDEN SUN MILLING CO., ESTHERVILLE, IOWA

Golden Sun 12% Hog Finisher Medicated D 6187 (12-18-58)	Yes		C F	12.00 13.60	3.50 3.27	4.50 2.90					
Golden Sun 34% Beefmaker D 6188 (12-18-58)	Yes		C F	34.00 36.90	1.25 2.80	9.00 7.80					
Golden Sun 16% Pig Gro-Pep Medicated D 6189 (12-18-58)	Yes		C F	16.00 17.95	3.00 3.58	4.00 3.44					
Golden Sun 36% Eggmash Maker D 6190 (12-18-58)	Yes		C F	36.00 37.55	3.20 4.26	6.50 5.83	5.90 5.20	2.00 2.05	0.0007 0.0013	2.20 1.85	
Golden Sun 27% Poultry Grain Balancer D 6191 (12-18-58)	Yes		C F	27.00 28.55	3.00 3.42	7.00 6.34					

Golden Sun Complete Hog Feed Medicated D 6182 (12-18-58)	Yes		C F	14.00 16.00	3.50 3.70	5.25 4.30					
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Golden Sun Complete Hog Feed Medicated D 6182 (12-18-58)	Yes	C F	14.00 16.00	3.50 3.70	5.25 4.30				
Golden Sun 0.0011% D.E.S. Mix Inc In 34% Beefmaker D 6183 (12-18-58)	Yes	C F	34.00 34.25	1.25 2.50	9.00 8.52				
Golden Sun 41% Beef Cattle Supplement D 6184 (12-18-58)	Yes	C F	41.00 44.30	1.50 1.45	7.00 6.62	3.00 2.80	1.10 1.15	0.0009 0.002	1.70 1.44
Golden Sun 0.0022% D.E.S. Mix Inc In 41% Beef Cattle Supplement D 6185 (12-18-58)	Yes	C F	41.00 42.75	1.50 2.00	7.00 6.96				
Golden Sun 22% Carmelized Cattle Nuggets D 2221 (6-27-58)	Yes	C F	22.00 22.75	2.50 3.08	9.50 9.18				
Golden Sun Medium Scratch Grains D 2224 (6-27-58)	Yes	C F	9.00 10.00	2.50 2.88	3.00 1.55				
Golden Sun All Mash Laying Ration D 6180 (12-18-58)	Yes	C F	17.00 17.70	3.00 3.74	6.30 5.15				
Golden Sun Mineral & Protein Concentrate Medicated D 6181 (12-18-58)	Yes	C F	39.00 39.70	2.50 3.90	6.25 5.54	5.00 4.40	1.65 1.68	0.0007 0.0013	2.15 1.93
Golden Sun "Special" Pre-Starter Medicated D 1988 (3-21-58)	Yes	C F	18.00 19.05	3.00 3.17	2.75 2.55				
Golden Sun Regular Starter Medicated D 1989 (3-21-58)	Yes	C F	18.00 19.80	3.00 3.71	3.50 3.60				
Golden Sun Pig Starter Supplement Medicated D 1990 (3-21-58) D 1993 (3-21-58)	Yes	C F F	20.00 23.65 23.50	3.00 3.63 3.71	5.00 4.45 4.44				
Golden Sun 40% Hog Supplement Medicated D 1991 (3-21-58)	Yes	C F	40.00 40.05	1.00 1.71	6.00 4.98				
Golden Sun 40% Mineral & Protein Hog Concentrate Medicated D 1992 (3-21-58) D 6174 (12-4-58)	Yes	C F F	40.00 40.00 42.25	1.75 3.20 2.57	5.25 5.10 4.73	5.00 4.50 4.40	1.60 1.62 1.51	0.0009 0.00167 0.0015	2.15 2.00 2.11
Golden Sun Caramelized Cattle Nuggets D 2419 (6-5-58)	Yes	C F	11.00 13.45	3.00 4.12	11.00 9.92				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 GOLDEN SUN MILLING CO., ESTHERVILLE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Golden Sun 22% Caramelized Cattle Nuggets.... D 2418 (6-5-58)	Yes		C	22.00	2.50	11.00					
			F	24.25	3.78	9.04					
Golden Sun Egg & Breeder Supplement Mash.... D 2220 (6-27-58) D 6186 (12-18-58)	Yes		C	22.00	3.00	6.00					
			F	22.35	4.09	5.99					
			F	24.00	3.82	5.50					

GOOCH FEED MILL CO., LINCOLN, NEBRASKA

Gooch's Best 38% Mixer Concentrate..... D 3584 (4-2-58)	Yes		C	38.00	1.50	8.75					
			F	41.90	2.58	7.15					
Gooch's Best Busy Bird Laying & Growing Granules ..... D 3585 (4-2-58) D 5223 (8-12-58)	Yes		C	18.00	2.50	8.00					
			F	18.65	3.83	6.72					
			F	18.45	4.20	7.27					
Gooch's Best Rabbit Ration Pellets (Green).... D 3587 (4-2-58) D 6025 (11-4-58)	Yes		C	20.00	2.00	12.00					
			F	21.55	2.57	12.00					
			F	22.55	2.66	10.81					
Gooch's Best 16% Dairy Ration..... D 3588 (4-2-58)	Yes		C	16.00	2.75	8.00					
			F	18.90	5.07	6.01					
Gooch's Best Calf Developer Pellets..... D 3589 (4-2-58) D 3274 (6-19-58)	Yes		C	28.00	2.00	7.00					
			F	29.15	2.90	5.85					
			F	27.75	3.00	7.14					
Gooch's Best Calf Starter..... D 3590 (4-2-58)	Yes		C	25.00	3.00	6.00					
			F	28.40	2.86	5.10					
Gooch's Best Hi-Energy Broiler Medicated..... D 3591 (4-2-58)	Yes		C	20.00	2.50	5.00					
			F	21.00	2.80	4.30					



Gooch's Best All-Mash Egg Pellets Medicated	Yes		C	16.00	3.00	6.00				
D 3592 (4-2-58)			F	17.10	3.17	4.42				
D 5278 (10-30-58)			F	16.25	4.84	5.73				
Gooch's Best Bulky Sweet Feed	Yes		C	11.00	1.50	14.00				
D 3556 (4-2-58)			F	13.90	2.32	9.88				
Gooch's Best 0.0022% Diethylstilbestrol Mix Inc In Steer-Prema 64	Yes		C	64.00	0.60	8.00	3.00	1.50	0.0001	
D 3557 (4-2-58)			F	60.85	1.97	6.63	2.80	1.60	0.0004	2a
Gooch's Best Chick Starter Mash Medicated	Yes		C	20.00	2.50	6.00				
D 3560 (4-2-58)			F	22.95	3.60	5.33				
Gooch's Best Hen Scratch	Yes		C	9.00	2.25	3.00				
D 3561 (4-2-58)			F	10.55	3.25	1.90				
Gooch's Best Growing Scratch	Yes		C	10.00	2.00	3.00				
D 3562 (4-2-58)			F	11.35	4.54	4.35				
Gooch's Best Grower Mash Medicated	Yes		C	18.00	2.50	7.00				
D 3554 (4-2-58)			F	19.90	3.63	6.25				
Gooch's Best 22% Sheep Pellets	No		C	22.00	2.00	7.75				
D 3559 (4-2-58)			F	24.80	3.93	6.83				
Gooch's Best Hi-Energy Broiler Granules Medicated	No	Yes	C	20.00	2.50	5.00				
D 3558 (4-2-58)			F	21.00	3.16	4.37				
D 5225 (8-12-58)	Yes		F	20.55	3.19	4.44				
Gooch's Best 15% Complete Hog Pellets Medicated	Yes		C	15.00	2.50	6.00				
D 3594 (4-2-58)			F	16.45	3.76	4.86				
Gooch's Best Cage Layer Medicated	Yes		C	16.00	3.00	6.00				
D 3593 (4-2-58)			F	16.00	3.72	3.92				
Gooch's Best 32% Cattle Pellets A Medicated	Yes		C	32.00	2.00	9.00				
D 3595 (4-2-58)			F	32.75	3.66	7.32				
Gooch's Best One Day Hog Wormer	Yes		C	15.00	2.50	6.00				
D 3596 (4-2-58)			F	17.20	3.17	3.77				
Gooch's Best Pro-Guard "100" Medicated	Yes		C	20.00	2.50	5.00				
D 3597 (4-2-58)			F	21.20	3.27	5.35				
D 3275 (6-19-58)			F	20.90	3.27	4.57				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 GOOCH FEED MILL CO., LINCOLN, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Gooch's Best 44% Dairy Concentrate D 3586 (4-2-58)	Yes		C	44.00	1.25	7.00					
			F	44.60	1.97	5.78					
Gooch's Best 32% Dairy Supplement "A" D 3598 (4-2-58)	Yes		C	32.00	1.50	7.75					
			F	34.50	1.26	4.05					
Gooch's Best Brood Sow Supplement D 3276 (6-19-58) D 5283 (10-30-58)	Yes		C	30.00	2.50	9.00					
			F	32.20	2.77	8.41					
			F	30.85	3.26	8.12					
Gooch's Best 22% Cattle Pellets D 3573 (4-2-58)	Yes		C	22.00	2.00	7.75					
			F	23.35	3.68	7.12					
Gooch's Best 22% Cattle Fattener Pellets D 3574 (4-2-58)	Yes		C	22.00	1.50	7.00					
			F	23.65	2.47	6.43					
Gooch's Best Grower Granules Medicated D 3575 (4-2-58)	Yes		C	18.00	2.50	7.00					
			F	20.90	3.76	6.49					
Gooch's Best Mash Maker Concentrate D 3578 (4-2-58) D 6022 (11-4-58)	Yes		C	32.00	2.00	8.75					
			F	33.05	2.37	8.14					
			F	32.80	2.58	8.03					
Gooch's Best Baby Chick Scratch D 3579 (4-2-58)	Yes		C	10.00	2.00	3.00					
			F	11.40	3.05	2.25					
Gooch's Best 30% Pig Supp. Pellets Medicated D 3580 (4-2-58) D 5280 (10-30-58)	Yes		C	30.00	2.50	8.00					
			F	31.30	3.58	7.26					
			F	34.30	3.72	8.10					
Gooch's Best 32% Dairy Ration D 3581 (4-2-58) D 4490 (7-28-58)	Yes		C	32.00	2.00	9.00					
			F	35.80	2.09	6.50					
			F	41.15	1.94	6.96					
Gooch's Best 0.0011% D.E.S. Mix With Chlortetracycline (Aureomycin) Inc In Steer-Prema 32 D 3582 (4-2-58)	Yes		C	32.00	2.00	9.00					
			F	33.65	3.25	8.00					

Gooch's Best Pullet Developer Medicated

Yes

C

18.00

2.50

7.00

Gooch's Best Pullet Developer Medicated	Yes	C	16.00	2.50	7.00				
D 3273 (6-19-58)		F	19.30	4.13	5.60				
D 4489 (7-28-58)		F	18.75	3.77	5.63				
D 5224 (8-12-58)		F	19.00	4.27	6.44				
Gooch's Best 32% Cattle Pellets A	Yes	C	32.00	2.00	9.00				
D 3577 (4-2-58)		F	33.80	2.83	7.87				
Gooch's Best 40% Hog Fattener Pel.	Yes	C	40.00	1.50	6.50				
D 5279 (10-30-58)		F	41.15	2.01	6.70				
Gooch's Best Pep Dog Food	Yes	C	25.00	6.50	5.00				
D 6023 (11-4-58)		F	26.40	6.90	3.71				
Gooch's Best Calf Creep Pellets	Yes	C	17.00	2.00	10.00				
D 5282 (10-30-58)		F	18.05	4.90	7.32				
Gooch's Best 30% Pig Supplement Pellets	Yes	C	30.00	2.50	8.00				
Medicated		F	32.00	3.38	7.18				
D 9311 (12-6-57)		F	31.95	3.66	6.81				
D 3568 (4-2-58)									
Gooch's Best Pig Booster Medicated	Yes	C	20.00	3.00	4.50				
D 9312 (12-6-57)		F	21.50	3.06	4.28				
Gooch's Best 26% Laying Supplement Medi-	Yes	C	26.00	2.50	8.00				
cated		F	26.85	3.76	8.12				
E 9190 (12-6-57)		F	27.10	3.28	8.00				
D 3564 (4-2-58)									
Gooch's Best Layer Breeder Medicated	Yes	C	20.00	2.50	7.00				
E 9192 (12-6-57)		F	22.50	4.11	6.77				
D 3583 (4-2-58)		F	21.20	3.40	6.98				
D 5277 (10-30-58)		F	19.90	4.20	6.95				
Gooch's Best 40% Hog Fattener Pellets	Yes	C	40.00	1.50	6.50				
D 9308 (12-6-57)		F	43.75	1.71	5.90				
D 3571 (4-2-58)		F	40.60	1.93	5.69				
Gooch's Best Pep Dog Food	Yes	C	25.00	4.50	5.00				
D 3551 (4-2-58)		F	26.55	6.62	4.16				
Gooch's Best Poultry Fattener	Yes	C	13.00	4.50	7.00				
D 3553 (4-2-58)		F	15.75	3.61	7.00				
Gooch's Best Pepsin, Arsanilic Acid and	Yes	C	24.00	3.00	2.25				
Chlortetracycline Mix Inc In P-10 Pig		F	24.80	2.70	2.42				
Pre-Starter Pellets									
D 3555 (4-2-58)									

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
GOOCH FEED MILL CO., LINCOLN, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Gooch's Best 32% Feed-Lot Supplement A D 3542 (4-2-58)	Yes		C F	32.00 35.00	1.50 2.94	7.75 7.07					
Gooch's Best 0.0011% D.E.S. Mix Inc In Steer-Prema 32 D 3543 (4-2-58)	Yes		C F	32.00 34.25	1.50 3.17	7.75 7.45					
Gooch's Best 0.0022% D.E.S. Mix Inc In Steer-Prema 41 D 3544 (4-2-58)	Yes		C F	41.00 44.15	2.00 2.03	7.00 7.23					
Gooch's Best Medicated Poultry Wormer D 3545 (4-2-58)	Yes		C F	16.00 18.30	2.50 3.52	6.25 5.34					
Wheat Bran with Wheat screenings not ex- ceeding Mill Run D 3538 (4-2-58) D 2518 (5-1-58)	Yes		C F F	15.00 17.75 15.75	3.00 3.75 4.02	11.00 11.00 10.75					
Gooch's Best 0.0011% D.E.S. Mix Inc In Steer-Prema 22 D 3539 (4-2-58) D 3576 (4-2-58)	Yes		C F F	22.00 24.10 23.20	1.50 1.55 3.25	7.00 6.61 6.38					
Gooch's Best 0.0011% D.E.S. Mix Inc In Steer-Prema 32 D 3540 (4-2-58)	Yes		C F	32.00 33.00	2.00 3.07	9.00 7.05					
Wheat Gray Shorts with ground wheat screen- ings, Not exceeding Mill Run D 3541 (4-2-58) D 6018 (11-4-58)	Yes		C F F	16.50 17.40 18.65	3.50 4.50 4.22	6.00 7.16 6.70					4 4

Gooch's Best Pig Booster Crunchetts Medicated	Yes	C	18.00	3.00	4.50				
D 3567 (4-2-58)		F	19.70	3.69	3.57				
D 3277 (6-19-58)		F	19.70	3.73	3.94				
D 4488 (7-28-58)		F	20.00	3.65	3.43				
D 5281 (10-30-58)		F	20.40	3.99	3.85				
Gooch's Best 0.0011% D.E.S. Mix Inc In Steer-Perma 22	Yes	C	22.00	2.00	7.75				
D 3569 (4-2-58)		F	24.00	3.67	6.69				
Gooch's Best Super "40" Hog Supp. Pellets Medicated	Yes	C	40.00	1.50	6.50	2.50	1.00	0.0001	1.50
D 3570 (4-2-58)		F	42.85	1.77	4.98				
D 6021 (11-4-58)		F	41.00	2.28	5.67	2.30	1.07	0.0012	1.02
Gooch's Best 0.0022% D.E.S. Mix Inc In Steer-Perma 41	Yes	C	41.00	2.00	7.00				
D 3572 (4-2-58)		F	44.05	2.10	6.45				
Gooch's Best Oprema	Yes	C	12.00	2.50	9.00				
D 3540 (4-2-58)		F	13.90	3.22	7.95				
D 5284 (10-30-58)		F	12.65	3.61	6.87				
Gooch's Best 41% Cattle Supp. Pellets	Yes	C	41.00	2.00	7.00				
D 3563 (4-2-58)		F	44.70	1.42	5.97				3
Gooch's Best Pro-Guard "500" Medicated High Level Antibiotic Mix Pellets	Yes	C	14.00	2.00	12.00				
D 3565 (4-2-58)		F	15.25	2.85	12.77				4
Gooch's Best Brood Sow Supp. Pellets	Yes	C	30.00	2.50	9.00				
D 3566 (4-2-58)		F	29.30	2.91	7.27				2

GOOD MORNING MILLS, LE MARS, IOWA

Good Morning Shoat Grow Medicated	Yes	C	40.00	1.70	4.90				
E 2643 (5-9-58)		F	41.65	2.96	4.34				
Good Morning 16% Pig Grower (H) Medicated	Yes	C	16.00	3.00	3.15				
E 2644 (5-9-58)		F	18.55	3.30	2.94				
Good Morning 20% Layer Medicated	Yes	C	20.00	3.10	6.20				
E 2646 (5-9-58)		F	21.00	4.08	6.17				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

GOODE SEED & FEED CO., ALBIA, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Goode's Gold Banner 37% Egg Concentrate..... D 4330 (6-30-58)	Yes		C	37.00	3.25	7.50					2a
			F	35.50	4.20	7.73					
Goode's Gold Banner 20% Chick Starter Medicated ..... D 4331 (6-30-58)	Yes		C	20.00	4.00	6.50					
			F	20.85	4.60	6.45					
Goode's Gold Banner 18% Chick Grower..... D 4332 (6-30-58)	Yes		C	18.00	3.75	7.00					
			F	19.15	4.65	7.06					
Goode's Gold Banner 35% Sow & Pig Con- centrate ..... D 4333 (6-30-58)	Yes		C	35.00	2.50	9.00					4
			F	35.00	3.74	10.00					
Goode's Gold Banner 40% Hog Concentrate..... D 4334 (6-30-58)	Yes		C	40.00	2.50	7.00					
			F	40.90	4.75	6.10					

GOODMAN & MEAD, STATE CENTER, IOWA

G & M 18% Chick Grower..... D 2065 (6-2-58)	Yes		C	18.00	4.00	7.25					
			F	19.65	4.79	5.93					
G & M Mash Maker..... E 8352 (11-8-57) D 2060 (6-2-58)	Yes		C	35.00	3.00	7.00					4
			F	35.00	5.42	7.63					
Big Ten Hog Feed..... D 2057 (6-2-58)	Yes		C	38.00	5.00	7.00					
			F	38.65	6.61	5.83					
G & M 35% Sow & Pig Concentrate..... D 2059 (6-2-58)	Yes		C	35.00	2.50	9.00					2a
			F	33.75	4.18	8.75					
G & M Manamar 40% Hog Concentrate..... D 2058 (6-2-58)	Yes		C	40.00	5.00	7.00					2a
			F	37.75	7.13	6.37					



ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
GREELEY MILL & ELEVATOR, GREELEY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent					Remarks		
				Crude Protein	Crude Fat	Crude Fiber	Ca	P		I	Salt
Top Notch 18% Chick Grower Medicated..... D 1493 (5-7-58)	Yes		C F	18.00 18.40	3.20 4.22	5.60 4.29					
Top Notch 14% Pig Grower Pellets Medicated..... D 1491 (5-7-58)	Yes		C F	14.00 14.25	4.00 4.90	6.00 3.53					
Top Notch 35% Sow Supplement..... E 9761 (12-11-57)	No	Yes	C F	35.00 38.60	2.50 3.55	9.00 7.73					
Top Notch 24% Calf Starter..... E 9762 (12-11-57) D 1492 (5-7-58)	Yes		C F F	24.00 25.90 25.10	1.80 2.67 2.96	6.00 7.20 6.00					
Top Notch 16% Sweet Pig Starter Medicated..... E 9763 (12-11-57)	No	Yes	C F	16.00 18.05	3.00 4.47	3.00 3.00					
Top Notch 28% Cafeteria Layer..... E 9764 (12-11-57)	Yes		C F	28.00 30.75	3.00 3.70	8.00 6.87					
Top Notch 40% Hog Concentrate..... E 9757 (12-11-57) D 1499 (5-7-58)	Yes		C F F	40.00 42.00 40.85	2.50 3.40 4.00	7.50 6.25 5.85					
Top Notch 36% Pig Concentrate Medicated..... E 9758 (12-11-57)	No	Yes	C F	36.00 39.70	2.50 3.81	6.20 5.82					
Top Notch 36% Poultry Concentrate..... E 9759 (12-11-57)	Yes		C F	36.00 38.70	2.00 3.92	7.50 7.02					
Top Notch 36% Dairy Concentrate Medicated..... E 9760 (12-11-57) D 3851 (5-7-58)	Yes		C F F	36.00 36.45 38.40	1.05 2.39 2.07	9.00 7.50 5.64					



Green Glow 17% Dehydrated Alfalfa D 2009 (8-15-58)	Yes		C F	17.00 18.10	1.75 2.64	27.00 27.69					4
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GREEN PRODUCTS CO., CONRAD, IOWA

Green Farm Feeds 35% C & O Dry Lot Special Medicated D 1145 (4-22-58)	Yes		C F	35.00 35.90	4.00 4.15	6.00 6.65					4
Green Farm Feeds 32% Poultry Supplement D 1146 (4-22-58)	Yes		C F	32.00 33.60	2.50 4.70	10.00 9.55					
Green Farm Feeds 26% Cafeteria Supplement D 1147 (4-22-58)	Yes		C F	26.00 28.10	3.50 4.30	8.50 9.20					4
Green Farm Feeds 18% Lay Mash D 1149 (4-22-58)	Yes		C F	18.00 20.60	3.50 4.10	7.50 6.00					
Green Farm Feeds V-16 Mineral E 8318 (10-10-57)	Yes		C F				29.00 28.40	5.00 6.12	0.05 0.051		
Green Farm Feeds 32% C & O Dry Lot Special Medicated D 1142 (4-22-58)	Yes		C F	32.00 33.75	3.25 3.65	9.00 10.14					4
D 1150 (4-22-58)			F	33.10	4.50	10.92					4
Green Farm Feeds 45% C & O Finisher Medicated D 1143 (4-22-58)	Yes		C F	45.00 44.90	3.00 5.50	5.00 4.60					
Green Farm Feeds 16% C & O Starter Medicated D 1144 (4-22-58)	Yes		C F	16.00 17.80	3.00 4.40	3.50 2.28					
Green Farm Feeds 17% Dehydrated Alfalfa Meal with Animal Fat D 1151 (4-22-58)	Yes		C F	17.00 20.15	1.50 3.75	27.00 23.90					
Green Farm Feeds 20% Chick Starter Medicated D 1148 (4-22-58)	No	Yes	C F	20.00 22.60	3.00 3.15	6.00 5.00					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
GREELEY MILL & ELEVATOR, GREELEY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Top Notch 18% Chick Grower Medicated D 1493 (5-7-58)	Yes		C	18.00	3.20	5.60					
			F	18.40	4.22	4.29					
Top Notch 14% Pig Grower Pellets Medicated D 1491 (5-7-58)	Yes		C	14.00	4.00	6.00					
			F	14.25	4.90	3.53					
Top Notch 35% Sow Supplement E 9761 (12-11-57)	No	Yes	C	35.00	2.50	9.00					
			F	38.60	3.55	7.73					
Top Notch 24% Calf Starter E 9762 (12-11-57) D 1492 (5-7-58)	Yes		C	24.00	1.80	6.00					
			F	25.90	2.67	7.20					
			F	25.10	2.96	6.00					
Top Notch 16% Sweet Pig Starter Medicated E 9763 (12-11-57)	No	Yes	C	16.00	3.00	3.00					
			F	18.05	4.47	3.00					
Top Notch 28% Cafeteria Layer E 9764 (12-11-57)	Yes		C	28.00	3.00	8.00					
			F	30.75	3.70	6.87					
Top Notch 40% Hog Concentrate E 9757 (12-11-57) D 1499 (5-7-58)	Yes		C	40.00	2.50	7.50					
			F	42.00	3.40	6.25					
			F	40.85	4.00	5.85					
Top Notch 36% Pig Concentrate Medicated E 9758 (12-11-57)	No	Yes	C	36.00	2.50	6.20					
			F	39.70	3.81	5.82					
Top Notch 36% Poultry Concentrate E 9759 (12-11-57)	Yes		C	36.00	2.00	7.50					
			F	38.70	3.92	7.02					
Top Notch 36% Dairy Concentrate Medicated E 9760 (12-11-57) D 3851 (5-7-58)	Yes		C	36.00	1.05	9.00					
			F	36.45	2.39	7.50					
			F	38.40	2.07	5.64					

GREEN GLOW MILLS, INC., LAUREL, NEBRASKA

Green Glow 17% Dehydrated Alfalfa D 2009 (8-15-58)	Yes		C F	17.00 18.10	1.75 2.64	27.00 27.69					4
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GREEN PRODUCTS CO., CONRAD, IOWA

Green Farm Feeds 35% C & O Dry Lot Special Medicated D 1145 (4-22-58)	Yes		C F	35.00 35.90	4.00 4.15	6.00 6.65					4
Green Farm Feeds 32% Poultry Supplement D 1146 (4-22-58)	Yes		C F	32.00 33.60	2.50 4.70	10.00 9.55					
Green Farm Feeds 26% Cafeteria Supplement D 1147 (4-22-58)	Yes		C F	26.00 28.10	3.50 4.30	8.50 9.20					4
Green Farm Feeds 18% Lay Mash D 1149 (4-22-58)	Yes		C F	18.00 20.60	3.50 4.10	7.50 6.00					
Green Farm Feeds V-16 Mineral E 8318 (10-10-57)	Yes		C F				29.00 28.40	5.00 6.12	0.05 0.051		
Green Farm Feeds 32% C & O Dry Lot Special Medicated D 1142 (4-22-58)	Yes		C F	32.00 33.75	3.25 3.65	9.00 10.14					4
D 1150 (4-22-58)			F	33.10	4.50	10.92					4
Green Farm Feeds 45% C & O Finisher Medicated D 1143 (4-22-58)	Yes		C F	45.00 44.90	3.00 5.50	5.00 4.60					
Green Farm Feeds 16% C & O Starter Medicated D 1144 (4-22-58)	Yes		C F	16.00 17.80	3.00 4.40	3.50 2.28					
Green Farm Feeds 17% Dehydrated Alfalfa Meal with Animal Fat D 1151 (4-22-58)	Yes		C F	17.00 20.15	1.50 3.75	27.00 23.90					
Green Farm Feeds 20% Chick Starter Medicated D 1148 (4-22-58)	No	Yes	C F	20.00 22.60	3.00 3.15	6.00 5.00					

COMMERCIAL FEEDS

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## GUTHRIE SEED &amp; FEED, NEWTON, IOWA

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ANNUAL REPORT

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Red Bird 14% Dairy Ration..... D 5017 (7-22-58)	Yes		C F	14.00 16.15	3.00 3.42	8.00 4.81	..... .....	..... .....	..... .....	..... .....	
Red Bird 36% Dairy Concentrate..... D 5018 (7-22-58)	Yes		C F	36.00 39.50	1.50 2.17	6.50 5.87	3.30 2.60	1.00 1.00	0.0001 0.0025	3.00 2.80	
Special Formula #4..... D 5023 (7-22-58)	Yes		C F	19.90 20.10	3.60 3.99	2.90 3.05	..... .....	..... .....	..... .....	..... .....	
Special Formula #1..... D 5024 (7-22-58)	Yes		C F	36.00 36.25	2.10 2.78	8.00 9.23	3.80 3.10	1.50 1.20	..... .....	2.00 2.40	4, 6, 7
Red Bird 36% Poultry Balancer Medicated..... E 3314 (3-24-58) D 5019 (7-22-58)	Yes		C F F	36.00 36.75 38.25	3.50 3.78 3.32	7.70 7.99 8.31	5.50 3.50 5.20	1.50 1.50 1.50	0.000027 0.0007 0.0026	2.50 2.48 2.90	4, 6
Red Bird 20% Layer Medicated..... E 3315 (3-24-58) D 5014 (7-22-58)	Yes		C F F	20.00 23.20 20.00	3.50 3.82 3.55	7.50 7.09 7.86	3.50 2.40 2.40	1.00 1.00 0.75	0.00011 0.0002 0.008	1.50 1.10 1.20	
Red Bird 18% Chick Starter Medicated..... E 3316 (3-24-58) D 5016 (7-22-58)	Yes		C F F	18.00 20.10 22.00	3.50 3.67 3.22	5.50 4.31 4.97	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	
Red Bird 17% Grower Medicated..... D 5015 (7-22-58)	Yes		C F	17.00 19.10	3.50 3.66	6.00 4.23	..... .....	..... .....	..... .....	..... .....	
Red Bird Pig Pre-Starter Medicated..... E 3310 (3-24-58) D 5025 (7-22-58)	Yes		C F F	20.00 21.60 22.15	3.00 3.55 3.11	3.50 2.94 2.61	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	
Red Bird 16% Pig Pusher Medicated..... E 3311 (3-24-58) D 5020 (7-22-58)	Yes		C F F	16.00 17.65 17.85	3.00 4.21 3.77	7.00 4.99 4.90	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	

Red Bird 35% Pig & Sow Balancer Medicated E 3312 D 5021	Yes		C	35.00	3.50	9.50	5.00	1.00	0.0001	3.30	4
			F	36.30	3.67	10.01	3.40	1.20	0.0011	2.64	
			F	36.65	4.26	9.65					
Red Bird 35% Hog Balancer Medicated E 3313 D 5022	Yes		C	35.00	3.50	8.50	5.50	1.00	0.0001	3.00	
			F	38.05	3.57	7.42	3.60	1.09	0.00135	3.02	
			F	35.90	3.95	8.63	3.40	1.10	0.0025	2.90	

HAMPTON FEED & MILLING CO., HAMPTON, IOWA

Hampton's Pride 20% Lay Mash D 231	Yes		C	20.00	3.50	6.50					
			F	23.55	4.13	5.45					
Hampton's Pride 36% Pig & Sow Supplement D 232	Yes		C	36.00	1.50	10.00	5.50	1.50			
			F	38.20	3.59	7.47	3.40	1.61			
Hampton's Pride 40% Super Hog Balancer D 233	Yes		C	40.00	2.50	7.00	6.00	1.75			
			F	42.65	4.67	5.76	5.40	2.12			
Hampton's Pride 26% Poultry Balancer D 234	Yes		C	26.00	3.50	8.00	4.50	1.30			
			F	29.20	4.17	6.42	3.70	1.63			

HARDING CREAMERY, OMAHA, NEBRASKA

Dried Buttermilk (Feeding) D 4073	Yes		C	30.00	5.00						
			F	32.75	7.74						

HARTLEY CREAMERY, HARTLEY, IOWA

Dried Buttermilk D. 2216	Yes		C	30.00	5.00	1.00					
			F	31.75	7.30	0.15					

HARVEST BRAND, INC., PITTSBURG, KANSAS

Stockade Mineral D 4292	Yes		C	1.50			27.00	3.05	0.06	20.00	8
			F	1.45			15.30	3.60	0.03	19.50	
Stockade Mineral with Bone Meal & Iodine D 4235	Yes		C	1.50			28.50	3.05	0.06	20.00	8, 1a
			F	1.30			28.10	2.83	0.026	19.04	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

HAWARDEN FEED MILL, HAWARDEN, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks		
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt	
Scroggs 35% Sow & Pig Concentrate D 518 (2-26-58)	Yes		C	35.00	2.50	6.00						
			F	33.95	2.53	6.17						2a, 4
Scroggs 14% Sow Ration D 519 (2-26-58)	Yes		C	14.00	2.00	8.00						
			F	13.60	3.82	7.21						2
Scroggs 18% Complete Egg Ration D 520 (2-26-58)	Yes		C	18.00	2.50	7.00						
			F	20.00	4.20	6.42						
Scroggs 30% Bossie Blend Dairy Concentrate D 522 (2-26-58)	Yes		C	30.00	2.00	7.00						
			F	26.95	1.75	9.24						2a, 4
Scroggs 40% Hog Supplement D 523 (2-26-58)	Yes		C	40.00	2.00	8.00						
			F	34.30	2.41	7.89						2a
Scroggs 26% Grain Balancer D 526 (2-26-58)	Yes		C	26.00	3.00	7.00						
			F	26.15	3.62	7.13						
Scroggs 40% Hog Supplement Medicated D 524 (2-26-58)	Yes		C	40.00	2.00	8.00						
			F	34.00	2.45	7.93						2a
Scroggs 14% Complete Hog Ration Medicated D 521 (2-26-58)	Yes		C	14.00	3.00	5.00						
			F	15.15	4.21	5.46						
22% Steer Brickle "A" D 516 (2-26-58)	No	Yes	C	22.00	2.00	7.50						
			F	25.15	2.40	9.06						2a, 4
Scroggs 32% Steer Brickle "A" D 525 (2-26-58)	No		C	32.00	1.00	7.00						
			F	32.75	2.07	7.00						
35% Sow & Pig Concentrate Medicated D 515 (2-26-58)	Yes		C	35.00	2.50	6.00	3.50	1.50	0.0003	2.50		
			F	35.50	2.82	6.78	2.00	1.08	0.0003	1.09		4, 7

HEALY HATCHERIES, FARLEY, IOWA

Healy's Pig Starter (Medicated) D 4841 (11-19-58)	Yes	C	17.00	3.50	6.00						4
		F	17.55	4.81	6.89						
Healy's 42% Super Pig Concentrate (Medicated) D 4842 (11-19-58)	Yes	C	42.00	3.50	7.00	5.00	2.00	0.0005	2.00		6
		F	44.70	5.06	5.72	4.60	2.35	0.0019	2.41		
Healy's 35% Sow & Pig Concentrate D 4843 (11-19-58)	Yes	C	35.00	2.00	9.00	5.00	1.60	0.0007	2.25		
		F	36.70	2.32	8.95	4.40	1.34	0.0015	1.96		
Healy's 16% All Mash D 4844 (11-19-58)	Yes	C	16.00	3.00	6.00						
		F	17.35	4.52	5.42						
Healy's 45% Hog Concentrate D 4845 (11-19-58)	Yes	C	45.00	3.00	5.50	5.00	2.00	0.0005	1.00		
		F	46.25	4.80	4.35	4.50	2.09	0.0017	1.35		

HENDRICKS FEED COMPANY, DUBUQUE, IOWA

Hendricks Best 34% Poultry Concentrate Medicated D 3002 (7-15-58)	Yes	C	34.00	2.00	8.50						
		F	36.70	2.68	8.06						
Hendricks Best Pig & Sow Supplement D 3003 (7-15-58)	Yes	C	35.00	2.50	9.00						
		F	35.90	3.27	8.38						
Hendricks Best 42% Hog Supplement D 3004 (7-15-58)	Yes	C	42.00	2.50	8.00						
		F	42.90	3.38	7.90						
Hendricks Best Free Choice 26% Concentrate Medicated D 3005 (7-15-58)	Yes	C	26.00	3.00	8.00						
		F	27.85	3.89	8.17						
Hendricks Best 20% Laying Mash Medicated D 3006 (7-15-58)	Yes	C	20.00	3.00	6.50						
		F	23.20	3.70	5.50						

HESS BUTTERMILK COMPANY, DYERSVILLE, IOWA

Hess Semi-Solid Zoom D 506 (2-13-58)	No	Yes	C	9.00	1.50	1.00					
E 2614 (4-29-58)			F	5.55	0.77	0.042					2a, 3
			F	6.45	0.60	0.12					2a, 3

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
F. J. HIGGINS MILLING CO., SCHUYLER, NEBRASKA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
17% Dehydrated Alfalfa Meal..... D 4069 (7-9-58)		Yes	C F	17.00 15.50	1.50 3.48	27.00 28.82	..... .....	..... .....	..... .....	..... .....	2a, 4

HILMER GRAIN CO., ROCHESTER, MINNESOTA

Rajah Brand Meat Scraps..... D 774 (5-8-58)	No	Yes	C F	50.00 50.00	6.00 7.88	3.00 2.30	..... .....	..... .....	..... .....	..... .....	
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HOLLINGSHURST & COMPANY, INC., NEW YORK 17, N. Y.

Spent Bone Black Verifine..... D 3753 (4-4-58)	Yes		C F	..... .....	..... .....	..... .....	38.00 37.70	12.00 12.00	..... .....	..... .....	
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HOME LUMBER & FEED COMPANY, CRAWFORDSVILLE, IOWA

Check-R-Mix Laying Mash LE..... E 7001 (2-18-58)	Yes		C	21.00	3.00	7.00	.....	.....	.....	.....	
E 7057 (4-28-58)			F	22.15	4.51	4.76	.....	.....	.....	.....	
D 2865 (7-8-58)			F	23.10	5.60	4.50	.....	.....	.....	.....	
D 326 (10-14-58)			F	22.95	5.31	4.16	.....	.....	.....	.....	
			F	21.55	4.25	4.06	.....	.....	.....	.....	
Check-R-Mix 16 % Dairy Feed P..... E 7004 (2-18-58)	Yes		C	16.00	3.00	10.00	.....	.....	.....	.....	
D 2864 (7-8-58)			F	17.50	3.55	5.32	.....	.....	.....	.....	
D 327 (10-14-58)			F	18.10	3.12	6.33	.....	.....	.....	.....	
			F	16.30	3.40	4.12	.....	.....	.....	.....	



HOME MIX FEED COMPANY, WILTON JUNCTION, IOWA

	No	Yes	C								
40% Hog Supplement.....			C	40.00	4.50	6.00					
E 7015 (2-20-58)			F	41.00	2.82	5.80					3
E 7078 (5-13-58)	Yes		F	40.25	4.15	6.68					3, 4
E 7238 (6-4-58)			F	40.25	4.38	6.71					4

HONEGGER'S & COMPANY, INC., FAIRBURY, ILLINOIS

Honegger's Big H 34% Poultry Supplement.....	Yes		C	34.00	2.50	8.50					
D 3301 (5-15-58)			F	36.60	3.16	7.55					
Honegger's Big H 26% Poultry Supplement....	Yes		C	26.00	3.00	8.00					2a
D 3302 (5-15-58)			F	24.60	4.67	6.70					
Honegger's Big H Super Starter (G) Crumbles			C	20.00	3.50	5.00					
Medicated .....	Yes		F	21.45	4.52	3.93					
D 3304 (5-15-58)											
Honegger's Big H 37% Poultry Mixing			C	37.00	3.00	8.00					
Concentrate .....	Yes		F	36.60	4.07	8.35					
D 3306 (5-15-58)											
Honegger's Big H 3-Nitro-4 Hydroxypheny- larsonic Acid Mixture Inc In Starter & Broiler Concentrate.....	Yes		C	38.00	4.00	7.00					
D 3307 (5-15-58)			F	40.75	4.91	5.10					
Honegger's Big H Furazolidone Mix Inc In Turkey Pre-Starter.....	Yes		C	28.00	3.00	6.00					
D 3308 (5-15-58)			F	30.50	4.83	5.45					
Honegger's Big H Medicated Fortipoultry.....	Yes		C	20.00	4.00	5.00					
D 3310 (5-15-58)			F	22.75	5.48	4.40					
Honegger's Big H 35% Hog Popper Sup- plement .....	Yes		C	35.00	1.50	8.00					
D 3318 (5-15-58)			F	35.65	2.45	6.77					
Honegger's 14% Hep All-Mash Laying Ration.....	Yes		C	14.00	3.50	6.00					
D 612 (3-20-58)			F	16.60	4.35	4.10					
D 3303 (5-15-58)			F	15.95	4.69	5.72					
Honegger's Rabbit Pellets.....	Yes		C	19.00	2.50	14.00					
D 613 (3-20-58)			F	20.70	4.05	11.17					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 HONEGGER'S & COMPANY, INC., FAIRBURY, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Honegger's Mineral Mix..... D 618 (3-20-58)	Yes		C F	..... .....	..... .....	..... .....	26.00 24.60	7.00 8.08	0.0048 0.0046	21.00 16.95	
Honegger's Super Starter (NC) Medicated..... D 619 (3-20-58)	Yes		C F	20.00 21.60	3.50 4.15	5.00 3.90	..... .....	..... .....	..... .....	..... .....	
Honegger's Medicated Fortipoultry..... D 620 (3-20-58)	Yes		C F	20.00 22.95	4.00 4.00	5.00 3.77	..... .....	..... .....	..... .....	..... .....	
Honegger's Calf Concentrate..... D 621 (3-20-58)	Yes		C F	30.00 30.80	3.00 3.70	8.00 7.23	..... .....	..... .....	..... .....	..... .....	
Honegger's 33% Hep Free Choice Poultry Supplement..... D 624 (3-20-58) D 3311 (5-15-58)	Yes		C F F	33.00 33.80 34.65	2.00 4.52 3.13	8.00 5.80 6.04	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	
Honegger's Egg Popper..... D 625 (3-20-58) D 3312 (5-15-58)	Yes		C F F	20.00 22.75 21.45	3.50 3.71 5.40	7.50 5.01 4.87	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	
Honegger's Medicated Fortipig..... D 602 (3-20-58)	Yes		C F	18.00 20.65	3.50 3.70	6.00 3.84	..... .....	..... .....	..... .....	..... .....	
Honegger's 40% Hog Supplement..... D 603 (3-20-58)	Yes		C F	40.00 41.10	1.00 2.50	6.00 4.87	4.20 4.10	1.20 1.33	0.0007 0.00065	2.50 1.42	
Honegger's 26% Hep Poultry Supplement..... D 605 (3-20-58) D 3322 (5-15-58)	Yes		C F F	26.00 27.80 26.75	3.00 4.00 4.38	8.00 6.55 6.94	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	
Honegger's Medicated Forti Green Pellets..... D 606 (3-20-58)	Yes		C F	20.00 22.70	2.50 3.35	8.00 5.92	..... .....	..... .....	..... .....	..... .....	

Honegger's Baby Piglets (HA) Medicated D 607 (3-20-58)	Yes	C F	20.00 23.70	2.50 3.55	4.00 3.60				
Honegger's 32% Brood Sow Supplement Pellets D 608 (3-20-58)	Yes	C F	32.00 32.35	1.50 3.45	10.00 7.35				
Honegger's Big H 37% Hep Poultry Mixing Concentrate D 609 (3-20-58) D 3305 (5-15-58)	Yes	C F F	37.00 37.00 38.15	3.00 3.70 4.26	8.00 5.93 6.34				
Honegger's Hog Wormer Pellets D 610 (3-20-58)	Yes	C F	16.00 19.60	3.50 5.13	6.00 3.90				
Honegger's Big H Pig Weanlet Medicated D 3313 (5-15-58)	Yes	C F	21.00 21.20	5.00 7.22	1.00 0.41				
Honegger's Big H Broiler Popper Crumbles Medicated D 3314 (5-15-58)	Yes	C F	21.00 23.60	4.50 6.16	5.50 4.22				
Honegger's Poultry Mixing Blend No. 370 D 3315 (5-15-58)	Yes	C F	30.00 31.55	2.00 5.14	8.00 6.78				
Honegger's Big H Medicated Fortipig D 3316 (5-15-58)	Yes	C F	18.00 19.35	3.50 5.80	6.00 4.15				
Honegger's Big H 35% Pig Popper Supplement (H) Medicated D 3319 (5-15-58)	Yes	C F	35.00 36.55	1.25 3.61	8.00 6.65				
Honegger's Big H Grower (G) Medicated D 3321 (5-15-58)	Yes	C F	18.00 16.90	3.00 4.78	7.00 5.34				2 a
Honegger's Big H 33% Free Choice Poultry Supplement D 3320 (5-15-58)	Yes	C F	33.00 34.20	2.00 2.15	8.00 7.78				
Honegger's Big H 16% All Mash Growing Ration (G) Crumbles Medicated D 3323 (5-15-58)	Yes	C F	16.00 17.40	4.00 4.43	6.00 3.79				
Honegger's 35% Pig Popper Supplement Medicated D 601 (3-20-58) D 3309 (5-15-58)	Yes	C F F	35.00 36.10 32.75	1.25 1.85 2.30	8.00 6.19 10.85	4.50 4.00	1.30 1.32	0.0007 0.00085	2.20 1.38

2a, 4

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## HONEGGER'S &amp; COMPANY, INC., FAIRBURY, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Honegger's Medicated Cattle Conditioning D 615 (3-20-58)	Yes		C F	12.00 15.90	2.00 4.15	14.00 14.74					4
Honegger's #3030 Cattle Pellets D 623 (3-20-58)	Yes		C F	30.00 31.20	1.00 2.04	12.00 13.63					4
Honegger's Scratch D 604 (3-20-58)	Yes		C F	9.00 10.45	3.00 4.00	6.50 3.78					
Honegger's Special 32% Steer Supplement D 611 (3-20-58)	Yes		C F	32.00 33.65	1.00 2.35	15.00 16.80					4
Honegger's 32% Milk Popper Supplement D 616 (3-20-58) D 3324 (5-15-58)	Yes		C F F	32.00 34.35 32.00	1.50 2.00 2.80	7.00 6.26 7.10	2.00 1.80	1.20 1.28	0.00037 0.00058	2.00 1.65	
0.0022% D.E.S. Mix Inc In #3030 Cattle Pellets D 622 (3-20-58)	Yes		C F	30.00 32.20	1.00 1.05	12.00 16.32					4
Honegger's Poultry Wormer D 614 (3-20-58) D 3317 (5-15-58)	Yes		C F F	20.00 22.15 19.00	4.00 5.60 6.85	5.00 4.55 5.71					2a,4

## FRANK HOOSE &amp; COMPANY, EDDYVILLE, IOWA

Hoose's Superior Laying Mash D 4458 (7-21-58)	Yes		C F	18.00 18.10	3.00 3.85	6.50 4.34					
Hoose's Superior Growing Mash D 4459 (7-21-58)	Yes		C F	18.00 18.55	3.00 4.37	7.50 4.13					
Hoose's Superior Chick Starter D 4460 (7-21-58)	Yes		C F	20.00 20.95	3.00 3.83	6.00 3.95					

HOOSIER MINERAL FEED CO., GREENWOOD, INDIANA

Dr. Clore's Antibiotic & Vitamin Pre-Mix for Poultry D 5012 (7-22-58)	Yes		C	27.00	2.00	8.00	-----	-----	-----	-----	
			F	30.25	4.95	7.92	-----	-----	-----	-----	
Dr. Clore's Free Choice Mineral D 5013 (7-22-58)	Yes		C	-----	-----	-----	28.00	3.50	0.003	5.00	5
			F	-----	-----	-----	30.30	6.30	0.008	3.60	

HOUSTON FEED COMPANY, ST. JOSEPH, MISSOURI

Houston Big H Beef & Bone Scraps D 4051 (6-27-58)	Yes		C	50.00	6.00	3.00	-----	-----	-----	-----	
			F	50.00	10.11	1.79	-----	-----	-----	-----	

W. H. HOWARD, MOULTON, IOWA

Howard's Tip Top 26% Free Choice Supplement D 5264 (10-7-58)	No	Yes	C	26.00	3.00	9.50	-----	-----	-----	-----	
			F	27.05	2.84	8.66	-----	-----	-----	-----	
Howard's Tip Top 40% Hog Supplement D 5263 (10-7-58)	No	Yes	C	40.00	2.50	8.00	-----	-----	-----	-----	
			F	44.45	3.19	4.57	-----	-----	-----	-----	

HUBBARD MILLING COMPANY, MANKATO, MINNESOTA

Hubbard's Sunshine 41% Steer Concentrate D 5632 (12-16-58)	Yes		C	41.00	1.50	9.00	-----	-----	-----	-----	
			F	41.00	2.26	6.06	-----	-----	-----	-----	
Hubbard's Sunshine 35% Sow & Pig Concentrate D 4698 (11-10-58) D 5624 (12-16-58)	Yes		C	35.00	3.50	9.00	4.20	1.20	0.0015	2.50	
			F	35.90	4.10	6.50	4.20	1.28	0.0017	2.16	
			F	35.95	5.06	6.38	-----	-----	-----	-----	
Hubbard's Sunshine 26% Egg Balancer D 5621 (12-16-58)	Yes		C	26.00	4.00	8.50	-----	-----	-----	-----	
			F	27.30	4.22	7.61	-----	-----	-----	-----	
Hubbard's Sunshine Baby Pig Pre-Starter Medicated D 5622 (12-16-58)	Yes		C	16.00	3.50	3.50	-----	-----	-----	-----	
			F	18.95	3.80	3.08	-----	-----	-----	-----	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 HUBBARD MILLING COMPANY, MANKATO, MINNESOTA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Hubbard's Sunshine 40% Hog Concentrate D 5623 (12-16-58)	Yes		C	40.00	2.50	6.50	5.00	1.10	0.001	3.00	
			F	40.50	2.70	5.12	4.70	1.16	0.002	2.54	
Hubbard's Sunshine 36% Dairy Concentrate D 5625 (12-16-58)	Yes		C	36.00	2.00	9.00					
			F	37.45	2.19	5.82					
Hubbard's Sunshine 32% Beef Builder "A" D 5629 (12-16-58)	Yes		C	32.00	2.00	10.00					
			F	33.45	2.76	8.25					
Hubbard's Sunshine Medicated Cattle Con- ditioning Pellets D 5630 (12-16-58)	Yes		C	11.00	2.50	10.00					
			F	14.15	4.52	6.25					
Hubbard's Sunshine Hi-Lass Cattle Pellets D 5631 (12-16-58)	Yes		C	22.00	1.00	12.00					
			F	24.05	3.22	10.23					
Hubbard's Sunshine Calf Pre-Starter D 3759 (4-8-58)	Yes		C	23.00	6.00	2.50					
			F	24.00	6.56	1.40					
Hubbard's Sunshine Pig Starter & Grower Medicated D 3761 (4-8-58)	Yes		C	16.00	3.50	4.00					
			F	18.05	3.74	3.57					
Hubbard's Sunshine Swine Pre-Mix Medicated E 7273 (7-1-58) D 4697 (11-10-58)	Yes		C	26.00	3.00	6.50	9.50	2.50	0.005		
			F	27.90	3.46	5.98	8.70	2.25	0.005		
			F	29.10	3.59	5.88	9.60	2.50	0.0045		
Hubbard's Sunshine Complemix For Poultry & Turkeys E 7274 (7-1-58)	Yes		C	30.00	7.00	6.50	9.00	3.00	0.007		
			F	31.25	6.60	4.03	9.00	2.98	0.007		
Hubbard's Sunshine Bulky Dairy Mix E 7835 (12-6-57) E 7214 (3-10-58) D 2343 (10-29-58)	Yes		C	10.00	1.50	12.00					3
			F	14.65	2.67	9.50					
			F	13.15	2.81	9.58					
			F	12.45	2.73	9.95					

Hubbard's Sunshine 32% All-Purpose Concentrate (A&D)..... D 700 (12-26-57)	Yes	C F	32.00 34.05	4.00 3.38	8.00 6.10					3
Hubbard's Sunshine 37% Egg Concentrate..... D 696 (12-26-57) D 4696 (11-10-58)	Yes	C F F	37.00 38.10 37.25	4.00 3.65 4.52	9.00 5.68 5.63	5.80 5.40 5.90	1.80 2.00 2.11	0.002 0.0017 0.0027	2.00 1.98 1.99	3
Hubbard's Sunshine Mineral..... D 3760 (4-8-58)	Yes	C F				32.00 30.80	4.50 4.30	0.007 0.0097	10.00 10.33	

HUBER YEAST PRODUCTS CO., WATERLOO, IOWA

Huber's Yeast Culture..... D 90 (12-9-57)	Yes	C F	12.00 13.70	3.50 3.80	5.00 3.13					
Big 4 Least Cost Pre-Mix Medicated for Poultry..... D 91 (12-9-57) D 3352 (11-28-58)	Yes	C F F	37.00 40.80 38.40	2.00 1.97 2.12	4.50 4.13 4.33	5.00 4.30 4.60	1.25 1.54 1.61	0.001 0.0015	5.50 4.97	
Big 4 Ration Builder "40" Medicated..... D 92 (12-9-57) D 2399 (11-28-58)	Yes	C F F	40.00 43.40 40.60	4.00 3.95 4.90	3.00 2.52 2.92	7.00 6.80 6.80	2.50 2.55 2.63	0.005 0.006	2.50 3.19	6
Big 4 Least Cost Pre-Mix Medicated for Swine..... D 93 (12-9-57)	Yes	C F	30.00 34.90	1.00 1.00	5.00 4.30	7.50 7.10	2.75 2.90			
Big 4 Hy-G-Pig Starter Pre-Mix Medicated..... D 94 (12-9-57) D 3355 (11-28-58)	Yes	C F F	30.00 34.35 33.60	1.75 2.02 2.07	3.75 3.58 3.64					
Ration Builder..... D 95 (12-9-57)	Yes	C F	11.00 13.80	3.00 3.52	5.00 3.05					
Big 4 Hy-G Pig Grower Pre-Mix Medicated..... D 96 (12-9-57) D 2400 (11-28-58)	Yes	C F F	37.00 39.25 36.95	1.50 1.44 2.05	5.00 4.20 4.79	4.00 3.60 4.20	2.00 2.20 2.31	0.003 0.002	2.00 2.23	
Big 4 Pig Starter Medicated..... D 97 (12-9-57)	Yes	C F	18.00 20.60	3.50 4.05	2.50 1.70					
Huber's Mineral Supplement..... D 98 (12-9-57) D 3353 (11-28-58)	Yes	C F F				31.00 30.00 32.40	7.00 6.02 7.34	0.009 0.011 0.007		7 5

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 HUBER YEAST PRODUCTS CO., WATERLOO, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Big 4 Ration Builder "40" Medicated D 100 (12-9-57)	Yes		C	40.00	4.00	3.00					6
			F	43.20	4.11	2.53					
Big-4 Sow Pre-Mix Medicated D 3351 (11-28-58)	Yes		C	14.00	2.50	16.00	4.00	2.00	0.005	5.00	
			F	15.60	3.61	16.10	4.10	2.45	0.005	5.54	
Big 4 Growing-Finishing Pre-Mix Medicated D 3354 (11-28-58)	Yes		C	28.00	4.00	9.00					
			F	29.75	5.96	7.95					

THE HUBINGER COMPANY, KEOKUK, IOWA

Keokuk Brand 21% Protein Corn Gluten Feed D 7128 (11-12-58)	Yes		C	21.00	1.00	10.00				
			F	22.55	2.48	7.22				

HUDSON COOP DAIRY ASSOCIATION, HUDSON, IOWA

Hudson Brand Dried Buttermilk D 4575 (9-26-58)	Yes		C	30.00	5.00					
			F	34.35	7.88					

HUEGELY ELEVATOR, VIRDEN, ILLINOIS

Expeller Soybean Oil Meal D 5245 (8-13-58)	No		C	41.00	3.50	7.00				
			F	37.30	7.60	6.18				



HUNTTING ELEVATOR COMPANY, AUSTIN, MINNESOTA

Huntting's 32% Poultry Concentrate..... E 7873 (12-19-57) D 780 (8-19-58)	Yes	C F F	32.00 36.25 32.80	2.00 3.52 3.16	8.00 7.63 8.41	5.50 4.46	2.00 1.84	0.004 0.00248	3.00 2.51	8, 51
0.01% Arsanilic Acid in Huntting 16% Pig Starter Medicated..... D 782 (8-19-58)	Yes	C F	16.00 17.40	3.00 3.77	4.00 3.87					
Huntting Pig Concentrate Medicated..... D 781 (8-19-58)	Yes	C F	35.00 39.45	3.00 3.60	8.00 7.82					
Huntting 20% Egg Mash..... E 7876 (12-19-57) D 783 (8-19-58)	Yes	C F F	20.00 21.85 23.20	3.00 3.81 3.90	7.50 8.41 8.25					4 4
0.01% Arsanilic Acid in Huntting's 18% Creep Feed..... E 7877 (12-19-57)	Yes	C F	18.00 19.30	3.00 3.77	5.00 3.46					
Huntting's 34% Dairy Concentrate..... E 7878 (12-19-57)	Yes	C F	34.00 37.90	1.50 1.87	8.50 6.22					
0.015% Arsanilic Acid in Huntting 35% Pig & Sow Concentrate..... E 7879 (12-19-57)	Yes	C F	35.00 38.00	3.00 3.02	8.00 7.33					

HYGRADE FOOD PRODUCTS CORP., PLAINFIELD, IOWA

Dried Whole Whey..... D 4652 (10-1-58)	Yes	C F	12.00 14.80	0.50 1.24						
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INDEPENDENCE RENDERING WORKS, INDEPENDENCE, IOWA

Hohl's Anchor Brand Meat & Bone Scraps..... D 4511 (8-4-58)	Yes	C F	50.00 50.50	8.00 13.69	5.00 1.16					
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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

INLAND MILLS, INC., DES MOINES, IOWA

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Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Inland Hard Wheat Bran D 4427 (7-11-58)	Yes		C F	15.00 16.95	3.00 4.19	11.00 10.76					
Certainty Gray Shorts D 4428 (7-11-58)	Yes		C F	15.00 18.35	3.50 4.48	6.00 6.06					

INTERNATIONAL MILLING CO., MINNEAPOLIS 1, MINNESOTA

Blackhawk Wheat Standard Middlings With Ground Mixed Screenings D 3813 (3-27-58)	Yes		C F	14.00 17.00	3.00 5.20	9.50 9.26					
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INTERNATIONAL MINERALS & CHEMICAL CORP., CHICAGO, ILLINOIS

International New Multifos D 1809 (11-27-57)	Yes		C F				36.00 34.40	18.00 18.40			
International Beaded Dyna Fos E 7820 (12-5-57) D 3532 (3-24-58)	Yes		C F F				24.00 23.20 22.00	18.50 18.25 18.80			
International Beaded Dyna Fos Dicalcium Phosphate D 998 (8-28-58)	Yes		C F				24.00 22.10	18.50 18.46			

INTERNATIONAL SUGAR FEED COMPANY, MINNEAPOLIS, MINNESOTA

International Cattle Super-Vita D 1258 (3-10-58)	Yes		C F	30.00 30.45	3.00 1.95	6.00 4.69	11.00 9.10	1.00 1.61	0.003 0.0055	1.00 0.66	3
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INTERNATIONAL SUPPLY, ELDORA, IOWA

Eagle 666 Hog Feed Medicated..... D 4644 (7-31-58)	Yes	C F	40.00 41.00	3.00 4.65	6.00 6.06				
Eagle 35% Hog Feed Medicated..... D 5645 (7-31-58)	Yes	C F	35.00 37.30	3.00 4.12	6.00 5.83				
Eagle Sugared Hog Feed Medicated..... D 4646 (7-31-58)	Yes	C F	28.00 28.35	3.50 3.00	6.00 5.81				3
Eagle Pre-Creep..... D 4647 (7-31-58)	Yes	C F	18.00 18.85	7.00 7.34	1.50 1.12				
Eagle Sugared Egg..... D 4640 (7-31-58)	Yes	C F	17.00 19.10	3.50 3.34	8.00 7.50				
Eagle 26% Concentrate..... D 4641 (7-31-58)	Yes	C F	26.00 29.75	3.00 3.36	6.00 6.52				4
Eagle 35% Concentrate..... D 4642 (7-31-58)	Yes	C F	35.00 36.60	2.50 3.73	6.00 6.91				4
Eagle Chick Grower Medicated..... D 4643 (7-31-58)	Yes	C F	17.00 18.65	3.50 3.50	7.00 5.93				
Eagle 35% Dairy Feed..... D 4648 (7-31-58)	Yes	C F	35.00 35.80	2.50 1.06	7.50 7.57				3
Eagle Pig Starter Medicated..... D 4649 (7-31-58)	Yes	C F	16.00 18.80	4.00 4.37	4.50 3.98				
Eagle 0.0011% D.E.S. Mix Inc In Eagle Special Cattle..... D 4650 (7-31-58)	Yes	C F	32.00 33.55	2.00 2.47	9.00 8.96				
Eagle 36% Cattle Feed..... D 4501 (7-31-58)	Yes	C F	36.00 36.20	2.00 2.08	7.50 7.47				

COMMERCIAL FEEDS

IOWA LIMESTONE COMPANY, DES MOINES, IOWA

Alden Pulverized Limestone..... E 9182 (12-6-57)	No	C F				39.20 39.00			
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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
IOWA MILLING COMPANY, CEDAR RAPIDS, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Our Own 35% Pig & Sow Concentrate Medicated	Yes		C	35.00	2.50	6.00	3.50	1.50	0.0003	2.50	3, 7
D 1455 (4-17-58)			F	40.80	1.60	5.77	1.20	0.885	0.0003	0.56	
Our Own 40% Hog Supplement	Yes		C	40.00	2.00	6.00					3
D 1457 (4-17-58)			F	42.95	1.55	5.65					
Hygrade 44% Protein Solvent Extracted Soybean Oil Meal	Yes		C	44.00	0.50	7.00					4
D 1456 (4-17-58)			F	44.50	0.90	5.40					
D 4721 (8-15-58)			F	44.45	1.23	5.87					
D 4228 (9-29-58)			F	45.00	0.85	6.10					
D 4793 (10-6-58)			F	43.55	1.10	6.30					
D 6924 (12-4-58)			F	43.85	0.63	7.74					

IOWA SOYA COMPANY, REDFIELD, IOWA

44% Protein Soybean Oil Meal	Yes		C	44.00	0.50	7.00					
E 9168 (12-6-57)			F	44.00	1.87	5.60					
D 4153 (6-30-58)			F	44.85	1.77	5.50					
D 7129 (11-12-58)			F	44.30	2.17	5.15					

IOWA VALLEY MILLING COMPANY, IOWA CITY, IOWA

Greenleaf Alfalfa Meal	Yes		C	17.00	2.75	27.00					1a
D 6665 (11-17-58)			F	19.70	5.72	20.74					

ISMERT-HINCKE MILLING CO., KANSAS CITY, MISSOURI

I.H. Pure Wheat Bran.....	Yes	C	15.00	3.50	11.00	.....	.....	.....	.....
E 9170 (12-6-57)		F	17.25	4.54	11.05	.....	.....	.....	.....
D 4346 (7-2-58)		F	16.75	4.62	10.73	.....	.....	.....	.....
Grey Wheat Shorts with Ground Wheat Screenings .....	Yes	C	16.00	3.50	6.00	.....	.....	.....	.....
E 9173 (12-6-57)		F	19.10	4.95	5.40	.....	.....	.....	.....
Gray Wheat Shorts with ground wheat screenings not exceeding millrun or 8% .....	Yes	C	16.00	3.50	6.00	.....	.....	.....	.....
D 2454 (6-5-58)		F	17.85	4.81	7.07	.....	.....	.....	.....

J & M FEEDS, WILTON JUNCTION, IOWA

J & M 32% Poultry Concentrate Medicated.....	Yes	C	32.00	2.00	8.00	3.90	1.90	0.0006	2.00	5
E 7024 (4-16-58)		F	33.30	5.63	6.65	4.60	1.83	0.00075	2.34	
E 7240 (6-4-58)		F	34.10	5.36	7.26	.....	.....	.....	.....	5, 6
E 7116 (10-15-58)		F	34.40	6.40	7.55	4.80	1.82	0.0012	2.71	
J & M 36% Pig & Sow Supplement.....	Yes	C	36.00	2.50	6.50	4.20	1.90	0.00187	2.25	4, 7
E 7026 (4-16-58)		F	36.25	7.34	7.20	3.90	1.55	0.002	2.10	
D 2913 (7-28-58)		F	37.30	7.87	6.75	.....	.....	.....	.....	
D 2916 (7-28-58)		F	36.00	5.55	6.38	.....	.....	.....	.....	5
E 7114 (10-15-58)		F	38.05	6.39	6.49	5.40	2.08	0.0022	2.21	
J & M 36% Pasture Supplement.....	Yes	C	36.00	2.50	6.00	2.80	1.30	0.00125	2.25	4, 5
E 7025 (4-16-58)		F	38.05	7.85	6.60	4.16	1.46	0.001	2.08	
E 7239 (6-4-58)		F	37.60	6.64	6.29	.....	.....	.....	.....	4
D 2912 (7-28-58)		F	36.65	8.58	6.58	.....	.....	.....	.....	
D 2914 (7-28-58)		F	36.10	5.70	5.27	.....	.....	.....	.....	5
E 7115 (10-15-58)		F	41.15	6.68	5.58	5.10	1.79	0.0022	2.05	
J & M Hy-Vy Pig Starter.....	Yes	C	16.00	3.50	4.00	.....	.....	.....	.....	
E 7241 (6-4-58)		F	17.10	5.03	2.80	.....	.....	.....	.....	
D 2918 (7-28-58)		F	18.40	5.42	3.10	.....	.....	.....	.....	
E 7113 (10-15-58)		F	18.80	5.17	2.69	.....	.....	.....	.....	
J & M 32% Beef Supplement.....	Yes	C	32.00	1.50	10.00	.....	.....	.....	.....	2a
D 2915 (7-28-58)		F	30.75	5.50	7.60	.....	.....	.....	.....	
J & M 32% Beef Supplement.....	Yes	C	32.00	1.50	9.00	.....	.....	.....	.....	
D 2917 (7-28-58)		F	32.00	4.91	6.84	.....	.....	.....	.....	

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

JACK'S FEED STORE, IRETON, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
17% Laying Mash Medicated D 687 (12-20-57)	Yes		C	17.00	3.00	6.50	.....	.....	.....	.....	
			F	19.50	4.09	6.28	.....	.....	.....	.....	

JACOBS ELEVATOR, CHARLES CITY, IOWA

18% Egg Mash E 7852 (12-17-57) D 827 (8-25-58)	Yes		C	18.00	2.50	7.00	.....	.....	.....	.....	
			F	20.60	4.31	5.92	.....	.....	.....	.....	
			F	19.05	4.49	5.92	.....	.....	.....	.....	

JANESVILLE FEED MILL, JANESVILLE, IOWA

Just Right 18% Lay Feed D 216 (12-13-57)	Yes		C	18.00	3.00	7.00	.....	.....	.....	.....	
			F	22.10	4.07	7.29	.....	.....	.....	.....	
Just Right 32% Poultry Concentrate D 217 (12-13-57)	Yes		C	32.00	3.00	8.00	.....	.....	.....	.....	
			F	33.00	4.25	7.55	.....	.....	.....	.....	
Just Right 40% Hog Supplement D 218 (12-13-57)	Yes		C	40.00	2.00	7.00	.....	.....	.....	.....	
			F	40.65	5.71	5.48	.....	.....	.....	.....	

JEFFERSON FEED MILL, JEFFERSON, IOWA

Murphy's Vig-O-Ray All Mash Laying Ration D 6015 (11-4-58)	Yes		C	15.00	3.00	7.00	.....	.....	.....	.....	
			F	16.75	4.04	5.61	.....	.....	.....	.....	

JESUP CREAMERY COMPANY, JESUP, IOWA

Dried Skim Milk for Animal Feed	Yes	C	34.00	1.00						
D 4663 (11-6-58)		F	35.00	1.26						

JOHNSON FEED & GRAIN, MONTEZUMA & BROOKLYN, IOWA

Our Own Brand 17% Egg Mash	Yes	C	17.00	3.50	7.00					
D 2091 (6-26-58)		F	18.70	4.63	6.46					
Our Own Brand 35% Sow & Pig Concentrate	Yes	C	35.00	2.50	9.00	4.00	1.10	0.001	3.00	
D 2092 (6-26-58)		F	39.75	5.16	6.99					
D 5003 (7-21-58)		F	36.85	4.60	7.75	3.80	1.30	0.003	1.40	5
D 5154 (11-3-58)		F	38.30	5.51	8.14	4.90	1.21	0.0013	1.50	
Our Own Brand 40% Hog Balancer	Yes	C	40.00	4.00	7.50					2a
D 2093 (6-26-58)		F	37.80	5.17	7.92					
D 5002 (7-21-58)		F	41.25	4.67	6.56					
D 5155 (11-3-58)		F	40.50	6.40	6.97					
Our Own Brand 15% Pig Starter Medicated	Yes	C	15.00	4.20	4.50					
D 2094 (6-26-58)		F	15.75	4.54	5.62					4
D 5004 (7-21-58)		F	16.05	4.35	5.08					
Our Own 16% Pig Starter Medicated	Yes	C	16.00	3.50	4.00					4
D 5153 (11-3-58)		F	15.80	4.29	5.08					

JOHNSON FEED MILL, HOPKINTON, IOWA

Johnson's Starter Grower Concentrate Medicated	Yes	C	32.00	4.00	8.00	4.00	1.50	0.0006	2.25	4
D 4726 (9-2-58)		F	32.45	4.76	9.13	3.90	1.85	0.0012	1.78	
Johnson's 37% Hog Concentrate Medicated	Yes	C	37.00	4.80	5.80	4.00	1.80	0.0011	2.50	4
D 4727 (9-2-58)		F	37.00	4.97	7.68	3.80	1.53	0.0017	2.34	
Johnson's Chick Grower Medicated	Yes	C	18.00	3.50	5.00					4
D 4728 (9-2-58)		F	19.80	4.14	6.52					
Johnson 37% "Hi Vy" Hog Concentrate Medicated	Yes	C	37.00	3.30	6.70					4
D 4729 (9-2-58)		F	38.65	4.13	7.29					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 JOHNSON FEED MILL, HOPKINTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Johnson's 26% Grain Balancer Medicated D 4722 (9-2-58)	Yes		C	26.00	4.00	7.50	4.00	1.80	0.00045	2.00	
			F	27.75	5.25	7.86	3.30	1.89	0.00059	1.83	
Johnson's "Super Duper" Pig Starter Medicated D 4723 (9-2-58)	Yes		C	18.00	4.20	3.70					
			F	19.40	4.36	3.66					
Johnson's 40% Beef Supplement Medicated D 4724 (9-2-58)	Yes		C	40.00	3.30	8.40	2.90	1.20	0.0008	2.50	
			F	41.40	4.05	8.13	2.50	1.22	0.0011	1.96	
Johnson's 40% Dairy Concentrate Medicated D 4725 (9-2-58)	Yes		C	40.00	3.70	7.80	3.40	1.10	0.0008	2.50	4
			F	40.20	3.83	8.83	3.70	1.30	0.0016	2.79	
Johnson's "Dogie Dinner" Calf Starter Medicated D 4736 (9-2-58)	Yes		C	19.00	4.10	5.50					3
			F	22.50	3.76	5.55					
Johnson's 32% Poultry Concentrate Medicated D 4730 (9-2-58)	Yes		C	32.00	4.00	8.00	4.50	1.50	0.0006	2.25	4
			F	33.80	4.72	9.12	4.00	1.65	0.00099	1.70	
Johnson's 16% All Mash Medicated D 4731 (9-2-58)	Yes		C	16.00	3.00	6.00					
			F	16.35	3.92	5.91					
Johnson's Chick Starter Medicated D 4732 (9-2-58)	Yes		C	20.00	4.00	4.50					
			F	21.40	4.44	3.91					
Johnson's 20% Laying Mash Medicated D 4733 (9-2-58)	Yes		C	20.00	3.50	5.00					4
			F	20.60	4.70	5.80					

JOHNSON-HAUSER, INC., UNION, IOWA

J-H 35% Hog Supplement D 1124 (4-2-58)	Yes		C	35.00	3.00	7.50					
			F	36.55	4.94	5.55					



J-H 40% Pig & Shoat Concentrate D 1125 (4-2-58)	Yes	C F	40.00 41.40	3.00 4.15	6.50 6.55	5.00 4.00	1.00 1.60	0.0002 0.00076	3.00 1.47	
J-H 32% Dairy Supplement D 1127 (4-2-58)	Yes	C F	32.00 32.00	2.50 3.44	8.00 7.09	3.00 3.60	0.50 1.22	0.0006 0.00145	2.50 1.25	5
J-H 32% Cattle Fattener D 1128 (4-2-58)	Yes	C F	32.00 33.50	2.50 3.40	7.50 7.50	3.40 3.55	0.80 1.50	0.0006 0.0007	1.80 1.30	
J-H Hog Wormer D 1129 (4-2-58)	Yes	C F	8.50 9.65	3.50 3.66	8.50 2.80					
J-H Chick Starter D 1130 (4-2-58)	Yes	C F	20.00 19.50	2.50 4.11	7.50 3.40					2
J-H Pig Starter D 1126 (4-2-58)	Yes	C F	18.00 20.35	3.00 3.67	5.00 4.13					
J-H Chick Grower D 1131 (4-2-58)	Yes	C F	16.00 18.85	3.00 4.02	7.50 4.95					
J-H Pre-Pig Starter D 1132 (4-2-58)	Yes	C F	18.00 19.65	3.00 3.80	5.00 3.31					
J-H 34% Poultry Concentrate D 1133 (4-2-58)	Yes	C F	34.00 37.65	3.00 5.86	6.00 6.35	5.60 5.40	1.50 1.82	0.0006 0.00073	2.10 2.10	
J-H Pig & Sow Supplement D 1134 (4-2-58)	Yes	C F	26.00 29.10	2.50 3.56	8.00 8.77	4.80 5.86	1.20 1.93	0.0004 0.00126	3.00 2.30	4, 5
J-H 26% Poultry Concentrate D 1135 (4-2-58)	Yes	C F	26.00 29.90	3.00 4.47	8.50 9.00	3.00 2.60	1.00 1.19	0.0003 0.0005	1.50 1.19	4
Union Egg Mash D 1136 (4-2-58)	Yes	C F	17.00 18.20	3.50 4.16	8.00 8.00					

JOHNSON PRODUCE & FEED COMPANY, ODEBOLT, IOWA

Johnson 35% Sow & Pig Concentrate D 1916 (2-20-58)	Yes	C F	35.00 35.60	2.50 4.24	9.00 7.91					
Johnson 37% Egg Concentrate D 1917 (2-20-58)	Yes	C F	37.00 37.00	3.50 4.12	7.50 6.43					
Johnson 20% Chick Starter D 1919 (2-20-58)	Yes	C F	20.00 21.75	3.50 4.09	5.00 4.68					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
JOHNSON PRODUCE AND FEED COMPANY, ODEBOLT, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Johnson 40% Hog Concentrate Pasture..... D 1918 (2-20-58)	Yes		C F	40.00 39.40	3.00 4.16	6.50 5.64	..... .....	..... .....	..... .....	..... .....	2

JOICE CO-OP ELEVATOR, JOICE, IOWA

Felco 26% No Grain Layer-Breeder..... E 1896 (12-20-57) D 839 (8-27-58)	Yes		C F F	26.00 29.45 27.95	2.00 3.43 3.59	9.00 8.10 8.46	5.00 3.70 3.90	1.00 1.59 1.59	0.0005 0.00136 0.0013	3.00 2.14 2.38	
Felco Dairy Supplement..... E 7897 (12-20-57) D 840 (8-27-58)	Yes		C F F	35.00 38.95 37.75	0.50 1.11 1.80	8.00 6.76 6.80	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	
Felco Pig Starter..... E 7898 (12-20-57) D 841 (8-27-58)	Yes		C F F	18.00 20.75 19.90	3.00 4.90 4.27	5.00 3.58 4.25	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	

KABERLE FARM SUPPLY, STRAWBERRY POINT, IOWA

Strawberry Brand Feeds 45% Hog Supplement..... D 3951 (6-4-58)	Yes		C F	45.00 47.45	4.50 4.70	6.00 3.54	..... .....	..... .....	..... .....	..... .....	
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KALBS HATCHERY & FEED, PEOSTA, IOWA

Kalbs 28% Laying Concentrate..... E 9752 (12-10-57)	Yes		C F	28.00 30.15	3.00 3.02	7.50 7.30	..... .....	..... .....	..... .....	..... .....	
Kalbs 35% Pig Starter Concentrate..... E 9753 (12-10-57)	Yes		C F	35.00 37.65	3.00 3.05	6.50 7.21	..... .....	..... .....	..... .....	..... .....	4

Kalbs Premium Quality 40% Hog Concentrate E 9754 (12-10-57)	Yes	C F	40.00 40.30	2.50 2.32	6.00 6.63					4
Kalb's Premium Quality 40% Hog Concentrate Medicated D 4847 (11-19-58)	Yes	C F	40.00 41.40	2.50 2.55	6.50 5.46	4.30 3.60	1.10 1.30	0.001 0.0015	2.20 1.90	
Kalbs 32% Dairy Balancer E 9748 (12-10-57) D 5402 (11-19-58)	Yes	C F F	32.00 34.20 33.95	1.50 1.85 1.70	7.00 6.77 7.99	3.00 1.90	1.00 1.14	0.001 0.0009	2.20 1.34	4
Kalbs 33% Sow & Pig Supplement E 9749 (12-10-57) D 4846 (11-19-58)	Yes	C F F	33.00 37.20 34.80	3.00 3.46 4.08	7.50 7.00 7.86	4.45 4.60	1.25 1.63	0.00068 0.0010	1.90 1.95	
Kalbs 17% Pig Starter E 9750 (12-10-57) D 5403 (11-19-58)	Yes	C F F	17.00 19.75 19.70	4.00 4.04 5.10	3.50 3.50 3.20					
Kalbs 36% Poultry Concentrate E 9751 (12-10-57) D 4850 (11-19-58)	Yes	C F F	36.00 37.50 36.15	3.50 4.40 4.68	7.50 7.00 6.92	5.85 5.40	1.80 2.03	0.00068 0.0013	2.80 2.62	
Kalbs Premium Quality 35% Pig Starter Concentrate Medicated D 4848 (11-19-58)	Yes	C F	35.00 36.00	3.00 3.18	7.00 6.75	4.80 4.40	1.30 1.67	0.001 0.0013	2.20 1.70	
Kalbs Premium Quality Special Baby Beef Supplement Medicated D 4849 (11-19-58)	Yes	C F	32.00 32.95	1.00 3.29	9.50 8.35					
Kalbs Premium Quality 28% Laying Concentrate Medicated D 5401 (11-19-58)	Yes	C F	28.00 28.45	3.00 3.94	7.50 7.40	3.90 3.40	1.25 1.36	0.00054 0.0010	2.90 1.30	

KANAWHA MILLING CO., KANAWHA, IOWA

Power-Pak 40% Hog Concentrate with Vis-Vita D 6512 (12-1-58)	Yes	C F	40.00 41.15	3.50 4.34	9.50 6.08	5.30 5.50	2.00 2.18	0.000049 0.0008	2.70 3.09	6
Power-Pak 32% Mixing Poultry Concentrate with Vis-Vita D 6513 (12-1-58)	Yes	C F	32.00 32.20	3.00 5.00	9.50 8.28					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

KARK MILLING CO., KENSETT, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Appetizer Brand 37% Cattle Feed Balancer..... E 7829 (12-5-57) D 786 (8-20-58)	Yes		C F F	37.00 39.20 39.00	3.25 4.08 3.68	7.00 6.45 7.10	2.50 2.30	1.00 1.28	0.0010 0.0008	2.00 2.10	8
Appetizer Brand 0.0022% D.E.S. Mix Inc In 37% Cattle Feed Balancer..... E 7830 (12-5-57)	Yes		C F	37.00 37.50	3.25 4.09	7.00 7.65					4
Appetizer Brand 41% Cattle Fattener Medicated ..... E 7831 (12-5-57)	Yes		C F	41.00 43.35	3.50 3.92	7.00 7.97					4
Appetizer Brand 30% Poultry Supplement..... E 7825 (12-5-57) D 785 (8-20-58)	Yes		C F F	30.00 33.85 31.60	4.00 5.91 6.14	7.50 7.80 7.75	3.75 3.00	2.00 2.03	0.0003 0.00044	1.50 2.16	6
Appetizer Brand 40% Pig & Hog Balancer..... E 7826 (12-5-57)	Yes		C F	40.00 44.50	4.00 5.90	7.00 6.15					
Appetizer Brand 35% Brood Sow Concentrate..... E 7827 (12-5-57) D 788 (8-20-58)	Yes		C F F	35.00 36.25 37.15	3.75 5.69 4.95	8.50 9.35 9.63					4 4
Appetizer Brand 32% Dairy Concentrate..... E 7828 (12-5-57)	Yes		C F	32.00 35.15	3.00 3.45	7.25 7.75					4
Appetizer 18% Pig Starter Medicated..... E 7821 (12-5-57)	Yes		C F	18.00 20.95	4.25 5.38	4.25 3.85					
Appetizer Brand 32% Pig Grower Supplement Hi-Vi Medicated ..... E 7822 (12-5-57)	Yes		C F	32.00 36.15	4.00 5.67	6.25 5.50					

Appetizer Brand 40% Pig & Sow Balancer	Yes	C	40.00	4.00	7.00				
Hi-Vi		F	41.05	6.47	6.63				
E 7823 (12-5-57)		F	41.60	6.08	7.30				
D 787 (8-20-58)									
Appetizer Brand 40% Hog Fattener	Yes	C	40.00	4.75	7.00				
E 7824 (12-5-57)		F	41.75	7.14	6.12				

KARK RENDERING COMPANY, OSAGE, IOWA

Kark's Appetizer Meat & Bone Meal	Yes	C	55.00	9.00	2.00				
D 1289 (3-20-58)		F	55.15	14.64	1.23				
D 1374 (9-30-58)		F	58.35	12.61	1.58				

KAUFMAN FEED & GRAIN, STANLEY, IOWA

Kaufman Vita-Mam Cattle Concentrate	Yes	C	40.00	2.50	7.00	3.90	1.20	0.0003	2.60	4
Medicated		F	41.35	3.28	8.02	3.70	1.50	0.00056	1.37	
D 1114 (4-1-58)										
Kaufman Vita-Mam Hog Concentrate	Yes	C	42.00	2.50	6.50	5.70	1.50	0.0004	3.50	5
Medicated		F	42.00	4.03	5.37	6.35	2.23	0.0012	2.62	
D 1115 (4-1-58)										
Kaufman 37% Cafeteria Chicken Supplement	Yes	C	37.00	3.00	7.00	5.00	1.00	0.0005	2.00	5
Medicated		F	37.65	6.70	6.65	5.40	2.01	0.0009	1.65	
D 1116 (4-1-58)										
Kaufman's Pig & Shoat Concentrate Medicated	Yes	C	40.00	3.00	6.50					4
D 1123 (4-1-58)		F	39.80	3.10	7.37					
Kaufman Vita-Mam Dairy Concentrate	Yes	C	38.00	2.50	7.50	3.90	1.20	0.0006	2.60	2, 4
Medicated		F	37.30	3.21	8.58	3.10	1.15	0.0009	1.06	
D 1111 (4-1-58)										
Kaufman Vita-Mam Pig Concentrate	Yes	C	41.00	2.50	5.50	4.00	1.20	0.0004	2.80	4, 5
Medicated		F	41.75	5.05	6.85	5.30	2.23	0.0007	1.90	
D 1112 (4-1-58)		F	42.25	5.31	5.73					
D 1122 (4-1-58)										
Kaufman 32% Dairy Supplement	Yes	C	32.00	3.00	9.00					
D 1117 (4-1-58)		F	32.20	2.80	8.51					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
KAUFMAN FEED & GRAIN, STANLEY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Kaufman 35% Hog Supplement D 1113 (4-1-58)	Yes		C	35.00	3.00	7.50	8.00	1.50	0.0006	3.50	5
			F	35.00	4.87	6.33	8.75	2.92	0.00145	3.00	
Kaufman Chick Starter Medicated D 1118 (4-1-58)	Yes		C	18.00	3.00	5.00					
			F	19.25	4.60	3.76					
Kaufman Sow Supplement D 1119 (4-1-58)	Yes		C	30.00	3.00	8.50					
			F	32.15	4.21	6.70					
Kaufman's Pig & Shoat Concentrate D 1121 (4-1-58)	Yes		C	40.00	3.00	6.50	4.50	1.00	0.0002	2.00	4
			F	40.20	5.01	6.95	4.00	1.65	0.00142	1.57	
Kaufman 18% Pig Starter Medicated D 1120 (4-1-58)	No		C	18.00	3.00	5.00					
			F	20.80	4.15	4.68					
KAY DEE FEED COMPANY, SIOUX CITY, IOWA											
K D New Formula Miner-A-Magic D 517 (2-26-58)	Yes		C				27.00	4.00	0.011	21.50	8
			F				25.60	4.00	0.0084	18.00	
KELLOGG COMPANY, OCALA & HERNANGO, FLORIDA											
Kell-Phos Soft Phosphate with Colloidal Clay D 1423 (12-5-57) D 3646 (4-24-58)	Yes		C				21.00	9.00			5
			F				21.40	10.40			
			F				17.40	9.56			
KELSAY FEED COMPANY, RED OAK, IOWA											
Kelsay's 32% Dry Lot Supplement D 2462 (6-5-58)	Yes		C	32.00	1.00	7.00					
			F	32.35	2.70	6.65					

KENNETT OIL MILL, INC., KENNETT, MISSOURI

Kennett Brand Prine 14% Protein Cottonseed Meal E 4854 (11-29-57)	Yes	C F	41.00 41.15	3.00 4.34	13.00 11.86					
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KENT FEEDS, INC., MUSCATINE, IOWA

Golden-K Pig Supplement Medicated D 455 (12-4-57) E 7248 (6-6-58) D 5257 (10-6-58) D 7163 (11-28-58)	Yes	C F F F F	35.00 36.30 35.15 36.65 35.00	2.30 3.42 3.41 4.11 3.77	8.00 6.41 7.26 7.14 7.00	3.30 2.80	1.45 1.49	0.01 0.0018	2.50 3.14	8, 6
Kent 26% Grow-Con Medicated D 456 (12-4-57) E 7252 (6-6-58)	Yes	C F F	26.00 29.25 29.30	2.60 3.90 4.22	7.50 7.27 4.30					
Kent Heavy Lass -22- D 457 (12-4-57)	Yes	C F	22.00 21.90	3.50 3.84	8.30 7.74					
Kent 40% Dairy Supplement D 458 (12-4-57) D 7167 (11-28-58)	Yes	C F F	40.00 40.15 40.40	1.00 1.19 1.97	7.00 6.30 6.57					
Kent Golden Layer-80- Medicated D 451 (12-4-57)	Yes	C F	18.00 21.00	3.00 4.47	6.00 5.19					
Kent-A-D- Supplement D 452 (12-4-57)	Yes	C F	32.00 35.50	1.00 1.73	8.00 6.43					
Kent Pig-Go- Medicated D 453 (12-4-57)	Yes	C F	15.00 18.85	3.40 4.39	4.00 4.00					
Kent Hi-Cal Golden Starter Medicated D 454 (12-4-57) E 7250 (6-6-58)	Yes	C F F	22.00 23.85 22.65	3.70 3.44 3.95	4.50 3.84 4.12					
Kent Super Calgo Medicated D 2015 (8-15-58)	Yes	C F	25.00 27.70	2.50 3.65	7.30 6.34					
Kent 0.0022% D.E.S. Mix Inc In Steer Pro. D 5256 (10-6-58)	Yes	C F	32.00 33.80	3.00 3.44	9.00 7.80					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 KENT FEEDS, INC., MUSCATINE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Kent 40% Hog Supplement Medicated D 5258 (10-6-58)	Yes		C	40.00	2.50	8.00					
			F	40.60	3.08	5.96					
Kent Pig-Go Medicated D 7165 (11-28-58)	Yes		C	16.00	3.40	4.00					
			F	18.40	3.80	3.56					
Kent Golden K Pig & Sow 35 Medicated D 7164 (11-28-58)	Yes		C	35.00	2.50	8.50					
			F	35.85	3.92	6.80					1a
Kent 40% Hog Supplement Medicated D 7166 (11-28-58)	Yes		C	40.00	2.50	8.00	4.60	1.80	0.00014	2.30	
			F	41.50	3.28	6.09	4.00	1.51	0.002	2.51	
Kent Steer-Pro D 459 (12-4-57)	Yes		C	32.00	3.00	9.00					
D 7168 (11-28-58)			F	37.70	3.95	7.23					
			F	34.20	3.50	7.11					
Kent Callgo D 460 (12-4-57)	No	Yes	C	25.00	2.50	7.30					
			F	27.25	3.20	6.55					
Kent 32% Dairy Supplement D 461 (12-4-57)	Yes		C	32.00	1.00	8.00					
			F	34.35	1.90	5.78					
Kent Pig Nuggets Medicated D 462 (12-4-57)	Yes		C	18.00	3.00	3.30					
E 7253 (6-6-58)			F	20.10	3.39	3.20					
D 4347 (7-3-58)			F	19.95	3.33	2.83					
D 5536 (9-23-58)			F	19.60	3.54	2.79					
			F	18.95	3.64	3.20					
Kent Hi-Cal Golden Grower Medicated E 7251 (6-6-58)	Yes		C	18.00	4.00	5.00					
			F	20.20	3.91	4.85					
Kent Golden Egg 20-80 Medicated E 7249 (6-6-58)	Yes		C	20.00	3.30	6.00					
D 6020 (11-4-58)			F	21.95	3.93	6.04					
			F	22.15	3.69	5.89					



Kent Medicated "Super 400" Pre-Mix D 4348 (7-3-58)	Yes	C	35.00	2.50	5.50				
		F	38.15	4.63	4.98				
Kent Arsanilic Acid Mix Inc In Golden Egg 26-80 D 4349 (7-3-58)	Yes	C	26.00	3.00	7.50				
		F	28.65	4.12	7.53				
Kent Pig-Go Medicated D 5534 (9-23-58)	Yes	C	16.00	3.40	4.00				
		F	17.95	3.85	3.62				
Kent 0.0011% D.E.S. Mix Inc In 34% Baby Beef D 5537 (9-23-58)	Yes	C	34.00	1.50	8.90				
		F	34.70	2.03	8.38				

KEOSAUQUA FEED & GRAIN CO., KEOSAUQUA, IOWA

Check-R-Mix 16% Dairy Feed Q E 7050 (4-28-58)	Yes	C	16.00	2.50	11.00				
		F	17.75	3.12	9.05				
Check-R-Mix Laying Feed (All Mash) SN E 7051 (4-28-58)	Yes	C	16.00	3.00	6.00				
		F	17.75	4.35	5.65				

KERBER MILLING CO., EMMETSBURG, IOWA

Kerber's 0.0011% D.E.S. Inc In Pro-Mo Cattle Cubes 30-30 D 1323 (12-27-57)	Yes	C	30.00	1.00	9.00	2.50	0.60	0.002	1.50	8, 6
		F	32.70	1.35	8.83	2.50	0.92	0.00112	1.84	
Hy-Test Layer-Breeder Concentrate Medicated D 1324 (12-27-57)	Yes	C	32.00	4.50	6.00	9.00	2.00	0.0007	3.00	3, 4
		F	32.70	3.84	6.54	4.60	1.59	0.005	2.21	
Hy-Test Pasture Hog Feed Medicated D 1325 (12-27-57)	Yes	C	40.00	1.70	5.00	5.00	1.50	0.002	2.00	
		F	44.15	3.66	3.41	4.90	1.87	0.0024	2.18	
Hy-Test Pig & Sow Concentrate Medicated D 1326 (12-27-57)	Yes	C	36.00	3.20	7.90	5.00	1.50	0.002	2.00	8, 6
		F	38.65	3.65	6.95	3.70	1.82	0.0012	2.38	
Hy-Test Dry Lot Hog Feed Medicated D 1327 (12-27-57)	Yes	C	35.00	1.70	8.50	5.50	1.50	0.002	2.00	
		F	38.00	3.45	7.49	4.50	1.59	0.002	2.08	
Hy-Test Special Cattle Supplement D 1328 (12-27-57)	Yes	C	42.00	1.50	7.00	3.50	1.20	0.002	1.50	
		F	46.10	2.28	5.97	3.20	1.18	0.0023	1.67	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
KERBER MILLING CO., EMMETSBURG, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Hy-Test 26% Grain Balancer for Layers & Breeders Medicated D 1329 (12-27-57)	Yes		C	26.00	4.00	7.00	8.00	1.50	0.0015	2.00	
			F	29.65	3.93	5.39	4.10	1.45	0.00194	1.01	
Hy-Test Pig Booster Medicated D 1330 (12-27-57)	Yes		C	16.00	3.50	2.60					4
			F	17.95	3.99	3.24					

KIDMAN'S STANDARD STOCK POWDER CO., DES MOINES, IOWA

Kidman's Pig Starter Concentrate Medicated D 3663 (3-18-58) D 3657 (3-18-58) D 8857 (12-5-58) D 8863 (12-5-58)	Yes		C	26.50	1.00	3.75	3.50	1.00	0.001	1.75	4
			F	28.75	1.76	3.39	2.20	1.02	0.002	1.57	
			F	29.55	1.70	2.79	2.00	1.15	0.00075	1.70	
			F	32.55	1.31	3.98					
			F	33.20	1.60	5.10					
Kidman's 0.0022% Diethylstilbestrol Mix and Rumen Organism Mix Inc In Cattle Concentrate D 3664 (3-18-58) D 8865 (12-5-58)	Yes		C	40.00	1.00	8.50	3.60	1.00	0.001	2.50	
			F	43.10	2.36	8.03	2.60	1.35	0.0026	2.50	
			F	40.65	1.48	7.40					
Kidman's Vitamin and Antibiotic Supplement No. 2 D 3665 (3-18-58)	Yes		C	10.50	2.00	15.00					
			F	22.60	3.38	8.11					
Kidman's Cattle Concentrate Medicated D 3666 (3-18-58) D 8855 (12-5-58)	Yes		C	40.00	1.00	8.50	3.60	1.00	0.001	2.50	2a, 6, 63
			F	43.45	2.27	8.10	2.40	1.31	0.0024	2.06	
			F	34.55	1.24	8.28	3.00	1.64	0.003	2.96	
Kidman's Standard Stock Powder Mineral Supplement D 3659 (3-18-58)	Yes		C				9.50	1.75	0.0015		
			F				7.50	2.62	0.0043		

Kidman's Pig Grower Concentrate D 3660 (3-18-58) D 8858 (12-5-58)	Yes	C	35.00	1.50	5.25	4.50	1.25	0.001	5.00	
		F	38.10	2.16	3.87	3.40	1.24	0.00118	3.12	
		F	41.20	1.75	4.67					
Kidman's Calf Starter D 3661 (3-18-58) D 8856 (12-5-58)	Yes	C	20.00	3.70	5.50					3
		F	24.35	4.05	3.75					
		F	22.60	3.16	4.58					
Kidman's Calf Grower D 3662 (3-18-58) D 8862 (12-5-58)	Yes	C	28.00	3.50	7.50					3
		F	33.15	3.10	7.03					
		F	35.45	1.56	7.94					
Kidman's Standard Stock Powder Mineral Supplement For Cattle D 8864 (12-5-58)	Yes	C				11.00	2.50	0.0015	3.00	
		F				10.60	3.42	0.003	0.18	
Kidman's V-Y-M No. 50 D 3658 (3-18-58) D 8859 (12-5-58)	Yes	C	6.00	1.00	3.00	4.70	1.00	0.00125	6.00	4
		F				3.30	1.59	0.00177	4.28	
		F	10.95	3.66	4.10	3.70	1.47	0.0026	4.09	
Kidman's Ad-E-Lite D 3667 (3-18-58)	Yes	C	16.00	2.00	10.00					
		F	23.85	3.65	7.33					
Kidman's Hog & Poultry Concentrate D 8860 (12-5-58)	Yes	C	43.00	2.00	6.50	7.10	1.50	0.001	5.00	
		F	50.55	1.99	4.44	5.00	1.34	0.0024	4.80	
Kidman's Standard Stock Powder Mineral Supplement D 8861 (12-5-58)	Yes	C				9.50	1.75	0.0015		
		F				8.00	2.58	0.006		

KING MIDAS FLOUR MILLS, MINNEAPOLIS, MINNESOTA

Rye Middlings & Ground Rye Screenings E 2669 (6-5-58)	Yes	C	15.00	3.50	8.00					
		F	18.20	4.15	6.34					

KINGAN, INC., STORM LAKE, IOWA

Kingan's Blood Meal E 8933 (11-13-57)	Yes	C	75.00	0.50	1.50					2a
		F	73.30	6.70	0.86					
Kingan's Meat & Bone Scraps D 909 (8-28-58)	Yes	C	50.00	5.00	3.00					
		F	50.10	11.05	2.33					

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## KINGAN, INC., STORM LAKE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Kingan's Meat & Bone Scraps..... E 2672 (6-5-58)	Yes		C F	60.00 61.45	5.00 9.30	3.00 1.41	.....	.....	.....	.....	

## KLEMME COOP GRAIN COMPANY, KLEMME, IOWA

Felco Pig Grower Medicated..... D 874 (6-6-58)	Yes		C F	16.00 18.60	2.00 4.01	6.00 4.38	.....	.....	.....	.....	
Felco Special Dry Lot Hog Supplement..... E 7808 (12-2-57)	Yes		C F	35.00 37.85	1.50 3.84	9.00 8.15	.....	.....	.....	.....	
Felco Sow Supplement..... E 7809 (12-2-57) D 6545 (12-10-58)	Yes		C F F	32.00 35.85 35.95	2.00 3.77 3.99	9.00 9.20 9.60	.....	.....	.....	.....	
Felco Pig Grower..... E 7810 (12-2-57) D 6546 (12-10-58)	Yes		C F F	16.00 19.20 19.40	2.00 3.64 3.79	6.00 4.60 4.40	.....	.....	.....	.....	
Felco Growing Mash..... E 8199 (12-2-57)	Yes		C F	20.00 24.90	2.00 3.42	7.00 5.55	.....	.....	.....	.....	
Felco Sweet Creep..... E 8200 (12-2-57)	Yes		C F	18.00 21.10	2.00 3.89	5.00 2.70	.....	.....	.....	.....	
Felco Pig Starter Medicated..... D 869 (6-6-58)	Yes		C F	18.00 21.50	3.00 4.80	5.00 3.57	.....	.....	.....	.....	
Felco Special Dry Lot Hog Supplement Medicated..... D 867 (6-27-58) D 6538 (12-10-58)	Yes		C F F	35.00 37.40 36.90	1.50 3.75 3.27	9.00 8.79 9.28	.....	.....	.....	.....	

Felco Pig Starter	Yes	C	18.00	3.00	5.00				
E 7804 (12-2-57)		F	22.80	4.64	3.27				
D 6547 (12-10-58)		F	22.65	4.27	3.83				
0.0011% D.E.S. Mix Inc. in Felco Beef Builder	Yes	C	35.00	0.50	9.00				
E 7805 (12-2-57)		F	41.85	0.96	5.57				
Felco Beef Supplement	Yes	C	35.00	0.50	9.00				
E 7806 (12-2-57)		F	38.10	1.24	7.00				
Felco Starting Mash Medicated	Yes	C	20.00	2.00	7.00				
E 7807 (12-2-57)		F	24.85	3.46	6.15				
D 870 (6-6-58)		F	23.55	4.47	6.15				
Felco Minerals	Yes	C				26.00	6.00	0.01	20.00
E 7812 (12-2-57)		F				25.00	6.00	0.012	19.44
D 6542 (12-10-58)		F				23.00	6.96	0.01	19.64
Klemme Reground Oat Mill By-Product	Yes	C	4.00	1.50	32.00				
E 7801 (12-2-57)		F	5.05	1.34	30.09				
Felco Dairy Supplement	Yes	C	35.00	0.50	8.00				
E 7802 (12-2-57)		F	40.75	1.20	5.20				
D 6548 (12-10-58)		F	39.10	1.34	5.48				
Klemme Rolled Oats	Yes	C	16.00	5.50	2.50				
E 7803 (12-2-57)		F	18.35	6.58	2.38				
D 2455 (6-5-58)		F	16.65	6.73	2.10				
D 4172 (7-21-58)		F	16.65	6.44	1.90				
D 6549 (12-10-58)		F	17.25	5.84	1.76				
Felco 26% No Grain Layer Breeder	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00
E 7816 (12-2-57)		F	32.65	3.08	6.71				
D 872 (6-6-58)		F	29.75	3.32	7.92				
D 6540 (12-10-58)		F	29.35	3.60	7.46	2.80	1.60	0.0010	2.26
Felco Special Dry Lot Hog Supplement	Yes	C	35.00	1.50	9.00				
D 6544 (12-10-58)		F	37.85	3.00	9.09				
Felco Special Hog Balancer	Yes	C	40.00	1.50	9.00				
E 7811 (12-2-57)		F	45.10	3.07	6.95				
D 6543 (12-10-58)		F	42.35	2.72	7.12				
Felco 20% Layer-Breeder	Yes	C	20.00	2.00	8.00				
E 7813 (12-2-57)		F	26.90	3.32	6.02				
D 873 (6-6-58)		F	22.50	3.35	8.07				
D 6541 (12-10-58)		F	24.55	3.22	7.16				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
KLEMME COOP GRAIN COMPANY, KLEMME, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Growing Mash Medicated.....	Yes		C	20.00	2.00	7.00	.....	.....	.....	.....	
E 7814 (12-2-57)			F	23.50	3.39	5.92	.....	.....	.....	.....	
D 868 (6-6-58)			F	21.80	4.10	5.56	.....	.....	.....	.....	
Felco Mash Builder.....	Yes		C	38.00	3.00	8.00	.....	.....	.....	.....	
E 7815 (12-2-57)			F	39.00	4.80	4.55	.....	.....	.....	.....	
D 871 (6-6-58)			F	41.50	4.53	5.40	.....	.....	.....	.....	
D 6539 (12-10-58)			F	40.80	4.92	5.96	.....	.....	.....	.....	

KLINEFELTER, GLADBROOK, IOWA

Klinefelter Brave Pork Puncher 35%.....	Yes		C	35.00	3.00	6.00	.....	.....	.....	.....	2a
E 3341 (4-7-58)			F	32.85	4.42	5.56	.....	.....	.....	.....	
Klinefelter 16% Pig Grower.....	Yes		C	16.00	3.50	3.50	.....	.....	.....	.....	
E 3342 (4-7-58)			F	17.95	4.60	3.65	.....	.....	.....	.....	
Klinefelter Sweet Piggie Papoose 18%.....	Yes		C	18.00	3.00	3.00	.....	.....	.....	.....	
E 3343 (4-7-58)			F	18.45	4.15	2.98	.....	.....	.....	.....	
Klinefelter Wee Wee Sweet Piggie Papoose 24%.....	Yes		C	24.00	7.00	1.00	.....	.....	.....	.....	3
E 3344 (4-7-58)			F	24.00	5.47	1.80	.....	.....	.....	.....	
Klinefelter 30% Sow Supplement.....	Yes		C	30.00	3.50	10.00	.....	.....	.....	.....	
E 3345 (4-7-58)			F	31.25	5.68	8.77	.....	.....	.....	.....	
Klinefelter Squaw And Pig Supper 32%.....	Yes		C	32.00	3.00	8.00	.....	.....	.....	.....	
E 3346 (4-7-58)			F	35.25	5.16	7.75	.....	.....	.....	.....	
Klinefelter 22% Cattle Feed Medicated.....	Yes		C	22.00	1.50	8.50	.....	.....	.....	.....	2
E 3347 (4-7-58)			F	21.45	2.25	6.28	.....	.....	.....	.....	

Klinefelter 32% Cattle Feed E 3348	(4-7-58)	Yes	C	32.00	2.00	7.00				
			F	33.40	4.11	6.88				
Klinefelter Cattle Crunch 35% E 3349	(4-7-58)	Yes	C	35.00	2.00	7.00				
			F	41.75	4.17	6.17				

KRUSE GRAIN COMPANY, CLEVES, IOWA

Sure Mix 20% Chick Starter D 1152	(4-22-58)	Yes	C	20.00	4.00	4.75				
			F	20.90	4.55	3.55				
Sure Mix 16% Pig Starter Medicated D 1153	(4-22-58)	Yes	C	16.00	3.50	4.00				
			F	16.90	4.40	3.45				
Sure Mix 40% Hog Concentrate D 1154	(4-22-58)	Yes	C	40.00	4.00	6.50				2a, 4
			F	38.85	5.00	7.45				
Sure Mix 35% Sow & Pig Concentrate D 1155	(4-22-58)	Yes	C	35.00	2.50	9.00				2a
			F	33.65	4.45	9.40				

LAAB'S DAIRY COMPANY, WESTBORO, WISCONSIN

Dried Whey Powder D 5961	(11-10-58)	Yes	C	12.00	0.50					
			F	13.47	0.81					

LACONA CO-OP ELEVATOR, LACONA, IOWA

Coop Open Formula Sow Concentrate D 6660	(11-13-58)	Yes	C	35.00	3.00	9.00				
			F	36.30	4.27	8.55				
Coop Open Formula Hog Concentrate 35 Medicated D 6661	(11-13-58)	Yes	C	35.00	2.50	9.00	5.50	2.00	0.001	3.00
			F	34.95	3.41	8.75	4.80	1.47	0.0012	3.42
Gold Coin Hog Concentrate-40 D 6662	(11-13-58)	Yes	C	40.00	2.00	6.00	3.50	1.00	0.00005	2.50
			F	41.75	3.48	4.27	3.20	1.46	0.00085	2.70

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
LA CROSSE MILLING CO., COCHRANE, WISCONSIN

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Ground Mixed Screenings..... D 7103 (11-12-58)	No		C F	12.00 12.95	5.00 6.51	17.00 15.06	..... .....	..... .....	..... .....	..... .....	
LA GRANGE MILLS, RED WING, MINNESOTA											
La Grange Mills Wheat Standard Middlings with Ground Screenings..... D 997 (8-28-58)	Yes		C F	16.50 18.65	4.00 5.60	9.50 6.71	..... .....	..... .....	..... .....	..... .....	
LAMESA COTTON OIL CO., LAMESA, TEXAS											
41% Protein Solvent Process Cottonseed Meal Prime Quality..... D 4429 (7-11-58)	Yes		C F	41.00 43.10	0.50 0.95	13.00 10.87	..... .....	..... .....	..... .....	..... .....	
LAND-O-LAKES CREAMERIES, MINNEAPOLIS, MINNESOTA											
Land O Lakes Pigmilk Replacer..... D 2311 (8-27-58)	Yes		C F	24.00 23.10	10.00 10.60	0.25 0.18	..... .....	..... .....	..... .....	..... .....	2a
LANGFITT SEED FARMS & ELEVATORS, INC., OSCEOLA, IOWA											
L-20 Starter Layer..... D 5240 (8-13-58)	Yes		C F	20.00 23.70	3.00 3.67	6.50 5.05	1.00 1.90	0.20 0.97	0.0054 0.0015	0.10 0.89	5, 8, 6
ISC Pig Starter With Hygromix..... D 5241 (8-13-58)	Yes		C F	16.00 18.65	2.50 4.21	3.00 2.46	..... .....	..... .....	..... .....	..... .....	



L-40 Hog Supplement.....	Yes	C	40.00	2.50	5.50	3.50	1.50	0.0054	2.00	8
D 5242 (8-13-58)		F	42.15	3.22	5.77	3.60	1.47	0.00068	1.90	

LAPORTE CITY COOP ELEVATOR, LAPORTE CITY, IOWA

Felco Pig Starter Medicated.....	Yes	C	18.00	3.00	5.00					1a, 4
D 4668 (11-7-58)		F	20.75	4.96	3.39					
Coop 42% Hog Supplement.....	Yes	C	42.00	2.50	6.50					1a, 4
D 4669 (11-7-58)		F	42.00	5.27	7.00					
Felco 26% No Grain Layer-Breeder.....	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	1a, 4
D 4671 (11-7-58)		F	28.40	4.34	7.45	3.50	1.29	0.0011	2.11	
Felco Growing Mash Medicated.....	Yes	C	20.00	2.00	7.00					1a, 4
D 4672 (11-7-58)		F	21.20	3.96	5.66					
Felco 20% Layer-Breeder.....	Yes	C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00	1a, 4
D 4670 (11-7-58)		F	23.65	4.05	6.36	2.80	1.19	0.0012	2.18	
Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	1a, 4
D 4665 (11-7-58)		F	38.05	4.74	9.08	2.90	1.21	0.0010	1.78	
Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	1a, 4
D 4666 (11-7-58)		F	40.50	4.82	7.78	2.40	1.09	0.0014	1.75	
Felco Dairy Supplement.....	Yes	C	35.00	0.50	8.00					1a, 4
D 4667 (11-7-58)		F	37.30	3.57	6.61					
Felco Mash Builder.....	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50	1a, 4
D 4673 (11-7-58)		F	41.95	5.93	5.72	4.60	1.98		2.26	

LAWN HILL COOP, NEW PROVIDENCE, IOWA

Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00					2a
D 4539 (8-14-58)		F	34.90	4.28	9.36					
Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	2a
D 4540 (8-14-58)		F	38.50	4.42	8.08					
D 4567 (9-18-58)		F	41.10	4.84	7.47	3.30	3.38	0.0016	1.32	
Felco Pig Starter Medicated.....	Yes	C	18.00	3.00	5.00					2a
D 4541 (8-14-58)		F	19.90	5.18	5.03					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
LAWN HILL COOP, NEW PROVIDENCE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Pig Grower Medicated D 4542 (8-14-58)	Yes		C F	16.00 17.95	2.00 4.28	6.00 4.43					
Felco Beef Supplement D 4535 (8-14-58)	Yes		C F	35.00 36.90	0.50 3.19	9.00 6.38					
Felco 0.0011% D.E.S. Mix Inc In Beef Builder D 4536 (8-14-58)	Yes		C F	35.00 38.65	0.50 3.22	9.00 6.88					
Felco Pig Starter D 4537 (8-14-58)	Yes		C F	18.00 21.80	3.00 5.31	5.00 4.23					
Felco Pig Grower D 4538 (8-14-58)	Yes		C F	16.00 16.95	2.00 4.16	6.00 4.73					
Felco Mash Builder D 4547 (8-14-58)	Yes		C F	38.00 39.10	3.00 5.07	8.00 6.26	6.00 5.00	1.00 1.84		2.50 2.06	
Felco Sow Supplement D 4548 (8-14-58)	Yes		C F	32.00 32.75	2.00 4.79	9.00 9.92					4
Felco 20% Layer-Breeder D 4549 (8-14-58)	Yes		C F	20.00 23.65	2.00 3.94	8.00 6.11					
Felco Starting Mash Medicated D 4550 (8-14-58)	Yes		C F	20.00 21.10	2.00 4.50	7.00 6.77					
Felco Growing Mash Medicated D 4543 (8-14-58)	Yes		C F	20.00 22.50	2.00 4.14	7.00 6.18					
Felco Sweet Creep D 4544 (8-14-58)	Yes		C F	18.00 20.35	2.00 4.89	5.00 3.47					
Felco 26% No Grain Layer-Breeder D 4545 (8-14-58)	Yes		C F	26.00 29.75	2.00 4.75	9.00 7.92					

Felco 0.0022% D.E.S. Mix Inc In Steak Maker D 4546	Yes	C	41.00	0.50	9.00				
		F	44.50	3.56	6.62				
Felco Dairy Supplement D 4551	Yes	C	35.00	0.50	8.00				
		F	36.75	3.55	6.06				
Felco Minerals D 4552	Yes	C				26.00	6.00	0.01	20.00
		F				25.80	6.45	0.0118	18.89

LEACH FEED STORE, GRISWOLD, IOWA

Mash Maker E 9346	No	C	38.00	3.00	7.00				
		F	38.20	4.54	6.20				

C. L. LEE & SONS, IDA GROVE, IOWA

Lee's 26% Free Choice Concentrate Medicated E 2674	Yes	C	26.00	3.20	9.00	5.00	1.30	0.0007	2.50	
		F	29.00	3.79	9.20	2.80	1.52	0.0087	2.06	
Lee's 40% Hog Balancer E 2675	Yes	C	40.00	2.70	6.50	6.00	1.70	0.0013	2.00	6
		F	39.75	3.24	6.70	4.60	1.62	0.0014	2.69	
Lee's 34% Concentrate E 2676	Yes	C	34.00	4.00	8.00					4
		F	38.10	4.71	9.00					
Lee's Chick Starter Medicated E 2677	Yes	C	20.00	3.00	5.50					
		F	22.00	3.58	5.18					
Lee's Special Pig Starter Medicated E 2678	Yes	C	19.00	3.00	4.00					
		F	20.25	3.41	3.05					
Lee's Super Pig Starter Medicated E 2679	Yes	C	18.00	3.00	4.00					
		F	21.85	3.84	2.87					
Lee's Pig Grower Medicated E 2680	Yes	C	18.00	3.00	4.00					
		F	18.55	3.28	3.06					
Lee's 18% Chick Grower Medicated E 2683	Yes	C	18.00	3.00	5.50					
		F	19.90	3.56	5.62					
Lee's 32% Cattle Grain Balancer E 2684	Yes	C	32.00	2.60	9.50					3, 4
		F	32.90	1.81	10.10					

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## C. L. LEE &amp; SONS, IDA GROVE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Lee's 24% Sow Supplement..... E 2685 (6-25-58)	Yes		C	24.00	2.50	9.00					4
			F	24.95	3.22	9.86					
Lee's 32% Swine Balancer..... E 2686 (6-25-58)	Yes		C	32.00	2.50	7.50					2a
			F	30.50	2.57	6.52					

## LEICHTMAN'S, NEW HAMPTON, IOWA

Leichtman's Pig Starter..... E 7880 (12-19-57) D 852 (6-4-58)	Yes		C	17.00	4.00	8.00					
			F	17.55	4.30	6.10					
			F	17.30	4.17	6.00					
Leichtman's 20% Egg Mash..... E 7882 (12-19-57) D 853 (6-4-58)	Yes		C	20.00	4.00	7.00					
			F	24.50	4.91	7.06					
			F	22.80	4.17	7.14					
Leichtman's All-Purpose Concentrate..... E 7883 (12-19-57) D 854 (6-4-58) D 778 (8-18-58) D 6506 (11-28-58)	Yes		C	32.00	3.50	7.00	5.50	1.50	0.003	1.00	4 4, 8 4
			F	36.30	4.00	6.75	5.40	2.31	0.003	0.84	
			F	34.50	4.04	8.81					
			F	37.15	4.47	7.66	3.60	1.80	0.0004	0.66	
			F	32.25	4.48	8.77					
Leichtman's 40% Hog Balancer..... E 7881 (12-19-57) D 851 (6-4-58) D 779 (8-18-58) D 6505 (11-28-58)	Yes		C	40.00	4.00	8.00	4.50	1.00	0.003	1.00	3, 8 3 4
			F	40.80	3.10	8.27	3.70	2.18	0.0022	0.61	
			F	41.05	3.49	7.32					
			F	41.50	4.37	8.37	3.10	1.46	0.0034	0.58	
			F	40.90	4.15	8.70	3.30	1.46	0.004	0.46	

## HARRY LEIGH FEED STORE, DYERSVILLE, IOWA

Big Harry's Feed 36% Poultry Mixer Con- centrate E 9755 (12-10-57)	Yes		C	36.00	4.00	6.00					
			F	41.70	3.95	5.95					

Big Harry's Feed 40% Hog Supplement E 9756 (12-10-57)	Yes		C	40.00	4.00	6.00				
			F	41.35	5.00	5.83				
Big Harry's 40% Hog Supplement D 1490 (5-6-58)	Yes		C	40.00	2.50	6.00				
			F	40.20	4.91	6.97				4

LELAND OIL WORKS, LELAND, MISSISSIPPI

Leland Oil Works 41% Protein Solvent Ex- tracted Cottonseed Meal D 539 (4-7-58) D 2549 (4-29-58)	No	Yes	C	41.00	2.00	14.00				
			F	41.35	2.70	13.25				
			F	44.00	2.03	12.91				

LE MARS RENDERING WORKS, LE MARS, IOWA

Plymouth Meat Meal E 2640 (5-9-58)	Yes		C	55.00	7.00	3.00				
			F	57.55	9.67	1.59				

LENTH FEED STORE, RICEVILLE, IOWA

Home Mixed Laying Mash E 7875 (12-18-57) D 784 (8-19-58)	Yes		C	17.00	3.00	8.50				
			F	17.95	4.17	6.82				
			F	17.15	4.50	7.71				

LIFE GUARD FEED PRODUCTS, DES MOINES, IOWA

Life Guard Minerals for Poultry D 5302 (7-21-58)	Yes		C				18.00	4.00	0.0003	5.00
			F				14.30	5.20	0.0009	3.50
Life Guard GBY for Hogs D 5303 (7-21-58)	Yes		C	30.00	3.00	5.00				
			F	30.00	3.66	4.90				
Life Guard Antibiotic Mix Inc In Grofactor D 5304 (7-21-58)	Yes		C	27.00	1.00	5.50				
			F	32.75	2.76	5.11				
Life Guard 18% Complete Pig Starter with Wormer Medicated D 5305 (7-21-58)	Yes		C	18.00	3.00	4.00				
			F	19.00	3.56	4.32				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
LIFE GUARD FEED PRODUCTS, DES MOINES, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Life Guard Blue Seal D 5307 (7-21-58)	Yes		C	21.00	3.00	4.60					3
			F	22.50	2.18	3.27					
Life Guard Savatun for Hogs D 5308 (7-21-58)	Yes		C	25.00	3.00	5.00					4
			F	27.85	3.75	5.69					
Life Guard Minerals for Ruminants D 5310 (7-21-58)	Yes		C				22.00	5.00	0.0007	5.00	
			F				19.80	5.70	0.0005	5.00	
Life Guard Special Culturlac Mineral D 5311 (7-21-58)	Yes		C	3.00	0.05	1.50	20.00	2.50	0.0008	5.00	4
			F	3.85	0.80	2.62	19.20	3.10	0.004	4.70	
Life Guard Sak-O-Sweet with Mineral D 5312 (7-21-58)	Yes		C	8.00	2.50	10.00	9.50	1.50	0.0007	1.00	3, 6
			F	10.25	1.72	10.15	7.80	1.80	0.001	1.50	
Life Guard Special Minerals for Hogs D 5301 (7-21-58)	Yes		C	1.50			13.00	5.00	0.0007	5.00	
			F	1.35			7.80	5.20	0.0027	2.60	
Life Guard Regular Minerals D 5309 (7-21-58)	Yes		C	1.50			19.00	5.00	0.0007	5.00	
			F	1.90			13.60	5.60	0.002	4.90	
Grofaktor Supplement for Hogs 35% D 5306 (7-21-58)	Yes		C	35.00	4.00	6.00	10.50	1.50	0.0007	5.00	3
			F	35.85	3.62	4.26	3.50	2.10	0.0013	1.00	

ELI LILLY & COMPANY, INDIANAPOLIS, INDIANA

C-210 Vitamin B12 Supplement D 1433 (12-5-57)	Yes		C	22.00	2.00	10.00					
			F	27.45	3.89	9.63					

LINK FEED COMPANY, EPWORTH, IOWA

Link's Best 40% Hog Balancer..... D 4839 (11-19-58)	Yes	C	40.00	2.00	7.50					
		F	43.05	3.69	6.17					
Link's Best 16% Pig Meal..... D 4840 (11-19-58)	Yes	C	16.00	3.50	6.50					
		F	18.35	5.06	6.00					

LINN'S FEED SERVICE, COON RAPIDS, IOWA

Linn's Check-R-Mix Growing Feed All Mash SB Medicated..... D 2434 (6-6-58)	Yes	C	17.00	3.00	8.50					
		F	18.25	4.88	4.30					
Linn's Check-R-Mix Laying Feed SE..... D 2435 (6-6-58)	Yes	C	16.00	3.00	7.00					
		F	16.70	4.65	3.71					

LISBON ELEVATOR, INC., LISBON, IOWA

Leco 35% Pig & Shoat Concentrate Medicated..... D 3976 (6-25-58)	Yes	C	35.00	3.75	5.50					4
		F	36.20	4.95	6.00					
Leco Pig & Sow Meal..... D 3977 (6-25-58)	Yes	C	28.00	4.00	6.50					
		F	28.40	4.72	6.25					
Leco 40% Hog Balancer..... D 3972 (6-25-58)	Yes	C	40.00	4.00	6.50					4
		F	41.95	5.09	6.84					
Leco 32% Beef Supplement..... D 3973 (6-25-58)	Yes	C	32.00	2.00	8.00					
		F	35.20	3.21	6.98					
Leco Mash Maker Concentrate..... D 3974 (6-25-58)	Yes	C	30.00	4.00	7.00					
		F	32.25	4.97	6.63					
Leco 26% Free Choice Concentrate..... D 3975 (6-25-58)	Yes	C	26.00	2.50	10.00					
		F	27.40	4.64	7.56					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
LITTLE CEDAR COOP ELEVATOR, LITTLE CEDAR, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Dairy Supplement.....	Yes		C	35.00	0.50	8.00					
D 1300 (3-20-58)			F	37.85	1.05	7.55					
D 1387 (9-30-58)			F	37.85	1.75	6.92					
Felco Special Hog Balancer.....	Yes		C	40.00	1.50	9.00					
D 1386 (9-30-58)			F	41.15	3.07	6.89					
Felco 26% No Grain Layer-Breeder.....	Yes		C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
D 801 (3-20-58)			F	31.45	3.00	8.12					
D 1383 (9-30-58)			F	30.50	2.95	7.92	3.70	1.45	0.00068	2.06	
Felco Special Dry Lot Hog Supplement.....	Yes		C	35.00	1.50	9.00					
D 1297 (3-20-58)			F	36.40	3.78	9.10					
D 1385 (9-30-58)			F	37.80	3.85	8.21					
Felco Sow Supplement.....	Yes		C	32.00	2.00	9.00					4
D 1298 (3-20-58)			F	33.40	4.04	9.55					
Felco Mash Builder.....	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	
D 1299 (3-20-58)			F	39.40	4.94	6.95					
D 1384 (9-30-58)			F	39.00	4.03	6.60	5.40	2.47		2.08	

LUBBOCK COTTON OIL COMPANY, LUBBOCK, TEXAS

Lucko Brand 41% Protein Pre-Pressed Solvent Process Cottonseed Meal.....	Yes		C	41.00	2.00	14.00					3
D 640 (4-3-58)			F	41.40	0.95	11.57					
D 4138 (9-30-58)			F	41.15	2.61	12.05					
D 2562 (11-10-58)			F	40.00	2.26	11.66					



LUCAS PRODUCTS CO., BEDFORD, IOWA

Lucas Feed Factors Beef/Pak D 3637 (4-24-58)	Yes	C	30.00	2.50	7.50				
		F	35.10	3.75	1.85				
Lucas Feed Factors Antibiotic Mix Inc In Pig/Jig D 3638 (4-24-58)	Yes	C	36.00	3.50	7.50				
		F	40.55	4.25	5.30				
Lucas Feed Factors Pasture/Pak D 3639 (4-24-58)	Yes	C	19.00	2.00	7.00				
		F	21.75	2.10	6.91				
Lucas Bloat/Pak (Medicated) D 3640 (4-24-58)	Yes	C	14.00	1.00	5.50				
		F	15.45	1.85	5.63				
Lucas Antibiotic Mixture Inc In Pig/Pak Pre-Starter D 3633 (4-24-58)	Yes	C	18.00	3.50	4.50				
		F	19.75	4.55	3.02				
Lucas Pig/Jig Special Medicated D 3634 (4-24-58)	Yes	C	36.00	3.50	7.50				
		F	40.25	4.45	5.97				
Lucas Hog/Jog Special Medicated D 3635 (4-24-58)	Yes	C	31.00	3.00	8.50				
		F	35.60	4.60	7.10				
Lucas Feed Factors Poultry/Pak D 3636 (4-24-58)	Yes	C	34.00	3.50	6.50				
		F	36.35	4.30	5.99				
Lucas Feed Factors Chick/Pak D 3625 (4-24-58)	Yes	C	34.00	3.30	7.20				
		F	34.90	3.85	6.49				
Lucas Feed Factors Minerals D 3626 (4-24-58)	Yes	C				19.00	6.50	0.004	21.00
		F				18.00	7.20	0.007	18.15
Lucas Feed Factors Lak/Pak Minerals D 3627 (4-24-58)	Yes	C				4.00	0.75	0.012	
		F				4.00	1.11	0.10	
Lucas Feed Factors Pig Starter D 3628 (4-24-58)	Yes	C	15.00	4.00	5.00				
		F	17.40	4.70	3.62				
Lucas 0.0022% D.E.S. Mix Inc In Stil-Beef D 3629 (4-24-58)	Yes	C	24.00	1.60	12.00				
		F	26.45	3.90	11.05				
Lucas Feed Factors Dairy Factors D 3630 (4-24-58)	Yes	C	28.00	2.00	8.00				
		F	29.80	2.35	7.61				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
LUCAS PRODUCTS CO., BEDFORD, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Lucas Feed Factors Chick Starter D 3631 (4-24-58)	Yes		C	17.00	4.00	5.00					4
			F	18.30	4.87	4.16					
Lucas Feed Factors Beef/Ruff D 3632 (4-24-58)	Yes		C	36.00	2.00	6.00					
			F	38.95	3.05	6.76					
Lucas Feed Factors Hog/Jog D 3641 (4-24-58)	Yes		C	31.00	3.00	8.50					
			F	35.40	3.95	5.92					

LYNNVILLE MILL & POWER, LYNNVILLE, IOWA

Old Mill 16% Pig Starter & Grower Medicated D 5093 (8-21-58)	Yes		C	16.00	4.00	4.00					2a
			F	19.35	5.05	3.70					
Old Mill 40% Hog Balancer D 5094 (8-21-58)	Yes		C	40.00	4.00	7.50					
			F	39.00	7.98	6.49					
Old Mill 35% Hog Balancer D 5095 (8-21-58)	Yes		C	35.00	3.00	7.50	4.70	1.30	0.0007	3.00	
			F	34.65	5.03	7.50	4.40	1.38	0.0006	2.64	
Old Mill 16% Chick Grower D 5089 (8-21-58)	Yes		C	16.00	4.00	6.50					3
			F	17.50	3.68	5.87					
Old Mill 35% Sow & Pig Concentrate D 5090 (8-21-58)	Yes		C	35.00	2.50	9.00	4.00	1.10	0.001	3.00	
			F	36.10	2.79	9.03	4.10	1.27	0.0011	2.77	
Old Mill 20% Egg Mash D 5091 (8-21-58)	Yes		C	20.00	3.75	7.00					
			F	22.95	4.02	7.37					
Old Mill 37% Cafeteria Chicken Supplement Medicated D 5092 (8-21-58)	Yes		C	37.00	3.00	7.00	5.00	1.00	0.0005	2.00	
			F	39.00	4.60	6.02	4.80	1.65	0.0004	2.01	

DR. MACDONALD'S VITAMIZED FEED CO., INC., FORT DODGE, IOWA

Dr. Macdonald's Vy-Tab-O-Lator for Dairy Cattle	No	Yes	C	2.00			21.00	4.90	0.0625	20.00	
D 1962 (1-23-58)			F	3.05			20.40	5.00	0.0765	19.35	
Dr. Macdonald's Vy-Tab-O-Lator Pig Lift for Swine	No	Yes	C				17.50	3.50	0.03	17.00	
D 1953 (1-23-58)			F				16.20	3.97	0.031	15.60	
Dr. Macdonald's "Medicated" Thrif-T-Hog "A" Swine Concentrate	No	Yes	C	36.00	1.35	5.25	5.25	1.75	0.0025	2.50	
D 1966 (1-23-58)			F	37.35	3.35	4.85	5.10	2.08	0.003	2.34	
Dr. Macdonald's Thrif-T-Hog Pig Care Pre-Starter "Medicated"	No	Yes	C	24.00	7.00	1.70					2, 3
D 1969 (1-23-58)			F	19.60	5.11	1.49					2a, 3
D 3764 (4-4-58)			F	19.00	5.70	1.11					
Dr. Macdonald's 0.0022% D.E.S. Mixture Inc In Thrif-T-Beef 40-S	Yes		C	40.00	3.25	5.90	3.25	1.30	0.0045	1.30	8
D 1968 (1-23-58)			F	43.00	3.90	5.92	3.20	1.83	0.00276	1.25	
D 3762 (4-4-58)			F	41.25	4.10	6.25	3.00	1.80	0.00485	1.24	
Dr. Macdonald's Vy-Tab-O-Lator for Beef Cattle	Yes		C	2.00			21.00	4.60	0.0625	20.00	
D 1951 (1-23-58)			F	3.30			20.80	5.40	0.060	18.90	
Dr. Macdonald's Vy-Tab-O-Lator Pasture Pig Lift for Swine	No	Yes	C				18.75	3.875	0.035	18.50	
D 1955 (1-23-58)			F				18.80	4.72	0.046	18.15	
Dr. Macdonald's Vy-Tab-O-Lator Egg Mash Maker	No	Yes	C				21.00	3.00	0.0625	20.00	
D 1957 (1-23-58)			F				16.00	3.26	0.056	19.35	
Dr. Macdonald's Milk Replacer Medicated	Yes		C	28.00	8.00	0.50					2, 3
D 1958 (1-23-58)			F	27.65	7.14	0.57					2a, 3
D 3766 (4-4-58)			F	26.75	6.45	0.75					
Dr. Macdonald's Vy-Tab-O-Lator for Swine	Yes		C				20.00	4.25	0.04	20.00	
D 1952 (1-23-58)			F				20.00	5.32	0.034	18.42	
Dr. Macdonald's Vy-Tab-O-Lator Super Beef	Yes		C				18.50	8.40	0.0625	15.50	5
D 1954 (1-23-58)			F				20.60	9.44	0.058	15.45	5
D 3754 (4-4-58)			F				19.60	9.75	0.70	13.71	5

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 DR. MACDONALD'S VITAMIZED FEED CO., INC., FORT DODGE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Dr. Macdonald's Thrif-T-Hog Swine Concentrate Medicated D 1959 (1-23-58)	Yes		C	36.00	1.35	5.25	5.25	1.75	0.0025	2.50	
			F	39.75	2.49	4.53	4.90	2.10	0.0043	2.00	
Dr. Macdonald's Thrif-T-Beef 40-A Medicated D 1960 (1-23-58) D 3765 (4-4-58)	Yes		C	40.00	3.25	5.90	3.25	1.30	0.0045	1.30	8
			F	40.50	3.82	5.85	3.20	1.94	0.0032	1.30	
			F	40.20	3.23	6.10	3.30	1.87	0.00535	1.25	
Dr. Macdonald's Vy-Tab-O-Lator for Horses D 1963 (1-23-58)	Yes		C	.....	.....	.....	18.00	4.10	0.005	20.00	5
			F	.....	.....	.....	19.00	6.08	0.024	19.35	
Dr. Macdonald's Vy-Tab-O-Lator for Sheep D 1964 (1-23-58)	Yes		C	.....	.....	.....	21.00	4.25	0.0625	20.00	
			F	.....	.....	.....	18.60	5.08	0.10	19.20	
Dr. Macdonald's 0.0022% D.E.S. Mixture with Chlortetracycline Inc In Thrif-T-Beef Prime-40 D 1967 (1-23-58) D 3763 (4-4-58)	Yes		C	40.00	3.25	5.90	3.25	1.30	0.0045	1.30	8
			F	40.00	3.94	5.63	3.10	1.81	0.0024	1.30	
			F	40.25	3.88	5.92	3.20	1.88	0.0041	1.23	

MCGREGOR BROTHERS, NASHUA, IOWA

M B 17% Dehydrated Alfalfa Meal D 826 (8-25-58)	Yes		C	17.00	1.50	27.00	.....	.....	.....	.....	
			F	20.85	4.47	27.25	.....	.....	.....	.....	

MCKEE FEED & GRAIN COMPANY, MUSCATINE, IOWA

Hawkeye Chick Starter Medicated D 471 (12-4-57) E 7013 (2-20-58) E 7075 (5-9-58)	Yes		C	18.00	3.50	7.00	.....	.....	.....	.....	
			F	21.20	4.36	6.62	.....	.....	.....	.....	
			F	22.05	4.34	6.76	.....	.....	.....	.....	
			F	21.15	4.86	7.30	.....	.....	.....	.....	

Hawkeye Big 3 Hog Supplement D 472 (12-4-57) Yes C 35.00 3.50 8.70 7.50 1.50 0.0016 1.50

Hawkeye Big 3 Hog Supplement.....	(12-4-57)		F	35.10	4.47	6.46					
D 472	(5-9-58)		F	35.30	5.01	7.01					
E 7073	(6-6-58)		F	36.65	4.52	7.28					
E 7259	(11-28-58)		F	36.25	4.66	8.29	4.40	1.22	0.0012	2.10	
D 7171											
Hawkeye 26% Poultry Supplement.....	(12-4-57)	Yes	C	26.00	3.50	9.00	4.00	1.00	0.0003	2.50	
D 473	(11-28-58)		F	28.10	4.52	8.61					
D 7170			F	28.85	5.30	8.75	3.00	1.31	0.0008	1.29	
Hawkeye 18% Egg Maker.....	(12-4-57)	Yes	C	18.00	3.50	7.00					
D 474	(5-9-58)		F	20.65	4.29	6.56					4
E 7074	(6-6-58)		F	18.90	3.98	7.60					
E 7257	(11-28-58)		F	21.00	4.63	7.36					
D 7169			F	18.75	4.80	7.12					
Hawkeye Pig Starter Medicated.....	(2-20-58)	Yes	C	18.00	4.00	6.00					
E 7014	(7-22-58)		F	18.90	4.47	4.20					
D 2909			F	19.20	5.05	3.25					
Hawkeye Chick Grower Medicated.....	(5-9-58)	Yes	C	16.00	3.50	7.00					4
E 7072			F	20.20	4.37	8.25					
Hawkeye Rabbit Pellets.....	(6-6-58)	Yes	C	16.00	3.00	12.00					
E 7258			F	18.00	4.14	11.65					
Hawkeye Big 4 Baby Beef & Steer Supplement.....	(7-22-58)	Yes	C	32.00	2.50	7.50					
D 2911			F	33.05	2.97	6.81					
0.0011% D.E.S. Mix Inc In Hawkeye Big 4 Baby Beef & Steer Supplement.....	(12-4-57)	Yes	C	32.00	2.50	7.50					4
D 467			F	36.20	2.98	8.07					
Hawkeye Hog Hooper Medicated.....	(12-4-57)	Yes	C	15.00	3.50	6.00					
D 468	(5-9-58)		F	16.20	4.16	4.91					
E 7070	(6-6-58)		F	14.75	3.60	5.08					
E 7254	(11-28-58)		F	15.15	3.48	6.07					2
D 7173			F	14.60	4.47	5.00					
Hawkeye Nitrofurazone Mix In Hawkeye Chick Grower.....	(12-4-57)	Yes	C	16.00	3.50	7.00					
D 469			F	19.30	3.91	6.50					
Hawkeye Kandy Krunchies Medicated.....	(12-4-57)	Yes	C	16.00	4.00	2.50					
D 470			F	16.80	4.71	2.21					
Hawkeye Pasture Supplement.....	(12-4-57)	Yes	C	38.00	3.50	6.00					
D 463	(7-22-58)		F	40.25	4.84	5.64					
D 2910	(11-28-58)		F	40.85	5.55	5.18					
D 7172			F	40.50	4.80	4.92					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MCKEE FEED & GRAIN COMPANY, MUSCATINE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Hawkeye Pig & Sow Supplement Medicated	Yes		C	30.00	2.00	10.00					4
D 464 (12-4-57)			F	33.25	5.71	9.20					
E 7071 (5-9-58)			F	31.15	4.72	10.74					
E 7255 (6-6-58)			F	31.95	5.24	11.00					
Hawkeye Kattle Kubes	Yes		C	12.00	1.50	12.00					4
D 465 (12-4-57)			F	11.90	1.43	11.67					
E 7256 (6-6-58)			F	12.80	1.70	12.92					
Hawkeye Roughage Supplement Medicated	Yes		C	25.00	1.50	12.00					
D 466 (12-4-57)			F	26.05	1.76	10.65					
Hawkeye 0.0022% D.E.S. Mix Inc In Big 4 Baby Beef and Steer Supplement	Yes		C	32.00	2.50	7.50					
D 7174 (11-28-58)			F	34.20	3.79	7.70					

MCMILLEN FEED MILLS, FORT WAYNE, INDIANA

Master Mix Bulky Feed	Yes		C	10.00	1.50	15.00					4
D 3770 (4-15-58)			F	11.40	2.90	18.90					
D 5990 (11-12-58)			F	16.10	2.15	12.34					
D 6172 (12-2-58)			F	11.00	3.48	16.64					
Master Mix Pig Concentrate (52B) Medicated	Yes		C	42.00	1.50	5.00	3.80	1.20	0.0003	2.80	2a
D 3772 (4-15-58)			F	42.00	2.17	3.95	3.00	1.67	0.00045	2.16	
D 3609 (4-17-58)			F	41.00	1.80	3.92					
D 5219 (8-6-58)			F	42.20	1.54	3.88	3.30	1.56	0.0005	1.83	
D 3419 (11-12-58)			F	41.90	1.85	3.73					
Master Mix Complete Calf-Mix	Yes		C	17.50	3.00	8.00					
D 3776 (4-15-58)			F	21.40	3.50	6.57					
D 3615 (4-17-58)			F	21.55	3.95	6.81					

Master Mix Fitting Feed.....	Yes	C	12.00	3.00	9.00						4
D 3777 (4-15-58)		F	16.85	3.55	10.60						
D 6170 (12-2-58)		F	16.10	4.06	8.12						
Master Mix Egg Formula.....	Yes	C	22.00	4.50	3.50						
D 3601 (4-17-58)		F	23.50	5.20	2.82						
D 5981 (11-12-58)		F	24.60	4.43	2.97						
Master Mix Free Choice Poultry Concentrate.....	Yes	C	26.00	2.50	7.00	4.30	1.30	0.0002	1.20		4
D 3604 (4-17-58)		F	26.40	3.25	7.55						
D 5218 (8-6-58)		F	27.10	3.11	6.77	3.60	1.26	0.0006	1.49		
D 5979 (11-12-58)		F	26.55	4.43	6.44	3.80	1.41	0.0007	1.16		
Master Mix Pullet Grower.....	Yes	C	18.00	2.50	7.00						
D 3610 (4-17-58)		F	19.70	3.65	6.59						
Master Mix Layer Concentrate.....	Yes	C	34.00	2.50	8.00						
D 3417 (11-12-58)		F	36.00	3.81	5.03						
Master Mix 35% Hog Concentrate.....	Yes	C	35.00	1.50	9.00	4.90	1.00	0.0002	1.80		
D 3421 (11-12-58)		F	36.40	2.06	5.27						
D 6169 (12-2-58)		F	35.85	2.72	6.48	4.40	1.22	0.0007	0.92		
Master Mix Dogburger.....	Yes	C	25.00	8.00	4.00						2, 3
D 3427 (11-12-58)		F	24.55	7.53	2.95						
0.0011% D.E.S. Mix Inc In Master Mix Baby Beef Concentrate (37A).....	Yes	C	32.00	1.00	8.50						
D 5991 (11-12-58)		F	32.10	1.94	7.78						
Master Mix Pullet Grower.....	Yes	C	18.00	2.50	7.00						
D 5997 (11-12-58)		F	20.10	5.01	6.08						
0.0011% D.E.S. Mix Inc In Master Mix 32% Cattle Supplement (37A).....	Yes	C	32.00	2.00	10.00						
D 6000 (11-12-58)		F	34.60	2.76	9.43						
Master Mix Baby Pig Creep (99A) Medicated.....	Yes	C	20.00	5.00	2.50						
D 3415 (11-12-58)		F	22.55	7.07	2.42						
D 3423 (11-12-58)		F	21.65	6.40	1.02						
0.0011% D.E.S. Mix Inc In Master Mix Beef Sweets (37A).....	Yes	C	20.00	1.00	15.00						
D 3416 (11-12-58)		F	19.80	1.00	11.86						
Master Mix 32% Steer Mixer.....	Yes	C	32.00	1.50	13.00						
D 3617 (4-17-58)		F	35.35	3.00	11.75						

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MCMILLEN FEED MILLS, FORT WAYNE, INDIANA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
0.0011% D.E.S. Mix Inc In Master Mix Beef Concentrate	Yes		C	32.00	1.00	9.50					
D 3619 (4-17-58)			F	33.60	1.70	8.08					
Master Mix Medicated Cattle BIO (41F)	Yes		C	12.00	2.50	13.00					
D 3622 (4-17-58)			F	15.90	3.10	11.10					
Master Mix Sweet Flakes	Yes		C	7.00	1.50	25.00					4
D 3623 (4-17-58)			F	8.50	2.55	29.57					
Master Mix Chick Concentrate (21B) Medicated	Yes		C	36.00	4.00	5.50					
D 3612 (4-17-58)			F	37.45	5.95	5.02					
Master Mix Complete Rabbit Pellets	Yes		C	15.00	2.00	16.00					
D 3613 (4-17-58)			F	18.35	2.40	14.25					
Master Mix Baby Beef Hi-Bloom Concentrate	Yes		C	32.00	1.00	8.50	2.40	0.80	0.0002	3.00	
D 3614 (4-17-58)			F	33.50	1.75	8.65					
D 5985 (11-12-58)			F	31.80	1.54	7.81	2.20	1.06	0.0006	2.34	
D 5998 (11-12-58)			F	31.85	1.43	7.62					
Master Mix Beef Sweets	Yes		C	20.00	1.00	15.00					2a
D 3616 (4-17-58)			F	18.70	1.00	13.05					
D 3426 (11-12-58)			F	21.10	0.94	12.70					
Master Mix Sow Concentrate	Yes		C	34.00	1.50	9.00	5.50	1.20	0.0002	1.80	
E 3305 (3-24-58)			F	34.85	2.00	8.09	4.90	1.26	0.001	1.90	
D 3608 (4-17-58)			F	36.70	2.10	7.43					
D 3420 (11-12-58)			F	38.05	2.29	7.45					
D 3422 (11-12-58)			F	34.45	2.45	7.59					
Master Mix 35% Hog Concentrate	Yes		C	35.00	1.50	9.00	4.90	1.00	0.0002	1.80	
E 3306 (3-24-58)			F	35.00	2.42	6.13					
D 3606 (4-17-58)			F	35.75	1.83	7.46					
D 5982 (11-12-58)			F	36.80	2.25	5.46	4.00	1.31	0.0006	1.47	



Master Mix Pig Concentrate (OIB) Medicated	Yes	C	42.00	1.50	5.00	3.80	1.20	0.0003	2.80
E 3308 (3-24-58)		F	42.40	2.18	3.30	3.60	1.77	0.008	2.50
D 3771 (4-15-58)		F	42.25	1.93	3.70				
D 952 (7-16-58)		F	42.10	1.53	3.44				
D 5988 (11-12-58)		F	42.60	2.43	3.28	3.50	1.84	0.0008	2.46
Master Mix Chick Starter (21A) Medicated	Yes	C	20.00	3.50	5.00				
D 3767 (4-15-58)		F	20.00	4.43	3.40				
D 3603 (4-17-58)		F	20.35	4.30	3.75				
Master Mix Pig Bio Concentrate (64A) Medicated	Yes	C	38.00	1.50	8.00	2.70	0.80	0.0002	1.80
E 9797 (12-13-57)		F	40.80	1.50	6.10				
D 3773 (4-15-58)		F	40.40	2.03	7.05	2.70	1.14	0.00031	1.75
D 3607 (4-17-58)		F	41.75	2.10	6.32				
D 3479 (6-4-58)		F	41.05	1.85	6.83				
D 5999 (11-12-58)		F	39.80	2.14	6.21				
Master Mix Medicated Hi-Calorie 17% Egglac Pellets (41B)	Yes	C	17.00	4.50	4.00				
E 9798 (12-13-57)		F	19.05	5.17	3.49				
D 3602 (4-17-58)		F	18.15	5.00	3.59				
Master Mix Pig Concentrate	Yes	C	42.00	1.50	5.00				
E 9799 (12-13-57)		F	42.00	1.71	3.66				
0.0011% D.E.S. Mix Inc In Master Mix 32% Cattle Supplement	Yes	C	32.00	2.00	10.00				
E 9800 (12-13-57)		F	33.15	2.24	8.91				
D 3624 (4-17-58)		F	33.50	2.40	8.63				
Master Mix Hi-Calorie Broiler Starter Conc. A 353-77 C Medicated	Yes	C	44.00	4.50	3.00				
D 5995 (11-12-58)		F	45.80	5.28	2.37				
Master Mix Chick Concentrate 153-21B Medicated	Yes	C	36.00	4.00	5.50				
D 6168 (12-2-58)		F	37.95	4.49	5.48				
Master Mix Hi-Calorie All Mash Layer	Yes	C	17.00	4.50	3.50				
D 5986 (11-12-58)		F	18.40	4.72	2.36				
Master Mix 32% Cattle Supplement	Yes	C	32.00	2.00	10.00				
D 5992 (11-12-58)		F	32.45	2.75	10.45				
Master Mix Sow & Pig Concentrate	Yes	C	36.00	1.50	9.00				
D 5994 (11-12-58)		F	38.30	1.98	5.54				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MCMILLEN FEED MILLS, FORT WAYNE, INDIANA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Master Mix Hi-Calorie Turkey Grower Concentrate	Yes		C	40.00	3.00	5.00	5.00	1.40	0.0002	1.70	
D 5996 (11-12-58)			F	41.05	4.00	4.23	4.70	1.93	0.0007	1.24	
Master Mix Medicated Biofeed 200 (63B)	No		C	20.00	3.00	4.00					
D 6027 (11-5-58)			F	21.05	2.94	4.27					
Master Mix Beef Concentrate	Yes		C	32.00	1.00	9.50	2.60	1.00	0.0002	3.00	
D 5980 (11-12-58)			F	34.00	1.33	7.36	2.40	0.98	0.0006	2.05	
0.0011% D.E.S. Mix Inc In Master Mix Beef Concentrate (37A)	Yes		C	32.00	1.00	9.50					
D 5983 (11-12-58)			F	33.85	1.27	7.07					
Master Mix Egg Mash	Yes		C	20.00	2.50	7.00					
D 5984 (11-12-58)			F	21.85	4.95	6.28					
Master Mix 12% Cattle Sweets	Yes		C	12.00	1.00	15.00					
E 9692 (12-13-57)			F	14.05	1.84	18.77					
D 3611 (4-17-58)			F	12.55	0.85	13.42					
Master Mix Hi-Calorie Breeder Concentrate	Yes		C	42.00	6.00	4.00	4.90	1.60	0.0002	1.50	
E 9693 (12-13-57)			F	43.65	6.58	3.45					
D 3418 (11-12-58)			F	42.85	7.33	3.25	3.10	1.73	0.0007	0.99	
Master Mix Calf-Mixer	Yes		C	26.00	3.00	6.50	1.80	0.80	0.0001	1.30	
E 9694 (12-13-57)			F	27.65	3.30	6.50					
E 3309 (3-24-58)			F	28.15	3.48	5.58	1.80	0.95	0.00082	1.27	
D 3775 (4-15-58)			F	27.35	3.13	6.10	1.80	0.91	0.00015	1.05	
D 3618 (4-17-58)			F	27.30	3.00	6.05					
D 5987 (11-12-58)			F	27.85	3.77	6.06					
Master Mix Egg Concentrate	Yes		C	42.00	6.00	4.00	4.80	1.60	0.0002	1.50	
E 9793 (12-13-57)			F	43.50	6.35	2.65					
D 3768 (4-15-58)			F	43.55	7.15	2.90	3.90	1.88	0.00055	1.12	

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D 3605	(4-17-58)		F	42.35	7.42	3.31					
D 3480	(6-4-58)		F	43.35	6.40	2.71					
D 5217	(8-6-58)		F	42.00	6.32	2.96					
D 6028	(11-5-58)		F	43.20	6.17	2.55	4.20	1.88	0.0007	1.49	
D 3424	(11-12-58)		F	42.85	7.17	2.97					
D 6173	(12-2-58)		F	43.15	8.85	2.88					
Master Mix Master Blend Dairy Concentrate		Yes	C	33.00	0.50	9.00	4.00	1.00	0.0002	3.00	
E 9794	(12-13-57)		F	34.40	2.15	7.55					
D 3769	(4-15-58)		F	33.55	1.75	8.40	3.30	0.96	0.00042	2.84	
D 3621	(4-17-58)		F	34.80	4.30	7.05					
D 5221	(8-6-58)		F	34.55	2.53	7.98	3.50	1.00	0.0006	2.90	
D 6031	(11-5-58)		F	33.40	1.60	7.35					
D 3428	(11-12-58)		F	36.90	2.51	7.09					
Master Mix Pig-Ets (52A) Medicated		Yes	C	17.00	3.50	3.50					
E 9792	(12-13-57)		F	18.35	4.70	2.60					
D 3774	(4-15-58)		F	18.30	5.52	3.35					
D 3620	(4-17-58)		F	17.80	5.60	3.28					
D 5220	(8-6-58)		F	17.05	4.80	2.87					
D 6030	(11-5-58)		F	17.50	4.95	2.30					
D 3425	(11-12-58)		F	20.35	4.74	2.86					
D 6171	(12-2-58)		F	17.35	4.82	2.64					
Master Mix 40% Hog Concentrate		Yes	C	40.00	1.50	6.00	5.40	1.30	0.0004	2.50	
E 9795	(12-13-57)		F	40.55	1.23	3.91					
E 3307	(3-24-58)		F	40.15	1.77	4.38					
D 5216	(5-6-58)		F	40.65	1.47	5.06					
D 6029	(11-5-58)		F	41.85	1.37	5.15	3.90	1.51	0.0013	2.08	
D 5989	(11-12-58)		F	41.75	1.95	3.99					
Master Mix 44% Dairy Supplement		Yes	C	44.00	1.00	10.00	4.20	1.10	0.0002	3.40	
E 9796	(12-13-57)		F	44.50	1.47	7.10					
D 5993	(11-12-58)		F	42.40	3.17	7.57	4.00	1.22	0.0007	2.74	2a

M & J FEED, CEDAR RAPIDS, IOWA

Zipton Mashmaker		Yes	C	34.00	3.00	8.00					
D 3870	(5-14-58)		F	34.70	4.95	6.41					
M & J Special Pig Starter		Yes	C	16.00	3.50	2.90					
D 3871	(5-14-58)		F	18.75	5.00	2.49					
M & J Hog Supplement with Alfalfa		Yes	C	40.00	2.50	7.50					
D 3872	(5-14-58)		F	42.00	6.84	5.58					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

M & J FEED, CEDAR RAPIDS, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
M & J Pig Meal..... D 3873 (5-14-58)	Yes		C F	16.00 18.35	3.40 4.90	3.50 3.11					
M & J Pig Grower..... D 3875 (5-14-58)	Yes		C F	15.00 16.15	3.00 3.45	4.00 6.95					4

M & M LIVESTOCK PRODUCTS COMPANY, EAGLE GROVE, IOWA

Travite for Swine..... E 7752 (9-17-57)	Yes		C F	8.00 12.10	1.00 1.02	3.00 4.08					
M & M Swine Balancer 42A..... D 1159 (4-23-58)	Yes		C F	42.10 42.30	2.50 4.10	8.50 6.65					
M & M Pig Starter Pellets BT-16 Medicated..... D 1160 (4-23-58)	Yes		C F	16.00 15.90	3.50 4.15	3.00 2.35					
M & M Travite Breeder 35..... D 3469 (6-4-58)	Yes		C F	35.00 35.90	2.00 2.40	6.00 5.37					
M & M Swine Balancer 42R..... D 3470 (6-4-58)	Yes		C F	42.10 42.80	2.50 3.80	8.50 6.61					
M & M Beef Balancer 38 Medicated..... D 3471 (6-4-58)	Yes		C F	38.00 39.05	2.00 5.22	8.50 7.99					
M & M Dairy Balancer 38..... D 3473 (6-4-58)	Yes		C F	38.00 39.05	2.00 5.23	8.50 7.10					
M & M Travite Grower-Finisher 37..... D 3474 (6-5-58)	Yes		C F	37.50 38.55	2.00 3.03	5.50 5.28					
M & M Pig Starter Concentrate..... D 3475 (6-4-58)	Yes		C F	28.00 29.60	1.50 2.20	3.50 2.67					

M & M Beef Balancer 32P D 3476	(6-4-58)	Yes	C	32.00	2.00	17.80					
			F	32.40	3.17	18.18					
M & M Travite Poultry Bal. 40 D 3472	(6-4-58)	Yes	C	40.00	4.00	7.00					2a
D 1241	(7-10-58)		F	38.65	5.16	5.89					
			F	39.65	4.69	5.92					

MAEHR FEED & SUPPLY CO., DAVENPORT, IOWA

Crackerjack 37% Poultry Concentrate D 435	(12-2-57)	Yes	C	37.00	3.25	7.50	5.00	1.80	0.0018	3.00	
E 7216	(3-10-58)		F	40.15	4.40	6.06					
E 7045	(4-23-58)		F	38.30	4.57	5.95	4.20	1.71	0.0026	2.49	
E 7282	(7-1-58)		F	38.55	3.40	6.56					
D 2925	(12-2-58)		F	37.75	6.59	6.80					
			F	39.15	4.73	6.05	4.80	1.58	0.002	2.46	
Crackerjack 17% Egg & Breeder Mash E 7048	(4-23-58)	Yes	C	17.00	3.50	7.00					
D 2929	(12-2-58)		F	17.45	4.30	6.24					
			F	17.70	4.65	6.01					
Crackerjack 35% Sow & Pig Concentrate E 7046	(4-23-58)	Yes	C	35.00	2.00	9.00	4.00	1.10	0.001	3.00	
E 7283	(7-1-58)		F	36.30	2.45	7.03					
			F	32.65	4.91	8.62	5.00	1.31	0.002	1.73	2a, 5
Crackerjack 17% Egg & Breeder Mash D 431	(12-2-57)	Yes	C	17.00	4.00	7.00					
			F	18.20	4.26	5.90					
Crackerjack 20% Egg Mash D 432	(12-2-57)	Yes	C	20.00	3.75	7.00					
E 7218	(3-10-58)		F	21.55	4.36	6.56					
E 7280	(7-1-58)		F	21.40	4.12	6.20					
D 2928	(12-2-58)		F	20.05	4.82	7.11					
			F	21.05	4.54	6.61					
Crackerjack 45% Dairy Mixer D 433	(12-2-57)	Yes	C	45.00	1.00	6.50	3.50	1.00	0.002	3.00	
E 7213	(3-10-58)		F	47.60	1.30	5.42					
E 7047	(4-23-58)		F	45.85	1.73	4.28	3.76	1.11	0.0029	3.18	
E 7281	(7-1-58)		F	45.70	1.35	4.87					
D 2927	(12-2-58)		F	46.60	1.46	4.72	3.35	1.39	0.003	3.27	
			F	47.00	1.18	4.89	4.20	1.20	0.0028	3.19	5
Crackerjack 35% Sow & Pig Concentrate D 434	(12-2-57)	Yes	C	35.00	2.50	9.00	4.00	1.10	0.001	3.00	
E 7217	(3-10-58)		F	36.40	2.97	6.37					
D 2926	(12-2-58)		F	36.90	2.50	7.17	3.70	1.26	0.0022	2.49	
			F	35.05	3.66	7.93					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MALCOM FARMERS CO-OP ELEVATOR, MALCOM, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Pig Grower..... E 8482 (3-17-58)	Yes		C F	16.00 18.00	2.00 4.00	6.00 5.12					
Felco Starting Mash Medicated..... E 8483 (3-17-58)	Yes		C F	20.00 23.50	2.00 3.80	7.00 6.67					
Felco Mash Builder..... E 8484 (3-17-58) D 5112 (8-28-58)	Yes		C F F	38.00 38.40 37.15	3.00 5.55 5.96	8.00 6.86 7.17	6.00 5.20	1.00 2.23		2.50 2.16	2
Felco Dairy Supplement..... E 8485 (3-17-58) D 5111 (8-28-58)	Yes		C F F	35.00 33.65 34.55	0.50 2.90 3.15	8.00 8.50 8.77					2a, 4 2, 4
Felco Special Dry Lot Hog Supplement..... E 8487 (3-17-58) D 5113 (8-28-58)	Yes		C F F	35.00 35.50 34.17	1.50 4.00 5.55	9.00 11.07 9.14	5.00 3.20 3.70	1.00 1.49 1.49	0.0008 0.00167 0.00088	3.00 1.85 1.68	4 2
Felco 26% No Grain Layer-Breder..... E 8486 (3-17-58) D 5110 (8-28-58)	Yes		C F F	26.00 29.40 29.20	2.00 3.75 3.85	9.00 8.75 8.03	5.00 3.40	1.00 1.51	0.0005 0.0012	3.00 1.90	
Felco Sow Supplement..... E 8488 (3-17-58) D 5114 (8-28-58)	Yes		C F F	32.00 33.00 33.70	2.00 4.80 4.31	9.00 10.60 9.15	4.00 3.90	1.00 1.35	0.0008 0.002	3.00 2.87	4
Felco Special Hog Balancer..... E 8489 (3-17-58) D 5109 (8-28-58)	Yes		C F F	40.00 40.50 40.35	1.50 4.50 4.40	9.00 8.48 7.71	5.00 3.20	1.00 1.42	0.0005 0.0009	3.00 1.32	

MALOY FEED MILL, EDDYVILLE, IOWA

Maloy's 16% Super Pig Pusher..... D 4463 (7-21-58)	Yes		C F	16.00 16.90	3.50 4.52	5.50 4.55					
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Maloy's 32% Super Mix Medicated D 4464 (7-21-58)	Yes	C	32.00	2.00	8.00					
		F	33.85	3.35	7.74					
Maloy's 20% Laying Mash Medicated D 4465 (7-21-58)	Yes	C	20.00	2.50	6.50					
		F	21.90	3.85	5.50					
Maloy's 18% Super Grower Medicated D 4466 (7-21-58)	Yes	C	18.00	3.00	6.00					
		F	20.45	4.19	5.15					

MANCHESTER FEED & SUPPLY, MANCHESTER, IOWA

Manhawk 32% Dairy Balancer D 4739 (9-3-58)	Yes	C	32.00	1.00	8.50					
		F	32.35	2.18	8.27					
Manhawk 36% "Litter Builder" Sow Concentrate D 4740 (9-3-58)	Yes	C	36.00	2.00	9.50	5.00	1.50	0.0007	3.00	
		F	36.85	3.89	5.77	5.00	1.87	0.0006	3.09	
Manhawk 20% "Piggie Builder" Medicated D 4741 (9-3-58)	Yes	C	20.00	3.00	5.00					
		F	21.25	4.42	4.32					
Manhawk 40% D 4742 (9-3-58)	Yes	C	40.00	2.00	6.00	4.95	2.00	0.002	2.50	7, 8
		F	42.15	3.23	6.06	3.60	1.30	0.0007	2.52	
Manhawk 26% Grain Balancer D 4743 (9-3-58)	Yes	C	26.00	2.75	8.00	4.50	1.00	0.0007	2.50	8
		F	30.05	3.61	8.10	3.20	1.19	0.0003	2.00	
Manhawk 38% Egg Builder Concentrate D 4744 (9-3-58)	Yes	C	38.00	2.50	8.50	5.00	1.50	0.0005	3.00	8
		F	37.85	4.00	6.22	5.10	2.18	0.00034	2.36	
Manhawk "Moregg" 17% All Mash Ration D 4745 (9-3-58)	Yes	C	17.00	3.00	7.50					
		F	19.15	3.83	6.21					

MANNING MILL, MANNING, IOWA

Manning Mill Cattle Conditioner D 1911 (1-16-58)	Yes	C	14.00	0.90	11.00					
		F	18.85	1.59	9.95					
Manning Mill 40% Hog Supplement D 1902 (1-16-58)	Yes	C	40.00	4.20	5.80	5.40	2.00	0.001	0.70	2, 4, 6
		F	27.80	4.06	6.77	4.30	1.86	0.0037	2.39	
Manning Mill 0.0022% D.E.S. Mix Inc In 34% Beef Supplement D 1904 (1-16-58)	Yes	C	34.00	3.00	9.80	3.40	1.00		1.90	
		F	35.25	3.69	8.71	3.40	1.51		2.14	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

MANNING MILL, MANNING, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Manning Mill 32% Sow Supplement	Yes		C	32.00	5.00	9.50	4.40	1.50	0.001	2.90	3
D 1905 (1-16-58)			F	35.95	4.06	8.60	3.90	1.62	0.002	2.72	
Manning Mill All Purpose Mineral	Yes		C	1.00			30.00	5.00	0.0007	10.00	
D 14 (11-8-57)			F				29.20	6.20	0.021	3.46	
D 1907 (1-16-58)			F	2.45			30.00	6.06	0.00078	9.30	
Manning Mill 34% Dairy Supplement	Yes		C	34.00	1.00	7.00					
D 1901 (1-16-58)			F	38.60	1.67	6.49					
Manning Mill Calf Meal	Yes		C	17.00	3.60	6.50					
D 1909 (1-16-58)			F	17.75	3.58	6.63					
Manning Mill Super Pig Starter	Yes		C	16.00	3.50	3.30					
D 1910 (1-16-58)			F	19.15	4.03	2.60					
Manning Mill 36% Hog Supplement	Yes		C	36.00	2.00	7.50	5.40	1.90	0.0015	2.10	
Medicated D 1906 (1-16-58)			F	39.55	2.30	5.94	4.20	1.90	0.0048	2.10	
Manning Mill Layer Concentrate	Yes		C	32.00	3.70	8.00	4.70	2.20	0.001	1.60	7
D 1908 (1-16-58)			F	34.80	3.60	7.70	4.10	1.84	0.019	1.77	
Minade	Yes		C				32.00	5.00	0.06		
D 1903 (1-16-58)			F				30.00	5.36	0.0523		

MAPLECREST TURKEY FARMS, INC., WELLMAN, IOWA

Maplecrest High Calorie Broiler Ration	Yes		C	24.00	8.00	2.50					
Medicated D 1553 (3-17-58)			F	25.35	7.75	2.17					

Maplecrest Mixing Concentrate	Yes		C	38.00	2.00	2.50	5.00	1.00	0.00055	1.00	
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Maplecrest Mixing Concentrate D 1554 (3-17-58)	Yes	C	38.00	2.00	7.50	5.00	1.00	0.00055	3.00
		F	39.65	3.90	5.62	3.90	1.48	0.0029	2.92
Maplecrest Turkey Pre-Starter Medicated D 1555 (3-17-58)	Yes	C	30.00	1.50	5.50				
		F	30.30	2.30	4.31				
Maplecrest Poult-Pak "28" Medicated D 3021 (7-21-58)	Yes	C	28.00	1.75	4.80				
		F	29.95	2.63	4.26				
Maplecrest Laying Mash D 1558 (3-17-58) D 5581 (8-21-58)	Yes	C	20.00	3.00	8.50				
		F	21.15	3.80	8.85				
		F	22.70	3.86	7.81				
Maplecrest 28% Layer Concentrate D 1559 (3-17-58)	Yes	C	28.00	1.50	8.00	4.50	1.00	0.00055	2.50
		F	30.85	3.40	7.15	3.50	1.56	0.0024	1.90
Maplecrest Chick Grower Medicated D 1560 (3-17-58)	Yes	C	18.00	3.00	7.00				
		F	18.95	3.70	4.22				
Maplecrest 34% Turkey Range Medicated D 3020 (7-21-58)	Yes	C	34.00	1.50	6.50				
		F	35.50	2.52	7.11				
Maplecrest Chick Starter Medicated D 5582 (8-21-58)	Yes	C	22.00	3.00	4.50				
		F	23.45	3.91	3.74				

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MARCO MILLS, INC., JOPLIN, MISSOURI

Marco-Lass (M-85) D 4052 (6-27-58)	Yes	C	6.00	0.25	14.00				
		F	7.85	0.31	15.70				

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MARHOEFER PACKING CO., POSTVILLE, IOWA

Marhoefer 60% Digester Tankage D 223 (12-19-57) D 3853 (5-7-58)	Yes	C	60.00	5.00	3.00				
		F	55.00	5.46	0.76				
		F	59.45	10.53	1.15				
Marhoefer 50% Meat & Bone Scraps D 224 (12-19-57) D 3852 (5-7-58) D 6501 (11-21-58)	Yes	C	50.00	5.00	3.00				
		F	46.85	11.67	1.37				
		F	51.05	10.20	1.33				
		F	46.50	8.87	0.92				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

MARION FEED CENTER, MARION, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
King Castle Complete Mineral..... D 4794 (10-29-58)	Yes		C	.....	.....	.....	24.00	6.00	0.025	6.00	5, 8
			F	.....	.....	.....	27.40	7.10	0.015	5.23	
King Castle Complete Mineral..... D 4795 (10-29-58)	Yes		C	.....	.....	.....	24.00	3.50	0.025	6.00	8
D 2346 (10-28-58)			F	.....	.....	.....	22.20	3.77	0.022	4.95	
			F	.....	.....	.....	23.20	3.36	0.016	5.56	

MARSHALL MILLS, INC., MARSHALLTOWN, IOWA

Old Process Soy Bean Oil Meal..... D 1161 (5-1-58)	Yes		C	41.00	3.50	8.00	.....	.....	.....	.....	4
D 2292 (8-14-58)			F	41.60	3.40	8.55	.....	.....	.....	.....	
D 5108 (8-28-58)			F	41.40	3.91	7.81	.....	.....	.....	.....	
			F	41.70	3.78	8.40	.....	.....	.....	.....	

MARTIN HATCHERY & MILL, INC., MAQUOKETA, IOWA

Martin Brood Sow Supplement..... D 1461 (4-21-58)	Yes		C	36.00	2.50	8.50	3.60	1.00	0.0005	1.50	
			F	37.50	4.20	6.57	2.20	1.00	0.0013	1.11	
Martin Nitro Mix Inc In Martin 35% Hog Concentrate ..... D 1462 (4-21-58)	Yes		C	35.00	3.50	3.50	4.70	1.40	0.0007	3.00	4
			F	36.75	3.95	7.00	3.80	1.29	0.00137	2.82	
Martin 46% Hog Concentrate Medicated..... D 1463 (4-21-58)	Yes		C	46.00	4.00	5.50	6.75	1.70	0.001	3.00	
			F	47.70	4.60	4.36	5.30	1.66	0.00108	3.29	
Martin 40% Mash Maker Medicated..... D 1464 (4-21-58)	Yes		C	40.00	4.00	6.20	6.45	2.00	0.0007	2.00	
			F	41.60	4.55	5.37	5.10	2.30	0.00132	1.83	
Martin 46% Pig Concentrate Medicated..... D 1465 (4-21-58)	Yes		C	46.00	4.00	7.00	4.90	1.90	0.001	2.00	
			F	47.10	5.50	7.10	3.90	1.70	0.00144	2.08	

26% Egg Producer..... D 1467 (4-21-58)	Yes	C	26.00	4.00	5.90	4.00	1.40	0.0005	1.50
		F	26.90	5.37	5.73	4.00	1.65	0.00108	1.52
Martin Cow Bits Hy-Concentrate Medicated..... D 1469 (4-21-58)	Yes	C	43.00	2.40	6.00	3.50	1.10	0.0007	3.00
		F	42.65	3.70	5.37	3.40	1.51	0.0009	3.08
Martin 0.0011% D.E.S. Mix & Rumen Or- ganism Mix Inc In Martin 34% Beef Concentrate ..... D 1458 (4-21-58)	Yes	C	34.00	2.40	6.50	1.80	0.70	0.0007	2.50
		F	34.20	3.25	6.48	1.60	1.13	0.0009	2.11
Hi-Production Cage Layer Medicated..... D 1459 (4-21-58)	Yes	C	17.00	4.50	5.00				
		F	19.10	3.85	4.36				
Martin Pig Grower Medicated..... D 1466 (4-21-58)	Yes	C	16.00	3.50	5.00				
		F	18.55	4.10	4.47				
Martin Chick Starter Grower Medicated..... D 1468 (4-21-58)	Yes	C	22.00	4.00	5.30				
		F	23.25	4.80	4.46				
Martin Rumen Organism Mix Inc In Martin Calf Starter..... D 1470 (4-21-58)	Yes	C	26.00	3.50	5.00				
		F	28.15	4.70	5.30				
Martin Medicated Pig Saver..... D 1471 (4-21-58)	Yes	C	18.00	3.50	4.00				
		F	20.30	4.13	3.80				
Martin Pig Starter Medicated..... D 1472 (4-21-58)	Yes	C	18.00	4.00	4.00				
		F	19.55	4.70	2.80				
Martin Pullet Grower Medicated..... D 1460 (4-21-58)	Yes	C	24.00	4.00	8.50	3.20	1.10	0.0007	1.50
		F	26.25	4.60	7.12	2.80	1.28	0.0006	1.05

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MARTIN MILLING COMPANY, OMAHA, NEBRASKA

Martin 16% Dairy Ration..... D 2582 (11-10-58)	Yes	C	16.00	2.50	10.00				
		F	18.25	4.26	8.83				
Martin 26% Egg Maker Concentrate Medicated..... D 2583 (11-10-58)	Yes	C	26.00	3.00	8.00				
		F	26.75	3.70	7.37				
Martin 18% Pullet Developer Medicated..... D 2584 (11-10-58)	Yes	C	18.00	3.50	8.00				
		F	20.25	4.74	5.73				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MARTIN MILLING COMPANY, OMAHA, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
0.0022% D.E.S. Mix Inc In Martin 32% Beef Maker D 2585 (11-10-58)	Yes		C F	32.00 31.00	3.50 5.32	10.00 9.92					2a
Martin 32% Egg Maker Concentrate D 2586 (11-10-58)	Yes		C F	32.00 36.20	2.25 2.19	8.50 7.13					
Martin 26% Breeder Mash Supplement Medicated D 2587 (11-10-58)	Yes		C F	26.00 26.90	3.50 5.21	8.00 8.33					
Martin Sweetened Pig Pampers Medicated D 2588 (11-10-58)	Yes		C F	20.00 23.05	3.75 4.63	6.00 4.84					
Martin 32% Beef Maker D 2589 (11-10-58)	Yes		C F	32.00 32.00	3.50 4.31	10.00 9.69					
Martin 15% Complete Pork Maker Medicated D 2574 (11-10-58)	Yes		C F	15.00 17.25	3.00 3.54	6.00 9.03					4
Martin 18% Egg Maker D 2575 (11-10-58)	No		C F	18.00 21.50	4.00 3.97	8.00 5.68					
Martin 27% Turkey Pre-Starter D 2576 (11-10-58)	Yes		C F	27.00 27.55	2.60 3.49	7.00 4.26					
0.0011% D.E.S. Mix Inc In Martin 32% Beef Maker D 2577 (11-10-58)	Yes		C F	32.00 32.15	3.50 4.58	10.00 9.76					
Martin 26% Egg Maker Concentrate Medicated D 2578 (11-10-58)	Yes		C F	26.00 28.45	3.00 3.17	8.00 7.60					
Martin Super Pig Starter Medicated D 2579 (11-10-58)	Yes		C F	20.00 22.65	3.75 4.15	6.00 5.09					

Martin 22% Beef Maker Pellets D 2580 (11-10-58)	Yes	C F	22.00 23.40	5.00 2.50	8.00 6.51					3
Martin 40% Pork Maker Medicated D 2581 (11-10-58)	Yes	C F	40.00 38.55	1.50 1.71	6.00 5.21					2a
Two Grand Booster Martin 26% Egg Maker Concentrate Medicated D 2557 (11-10-58)	Yes	C F	26.00 28.55	3.00 4.09	8.00 7.29					
Martin 32% Milk Maker Feed D 2568 (11-10-58)	Yes	C F	32.00 30.00	1.80 3.28	9.50 8.45					2a
Martin 20% Egg Maker Medicated D 2569 (11-10-58)	Yes	C F	20.00 20.75	3.50 3.85	8.00 8.12					
Martin 20% Pig & Sow Medicated D 2570 (11-10-58)	Yes	C F	20.00 22.10	3.25 3.75	9.50 8.95					
Martin Super Pig Starter Medicated D 2571 (11-10-58)	Yes	C F	20.00 21.70	3.75 4.34	6.00 5.01					
Martin 20% Chick Starter Medicated D 2572 (11-10-58)	Yes	C F	20.00 20.00	3.25 3.59	4.50 4.02					
Martin 18% Chick Starter Medicated D 2558 (11-10-58)	Yes	C F	18.00 19.45	3.25 3.70	5.00 3.79					
Martin Sweetened Pig Pampers Medicated D 2573 (11-10-58)	Yes	C F	20.00 22.70	3.75 4.56	6.00 4.10					
D.E.S. Mix 0.0022% Inc In Martin 32% Cattle Fattener D 2590 (11-10-58)	Yes	C F	32.00 35.30	4.00 6.34	11.25 10.26					

MASON CITY HATCHERY, MASON CITY, IOWA

Big H Mix Meyer's Grower (NC) Medicated D 1282 (3-18-58)	Yes	C F	18.00 20.25	3.00 3.11	7.00 4.32					
Big H Mix Meyer's 37% Hep Poultry Concentrate	Yes	C F F	37.00 37.30 39.05	1.00 2.45 1.93	7.00 6.10 4.24	4.50 4.50	1.50 1.91	0.00052 0.0009	2.00 1.53	
D 1283 (3-18-58)										
D 1364 (9-29-58)										

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 MASON CITY HATCHERY, MASON CITY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Big H 35% Pig Supplement D 1365 (9-29-58)	Yes		C F	35.00 35.15	1.50 1.71	8.00 6.84	4.50 5.50	1.30 1.28	0.0007 0.00099	2.50 1.68	5
Big H Meyer's 33% Hep Free Choice Poultry Supplement D 1366 (9-29-58)	Yes		C F	33.00 33.40	1.50 2.73	6.50 6.40	4.00 3.50	1.00 1.24	0.00035 0.0005	1.60 1.06	
Big H Mix Meyer's Chick Starter Medicated D 1284 (3-18-58)	Yes		C F	20.00 20.55	3.50 4.03	5.50 5.35					
Big H Mix Meyer's 35% Pig Popper Supplement D 1285 (3-18-58)	Yes		C F	35.00 36.65	1.25 2.35	8.00 7.05					
Big H Mix Meyer's Grower D 1363 (9-29-58)	Yes		C F	18.00 20.85	3.00 3.14	7.00 4.55					
Big H Mix Meyer's All-Mash Laying Ration D 1286 (3-18-58)	Yes		C F	16.00 17.65	4.00 3.78	6.00 3.75					

OSCAR MAYER & COMPANY, MADISON, WISCONSIN

Oscar Mayer Meat Scraps D 1501 (2-19-58)	Yes		C F	50.00 48.73	6.00 11.74	3.00 1.05					2a
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MID-AMERICA MILLING COMPANY, OMAHA, NEBRASKA

Top Flyte 60% Menhaden Fish Meal D 1435 (12-6-57)	Yes		C F	60.00 64.05	6.00 9.18	3.00 0.60					
D 4074 (7-9-58)			F	59.45	11.63	0.92					
D 4268 (7-14-58)			F	59.50	9.94	1.06					

D 2283	(7-21-58)			F	60.95	9.94	1.47				
D 5230	(8-13-58)			F	59.15	10.97	3.17				
D 2285	(8-14-58)			F	59.50	9.68	1.03				
D 4216	(9-30-58)			F	61.55	7.87	0.70				
Top Flyte 50% Meat & Bone Scraps		Yes		C	50.00	6.00	3.00				
D 1436	(12-6-57)			F	51.55	9.11	1.47				
D 3809	(3-27-58)			F	50.00	10.09	2.07				
D 1870	(4-4-58)			F	50.20	8.49	1.90				2a
D 641	(4-3-58)			F	46.70	9.95	1.90				
D 4127	(9-30-58)			F	51.05	9.66	1.50				
Top Flyte 60% Digester Tankage		Yes		C	60.00	6.00	3.00				4
D 1437	(12-6-57)			F	61.15	5.93	3.94				
E 9349	(10-3-57)			F	61.05	6.54	1.12				
E 9350	(10-3-57)			F	61.25	6.77	1.09				
E 9747	(12-10-57)			F	61.00	7.37	2.20				61
E 4899	(1-28-58)			F	60.90	8.11	0.90				
E 3812	(3-27-58)			F	60.65	6.20	2.48				
D 1871	(4-4-58)			F	60.50	6.35	1.88				
D 4126	(9-30-58)			F	62.05	6.59	3.15				
Top Flyte Menhaden Fish Meal		Yes		C	60.00	6.00	3.00				
E 8940	(11-27-57)			F	65.00	8.81	1.10				
E 7840	(12-13-57)			F	60.40	11.20	0.84				4
D 3529	(3-24-58)			F	60.05	8.56	2.29				
D 39	(6-24-58)			F	59.60	9.21	1.14				
D 6936	(12-11-58)			F	60.10	10.11	0.98				
Top Flyte 60% Menhaden Fish Meal		Yes		C	60.00	6.00	1.00				
D 1703	(2-20-58)			F	60.55	10.87	0.77				
D 3645	(4-24-58)			F	59.85	7.85	1.07				
D 2453	(6-5-58)			F	59.90	8.02	0.85				4
D 4125	(9-30-58)			F	60.00	10.78	1.76				
D 2175	(11-4-58)			F	60.00	7.06	0.38				
Top Flyte Menhaden Fish Meal		No	Yes	C	60.00	5.00	1.00				1a
D 645	(4-3-58)			F	59.90	10.72	0.90				
D 2699	(4-29-58)	Yes		F	58.95	9.71	1.20				2a
D 2743	(5-5-58)			F	58.27	9.62	0.84				2a
Top Flyte Canadian Herring Meal		Yes		C	70.00	5.00	1.00				
D 3481	(6-12-58)			F	66.60	7.19	.31				2a
Menhaden Fish Meal		Yes		C	60.00						
D 1220	(7-1-58)			F	60.90						

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MID-WEST DRIED MILK COMPANY, DUNDEE, ILLINOIS

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Midwest Sweet Dried Whole Whey..... D 3533 (3-24-58)	Yes		C F	12.50 13.02	0.50 1.00						

MID WEST PACKING CO., INC., BONAPARTE, IOWA

Hawkeye Brand Meat Scraps..... E 8425 (1-6-58) D 6664 (11-17-58)	Yes		C F F	50.00 49.30 51.85	6.00 12.59 15.80	5.00 1.02 0.47					2
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MILLIGAN & SON, INC., SIOUX CITY, IOWA

Siouxland 26% Laying Supplement..... D 7546 (12-12-58)	Yes		C F	26.00 28.95	2.50 5.23	10.00 7.66					
Siouxland Hog Supplement..... D 7547 (12-12-58)	Yes		C F	40.00 39.75	3.00 5.08	3.00 5.15					4
Siouxland 32% Dairy Supplement..... D 7548 (12-12-58)	Yes		C F	32.00 32.50	3.00 0.85	11.00 7.96					3
Siouxland Steer Supplement..... D 7540 (12-12-58)	Yes		C F	32.00 34.10	3.00 1.18	11.00 7.15					3
Milligan's Mineral Mixture..... D 7541 (12-12-58)	Yes		C F	4.00 5.95			23.00 20.80	5.00 5.54	0.04 0.011	23.00 23.00	8
Piggie-Quickie Pig Starter..... D 7542 (12-12-58)	Yes		C F	20.00 17.75	3.50 4.74	3.00 2.02					2a
Milligan's Mill-O-Vita All Purpose Supplement Medicated..... D 7545 (12-12-58)	Yes		C F	36.00 38.55	3.50 4.58	5.50 5.58					



MINNESOTA LINSEED OIL MEAL CO., MINNEAPOLIS, MINNESOTA

Minnesota 34% Protein Solvent Extracted Linseed Oil Meal.....	Yes	C	34.00	0.50	10.00	.....	.....	.....	.....	
D 3804 (3-27-58)		F	34.95	1.29	9.34	.....	.....	.....	.....	
D 1872 (4-4-58)		F	35.25	1.33	9.49	.....	.....	.....	.....	
D 2403 (5-8-58)		F	34.00	1.25	9.00	.....	.....	.....	.....	
D 2452 (6-5-58)		F	34.10	2.06	10.08	.....	.....	.....	.....	
D 4154 (6-30-58)		F	34.90	1.80	10.00	.....	.....	.....	.....	

MINRULAX INC., COUNCIL BLUFFS, IOWA

Hi-5 For Cattle & Sheep Medicated.....	Yes	C	7.00	2.00	4.00	.....	.....	.....	.....	3
E 9004 (2-20-58)		F	11.10	1.55	2.42	.....	.....	.....	.....	
Minrufac-Antibiotic and Vitamin Supplement.....	Yes	C	20.00	3.00	10.00	.....	.....	.....	.....	
E 9005 (2-20-58)		F	28.65	3.49	7.10	.....	.....	.....	.....	
Formula 21 for Cattle & Sheep Medicated.....	Yes	C	.....	.....	.....	9.00	1.20	0.005	.....	
E 9003 (2-20-58)		F	.....	.....	.....	7.60	1.29	0.0063	.....	

MISSISSIPPI OIL MILLS, INC., HOLLANDALE, MISSISSIPPI

41% Solvent Extracted Cottonseed Meal.....	No	C	41.00	0.50	14.00	.....	.....	.....	.....	2a
D 3534 (3-24-58)		F	38.05	1.95	13.38	.....	.....	.....	.....	

MITCHELL-MASKREY & COMPANY, MAQUOKETA, IOWA

Murphy's Cut-Cost Creep Feed Medicated.....	Yes	C	16.00	2.50	6.00	.....	.....	.....	.....	
D 3898 (6-3-58)		F	16.75	4.06	5.32	.....	.....	.....	.....	

MOAT FEED MILL, STRAWBERRY POINT, IOWA

Moat's 37% Egg Breeder Concentrate.....	Yes	C	37.00	2.50	9.00	.....	.....	.....	.....	
D 3014 (7-16-58)		F	37.30	3.83	6.52	.....	.....	.....	.....	
Moat's 40% Hog Concentrate.....	Yes	C	40.00	2.50	8.00	.....	.....	.....	.....	
D 3015 (7-16-58)		F	42.05	2.86	5.88	.....	.....	.....	.....	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MONONA COOP COMMISSION CO., MONONA, IOWA

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Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Special Hog Balancer..... D 4703 (8-14-58)	Yes		C F	40.00 40.10	1.50 2.67	9.00 7.66	5.00 2.90	1.00 1.19	0.0005 0.00066	3.00 2.00	
Felco Pig Starter Medicated..... D 4704 (8-14-58)	Yes		C F	18.00 22.45	3.00 4.43	5.00 3.40	..... .....	..... .....	..... .....	..... .....	
Felco Pig Grower Medicated..... D 4705 (8-14-58)	Yes		C F	16.00 19.70	2.00 3.89	6.00 4.95	..... .....	..... .....	..... .....	..... .....	
Felco Mash Builder..... D 4706 (8-14-58)	Yes		C F	38.00 39.65	3.00 4.24	8.00 6.07	6.00 5.40	1.00 2.25	..... .....	2.50 2.26	
Felco Sow Supplement..... D 4707 (8-14-58)	Yes		C F	32.00 34.85	2.00 3.60	9.00 9.87	4.00 3.80	1.00 1.41	0.0008 0.0022	3.00 2.41	4
Felco 20% Layer-Breeder..... D 4708 (8-14-58)	Yes		C F	20.00 24.45	2.00 3.91	8.00 7.14	5.00 3.20	1.00 1.29	0.0007 0.0016	2.00 1.65	
Felco Special Dry Lot Hog Supplement..... D 4709 (8-14-58)	Yes		C F	35.00 37.70	1.50 3.49	9.00 8.89	5.00 3.40	1.00 1.20	0.0008 0.0015	3.00 1.96	
Felco Dairy Supplement..... D 4710 (8-14-58)	Yes		C F	35.00 36.90	0.50 1.43	8.00 7.61	..... .....	..... .....	..... .....	..... .....	

MONROE GRAIN & ALFALFA CO., MONROE, NEBRASKA

Monroe's 20% Dehy Alfalfa Meal..... D 2459 (6-5-58)	No	Yes	C F	20.00 20.50	1.50 3.30	22.00 23.00	..... .....	..... .....	..... .....	..... .....	4
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ANNUAL REPORT

MONTANA FLOUR MILLS CO., GREAT FALLS, MONTANA

Montco Pure Wheat Bran..... D 2304	(8-27-58)	No	Yes	C	15.00	3.00	12.00	.....	.....	.....	.....
				F	16.05	4.76	11.86	.....	.....	.....	.....

MONTEZUMA ELEVATOR, MONTEZUMA, IOWA

Poweshiek Hog Balancer..... E 8490	(3-17-58)	Yes		C	40.00	3.00	7.50	.....	.....	.....	2
				F	39.20	4.00	7.45	.....	.....	.....	
Poweshiek Hi Calorie All Mash..... E 8491	(3-17-58)	Yes		C	17.00	4.50	3.50	.....	.....	.....	
				F	17.70	4.60	2.20	.....	.....	.....	
Poweshiek 20% Egg Mash..... E 8492	(3-17-58)	Yes		C	20.00	3.50	7.00	.....	.....	.....	
				F	21.90	4.40	6.96	.....	.....	.....	
Poweshiek 16% Pig Starter Medicated..... E 8493	(3-17-58)	Yes		C	16.00	3.50	3.00	.....	.....	.....	
				F	17.50	5.15	2.66	.....	.....	.....	

MONTICELLO FEED MILL, MONTICELLO, IOWA

Star Farmer Mash Builder Medicated..... D 4768	(9-30-58)	Yes		C	32.00	3.50	9.00	9.00	1.00	0.002	3.00	
				F	35.30	4.12	7.17	6.20	2.01	0.0048	3.26	
Star Farmer Hog Balancer Medicated..... D 4769	(9-30-58)	Yes		C	40.00	3.00	8.00	5.00	1.30	0.002	2.50	5, 6
				F	40.25	5.02	6.68	5.50	1.84	0.0029	3.06	
Star Farmer Stepped-Up Breeder Mash Medicated..... D 4770	(9-30-58)	Yes		C	20.00	3.50	8.00	.....	.....	.....	.....	
				F	21.60	4.38	7.35	.....	.....	.....		
Star Farmer Pig & Sow Supplement Medicated..... D 4771	(9-30-58)	Yes		C	35.00	3.00	8.00	5.00	1.30	0.002	2.50	5, 6
				F	40.70	4.91	6.29	6.00	1.96	0.0018	2.92	
Star Farmer Dairy Supplement..... D 4772	(9-30-58)	Yes		C	33.00	4.00	8.00	.....	.....	.....	.....	3
				F	35.35	3.19	7.75	.....	.....	.....		

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

MOON HATCHERY & FEED, LAMONI, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Check-R-Mix Laying Feed (All Mash) SE D 4481 (7-23-58)	Yes		C	16.00	3.00	7.00					
			F	16.25	5.15	4.27					
Check-R-Mix Growing Feed (All Mash) SB D 4482 (7-23-58)	Yes		C	17.00	3.00	8.50					2
			F	16.15	4.65	4.31					

MOORMAN MFG. CO., QUINCY, ILLINOIS

Moorman's Mintrate 40 for Poultry D 5267 (10-26-58)	Yes		C	40.00	2.00	5.00					
			F	40.95	3.04	4.87					
Moorman's Mintrate for Dairy Cows D 5268 (10-26-58)	Yes		C	42.00	2.00	8.50					
			F	44.05	2.60	5.66					
Moorman's Mintrate for Starting & Growing Pigs Medicated D 5269 (10-26-58)	Yes		C	43.00	2.00	5.50					
			F	44.50	2.05	4.10					
Moorman's Mintrate Super 5 for Poultry D 5270 (10-26-58)	Yes		C	40.00	2.00	6.50					
			F	40.40	3.63	4.95					
Moorman's Gro Fast Minerals D 9326 (1-7-58)	Yes		C				24.50	5.20	0.017	28.50	
			F				23.60	5.44	0.021	27.18	
Moorman's Min-O-Phene D 9327 (1-7-58)	Yes		C				21.00	5.00	0.017	28.50	
			F				18.40	5.32	0.069	27.66	
Moorman's Mintrate 45 Pellets D 5265 (10-26-58)	Yes		C	45.00	2.00	4.00					
			F	47.75	3.29	2.77					
Moorman's Medicated MoorMaBoost D 5266 (10-26-58)	Yes		C	16.00	3.00	10.00					
			F	19.40	4.60	9.60					

Moorman's Coxicurb-Mintrate Medicated D 9313	Yes	C	43.00	2.50	4.50				
		F	44.10	3.66	3.67				
Moorman's Mintrate Super 5 for Poultry D 9314	Yes	C	40.00	2.00	6.50				
		F	40.80	3.34	5.30				
Moorman's Mintrate for Starting & Growing Pigs D 9315	Yes	C	43.00	2.00	5.50				
		F	43.90	3.02	4.65				
Moorman's Mintrate for Dairy Cows D 9316	Yes	C	42.00	2.00	8.50				
		F	42.90	2.59	7.03				
Moorman's Mintrate for Sows D 9317	Yes	C	44.00	2.50	4.50				
		F	44.00	4.65	2.48				
Moorman's 0.0022% D.E.S. Mix Inc In Moor- man's Mintrate for Fattening Cattle D 9318	Yes	C	45.00	2.00	7.50				
		F	45.50	2.40	6.96				
Moorman's Mintrate for Chicks D 9319	Yes	C	43.00	2.50	4.50				
		F	44.75	2.86	4.50				
Moorman's Mintrate 38 for Poultry D 9320	Yes	C	38.00	2.00	5.00				
		F	38.90	3.60	4.68				
Moorman's Top-Kream Minerals D 9328	Yes	C				30.50	6.60	0.017	
		F				29.20	7.40	0.019	
Moorman's Gro-Fat Minerals D 9329	Yes	C				22.50	3.10	0.017	25.50
		F				20.20	3.38	0.03	25.56
Moorman's Medicated Moor Ma Boost D 9330	Yes	C	16.00	3.00	10.00				
		F	18.70	4.75	10.00				
Moorman's "Special" Minerals for Hogs D 9325	Yes	C				21.00	3.40	0.017	9.50
		F				20.60	3.84	0.020	8.46
Moorman's Mintrate for Fattening Cattle D 9321	Yes	C	45.00	2.00	7.50				
		F	45.60	2.83	6.97				
Moorman's Mintrate 40 for Poultry D 9322	Yes	C	40.00	2.00	5.00				
		F	40.85	4.02	4.99				
Moorman's Mintrate 45 for Hogs D 9323	Yes	C	45.00	3.00	4.00				
		F	45.20	4.70	3.10				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 MOORMAN MFG., CO., QUINCY, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Moorman's Creep Concentrate..... D 9324 (1-7-58)	Yes		C F	24.00 25.05	3.00 4.49	4.00 3.02	..... .....	..... .....	..... .....	..... .....	

MORLAN'S BIG "10" FEED CO., ELDORA, IOWA

Morlan's Big "10" Feeds Hog 35%..... D 4614 (7-16-58)	Yes		C F	35.00 34.25	3.00 3.98	8.00 5.97	..... .....	..... .....	..... .....	..... .....	2
Morlan's Big "10" Feeds 45% Hog Concentrate ..... D 4615 (7-16-58)	Yes		C F	45.00 44.80	3.50 4.31	5.00 4.13	..... .....	..... .....	..... .....	..... .....	
Morlan's Big "10" Feeds 36% Cattle Feed Medicated ..... D 4616 (7-16-58)	Yes		C F	36.00 36.95	2.00 3.20	7.50 6.31	..... .....	..... .....	..... .....	..... .....	
Morlan's Big "10" Feeds 27% Poultry Cafeteria Feed..... D 4610 (7-16-58)	Yes		C F	27.00 28.35	2.50 4.27	8.50 9.56	..... .....	..... .....	..... .....	..... .....	4
Morlan's Big "10" Feeds "Pig Jets" Medicated ..... D 4611 (7-16-58)	Yes		C F	18.30 17.50	3.50 3.73	3.50 3.99	..... .....	..... .....	..... .....	..... .....	2, 4
Morlan's Big "10" Feeds 34% Dairy..... D 4612 (7-16-58)	Yes		C F	34.00 37.20	2.00 2.94	7.50 7.23	..... .....	..... .....	..... .....	..... .....	
Morlan's Big "10" Feeds 35% Poultry Concentrate ..... D 4613 (7-16-58)	Yes		C F	35.00 34.20	2.00 4.50	8.00 8.48	4.50 4.00	1.70 1.60	0.0002 0.0008	2.50 2.50	2, 4, 7

JOHN MORRELL & COMPANY, CHICAGO, ILLINOIS & OTTUMWA, IOWA

Morrell's Red Heart Brand 60% Meat Meal Tankage	Yes	C	60.00	5.00	1.50					
D 537 (4-7-58)		F	61.40	6.03	0.75					
D 2505 (5-1-58)		F	61.75	5.01	0.55					
D 5071 (8-6-58)		F	62.65	5.16	1.07					
D 2348 (10-29-58)		F	60.30	4.53	0.66					3

MORRISON & QUIRK, AUDUBON, IOWA

M & O 17% Alfalfa Meal	Yes	C	17.00	1.50	27.00					
D 1803 (11-27-57)		F	21.15	2.26	22.08					

F. MUELLER & SONS CO., GRAND MOUND, IOWA

Mueller's Economy Growing Mash Medicated	Yes	C	16.00	2.50	7.00					
D 4753 (9-29-58)		F	18.30	4.80	6.01					
Mueller's Economy Pig & Sow Meal	Yes	C	23.00	3.80	6.00					
D 4754 (9-29-58)		F	25.20	4.14	5.21					
Economy Poultry Concentrate	Yes	C	32.00	2.00	7.50	6.00	1.50	0.00004	3.50	
D 4755 (9-29-58)		F	33.10	4.43	7.18	5.80	2.11	0.0014	3.63	
0.0022% D.E.S. Mix Inc In Mueller's Economy 32% Beef Supplement	Yes	C	32.00	1.20	11.00	2.00	0.80	0.00018	2.00	
D 4756 (9-28-58)		F	34.90	2.78	10.14	2.20	0.97	0.0004	2.10	
0.0022% D.E.S. Mix Inc In Mueller's Economy 22% Beef Fattener	Yes	C	22.00	1.40	16.00					
D 4757 (9-29-58)		F	25.10	2.56	12.83					
Mueller's Economy 40% Hog Supplement	Yes	C	40.00	2.75	7.00	4.50	1.50	0.0002	1.20	
D 4758 (9-29-58)		F	41.40	3.87	6.42	3.80	1.53	0.00045	1.44	
Schwitzer's 35% Hog Supplement	Yes	C	35.00	2.00	6.70					
D 4759 (9-29-58)		F	36.60	3.64	6.70					
Mueller's 22% Beef Fattener	Yes	C	22.00	1.40	16.00	2.00	0.50	0.0001	2.25	
D 4760 (9-29-58)		F	24.25	2.37	13.26	2.20	0.77	0.0023	2.24	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 F. MUELLER & SONS CO., GRAND MOUND, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Mueller's Economy Egg Mash D 4761 (9-29-58)	Yes		C F	18.00 19.55	3.00 3.58	7.00 6.77	3.00 2.70	0.90 1.07	0.00015 0.0024	1.00 1.10	
0.0011% D.E.S. Mix Inc In Mueller's 22% Beef Fattener D 4765 (9-29-58)	Yes		C F	22.00 23.85	1.40 2.27	16.00 13.97	2.00 2.00	0.50 0.78	0.0001 0.00063	2.00 2.18	
Mueller's Economy 32% Beef Supplement D 4767 (9-29-58)	Yes		C F	32.00 35.10	2.00 2.33	11.00 10.76	2.00 1.90	0.50 0.95	0.00015 0.00037	0.50 2.06	6
Mueller's Rabbit Pellets Medicated D 4762 (9-29-58)	Yes		C F	15.00 17.55	2.00 4.46	14.00 12.61	1.00 1.10	0.50 0.63	0.00002 0.00034	0.50 0.67	
Mueller's Economy 32% Dairy Concentrate D 4752 (9-29-58)	Yes		C F	32.00 34.00	1.00 1.85	9.00 7.24					
Mueller's Economy Pig Weaner 4-20 D 4766 (9-29-58)	Yes		C F	18.00 18.90	1.50 2.78	3.00 2.77	1.00 1.30	0.50 0.74	0.0001 0.00066	0.50 1.16	5, 6
Mueller's Economy Baby Beef Supplement D 4763 (9-29-58)	Yes		C F	24.00 27.70	2.00 2.47	7.50 8.38	1.00 1.20	0.80 0.94	0.00018 0.00034	1.00 0.71	4
0.0011% D.E.S. Mix Inc In Mueller's Economy 32% Beef Supplement D 4764 (9-29-58)	Yes		C F	32.00 34.90	1.20 2.44	11.00 10.72	2.00 2.00	0.80 0.96	0.00018 0.00039	2.00 2.08	
MULLEN FEED STORE, LANSING, IOWA											
Mullen 35% Hog Concentrate D 4702 (8-14-58)	Yes		C F	35.00 38.50	4.50 4.78	9.00 7.10	5.50 5.20	1.20 1.90	0.0007 0.0020	2.25 2.74	6



MURPHY FEED SERVICE, FORT MADISON, IOWA

Murphy's Cut Cost Creep Feed for Pigs D 315 (12-11-57)	Yes	C	16.00	2.50	6.00				
		F	18.80	4.20	4.05				
Murphy's Vig-O-Ray All-Mash Laying Ration E 7029 (4-21-58) D 2863 (7-8-58)	Yes	C	15.00	3.00	7.00				
		F	18.15	3.85	6.53				
		F	17.85	3.75	6.97				
Murphy's Cut-Cost 16% Dairy Ration E 7028 (4-21-58)	No	C	16.00	2.50	10.00				
		F	16.45	3.30	7.36				
Murphy's Vig-O-Ray Growing Mash E 7027 (4-21-58) D 2868 (7-8-58)	Yes	C	16.00	3.00	8.00				
		F	16.90	3.55	8.56				
		F	17.05	3.90	8.17				
Murphy's Vig-O-Ray All-Mash Laying Ration D 314 (12-11-57)	Yes	C	15.00	3.00	7.00				
		F	17.70	3.59	6.50				

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MURPHY PRODUCTS CO., BURLINGTON, WISCONSIN

Murphy's Cut Cost Dairy Concentrate E 8192 (12-2-57) D 5585 (8-25-58)	Yes	C	30.00	1.00	9.00	4.00	1.50	0.006	4.00
		F	32.10	1.38	8.33				
		F	32.25	1.91	8.15	2.30	1.49	0.0059	3.88
Murphy's Vig-O-Ray Poultry Concentrate E 8193 (12-2-57)	Yes	C	32.00	2.50	8.00				
		F	34.65	3.48	6.65				
Murphy's Cut Cost Hog Concentrate E 8194 (12-2-57) D 5531 (9-22-58)	Yes	C	30.00	2.00	9.00				
		F	32.90	3.63	6.66				
		F	33.00	3.39	6.92				
Murphy's 0.0022% D.E.S. Mixture Inc In Beef Balancer E 8195 (12-2-57)	Yes	C	35.00	1.00	9.00				
		F	37.05	1.82	6.99				
Murphy's Vig-O-Ray Chick Starter and Broiler Feed Medicated D 4486 (7-24-58)	Yes	C	20.00	2.50	6.00				
		F	20.70	3.81	4.57				
Murphy's Baby Pig Mineral D 2334 (9-17-58)	Yes	C				21.00	3.50	0.021	8.80
		F				21.10	4.06	0.019	7.59

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
MURPHY'S PRODUCTS COMPANY, BURLINGTON, WISCONSIN—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Murphy's Cut Cost Vig-O-Ray Poultry Concentrate	Yes		C	32.00	2.50	8.00	6.00	2.00	0.004	4.00	
D 6017 (11-4-58)			F	33.15	3.11	5.74	5.50	2.03	0.0057	4.01	

NASHUA EQUITY CO-OP, NASHUA, IOWA

Felco Beef Supplement	Yes		C	35.00	0.50	9.00					
E 7841 (12-17-57)			F	38.90	1.40	6.35					
Felco Dairy Supplement	Yes		C	35.00	0.50	8.00					
E 7842 (12-17-57)			F	38.60	0.80	6.98					
Felco Sow Supplement	Yes		C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	4
E 7843 (12-17-57)			F	33.00	3.35	9.66	3.40	1.54	0.0018	1.80	
Felco Mash Builder	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	
E 7844 (12-17-57)			F	39.15	3.92	6.25	5.80	2.61		2.56	
D 825 (8-25-58)			F	40.45	4.13	6.36	5.60	2.75		1.90	
Felco 26% No Grain Layer-Breeder	Yes		C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
E 7845 (12-17-57)			F	28.65	3.15	7.76	3.80	1.65	0.0019	2.39	
D 824 (8-25-58)			F	30.20	3.37	8.27					
Felco 20% Layer-Breeder	Yes		C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00	
E 7846 (12-17-57)			F	24.00	3.03	7.35	2.70	1.23	0.0011	1.67	
Felco Pig Grower	Yes		C	16.00	2.00	6.00					
E 7847 (12-17-57)			F	17.95	3.84	4.50					
Felco Special Pig & Sow Meal	Yes		C	20.00	2.00	9.00					
E 7849 (12-17-57)			F	22.75	4.10	8.89					

Felco Special Hog Balancer.....	Yes		C	40.00	1.50	9.00	3.00	1.00	0.0002	3.00	
E 7850 (12-17-57)			F	43.75	2.57	7.30	2.90	1.27	0.0018	1.53	
D 822 (8-25-58)			F	40.95	3.44	7.40					
Felco Special Dry Lot Hog Supplement.....	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	
E 7851 (12-17-57)			F	35.55	3.02	9.00	3.50	1.36	0.0015	2.14	
D 823 (8-25-58)			F	37.60	3.89	9.17					

NATIONAL ALFALFA DEHYDRATING & MILLING CO., LAMAR, COLORADO

Jack Rabbit National Dehy Alfalfa 17%.....	Yes		C	17.00	1.50	27.00					
E 9179 (12-6-57)			F	18.35	1.96	29.87					4
D 2501 (5-1-58)			F	18.95	2.30	23.52					
D 953 (7-31-58)			F	17.45	3.82	23.26					
National Guaranteed Uniformity Dehydrated Alfalfa.....	No	Yes	C	17.00	1.50	27.00					
D 1914 (1-16-58)			F	18.10	1.79	27.65					4
National Dehydrated Alfalfa Meal.....	Yes		C	17.00	1.50	27.00					
D 2433 (6-6-58)			F	18.70	3.34	22.07					
D 889 (6-27-58)			F	17.15	3.47	26.14					
D 2287 (8-14-58)			F	18.40	3.25	24.34					
D 2196 (11-19-58)			F	17.45	2.96	27.02					

NATIONAL BY-PRODUCTS, INC., DES MOINES, IOWA

Green Top 50% Meat & Bone Meal.....	Yes		C	50.00	6.00	3.00					
E 8426 (1-6-58)			F	51.45	13.57	1.36					
D 631 (4-2-58)			F	55.75	10.87	2.34					
D 1281 (3-18-58)			F	55.55	11.38	2.33					
D 1994 (3-21-58)			F	55.00	10.58	1.09					
D 2744 (5-5-58)			F	55.00	9.50	2.50					
E 7286 (7-2-58)			F	56.25	12.43	1.67					
D 3023 (7-21-58)			F	53.40	16.00	1.55					
D 4129 (9-30-58)			F	50.00	13.86	2.45					
D 1367 (9-29-58)			F	56.35	10.40	1.87					

NATIONAL OATS COMPANY, CEDAR RAPIDS, IOWA

Red-3 Hygrade Oat Mill By-Product.....	Yes		C	10.00	3.50	18.00					
D 7130 (11-12-58)			F	11.10	5.08	14.52					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
NATIONAL YEAST CO., INC., ST. OLAF, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Beef & Dairy Supplement Compound A <sup>2</sup> D 101 (11-7-57)	Yes		C	-----	-----	-----	22.50	1.80	0.016	9.00	
			F	-----	-----	-----	22.60	3.38	0.021	6.78	
National Yeast Hog Supplement Special Compound A E 10000 (11-7-57)	Yes		C	-----	-----	-----	22.50	2.10	0.015	9.30	
			F	-----	-----	-----	21.80	3.04	0.027	6.96	
National Mineral Feed Supplement for Hogs D 102 (11-7-57)	No		C	-----	-----	-----	20.50	3.25	0.001	5.50	5, 7
			F	-----	-----	-----	21.00	2.42	0.032	4.10	

NEBRASKA CONSOLIDATED MILLS CO., OMAHA, NEBRASKA

Wheat Bran with Ground Wheat Screenings Not Exceeding Mill Run D 4240 (10-8-58) D 2167 (10-31-58)	Yes		C	14.00	3.00	12.00	-----	-----	-----	-----	
			F	17.55	4.30	9.15	-----	-----	-----	-----	
			F	15.90	4.75	10.67	-----	-----	-----	-----	

THE ADRIAN M. NEIL COMPANY, TAMA, IOWA

Neil's Special Blend 26% Egg Balancer Medicated D 5098 (8-20-58)	Yes		C	26.00	3.50	8.00	5.00	1.60	0.0025	2.00	4, 8
			F	27.85	4.77	8.60	3.60	1.42	0.0013	1.73	
Neil's Special Blend 18% Chick Grower Medicated D 5099 (8-20-58)	Yes		C	18.00	3.50	7.00	-----	-----	-----	-----	
			F	19.95	3.88	6.20	-----	-----	-----	-----	
Neil's Special Blend 36% Dairy Concentrate Medicated D 5101 (8-20-58)	Yes		C	36.00	1.50	7.00	3.70	1.00	0.002	3.00	
			F	38.30	2.70	5.93	3.70	1.17	0.0018	2.36	

Neil's Special Blend 32% Steer Supplement D 5104 (8-20-58)	Yes		C F	32.00 35.30	2.00 3.61	8.00 7.03	3.20 3.10	0.90 1.11	0.0015 0.00099	3.00 2.77	8
Neil's Special Blend Dog Food E 8478 (3-14-58)	No	Yes	C F	18.00 17.25	4.00 4.03	4.00 4.15					2
Neil's Special Blend 36% Dairy Concentrate E 8480 (3-14-58)	No	Yes	C F	36.00 37.40	1.50 2.50	7.00 5.74	3.70 3.50	1.00 1.25	0.002 0.0025	3.00 2.66	
Neil's Special Blend 37% Egg Concentrate E 8481 (3-14-58)	No		C F	37.00 37.35	3.50 4.05	7.50 7.01	5.40 3.90	1.80 1.53	0.0025 0.0029	2.50 2.59	7
Neil's Special Blend 37% Egg Concentrate Medicated D 5097 (8-20-58)	Yes		C F	37.00 38.70	3.50 4.22	7.50 7.75	5.40 3.90	1.80 2.17	0.0025 0.0023	2.50 2.26	
Neil's Special Blend Super 35% Hog Supplement E 8474 (3-14-58) D 5105 (8-20-58)	No	Yes	C F F	35.00 35.95 36.75	2.00 3.37 3.50	9.00 7.55 8.43	4.00 3.60	1.10 1.42	0.0008 0.0008	3.00 2.64	
Neil's Special Blend 16% Pig Starter Medicated E 8475 (3-14-58) D 5096 (8-20-58)	No	Yes	C F F	16.00 17.05 14.75	3.50 4.68 5.23	4.00 3.25 3.51					2a
Neil's Special Blend 35% Pork Maker Supplement E 8477 (3-14-58) D 5103 (8-20-58)	No	Yes	C F F	35.00 37.30 37.25	2.00 2.72 4.06	9.00 5.45 4.97	4.50 3.40 4.10	1.10 1.29 1.45	0.0002 0.0004 0.0006	3.50 2.24 2.92	
Neil's Special Blend 0.022% Iodinated Casein Mix Inc Sow-Lac-Ration E 8479 (3-14-58) D 5102 (8-20-58)	No	Yes	C F F	14.00 16.90 16.00	3.00 4.20 4.27	7.50 5.36 5.73					
Neil's Special Blend 16% Pig Starter and Grower Medicated E 8470 (3-14-58)	No		C F	16.00 16.45	3.50 3.90	4.00 3.18					
Neil's Special Blend 16% Baby Pig Pre-Starter Medicated E 8476 (3-14-58) E 8471 (3-14-58) D 5100 (8-20-58)	No	Yes	C F F F	16.00 17.40 17.30 17.15	3.00 3.90 3.52 3.73	3.50 2.79 2.75 2.77					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
THE ADRIAN M. NEIL COMPANY, TAMA, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Neil's Special Blend 35% Sow & Pig Concentrate	No	Yes	C	35.00	2.50	9.00	4.00	1.10	0.001	3.00	
E 8472 (3-14-58)			F	36.50	2.85	7.79	3.30	1.11	0.00125	2.66	
D 5107 (8-20-58)			F	35.90	3.06	9.09	4.00	1.25	0.0015	2.79	
Neil's Special Blend 40% Hog Concentrate	No	Yes	C	40.00	2.50	7.00	4.00	1.30	0.0007	3.00	
E 8473 (3-14-58)			F	40.45	2.70	5.70					
D 5106 (8-20-58)			F	42.55	2.96	5.84	3.50	1.29	0.00086	2.54	
NEW HARTFORD ELEVATOR CO., NEW HARTFORD, IOWA											
Blue Ribbon Quality 16% Pig Starter	Yes		C	16.00	3.50	4.00					
Medicated D 58 (12-2-57)			F	17.75	3.94	5.30					4
NEW LONDON FARMERS COOP., NEW LONDON, IOWA											
Felco Beef Supplement	Yes		C	35.00	0.50	9.00					
D 488 (12-9-57)			F	36.00	2.02	7.27					
Felco Dairy Supplement	Yes		C	35.00	0.50	8.00					
D 489 (12-9-57)			F	37.00	1.85	6.71					
E 7011 (2-18-58)			F	38.15	1.20	7.19					
E 7090 (5-27-58)			F	36.90	0.80	6.89					
D 2902 (7-21-58)			F	37.00	1.02	6.10					
D 2877 (12-3-58)			F	40.30	1.28	6.47					
Felco Mash Builder	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	
D 490 (12-9-57)			F	39.70	4.83	5.45					
E 7005 (2-18-58)			F	38.85	4.17	6.06					
E 7086 (5-27-58)			F	38.65	4.26	5.96					
D 2875 (12-3-58)			F	39.60	3.35	6.39	5.60	2.31		2.18	

Felco Special Dry Lot Hog Supplement.....	Yes	C	35.00	1.50	9.00					
E 7008 (2-18-58)		F	37.75	3.23	9.00					
E 7088 (5-27-58)		F	36.90	4.00	9.02					
D 329 (10-14-58)		F	38.55	3.75	8.89					
D 2878 (12-3-58)		F	39.05	3.80	8.68					
Felco Special Hog Balancer.....	Yes	C	40.00	1.50	9.00					
E 7009 (2-18-58)		F	41.30	2.21	8.86					2
E 7089 (5-27-58)		F	39.50	3.36	8.06					
D 328 (10-14-58)		F	43.60	3.78	6.72					
D 2879 (12-3-58)		F	43.80	3.06	6.72					
Felco Beef Supplement "B".....	Yes	C	41.00	0.50	9.00					2a
E 7012 (2-18-58)		F	38.75	1.72	6.85					2a
E 7087 (5-27-58)		F	38.30	1.80	7.93					2a
D 2901 (7-21-58)		F	37.80	1.77	6.97					2a
D 2876 (12-3-58)		F	38.30	3.10	7.40					

NEWHALL GRAIN COMPANY, INC., NEWHALL, IOWA

Newhall 40% Hog Balancer.....	Yes	C	40.00	2.00	9.00					
D 6908 (12-4-58)		F	41.00	4.03	7.63					
Newhall 28% Pig & Sow Meal.....	Yes	C	28.00	3.00	9.00					
D 6909 (12-4-58)		F	29.90	4.29	7.21					
Newhall Mineral.....	Yes	C				25.00	4.00	0.002	20.00	
D 6910 (12-4-58)		F				22.20	5.92	0.0018	17.94	
Newhall 32% Dairy Concentrate.....	Yes	C	32.00	1.00	8.00					
D 6904 (12-4-58)		F	35.95	1.78	7.44					
Newhall 37% Poultry Concentrate.....	Yes	C	37.00	3.00	8.00	5.00	1.00		2.00	
D 6905 (12-4-58)		F	38.35	4.13	5.86	4.40	1.49		2.64	6
Newhall Cafeteria Grain Balancer.....	Yes	C	26.00	4.00	9.00					
D 6906 (12-4-58)		F	27.65	4.84	7.98					
Newhall "Always Fresh" 34% Steer Concentrate.....	Yes	C	34.00	1.00	9.00					
D 6907 (12-4-58)		F	35.00	2.09	8.54					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
NIE GRAIN & FEED CO., INC., MECHANICSVILLE, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Nie's Blue Ribbon Steer Supplement D 3968 (6-25-58)	Yes		C F	35.00 36.85	1.00 2.89	9.00 7.23					
Nie's Blue Ribbon 36% Dairy Concentrate D 3969 (6-25-58)	Yes		C F	36.00 38.85	2.00 2.14	7.00 6.41					
Nie's Blue Ribbon 30% Sow & Pig Supplement D 3970 (6-25-58)	Yes		C F	30.00 31.80	2.75 3.54	8.00 7.81					
Nie's Blue Ribbon 40% Hog Concentrate D 3971 (6-25-58)	Yes		C F	40.00 41.65	2.50 3.43	7.00 6.38					
Nie's Blue Ribbon BC45 Hog Concentrate Medicated D 3964 (6-25-58)	Yes		C F	45.00 45.30	4.00 6.12	6.00 6.14					
Nie's Blue Ribbon 18% Egg Mash D 3965 (6-25-58)	Yes		C F	18.00 18.75	3.75 3.90	7.00 5.99					
0.0022% D.E.S. Mix Inc In Nie's Blue Ribbon Steer Supplement D 3966 (6-25-58)	Yes		C F	35.00 37.85	1.00 2.69	9.00 7.21					
Nie's Blue Ribbon 32% Egg & Breeder Concentrate D 3967 (6-25-58)	Yes		C F	32.00 33.85	3.50 5.08	9.00 6.98					
NISSEN & SON PACKING CO., WEBSTER CITY, IOWA											
Nissen's Meat & Bone Meal D 3488 (6-25-58)	Yes		C F	50.00 52.10	6.00 8.46	3.00 1.42					



NIXON & COMPANY, OMAHA, NEBRASKA

Nixon's Pullet Developer.....	Yes	C	18.00	3.50	7.00				
E 8970 (11-29-57)		F	20.50	4.10	5.79				
D 2205 (6-26-58)		F	20.55	4.18	5.75				
D 5914 (9-22-58)		F	19.15	3.72	5.85				
D 5867 (11-6-58)		F	20.55	4.21	5.94				
Nixon's Pig & Hog Worming Feed.....	Yes	C	16.00	2.50	7.50				
E 8971 (11-29-57)		F	19.00	3.65	6.05				
Nixon's Hog Umph Complete Grower-Fattener.....	Yes	C	14.50	3.00	5.00				
E 8974 (11-29-57)		F	15.85	3.34	3.86				
D 5906 (9-22-58)		F	15.00	3.37	5.54				
Nixon's 16% Dairy Ration.....	Yes	C	16.00	1.50	12.00				
E 8975 (11-29-57)		F	22.85	3.25	10.06				
E 2698 (6-26-58)		F	21.90	3.33	9.98				
D 5912 (9-22-58)		F	17.95	2.86	7.68				
Lincoy Brand Cattle Pellets.....	Yes	C	40.00	1.00	9.00				
E 8961 (11-29-57)		F	40.75	1.40	7.85				
E 8963 (11-29-57)		F	41.80	1.30	6.32				
D 2551 (4-29-58)		F	41.55	2.20	6.45				
Nixon's 0.0011% D.E.S. Mix Inc In Supplement A Brand Cattle Pellets.....	Yes	C	32.00	1.50	9.00				
E 8967 (11-29-57)		F	35.70	2.10	6.01				
D 5246 (8-13-58)		F	32.95	2.41	7.85				
Nixon Creep Cake Brand Fitter Cake.....	Yes	C	18.00	3.00	8.00				
E 8968 (11-29-57)		F	20.90	3.35	6.26				
Nixon's "Pig Pusher H" Pig Concentrate Medicated.....	Yes	C	27.00	4.00	6.00				
E 8969 (11-29-57)		F	28.65	4.25	5.38				
Nixon 20% Laying Mash.....	Yes	C	20.00	3.00	8.00				
E 8952 (11-29-57)		F	23.60	4.11	7.35				
E 2687 (6-26-58)		F	22.55	4.50	6.63				
D 4917 (7-8-58)		F	21.50	3.43	6.03				
D 5860 (11-6-58)		F	23.20	3.50	6.79				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 NIXON & COMPANY, OMAHA, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Nixon 16% Complete Layer Ration	Yes		C	16.00	3.00	8.00					
E 8953 (11-29-57)			F	18.60	4.00	4.00					
D 2204 (6-26-58)			F	18.90	4.04	5.85					
D 5868 (11-6-58)			F	18.05	3.94	6.01					
Nixon Sweet Starter "Pig Pellet H" Medicated	Yes		C	18.00	4.00	4.00					
E 8955 (11-29-57)			F	19.30	3.90	2.50					
E 2693 (6-26-58)			F	17.65	4.01	2.12					2
Nixon Medicated Feed Mixture	Yes		C	16.00	3.00	8.00					
E 8956 (11-29-58)			F	19.30	4.52	5.30					
D 5922 (9-22-58)			F	19.20	4.63	5.10					
Nixon's 0.0022% D.E.S. Mix Inc In Linsced Oil Meal	Yes		C	34.00	1.00	10.00					
E 8957 (11-29-57)			F	36.30	1.32	8.95					
Nixon Creep Cake Brand Grower Cake	Yes		C	15.00	3.00	8.00					
E 8958 (11-29-57)			F	19.25	3.56	7.80					
E 2695 (6-26-58)			F	16.60	3.69	6.18					
D 5907 (9-22-58)			F	20.00	3.38	5.78					
D 5852 (11-6-58)			F	19.55	3.75	6.17					
Nixon 0.0022% D.E.S. Mix Inc In 3 in 1 Triple Value Lincoy Cattle Pellets	Yes		C	40.00	1.00	9.00					
E 8960 (11-29-57)			F	41.35	1.35	7.50					
E 2691 (6-26-58)			F	42.10	1.11	7.92					
D 4915 (7-8-58)			F	42.20	1.71	7.13					
Nixon's 0.0011% D.E.S. Mix Inc In Beef Pellets	Yes		C	22.00	2.00	12.00					
D 5908 (9-22-58)			F	26.35	2.25	8.10					
Nixon's 0.0011% D.E.S. Mix Inc In Feed Lot Brand Pellets	Yes		C	32.00	2.00	12.00					
D 5923 (9-22-58)			F	35.15	1.26	7.63					3

3 In 1 Triple Value "Lincoy" Cattle Pellets... D 5855 (11-6-58)	Yes	C F	40.00 40.50	1.00 3.35	9.00 8.40				
Nixon's 36% Supplement for Poultry Medicated D 5865 (11-6-58)	Yes	C F	36.00 37.20	2.50 3.34	7.50 6.49				
Nixon Poultry 26% Layer Crumbles E 9351 (10-3-57) D 4918 (7-8-58) E 8954 (11-29-57) E 2689 (6-26-58) D 5916 (9-22-58) D 5864 (11-6-58)	Yes	C F F F F F	26.00 27.00 26.80 27.10 28.65 28.50	2.00 4.43 3.88 4.11 3.93 3.97	8.00 7.73 7.25 7.65 7.80 8.56				4
Nixon Pig Pusher E 9352 (10-3-57) D 4919 (7-8-58)	Yes	C F F	27.00 28.40 28.05	4.00 5.09 4.32	6.00 5.74 5.57				
Nixon 40% Hog Supplement E 9354 (10-3-57)	Yes	C F	40.00 40.65	2.00 2.80	8.00 5.20				
Nixon Dairy Ration A E 9355 (10-3-57) D 2206 (6-26-58) D 5911 (9-22-58) D 5856 (11-6-58)	Yes	C F F F F	30.00 31.90 36.20 34.35 33.00	1.50 2.13 2.42 2.35 2.10	9.00 7.11 6.75 7.79 6.66				
Lincoy Cattle Pellets E 9358 (10-8-57) D 5904 (9-22-58)	Yes	C F F	40.00 40.90 39.85	1.00 1.58 2.48	9.00 8.36 7.59				
Nixon Feed Lot Mineral E 8962 (11-29-57) D 5902 (9-22-58)	Yes	C F F				29.00 25.60 27.50	2.50 3.14 2.74	0.015 0.024 0.012	10.00 9.78 6.80
Nixon Range Mineral Feed E 8965 (11-29-57) D 5903 (9-22-58)	Yes	C F F				22.00 18.80 19.60	10.00 10.60 9.92	0.015 0.014 0.021	10.80 9.42 11.40
Nixon 60% Digester E 8951 (11-29-57)	Yes	C F	60.00 63.25	6.00 7.78	3.00 2.87				
Nixon 32% Starter-Grower Supplement D 5913 (9-22-58) D 5866 (11-6-58)	Yes	C F F	32.00 33.50 31.95	2.00 2.61 2.66	8.00 6.25 6.75	4.00 4.90 5.10	1.50 1.98 2.10	0.0025 0.0018 0.0009	1.50 2.01 2.01

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
NIXON & COMPANY, OMAHA, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Lincoy Protein Blox A	Yes		C	34.00	0.50	7.00	2.00	1.50	0.0015	10.80	2a, 4
D 5915 (9-22-58)			F	31.60	2.01	8.92	2.10	1.28	0.0018	7.70	
Nixon's Cafeteria Hog Supplement Medicated	Yes		C	35.00	1.00	8.00	4.00	1.00	0.001	3.50	2a, 4, 5, 6
D 5918 (9-22-58)			F	33.35	1.63	8.72	4.60	1.13	0.0011	4.22	
D 5861 (11-6-58)			F	39.25	1.73	7.57	1.90	0.84	0.0013	2.61	
Nixon's Supplement Cattle Pellets D	Yes		C	32.00	1.50	9.00					4
D 5919 (9-22-58)			F	31.90	2.49	9.70					
D 5862 (11-6-58)			F	33.30	1.77	5.64					
Nixon's Sweet Starter Pig Pellet A Medicated	Yes		C	18.00	4.00	4.00					
D 4921 (7-8-58)			F	19.65	3.74	2.59					
D 5924 (9-22-58)			F	22.45	3.94	3.20					
D 5859 (11-6-58)			F	21.10	3.76	2.10					
Nixon 60% Digester Tankage	Yes		C	60.00	6.00	3.00					
D 2212 (6-26-58)			F	60.95	7.72	2.45					
Nixon's Bred Sow Ration	Yes		C	30.00	3.00	9.00					
D 5905 (9-22-58)			F	31.60	4.12	9.06					
D 5854 (11-6-58)			F	30.00	4.05	9.21					
Nixon's Medicated Feedlot Starter Pellets	Yes		C	18.00	2.00	6.00					
D 5909 (9-22-58)			F	20.25	2.86	5.60					
Nixon Chick Grower Medicated	Yes		C	18.00	3.50	6.50					
D 2202 (6-26-58)			F	21.55	4.34	6.77					
Nixon 32% Layer Supplement	Yes		C	32.00	2.00	8.00	4.50	1.50	0.0025	1.75	8
D 2203 (6-26-58)			F	33.45	4.25	7.28					
D 5917 (9-22-58)			F	31.75	3.98	6.20	3.50	1.53	0.0016	1.67	
D 5863 (11-6-58)			F	32.00	3.52	7.70					
Nixon's Supplement A Cattle Pellets	Yes		C	32.00	1.50	9.00					
D 2207 (6-26-58)			F	35.75	1.77	7.31					

Nixon's 40% Hog Supplement Medicated	Yes		C	40.00	2.00	8.00			
D 2208 (6-26-58)			F	42.50	2.17	5.26			
D 4908 (7-8-58)			F	40.55	2.46	6.58			
Nixon's Medicated Feed Mixture	Yes		C	16.00	3.00	8.00			
D 2210 (6-26-58)			F	20.50	4.28	5.66			
Nixon's 0.0022% D.E.S. Mix Inc In 32			C	32.00	1.50	9.00			
Supplement A Brand Cattle Pellets 32	Yes		F	34.30	1.85	7.65			
D 2209 (6-26-58)									
Trader Vitamin A & D Feed Lot Concentrate	No	Yes	C	10.00	3.00	10.00			
D 2211 (6-26-58)			F	13.45	3.52	10.24			
Nixon's "Pig Pusher" Bred Sow & Pig			C	27.00	4.00	6.00			
Concentrate Medicated	Yes		F	26.85	4.46	5.63			
D 4920 (7-8-58)			F	28.90	4.16	4.96			
D 5857 (11-6-58)									
Nixon Creep Cake Brand Fitter Cake	Yes		C	18.00	3.00	8.00			
E 2696 (6-26-58)			F	18.40	3.80	6.42			
Nixon 22 Beef Pellets	Yes		C	22.00	2.00	12.00			
E 2697 (6-26-58)			F	25.35	2.38	9.49			
D 5851 (11-6-58)			F	26.00	2.97	14.39			4
Nixon Medicated Conditioner	No	Yes	C	18.00	2.00	6.00			
D 2201 (6-26-58)			F	21.30	2.59	5.67			
Nixon "Pig Pusher" Bred Sow & Pig			C	27.00	4.00	6.00			
Concentrate	Yes		F	28.50	4.74	5.20			
E 2692 (6-26-58)			F	30.65	4.14	5.10			
D 5910 (9-22-58)									
Nixon 40% Supplement	Yes		C	40.00	2.00	8.00			
D 2548 (4-29-58)			F	40.35	2.95	5.16			
D 4916 (7-8-58)			F	38.70	2.14	5.58			2a
D 5920 (9-22-58)			F	40.75	2.14	6.72			
D 5858 (11-6-58)			F	40.40	2.46	5.45			
Nixon Chick Starter Medicated	Yes		C	20.00	3.50	6.00			
E 2688 (6-26-58)			F	22.10	4.23	5.09			
D 4922 (7-8-58)			F	22.70	6.14	5.50			
Nixon 0.0011% D.E.S. Mix Inc In 3 in 1			C	40.00	1.00	9.00			
Triple Value Lincoy Cattle Pellets	Yes		F	38.30	1.55	7.90			2a
E 2690 (6-26-58)									

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
NIXON & COMPANY, OMAHA, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Sweet Soo 20% Protein Cattle Fattener.....	Yes		C	20.00	1.00	11.00					
E 2694 (6-26-58)			F	21.25	1.31	6.08					
D 5247 (8-13-58)			F	22.40	1.18	6.98					
D 5901 (9-22-58)			F	22.70	1.57	5.87					
D 5853 (11-6-58)			F	21.45	1.20	6.07					

NOPCO CHEMICAL COMPANY, HARRISON, NEW JERSEY

Super Drex (75) Source of Vitamin D <sub>2</sub> .....	Yes		C	6.00	18.00	5.00					
E 9001 (2-20-58)			F	21.35	31.28	9.15					4

NORA SPRINGS MILL, NORA SPRINGS, IOWA

Just Right 35% Pig & Sow Supplement.....	Yes		C	35.00	2.50	9.50	3.00	1.00	0.004	2.50	
E 8175 (11-12-57)			F	39.95	3.27	8.18					
D 744 (4-24-58)			F	38.55	3.05	7.65					
D 6384 (10-30-58)			F	37.55	3.21	8.86	2.50	0.98	0.0014	2.64	8
Just Right 42% Hog Supplement.....	Yes		C	42.00	4.00	6.50					
E 8177 (11-12-57)			F	44.40	3.16	6.10					
D 6385 (10-30-58)			F	42.80	3.73	6.58					3
Just Right 32% Chick Concentrate.....	Yes		C	32.00	3.00	8.00					
D 745 (4-24-58)			F	35.65	3.20	8.00					
Just Right 20% Chick Starter (Hy-Energy).....	Yes		C	20.00	4.00	5.00					
D 746 (4-24-58)			F	22.55	4.20	6.15					4
Just Right 42% Hog Supplement.....	Yes		C	42.00	2.50	6.50					
D 747 (4-24-58)			F	42.90	3.15	6.03					

Just Right 32% Poultry Concentrate.....	Yes	C	32.00	3.00	8.00	6.00	1.00	0.005	2.50	
D 748 (4-24-58)		F	36.70	3.65	7.15	5.60	1.35	0.0034	2.84	
D 6383 (10-30-58)		F	36.40	2.60	7.98	5.50	1.32	0.0031	2.77	3, 8

THE NORTH AMERICAN TRADING & IMPORT CO., PHILADELPHIA 2, PENNSYLVANIA

Natico Dry Feeding Cane Molasses Product.....	Yes	C	4.00	0.10	1.00					
D 2460 (6-5-58)		F	6.00	0.42	0.16					

NORTH DAKOTA MILL & ELEVATOR, GRAND FORKS, NORTH DAKOTA

Dakota Maid Wheat Standard Middlings.....	Yes	C	16.00	3.50	9.50					
D 2401 (5-8-58)		F	16.05	5.22	10.32					4
Dakota Maid Standard Wheat Middlings with Ground Screenings.....	Yes	C	15.00	3.50	9.50					
D 2430 (6-6-58)		F	16.50	5.71	9.73					
D 2036 (8-25-58)		F	19.75	6.12	7.32					

NORTH IOWA CO-OP PROCESSING ASSOCIATION, MASON CITY, IOWA

Felco 44% Solvent Extracted Soybean Oil Meal..	Yes	C	44.00	0.50	7.00					
D 750 (5-5-58)		F	43.15	0.95	7.67					
D 777 (8-18-58)		F	46.15	1.58	6.66					
D 6398 (11-3-58)		F	45.95	1.42	5.22					4, 2

NORTHWEST BREWERS' YEAST, INC., ST. PAUL 7, MINNESOTA

Brewer's Dried Yeast.....	Yes	C	40.00	0.70	2.00					
D 3536 (3-24-58)		F	42.95	0.65	1.17					

NORTHWESTERN DISTRIBUTING CO., INC., MASON CITY, IOWA

Mor-Grain Chick Starter Medicated.....	Yes	C	20.00	3.00	6.50					
D 896 (6-27-58)		F	20.80	4.01	6.38					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 NORTHWESTERN DISTRIBUTING CO., INC., MASON CITY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Mor-Gain Chick Grower Medicated D 895 (6-27-58)	Yes		C F	18.00 19.40	3.00 4.21	7.50 6.35					
Mor-Gain 32% Cattle Balancer D 894 (6-27-58)	Yes		C F	32.00 35.90	2.00 2.05	10.00 8.10	5.00 4.40	1.00 1.46	0.0007 0.0007	3.50 3.20	
Mor-Gain Hog Supplement D 891 (6-27-58)	Yes		C F	35.00 35.15	2.50 3.41	9.00 7.51	5.00 4.00	1.00 1.45	0.0007 0.0011	3.00 2.40	
Mor-Gain Dairy Balancer D 893 (6-27-58)	Yes		C F	34.00 34.55	2.00 2.37	10.00 8.63	5.00 3.60	1.50 1.23	0.0007 0.0009	3.50 2.30	7
Mor-Gain Mash Maker D 887 (6-27-58)	Yes		C F	34.00 36.65	2.50 4.40	8.00 7.68					
Mor-Gain Swine A-V Concentrate D 1269 (3-18-58)	Yes		C F	20.00 21.80	3.00 4.00	8.50 16.70					4
Mor-Gain Poultry A-V Concentrate D 1270 (3-18-58)	Yes		C F	20.00 23.70	3.00 2.84	8.00 13.50					4
Mor-Gain 0.0022% D.E.S. Mixture Inc In 32% Cattle Balancer D 881 (6-27-58)	Yes		C F	32.00 34.30	2.00 2.85	10.00 8.42	5.00 3.20	1.00 1.26	0.0007 0.0007	3.50 2.10	
Mor-Gain Pig Grower Balancer Medicated D 882 (6-27-58)	Yes		C F	35.00 36.85	2.50 3.83	9.00 7.18	4.00 4.00	1.25 1.37	0.0007 0.0011	2.50 2.50	
Mor-Gain 20% Layer & Breeder Mash D 883 (6-27-58)	Yes		C F	20.00 21.15	3.00 3.73	8.00 7.11					
Mor-Gain 26% Grain Balancer D 884 (6-27-58)	Yes		C F	26.00 28.45	2.50 4.22	9.00 8.90	4.50 3.80	1.00 1.19	0.0005 0.00115	2.50 1.70	
Mor-Gain Sow Supplement D 885 (6-27-58)	Yes		C F	35.00 36.85	3.00 3.66	9.00 7.88	5.00 4.50	1.50 1.49	0.0005 0.0011	2.50 2.30	



Mor-Gain Special Egg Mash..... D 886	(6-27-58)	Yes	C	18.00	3.00	7.50				
			F	19.60	3.87	6.88				

NORTHWOOD CO-OP ELEVATOR, NORTHWOOD, IOWA

Felco 26% No Grain Layer-Breeder..... D 812	(4-2-58)	Yes	C	26.00	2.00	9.00				
			F	30.20	3.53	7.92				
Felco Special Dry Lot Hog Supplement..... D 813	(4-2-58)	Yes	C	35.00	1.50	9.00				
A 1714	(10-2-58)		F	37.15	3.06	8.77				
			F	37.75	4.46	9.34				
Felco Mash Builder..... A 1716	(10-2-58)	Yes	C	38.00	3.00	8.00				
			F	40.15	4.93	6.27				
Felco Beef Supplement..... A 1717	(10-2-58)	Yes	C	35.00	0.50	9.00				
			F	38.40	1.69	7.57				
Felco Dairy Supplement..... D 808	(4-2-58)	Yes	C	35.00	0.50	8.00				
A 1718	(10-2-58)		F	36.55	1.16	6.92				
			F	37.05	1.81	6.60				
Felco 20% Layer Breeder..... D 809	(4-2-58)	Yes	C	20.00	2.00	8.00				
A 1713	(10-2-58)		F	24.55	3.23	7.55				
			F	23.85	3.36	7.52				
Felco Sow Supplement..... D 810	(4-2-58)	Yes	C	32.00	2.00	9.00				
			F	35.05	4.35	8.24				
Felco Special Hog Balancer..... D 811	(4-2-58)	Yes	C	40.00	1.50	9.00				
A 1715	(10-2-58)		F	40.25	3.38	7.77				
			F	43.40	3.43	6.89				

NULAC YEASTON COMPANY, JEFFERSON, IOWA

Nu-Lac Special Poultry Mixture..... D 1936	(3-17-58)	Yes	C	18.00			19.00	1.50	0.040	11.00	
			F	22.05			17.60	2.06	0.076	8.10	
Mor Lac Medicated Pig & Hog Supplement..... D 1940	(3-17-58)	No	Yes	C	35.00	3.00	5.00	10.00	2.50	0.004	2.00
				F	39.20	5.44	3.90	6.90	2.21	0.010	1.63
Mor-Lac Mineral & Protein Supplement Medicated..... D 1937	(3-17-58)	Yes	C	17.00	2.00	5.00	15.00	3.00	0.25	3.00	
			F	17.50	2.50	6.31	11.00	3.36	0.0354	2.61	

COMMERCIAL FEEDS



D 5520	(9-10-58)		F	16.80	3.69	3.37					
D 4472	(7-22-58)		F	18.00	3.00	2.95					
D 5611	(12-2-58)		F	18.30	3.61	2.34					
Nutrena 40% Hog Concentrate.....		Yes	C	40.00	1.50	7.00					2a
E 8977	(12-6-57)		F	38.75	1.34	5.57					
D 4059	(6-27-58)		F	40.00	2.66	5.76					2a
D 3994	(7-3-58)		F	39.00	1.69	6.09					
D 5519	(9-10-58)		F	39.10	1.69	5.94					
Nutrena Fifty Grand Complete Egg Ration.....		Yes	C	18.00	7.00	4.00					
E 8978	(12-6-57)		F	22.00	7.21	3.51					
Nutrena Creep-20 Master Pig Starter		Yes	C	20.00	3.00	4.50					
Medicated .....			F	20.30	4.40	2.44					
E 8980	(12-6-57)		F	20.00	4.82	2.67					
D 3981	(7-3-58)		F	21.00	4.78	2.66					
D 4470	(7-22-58)										
Nutrena-Shoat 40 Concentrate.....		Yes	C	40.00	1.00	9.00	4.00	1.25	0.0008	2.50	2
E 8981	(12-6-57)		F	39.50	3.48	5.88					
D 2512	(5-1-58)		F	42.10	3.45	5.45					
D 3268	(6-17-58)		F	40.30	2.91	6.75					
D 4062	(6-27-58)		F	41.95	3.44	5.13	3.70	1.67	0.0011	2.11	2a
D 3989	(7-3-58)		F	38.75	2.65	7.29					
D 4469	(7-22-58)		F	40.85	2.72	6.35					
D 5549	(9-24-58)		F	42.00	1.92	6.76	3.00	1.21	0.0011	2.26	
Nutrena Beef Cake 41.....		Yes	C	41.00	2.00	9.00					
E 8982	(12-6-57)		F	42.30	1.85	8.22					
Nutrena 20% Egg Feed.....		Yes	C	20.00	4.00	6.50					4
E 8983	(12-6-57)		F	21.10	4.55	7.40					4
D 2523	(5-1-58)		F	21.40	4.20	7.35					
D 3269	(6-17-58)		F	20.65	6.46	6.50					4
D 4056	(6-27-58)		F	21.00	3.95	7.30					4
D 3988	(7-3-58)		F	21.65	4.11	7.31					
D 5206	(8-5-58)		F	20.35	5.30	6.50					
Nutrena 27% Grain Balancer.....		Yes	C	27.00	4.00	8.00					
E 8984	(12-6-57)		F	27.05	4.29	8.00					3
D 2510	(5-1-58)		F	27.50	2.76	8.00					
D 4058	(6-27-58)		F	29.50	4.62	7.16					3
D 4000	(7-3-58)		F	27.85	3.47	8.01					
D 5548	(9-24-58)		F	28.10	4.17	8.00					
D 5609	(12-2-58)		F	27.95	4.43	8.09					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 NUTRENA MILLS, INC., MINNEAPOLIS, MINNESOTA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Nutrena Creep-20 Master Pig Starter Medicated	Yes		C	20.00	3.00	4.50					
D 2521 (5-1-58)			F	20.25	4.70	2.86					
D 4935 (7-14-58)			F	20.65	4.63	2.41					
D 5509 (9-2-58)			F	21.30	4.70	2.77					
D 5522 (9-10-58)			F	21.00	4.83	2.69					
D 5542 (9-24-58)			F	20.95	4.46	2.73					
Nutrena Pullet Grower Medicated	Yes		C	18.00	2.50	8.00					
D 2522 (5-1-58)			F	18.75	4.21	7.13					
D 3294 (6-25-58)			F	18.60	4.68	6.45					
D 4057 (6-27-58)			F	19.35	4.34	6.06					
D 3987 (7-3-58)			F	19.90	3.80	7.65					
D 5208 (8-5-58)			F	19.30	3.88	7.11					
Nutrena Medicated (RX)	Yes		C	20.00	4.00	6.00					
D 3290 (6-23-58)			F	20.00	5.05	5.48					
Nutrena 0.0022% D.E.S. Mix Inc In Beef-cake-STB-32	Yes		C	32.00	2.00	9.00					
D 3001 (7-3-58)			F	31.85	3.62	9.63					4
Nutrena Special Turkey Range Feed	Yes		C	33.00	2.00	8.00	4.00	1.00	0.0008	3.00	
D 3978 (7-3-58)			F	33.75	4.07	7.07	3.70	1.50	0.0013	1.70	
Nutrena Turkey Complete Developer	Yes		C	20.00	3.00	6.00					
D 3983 (7-3-58)			F	20.15	3.47	4.68					
Nutrena Turkey Starter	Yes		C	28.00	2.50	8.00					
D 3985 (7-3-58)			F	29.70	3.09	6.10					
Nutrena Rabbit Pellets	Yes		C	16.00	2.50	15.00					
D 3990 (7-3-58)			F	17.90	3.13	15.84					4

Nutrena 10% Hog Finisher Medicated	Yes	C	10.00	3.50	3.00					
D 502 (1-22-58)		F	12.20	3.77	2.60					
D 3986 (7-3-58)		F	10.10	3.65	2.85					
D 6035 (11-13-58)		F	12.45	3.88	3.21					
Nutrena Sweetflow-32 Dairy Supplement	Yes	C	32.00	2.50	8.00	2.25	1.00	0.0006	1.50	
D 2508 (5-1-58)		F	35.10	3.20	5.28					8
D 3997 (7-3-58)		F	32.00	3.47	7.14	2.00	1.70	0.0004	1.40	
D 5229 (8-12-58)		F	35.30	3.54	6.44	2.40	1.45	0.0009	1.50	
Nutrena Chick Starter Medicated	Yes	C	20.00	2.50	7.00					
D 2511 (5-1-58)		F	22.25	3.20	6.12					
D 4936 (7-14-58)		F	21.65	3.55	6.25					
D 5209 (8-5-58)		F	22.90	3.74	7.00					
Nutrena Sow-30 Supplement	Yes	C	30.00	2.00	10.00	4.00	1.25	0.0008	2.50	
D 2520 (5-1-58)		F	30.75	3.12	9.52					
D 3992 (7-3-58)		F	31.65	2.62	9.81	2.80	1.60	0.0008	2.19	
D 5525 (9-10-58)		F	30.80	3.40	8.96	3.60	1.48	0.0017	2.61	2a
D 5543 (9-24-58)		F	28.30	2.76	9.64	2.90	1.42	0.00087	2.46	
D 5610 (12-2-58)		F	30.10	3.58	8.60	3.50	1.78	0.0007	2.82	
Nutrena Beef Cake STB-32	Yes	C	32.00	2.00	9.00					2a, 4
E 8985 (12-6-57)		F	30.85	2.08	10.37					
Nutrena Sweet-Flow 41 Dairy Concentrate	Yes	C	41.00	1.50	6.00					2
E 8986 (12-6-57)		F	40.60	1.71	6.20					
Nutrena 38% Poultry Concentrate	Yes	C	38.00	4.00	7.00	4.50	1.75	0.0008	2.50	
E 8987 (12-6-57)		F	39.15	4.31	6.95					
D 2509 (5-1-58)		F	39.55	3.83	6.50					
D 4060 (6-27-58)		F	38.60	4.70	6.31	3.60	2.02	0.0008	2.40	
D 5521 (9-10-58)		F	39.00	5.03	6.86	2.60	1.30	0.00083	1.44	7
Nutrena Shoat-14 Medicated	Yes	C	14.00	3.50	4.50					
D 501 (1-22-58)		F	15.65	3.75	4.41					4
D 3979 (7-3-58)		F	15.30	3.84	5.48					
D 5228 (8-12-58)		F	14.95	3.72	4.86					4
D 5541 (9-24-58)		F	16.35	3.73	4.87					
D 6033 (11-13-58)		F	15.20	3.90	4.72					
Nutrena 35% Beef Supplement	Yes	C	35.00	1.00	8.50					2a, 4
D 3998 (7-3-58)		F	33.00	2.92	9.32					
Nutrena 0.0022% D.E.S. Mix Inc In Beefcake-STB-41	Yes	C	41.00	2.00	9.00					
D 3999 (7-3-58)		F	40.90	3.02	8.96					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 NUTRENA MILLS, INC., MINNEAPOLIS, MINNESOTA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Nutrena Turkey Starter-Grower..... D 3982 (7-3-58)	Yes		C F	24.00 24.80	2.50 3.88	4.50 4.87					
Caf-O-Lite Grower Supplement Pellets..... D 5207 (8-5-58)	Yes		C F	20.00 20.85	2.50 3.78	8.00 6.11					
Nutrena Complete Egg Ration..... D 3991 (7-3-58)	Yes		C F	16.00 18.05	4.00 4.80	6.00 6.31					
Nutrena Turkey Complete Breeder..... D 3993 (7-3-58)	Yes		C F	18.00 20.55	2.50 4.35	8.00 6.12					
Nutrena Beefcake-22 HM..... D 3995 (7-3-58)	Yes		C F	22.00 22.65	2.00 3.53	10.00 9.13					
35% Hog Supplement..... D 3996 (7-3-58)	Yes		C F	35.00 36.10	2.00 2.13	9.00 6.52					

AL NUZUM SUPPLY CO., BAXTER, IOWA

AnSCO Pig-E-Pep Medicated..... E 3334 (4-2-58)	Yes		C F	20.00 20.30	6.00 5.77	2.00 1.91					
AnSCO 16% Fat-Kwik Medicated..... E 3335 (4-2-58) D 5167 (11-5-58)	Yes		C F F	16.00 17.05 17.30	3.20 2.86 3.38	4.50 4.01 3.05					3
AnSCO 32% Dairy..... E 3336 (4-2-58)	Yes		C F	32.00 32.65	2.00 2.47	10.00 8.20	3.00 2.80	0.70 0.88	0.0006 0.001	1.50 1.50	
AnSCO 36% Breeder Weaner Concentrate Medicated..... E 3338 (4-2-58) D 5175 (11-5-58) D 5176 (11-5-58)	Yes		C F F F	36.00 36.35 36.00 36.40	2.75 2.75 3.84 4.00	6.00 5.78 5.94 5.90					

AnSCO 45% Hog & Breeder Mixentrate..... Yes C 45.00 4.30 3.00 9.00 2.20 0.002 2.50

Medicated AnSCO 45% Hog & Breeder Mixentrate E 3330 (4-2-58)	Yes		C	45.00	4.30	3.00	9.00	2.20	0.002	2.50	6
			F	45.00	6.54	2.62	8.50	2.58	0.002	3.11	
AnSCO 16% Pig Pusher with Vitamins Calculated (4-2-58)	Yes		C	16.00	4.00	4.20					
E 3331 (4-2-58)			F	17.15	5.40	3.11					
D 5174 (11-5-58)			F	19.85	5.11	2.05					
AnSCO 26% Layer and Breeder Mash E 3332 (4-2-58)	Yes		C	26.00	3.00	8.00	3.50	1.40	0.0007	1.50	2a
D 5165 (11-5-58)			F	28.80	3.87	6.92	3.20	1.48	0.0009	1.53	
			F	25.00	4.08	6.80	3.50	1.57	0.0016	1.37	
AnSCO 45% Dairy Concentrate E 3333 (4-2-58)	Yes		C	45.00	3.70	6.50					3
			F	45.30	3.00	4.90					
AnSCO 0.0022% D.E.S. Mix Inc In 35% Beef Supplement D 5171 (11-5-58)	Yes		C	35.00	1.00	6.50					2
			F	34.20	2.48	5.68					
AnSCO 32% Super Grow Medicated D 5172 (11-5-58)	No	Yes	C	32.00	2.50	8.50					
			F	35.45	2.70	6.79					
AnSCO 35% Beef Supplement D 5173 (11-5-58)	Yes		C	35.00	1.80	6.50					1a
			F	36.35	2.66	5.19					
AnSCO Chick Mixer Medicated D 5187 (11-5-58)	Yes		C	43.00	3.50	5.00					2a
			F	39.45	7.48	4.97					
AnSCO 42% Hog Supplement Medicated E 3339 (4-2-58)	Yes		C	42.00	3.00	5.00	5.00	1.60	0.001	2.50	3
D 5186 (11-5-58)			F	42.25	2.62	4.24					
			F	42.20	2.74	3.56	5.10	1.92	0.0016	2.64	
AnSCO 32% Super-Grow Cattle Supplement Medicated E 3340 (4-2-58)	Yes		C	32.00	3.00	8.50					2a
			F	31.25	3.31	8.13					
AnSCO 40% Poultry Mixer E 3337 (4-2-58)	No	Yes	C	40.00	4.25	6.50	8.00	2.50	0.002	3.00	
D 5166 (11-5-58)			F	40.00	7.05	6.43	6.10	2.58	0.002	2.97	
			F	40.50	8.28	5.42	5.90	2.42	0.002	2.77	
AnSCO Pig Forty E 3325 (4-2-58)	No	Yes	C	40.00	4.00	5.50					
			F	41.20	4.78	4.86					
AnSCO 30% Iowa-Purdue Type Super-Grow Cattle Supplement Medicated E 3323 (4-2-58)	No	Yes	C	30.00	3.50	10.50	2.30	1.20	0.001	1.80	3
D 5168 (11-5-58)			F	29.80	4.56	9.97	2.40	1.24	0.0012	1.60	
			F	31.50	2.67	8.31	2.50	1.55	0.0087	1.29	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

AL NUZUM SUPPLY CO., BAXTER, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
AnSCO No. 37-73 Hog Mixer..... D 2722 (4-30-58)	Yes		C F	37.00 39.15	4.50 3.60	3.60 3.80					3
AnSCO 16% Pig Pusher with Vitamins Kalkulated Medicated..... D 5169 (11-5-58)	Yes		C F	16.00 16.30	4.00 5.17	4.20 2.96					
AnSCO 32% Dairy..... D 5170 (11-5-58)	Yes		C F	32.00 33.30	3.00 2.72	9.00 6.40					1a
AnSCO 35% Beef Supplement Pellets..... E 3321 (4-2-58)	Yes		C F	35.00 35.95	1.00 3.07	6.50 5.60	3.00 2.60	0.90 0.96	0.001 0.002		
AnSCO 19% Layer Mash..... E 3322 (4-2-58)	Yes		C F	19.00 20.80	3.00 4.03	7.50 6.06					
AnSCO 24% No-Skour Calf Starter..... E 3324 (4-2-58)	Yes		C F	24.00 26.45	3.50 4.18	6.00 6.32					
AnSCO 24% Kaff-Grow Pellets..... E 3329 (4-2-58) D 5188 (11-5-58)	Yes		C F F	24.00 25.90 26.60	3.50 3.18 2.78	6.00 6.76 5.31					3, 4 3
AnSCO Hi-Sweet Grain Fortifier Pellets..... E 3317 (4-2-58)	Yes		C F	8.00 9.70	2.00 2.49	9.50 10.40					4
AnSCO Hy-Mo-Lass Pellets..... E 3318 (4-2-58)	Yes		C F	24.00 24.00	1.00 3.11	8.50 8.36					
AnSCO Starter & Broiler Mash Medicated..... E 3319 (4-2-58)	Yes		C F	20.00 21.25	3.50 4.52	5.50 4.93					
AnSCO 16% Hi-Lay Breeder Medicated..... E 3320 (4-2-58)	Yes		C F	16.00 17.60	3.20 3.85	5.00 4.65					



NU-WAY FEED & FARM STORE, COLESBURG, IOWA

Murphy's Vig-O-Ray Starting Mash D 1453 (4-16-58)	Yes	C	18.00	3.00	7.00				
		F	19.60	4.33	7.00				
Murphy's Cut-Cost Creep Feed for Pigs D 1454 (4-16-58)	Yes	C	16.00	2.50	6.00				
		F	17.50	4.58	5.15				

OELWEIN CHEMICAL CO., OELWEIN, IOWA

Occo Beef Supplement Medicated D 686 (12-20-57)	Yes	C	30.00	1.00	9.00	4.00	1.00	0.007	2.00	
D 237 (2-26-58)		F	34.20	1.78	6.90					
D 7142 (12-2-58)		F	32.70	1.96	6.13	3.90	1.55	0.00478	1.73	8
		F	34.35	2.54	7.49					
Occo Mineral Supplement for Beef Cattle D 678 (12-20-57)	Yes	C				24.00	5.00	0.01	4.50	
		F				24.00	5.68	0.0113	2.32	
Occo Mineral Supplement for Dairy Cows & Calves D 680 (12-20-57)	Yes	C				24.00	5.00	0.01	4.50	
		F				24.20	5.40	0.0115	2.54	
Occo Mineral Supplement for Poultry D 684 (12-20-57)	Yes	C				20.00	3.75	0.01	13.50	
		F				21.30	6.12	0.0198	5.10	5
Occo 0.0022% D.E.S. Mix Inc. in Beef Supplement Med. D 238 (2-26-58)	Yes	C	30.00	1.00	9.00					
		F	32.60	1.47	7.27					
Occo Mineral Feed Supplement for Hogs D 7133 (12-2-58)	Yes	C				21.00	4.00	0.01		
		F				19.60	4.06	0.023		
Occo-Lak Brand Mineral Feed D 7134 (12-2-58)	Yes	C	4.50	1.00	4.00	22.00	1.00	0.001	11.00	
		F	5.60	1.11	2.52	18.80	1.16	0.0039	10.30	
Occo-Trate for Poultry D 7136 (12-2-58)	Yes	C	35.00	2.50	8.00	7.50	2.00	0.003	3.50	
		F	36.35	3.33	4.35	7.30	2.29	0.004	2.64	
Occo 0.0022% D.E.S. Mix Inc. in Beef Supplement D 681 (12-20-57)	Yes	C	30.00	1.00	9.00					
		F	30.00	2.20	8.30					
Occo Medicated Baby Pig Starter D 682 (12-20-57)	Yes	C	18.00	3.00	3.00					
D 240 (2-26-58)		F	20.25	3.61	2.14					
		F	20.65	3.52	2.13					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
OELWEIN CHEMICAL CO., OELWEIN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Occo Lak-Mineral Feed with Yeast Culture D 683 (12-20-57)	Yes		C	4.50	1.15	4.00					
			F	6.50	0.86	1.15					
Occo All-In-One Hog Concentrate D 685 (12-20-57) D 239 (2-26-58) D 7135 (12-2-58)	Yes		C	40.00	2.50	5.50	5.00	1.75	0.0017	1.00	3
			F	42.55	2.35	4.05					
			F	40.30	2.39	3.93	5.10	2.50	0.00214	0.74	
			F	40.60	1.93	4.63					
Occo-Trate 40 for Hogs D 675 (12-20-57) D 241 (2-26-53) D 7138 (12-2-58)	Yes		C	40.00	2.00	10.00				5.50	
			F	40.75	3.22	8.30					
			F	40.10	3.98	8.80				5.19	
			F	41.20	3.50	8.74					
Occo Baby Pig Starter D 676 (12-20-57) D 244 (2-26-58)	Yes		C	18.00	3.00	2.50					
			F	19.30	3.85	1.90					
			F	19.55	3.29	2.32					
Occo Dairy Supplement Medicated D 677 (12-20-57) D 242 (2-26-58) D 7141 (12-2-58)	Yes		C	31.00	2.50	8.50	4.50	2.75	0.007	1.00	
			F	31.70	2.90	6.47					
			F	33.15	3.05	6.80	3.70	3.36	0.007	0.165	
			F	34.50	3.14	6.45					
Occo Trate for Poultry D 679 (12-20-57) D 243 (2-25-58)	Yes		C	32.00	4.50	4.00	5.50	0.50	0.002	3.00	3
			F	33.95	3.82	4.09					
			F	35.95	4.57	3.90	7.30	2.24	0.0044	3.10	
Occo Baby Pig Starter Medicated D 7137 (12-2-58)	Yes		C	18.00	3.00	3.00					
			F	21.45	3.78	2.82					
Occo Calf Pellets Medicated D 7139 (12-2-58)	Yes		C	18.00	3.00	4.00					
			F	19.95	3.56	2.46					
Occo 0.0022% D.E.S. Mix with Dynafac Inc In Occo Beef Supplement D 7140 (12-2-58)	Yes		C	30.00	1.00	9.00	4.00	1.00	0.007	2.00	
			F	32.55	1.87	3.74	3.40	1.13	0.007	1.68	

OELWEIN ELEVATOR, OELWEIN, IOWA

Pride of Iowa 35% Hog Balancer D 179	(12-12-57)	Yes	C	35.00	3.00	7.00				
			F	37.85	4.42	6.05				
Pride of Iowa 27% Egg Balancer D 180	(12-12-57)	Yes	C	27.00	3.50	8.50	4.70	1.30		
			F	29.10	3.80	7.40	3.50	1.46		

OELWEIN FARMERS CO-OP CREAMERY CO., OELWEIN, IOWA

Oelwein Dried Buttermilk Powder D 181	(12-12-57)	Yes	C	30.00	5.00					
			F	33.38	5.35					
Oelwein Dried Skim Milk Powder D 182	(12-12-57)	Yes	C	30.00	0.50					
			F	35.35	0.80					

OLIN ELEVATOR & MILLING CO., OLIN, IOWA

Square Deal 40% Hog Balancer D 4773	(9-30-58)	Yes	C	40.00	4.00	7.50				
			F	41.15	4.60	7.06				
Star Farmer Stepped-Up Breeder Mash Medicated D 4774	(9-30-58)	Yes	C	20.00	3.50	8.00				
			F	22.15	4.14	6.36				
Square Deal 16% Sow & Pig Feed D 4776	(9-30-58)	Yes	C	16.00	4.00	6.00				
			F	17.00	4.13	6.28				
Square Deal 26% Egg Balancer D 4775	(9-30-58)	Yes	C	26.00	3.50	8.00	5.80	1.30	0.0015	2.00
			F	29.75	5.37	8.25	3.80	1.51	0.0028	1.12

OMAHA FLOUR MILLS CO., OMAHA, NEBRASKA

Wheat Shorts & Screenings D 34 D 4071 D 4167 D 4140 D 4237	(6-24-58) (7-9-58) (7-21-58) (9-30-58) (10-6-58)	Yes	C	16.00	3.50	7.50				
			F	17.05	4.52	7.83				
			F	16.30	4.72	7.97				4
			F	14.50	4.74	8.05				2a, 4
			F	17.40	5.17	7.40				4
F	16.95	5.19	8.13							

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

OSAGE CO-OP ELEVATOR, OSAGE, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Special Pig Starter	Yes		C	18.00	4.00	6.00					
D 1294 (3-20-58)			F	21.15	4.84	3.85					
D 1382 (9-30-58)			F	22.05	6.10	4.27					
Felco 26% No Grain Layer-Breeder	Yes		C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
D 1295 (3-20-58)			F	31.05	3.10	7.45					
D 1375 (9-30-58)			F	29.85	3.24	7.72	4.00	1.40	0.0014	2.18	
Felco Sow Supplement	Yes		C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	
D 1296 (3-20-58)			F	34.55	3.40	8.65					
D 1376 (9-30-58)			F	35.15	3.44	8.51	4.70	1.84	0.0019	2.39	5
Felco Calf Meal	Yes		C	20.00	2.00	8.00					
D 1378 (9-30-58)			F	24.00	2.85	6.13					
Felco Dairy Supplement	Yes		C	35.00	0.50	8.00					
D 1290 (3-20-58)			F	35.65	1.22	8.00					
D 1381 (9-30-58)			F	36.75	1.33	7.43					
Felco Starting Mash Medicated	Yes		C	20.00	2.00	7.00					
D 1291 (3-20-58)			F	23.00	3.59	5.70					
Felco Special Dry Lot Hog Supplement	Yes		C	35.00	1.50	9.00					
D 1292 (3-20-58)			F	36.40	3.57	9.69					
D 1377 (9-30-58)			F	38.85	3.31	8.91					4
Felco Growing Mash Medicated	Yes		C	20.00	2.00	7.00					
D 1293 (3-20-58)			F	22.25	3.43	6.47					
Felco Mash Builder	Yes		C	38.00	3.00	8.00					
D 1379 (9-30-58)			F	40.65	4.06	5.52					
Felco Special Hog Balancer	Yes		C	40.00	1.50	9.00					
D 1380 (9-30-58)			F	41.20	2.98	7.36					

OSAGE FEED & SEED COMPANY, OSAGE, IOWA

Special Home Mix'd 40% Hog Balancer D 846 (8-28-58)	Yes	C	40.00	3.50	8.50	4.00	1.00	0.001	3.00	
		F	41.10	3.50	6.73	3.00	1.24	0.0011	3.28	
Special Home Mix'd 24% Pig & Sow Meal D 847 (8-28-58)	Yes	C	24.00	3.50	8.50	4.00	1.00	0.001	2.50	8
		F	25.65	4.97	8.35	2.40	1.24	0.0007	1.65	
Pig Grower Kit Medicated D 848 (8-28-58)	Yes	C	40.00	2.00	4.00	4.00	1.00	0.0001	3.50	4, 5, 6
		F	43.65	3.60	5.05	4.40	2.47	0.0015	3.91	
Home Mix'd 36% Beef And Dairy Supplement D 849 (8-28-58)	Yes	C	36.00	1.50	8.00					
		F	39.35	2.48	8.20					

OSCEOLA PRODUCTS COMPANY, OSCEOLA, ARKANSAS

Osceola Brand 41% Protein Solvent Extracted Cottonseed Meal E 8198 (12-2-57)	Yes	C	41.00	1.50	12.00					
		F	42.45	3.06	9.40					

OYSTER SHELL PRODUCTS CORP., MOBILE, ALABAMA

Pilot Brand Oyster Shell E 9177 (12-6-57)	Yes	C				38.80				
		F				38.80				

PHILIP R. PARK, INC., SAN PEDRO, CALIFORNIA

Mixing Manamar E 8196 (12-2-57)	Yes	C	24.00	3.00	10.00					
		F	27.00	3.47	7.56					
Feedsol D 4300 (7-16-58)	Yes	C	35.00	2.00	4.00					
		F	40.65	2.15	3.89					

PAULLINA GRAIN COMPANY, PAULLINA, IOWA

Farmers Special 20% Egg Mash D 2031 (8-19-58)	Yes	C	20.00	3.75	7.50					
		F	21.70	3.87	5.73					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
PAULLINA GRAIN COMPANY, PAULLINA, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Farmers Special 40% Hog Balancer D 2032 (8-19-58)	Yes		C	40.00	4.00	7.50	.....	.....	.....	.....	3
			F	43.25	3.20	6.10	.....	.....	.....	.....	

PAULSON DEHYDRATED PRODUCTS CO., LUVERNE, MINNESOTA

Paulsons Dehydrated Alfalfa 17% Meal D 2043 (8-25-58)	Yes		C	17.00	2.00	27.00	.....	.....	.....	.....	
			F	20.25	3.68	23.62	.....	.....	.....	.....	

PEAVEY FEED MILLS, MINNEAPOLIS, MINNESOTA

Lasso Mix 60% Black Strap Molasses D 2327 (9-3-58)	Yes		C	3.00	0.30	18.00	.....	.....	.....	.....	
			F	4.30	0.50	17.01	.....	.....	.....	.....	

E. M. PEET MANUFACTURING CO., COUNCIL BLUFFS, IOWA

Peet's Poultry Mineral D 7115 (11-12-58)	Yes		C	.....	.....	.....	13.00	6.00	0.02	.....	
			F	.....	.....	.....	12.20	6.70	0.044	.....	
Peet's Cattle Mineral D 7116 (11-12-58)	Yes		C	.....	.....	.....	11.00	5.00	0.015	.....	5
			F	.....	.....	.....	12.40	6.66	0.025	.....	
Peet's Dairy Mineral D 7117 (11-12-58)	Yes		C	.....	.....	.....	13.00	6.00	0.02	.....	5
			F	.....	.....	.....	13.90	8.58	0.018	.....	
Peet's Pig Mineral D 7119 (11-12-58)	Yes		C	.....	.....	.....	11.00	5.00	0.015	.....	5
			F	.....	.....	.....	12.00	6.56	0.013	.....	
Peet's Medicated Beef Primer D 7111 (11-12-58)	Yes		C	20.00	2.50	10.00	.....	.....	.....	.....	
			F	20.40	3.67	7.66	.....	.....	.....	.....	

Peet's Beef A 26 Supplement Medicated D 7112	(11-12-58)	Yes	C F	26.00 27.35	1.00 2.15	9.00 8.74					
Peet's G-P Mineral D 7113	(11-12-58)	Yes	C F				18.00 15.40	5.50 6.00	0.015 0.012		
Peet's Hog Mineral D 7114 D 7118	(11-12-58) (11-12-58)	Yes	C F F				11.00 12.00 17.40	5.00 6.04 7.30	0.015 0.018 0.016		5 5
Peet's -M- 40 (For Hogs) D 7121	(11-12-58)	Yes	C F	40.00 36.65	3.50 4.21	8.00 7.30					2a
Peet's '32' Supplement (For Hogs) D 7122	(11-12-58)	Yes	C F	32.00 34.30	3.20 4.10	8.00 7.04					
Peet's Dairy Supplement Medicated D 7126	(11-12-58)	Yes	C F	32.00 32.40	2.15 2.48	8.50 7.21					
Peet's Cattle Supplement Medicated D 7101	(11-12-58)	Yes	C F	30.00 30.10	2.80 3.50	8.50 7.91					
Peet's Poultry Supplement Medicated D 7123	(11-12-58)	Yes	C F	30.00 29.62	4.00 4.58	7.00 5.88	2.80 3.40	1.60 1.98	0.002 0.0010	1.50 1.91	5, 8, 6
Peet's 36% Layer Supplement D 7124	(11-12-58)	Yes	C F	36.00 37.95	4.00 6.95	8.00 7.50	5.50 5.90	2.50 2.50		1.50 1.73	5
Peet's Sheep Mineral D 7127	(11-12-58)	Yes	C F				11.00 10.40	5.00 6.24	0.015 0.007		8
Peet's M A 32 Medicated D 7120	(11-12-58)	Yes	C F	32.00 31.40	3.50 4.35	7.00 5.36					2
Peet's Beef 36 Supplement D 7102	(11-12-58)	Yes	C F	36.00 39.75	1.00 3.07	8.50 8.50					
Peet's 0.0015% D.E.S. and Live Rumen Or- ganisms Mix Inc In Beef Supplement D 7104	(11-12-58)	Yes	C F	21.00 21.15	3.50 4.43	11.80 11.18					
Peet's Pig Go-er Medicated D 7105	(11-12-58)	Yes	C F	15.00 17.20	4.50 5.15	7.00 4.85					
Peet's Pig Starter Medicated D 7106	(11-12-58)	Yes	C F	18.00 20.25	4.50 5.00	4.00 2.66					

COMMERCIAL FEEDS

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## E. M. PEET MANUFACTURING CO., COUNCIL BLUFFS, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Peet's Calf Creep..... D 7107 (11-12-58)	Yes		C F	14.00 13.85	4.00 4.13	7.00 6.94					
Peet's Ru-Mineral..... D 7108 (11-12-58)	Yes		C F				16.00 15.80	7.00 8.06	0.015 0.018		
Peet's Pig Primer Medicated..... D 7109 (11-12-58)	Yes		C F	18.00 20.75	4.00 5.30	3.00 2.25					
Peet's Beef Supplement Medicated..... D 7110 (11-12-58)	Yes		C F	21.00 20.65	3.50 3.47	11.80 11.22					2

## PETERSON COOP ELEVATOR CO., PETERSON, IOWA

Felco 20% Layer-Breeder..... D 629 (4-2-58)	Yes		C F	20.00 23.20	2.00 4.31	8.00 7.27					
Felco 26% No Grain Layer Breeder..... D 630 (4-2-58)	Yes		C F	26.00 27.90	2.00 4.57	9.00 8.25					
Felco Mash Builder..... D 634 (4-2-58)	Yes		C F	38.00 38.40	3.00 5.63	8.00 6.38					
Felco Special Hog Balancer..... D 636 (4-2-58)	Yes		C F	40.00 40.50	1.50 5.15	9.00 7.15					

## PETERSON GRAIN COMPANY, NEW SHARON, IOWA

Rose O'Sharon 17% Egg Mash..... D 5626 (12-16-58)	No		C F	17.00 18.60	3.00 4.28	7.00 4.62					
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Rose O'Sharon 30% Egg Balancer D 5627 (12-16-58)	No	C	30.00	3.00	8.00	4.00	1.30	0.002	1.90	
		F	31.70	5.12	7.11	4.10	1.75	0.0023	1.34	
Rose O'Sharon 40% Hog Concentrate D 5628 (12-16-58)	No	C	40.00	4.50	7.00					2a
		F	38.75	5.58	6.96					

PIERSON MILLING CO., ELDORA, IOWA

Corn Belt 30% Pig & Sow Supplement D 4621 (7-16-58)	Yes	C	30.00	2.50	9.00					
		F	32.05	4.09	9.15					
Corn Belt 40% Hog Balancer D 4622 (7-16-58)	Yes	C	40.00	2.50	7.50					
		F	41.35	4.43	6.72					
Corn Belt 32% Dairy Concentrate D 4623 (7-16-58)	Yes	C	32.00	1.50	8.50					4
		F	32.95	3.55	9.22					
Corn Belt 18% Chick Grower Medicated D 4624 (7-16-58)	Yes	C	18.00	3.00	8.00					
		F	19.20	3.92	7.63					
Corn Belt 34% Poultry Concentrate D 4617 (7-16-58)	Yes	C	34.00	2.25	9.00					
		F	35.85	4.80	8.65					
Corn Belt 27% Cafeteria Supplement D 4618 (7-16-58)	Yes	C	27.00	2.50	9.50					
		F	29.90	4.91	8.88					
Corn Belt 17% Egg Mash D 4619 (7-16-58)	Yes	C	17.00	3.00	8.00					
		F	18.30	4.02	6.85					
Corn Belt 18% Pig Starter D 4620 (7-16-58)	Yes	C	18.00	3.00	6.00					
		F	20.00	4.37	4.71					

PILLSBURY MILLS, INC., CLINTON, IOWA

Pillsbury's Best Chick Grower Medicated D 4312 (6-24-58)	Yes	C	18.00	3.00	7.00					
		F	18.85	4.14	5.51					
Pillsbury's Best Turkey Starter (A1) Medicated E 9732 (12-8-57)	Yes	C	24.00	3.00	7.00					
		F	23.80	4.17	5.68					
Pillsbury's Dutch Maid 16% Dairy Feed E 9733 (12-8-57)	Yes	C	16.00	1.00	19.00					
		F	19.15	3.38	14.60					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 PILLSBURY MILLS, INC., CLINTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Pillsbury's Best Maxi Lay Mash Medicated E 9734 (12-8-57)	No	Yes	C F	24.00 26.75	5.00 5.66	6.00 5.04					
Pillsbury's Best Calf Starter E 9736 (12-8-57) D 5592 (8-26-58)	Yes		C F F	24.00 25.80 25.40	3.00 3.01 3.40	7.50 7.27 7.36					
Pillsbury's Best Calf Pre-Starter E 9737 (12-8-57) D 1880 (5-8-58)	Yes		C F F	23.00 25.50 23.00	6.00 6.48 6.17	2.50 2.06 1.68					
Pillsbury's Best Dog Food E 9739 (12-8-57)	Yes		C F	24.00 29.85	5.00 5.86	4.50 3.87					
Pillsbury's Best Starter & Grower (F1) Medicated E 9740 (12-8-57)	Yes		C F	18.00 18.25	3.00 3.45	6.50 5.70					
Pillsbury's Best Horse Breeder Special E 9741 (12-8-57)	Yes		C F	11.00 12.20	2.50 3.52	9.00 6.36					
Pillsbury's Best Beef Cattle Concentrate D 286 (5-8-58)	Yes		C F	32.00 33.40	1.50 3.80	7.50 5.65					
Pillsbury's Best Pork Producer D 287 (5-8-58)	Yes		C F	14.00 18.05	3.50 3.68	6.00 4.95					
Pillsbury's Best "Super 45" Hog Concentrate D 289 (5-8-58)	Yes		C F	45.00 43.95	2.00 2.26	6.50 5.00					2a
Pillsbury's Best Sweet Feast (HB8) Medicated D 290 (5-8-58) E 9742 (12-8-57)	Yes		C F F	20.00 21.55 21.05	3.00 4.49 4.12	3.50 3.70 2.67					
Pillsbury's Best Chick Pre-Starter Medicated E 9735 (12-8-57)	Yes		C F	23.00 23.50	4.00 4.27	4.00 3.55					

Pillsbury's Best Chick Starter (F1) Medicated D 281 (5-8-58)	Yes		C	20.00	3.00	6.00				
			F	20.90	3.45	4.35				
Pillsbury's Best Sow Ration D 285 (5-8-58)	Yes		C	15.00	3.00	8.00				
			F	17.05	5.12	5.25				
Pillsbury's Best Turkey Starter (A1) Medi- cated D 3266 (6-16-58)	Yes		C	24.00	3.50	4.50				
			F	24.75	5.86	3.40				
Pillsbury's Best Medicated 4X Suppletive E 9719 (12-8-57)	Yes		C	22.00	3.00	7.00				
			F	28.50	3.35	6.56				
Pillsbury's Best Steer Fattener E 9720 (12-8-57)	Yes		C	22.00	2.00	8.50				
			F	25.00	3.69	7.09				
Pillsbury's Best Rabbit Pellets E 9721 (12-8-57)	Yes		C	16.00	2.50	16.00				
			F	17.05	3.03	13.28				
Pillsbury's Best Medicated Maxi-Lay Concentrate E 9722 (12-8-57)	Yes		C	33.00	8.00	7.50				
			F	35.45	6.70	5.53				
Pillsbury's Best 20% Cattle Cubes E 9715 (12-8-57)	Yes		C	20.00	2.50	10.00				
			F	21.30	3.28	6.94				
Pillsbury's Best Roughage Supplement E 9716 (12-8-57)	Yes		C	32.00	1.50	8.00				
			F	33.40	2.62	7.16				
Pillsbury's Best 32% Dairy Concentrate E 9717 (12-8-57) D 295 (5-8-58) D 5593 (8-26-58)	Yes		C	32.00	1.50	8.00	4.00	1.00	0.0004	2.50
			F	32.75	2.03	6.61				
			F	33.35	3.27	5.93				
			F	32.60	3.93	7.81	3.60	1.25	0.00043	1.57
Pillsbury's Best Beef Cattle Concentrate E 9718 (12-8-57)	Yes		C	32.00	1.50	7.50				
			F	33.10	3.05	6.31				
Pillsbury's Best Maxi-Breeder Mash Medicated E 9723 (12-8-57)	No	Yes	C	24.00	5.00	6.50				
			F	27.65	4.98	5.87				
Pillsbury's Best Layer Concentrate E 9725 (12-8-57)	Yes		C	33.00	2.50	8.00				
			F	34.15	3.49	6.72				
Pillsbury's Best No-Mix Poultry Concentrate E 9726 (12-8-57) D 282 (5-8-58) D 5590 (8-26-58)	Yes		C	28.00	2.50	8.50	3.50	1.25	0.0004	2.50
			F	27.30	3.95	7.60				
			F	27.90	3.71	6.65				
			F	28.60	4.24	7.03	2.80	1.34	0.00059	1.35

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

PILLSBURY MILLS, INC., CLINTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Pillsbury's Best Hog Concentrate.....	Yes		C	40.00	1.50	7.50	4.00	1.00	0.00048	2.50	
E 9727 (12-8-57)			F	40.55	4.52	5.90					
E 9738 (12-8-57)			F	41.70	2.13	6.26					
D 4937 (7-14-58)			F	40.00	3.01	5.22					
D 5589 (8-26-58)			F	39.30	3.49	5.50	3.40	1.04	0.00059	2.05	
Pillsbury's Best Maxi-Meal Hog Concentrate.....	Yes		C	32.00	2.00	6.50	4.00	1.00	0.0004	2.50	
E 9728 (12-8-57)			F	32.00	2.76	5.21					
D 296 (5-8-58)			F	32.10	3.43	5.51					
D 5594 (8-26-58)			F	32.70	4.07	5.63	3.50	1.30	0.00045	1.67	
Pillsbury's Best Pig Feast (HA8) Medicated.....	Yes		C	18.00	3.00	5.50					
E 9729 (12-8-57)			F	18.35	4.05	2.97					
D 280 (5-8-58)			F	19.35	3.83	3.30					
D 5591 (8-26-58)			F	19.65	4.63	4.24					
Pillsbury's Best Grower-Layer Concentrate.....	No	Yes	C	38.00	2.50	7.00					
E 9730 (12-8-57)			F	41.20	2.60	5.95					
Pillsbury's Best Laying Mash.....	Yes		C	20.00	3.00	7.50					
E 9731 (12-8-57)			F	19.75	3.50	6.27					
D 283 (5-8-58)			F	21.95	4.35	5.90					
Pillsbury's Champion Dainties.....	Yes		C	16.00	2.50	14.00					
E 9707 (12-8-57)			F	19.30	4.12	9.20					
D 298 (5-8-58)			F	21.45	4.04	9.25					
Pillsbury's Best Broiler Concentrate (A-1) Medicated.....	Yes		C	41.00	8.00	5.50					
E 9708 (12-8-57)			F	44.25	8.03	4.91					
Pillsbury's Best Chick Grower.....	Yes		C	18.00	3.00	7.00					
E 9709 (12-8-57)			F	19.80	3.22	6.27					
D 284 (5-8-58)			F	19.00	3.70	5.50					

Pillsbury's Champion 12% Maxi-Sweet Pellets... E 9710 (12-8-57)	Yes	C	12.00	2.00	8.00				
		F	13.45	2.02	6.67				
Pillsbury's Best 16% Dairy Feed..... E 9711 (12-8-57)	Yes	C	16.00	2.50	9.00				
		F	19.90	2.73	6.16				
Pillsbury's Best Medicated High Noon Pellets... E 9712 (12-8-57)	Yes	C	17.00	3.00	5.00				
		F	19.40	3.93	4.40				
Pillsbury's Best Poultry & Turkey Wormer..... E 9713 (12-8-57)	Yes	C	20.00	3.00	8.00				
		F	20.05	3.40	8.29				
Pillsbury's Best Hog Balancer..... E 9714 (12-8-57) E 9724 (12-8-57) D 5587 (8-26-58)	Yes	C	35.00	1.00	6.50	4.75	1.00	0.0003	3.00
		F	37.45	1.72	5.11				
		F	34.85	2.30	4.90				
		F	36.15	2.43	5.40	3.40	2.24	0.0005	2.00
Pillsbury's Best Layeration..... D 293 (5-8-58)	Yes	C	15.00	3.00	7.50				
		F	17.05	4.93	5.35				
Pillsbury's Best Super Maxi-Meal Hog Concentrate Medicated..... D 294 (5-8-58)	Yes	C	32.00	1.50	8.00				
		F	33.30	3.73	6.83				
Pillsbury's Best Chick Concentrate..... D 297 (5-8-58)	Yes	C	33.00	4.00	7.50				
		F	33.20	5.17	6.39				
Pillsbury's Best Champion Egg Producer..... D 299 (5-8-58)	Yes	C	18.00	3.00	9.50				
		F	20.90	4.26	7.96				
Pillsbury's Best Maxi-Pig Medicated..... D 4938 (7-14-58)	Yes	C	16.00	3.00	5.50				
		F	18.00	4.01	3.73				
Pillsbury's Best Turkey Starter (H4) Medicated..... D 4947 (7-16-58)	Yes	C	24.00	3.50	4.50				
		F	23.85	5.93	3.53				
Pillsbury's Best Maxi-Lay Concentrate Medicated..... D 291 (5-8-58)	Yes	C	33.00	8.00	7.50				
		F	35.02	8.27	5.69				
Pillsbury's Best Sow Concentrate..... D 292 (5-3-58) D 5588 (8-26-58)	Yes	C	34.00	1.50	9.00	4.50	1.00	0.00048	2.50
		F	34.70	3.18	7.50				
		F	35.70	3.56	7.44	3.60	2.57	0.0008	1.68

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 PILLSBURY MILLS, INC., MINNEAPOLIS, MINNESOTA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Pillsbury's Wheat Standard Middlings with ground wheat screenings not exceeding mill run.....	Yes		C	15.00	4.00	9.50					
D 4243 (10-8-58)			F	17.95	4.45	8.14					

PIONEER LABORATORIES, DES MOINES, IOWA

Pio-Lak Cattle Mineral Supplement Medicated.....	Yes		C				21.00	7.00	0.048	6.00	
D 5313 (7-22-58)			F				20.60	8.30	0.078	3.20	
Pio-Lak Vim 26% Poultry Cafe Concentrate.....	Yes		C	26.00	4.00	6.50					2, 4
D 5314 (7-22-58)			F	25.35	4.60	7.21					
Pio-Lak Vim 45% Pig & Hog Concentrate.....	Yes		C	45.00	4.00	3.00					
D 5315 (7-22-58)			F	49.00	6.41	3.24					
0.0022% D.E.S. and Live Rumen Organism Mix Inc In Pio-Lak Vim 30% Beef Ration Maker.....	Yes		C	30.00	3.00	7.50					4
D 5316 (7-22-58)			F	32.05	3.80	9.23					
Pio-Lak Culturing Supplement Feed.....	Yes		C	7.00	1.00	6.00	16.50	2.50	0.024	2.00	
D 5317 (7-22-58)			F	12.25	2.56	3.05	13.90	7.60	0.062	1.50	
Pio-Lak Vim 20% Chick Starter Medicated.....	Yes		C	20.00	3.70	6.00					
D 5318 (7-22-58)			F	21.30	4.00	5.98					

Pio-Lak Vim 34% Protein Hog Concentrate Medicated D 5319 (7-22-58)	Yes	C F	34.00 36.05	4.00 3.68	4.00 5.31					4
Pio-Lak Vim 18% Chick Grower Medicated D 5320 (7-22-58)	Yes	C F	18.00 19.45	3.80 3.98	6.90 7.39					4
Pio-Lak Hog Mineral Supplement D 5330 (7-22-58)	Yes	C F				21.00 19.60	5.50 6.00	0.048 0.042	6.00 5.00	
0.0015% D.E.S. Live Rumen Organism Mix Inc In Pio-Lak Vim 28% Rumalass Pellets D 5331 (7-22-58)	Yes	C F	28.00 29.30	2.75 2.95	5.50 5.50					
Pio-Lak Vim 28% Rumalass Pellets Medicated D 5332 (7-22-58)	Yes	C F	28.00 29.90	2.75 3.11	5.50 5.75					
Pio-Lak Vim 30% Beef Ration Maker Medicated D 5333 (7-22-58)	Yes	C F	30.00 31.30	3.00 3.85	7.50 8.17					4
Pio-Lak Sheep Mineral Supplement Medicated D 5321 (7-22-58)	Yes	C F				17.00 16.50	4.90 5.80	0.048 0.058	28.00 25.40	
Pio-Lak Vim 28% Dairy Ration Maker Medicated D 5322 (7-22-58)	Yes	C F	28.00 31.35	3.00 4.23	7.50 9.16					4
Pio-Lak Vim 18% Protein Pig Starter Medicated D 5324 (7-22-58)	Yes	C F	18.00 20.00	4.00 3.89	4.00 3.26					
Pio-Lak Vim 30% Beef Ration Maker Medicated D 5325 (7-22-58)	Yes	C F	30.00 32.35	3.00 4.00	7.50 8.58					4
Pio-Lak Multi-Vim Antibiotic & Vitamin Supplement D 5326 (7-22-58)	Yes	C F	15.00 21.30	2.00 3.78	5.00 13.35					4
Pio-Lak Vim 33% Poultry Concentrate D 5327 (7-22-58)	Yes	C F	33.00 35.10	4.50 4.65	6.00 6.20					
Pio-Lak Pow-R-Pak Swine & Poultry Antibiotic, Vitamin & Mineral Supplement D 5328 (7-22-58)	Yes	C F				20.00 19.20	4.00 6.20	0.048 0.42	6.00 4.90	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 PIONEER LABORATORIES, DES MOINES, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Pio-Lak Cattle Mineral Supplement Medicated... D 5329 (7-22-58)	Yes		C F	..... .....	..... .....	..... .....	21.00 21.00	7.00 7.90	0.048 0.039	6.00 4.70	

PIPPERT GRAIN & MILLING CO., GLADBROOK, IOWA

Pippert's Special 32% Poultry Supplement..... E 3350 (4-7-58)	No	Yes	C F	32.00 35.45	2.00 3.70	9.00 7.63	3.80 2.00	2.05 1.39	0.0002 0.00039	2.00 2.59	7, 6
Pippert's Special Medicated 40% Hog Balancer ..... E 3351 (4-7-58)	Yes		C F	40.00 37.40	4.00 5.56	7.50 5.32	..... .....	..... .....	..... .....	..... .....	2a
Pippert's Special 20% Chick Starter Medicated ..... E 3352 (4-7-58)	Yes		C F	20.00 22.10	3.40 4.23	4.00 3.57	..... .....	..... .....	..... .....	..... .....	

PITTSBURGH PLATE GLASS CO., RED WING, MINNESOTA

Red Wing Linseed Oil Meal..... D 4425 (7-10-58) D 4163 (7-21-58)	Yes		C F F	34.00 37.00 34.55	0.50 1.45 1.26	10.00 9.65 8.92	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	
Red Wing 34% Protein-Solvent Extracted Linseed Oil Meal..... D 2303 (8-26-58) D 4232 (10-6-58)	Yes		C F F	34.00 34.70 35.60	0.50 1.39 1.10	10.00 9.06 9.20	..... ..... .....	..... ..... .....	..... ..... .....	..... ..... .....	



PLAINS COOPERATIVE OIL MILL, LUBBOCK, TEXAS

Plainsman Brand 41% Protein Solvent extracted Cottonseed Meal Or Pellets with added Cottonseed Lecithin..... D 5921 (9-22-58)	No	Yes	C	41.00	3.00	13.00	.....	.....	.....	.....	3
			F	42.30	2.41	8.95	.....	.....	.....	.....	

PLANTERS MFG. COMPANY, CLARKSDALE, MISSISSIPPI

41% Protein Solvent Extracted Cottonseed Meal ..... E 2610 (4-21-58) D 972 (7-31-58)	Yes		C	41.00	2.00	14.00	.....	.....	.....	.....	3
			F	42.45	1.50	13.28	.....	.....	.....	.....	
			F	44.45	1.26	11.62	.....	.....	.....	.....	

POLLOCK ELEVATORS, WALFORD & NORWAY, IOWA

Pollock's Premium Special 26% Mixer Concentrate Medicated..... D 5044 (7-28-58)	Yes		C	26.00	3.50	12.50	.....	.....	.....	.....	
			F	28.00	5.48	8.95	.....	.....	.....	.....	
Pollock's Premium 35% Sow & Pig Concentrate..... D 5045 (7-28-58)	Yes		C	35.00	2.50	9.00	.....	.....	.....	.....	
			F	35.55	3.49	7.41	.....	.....	.....	.....	
Pollock's Power Pak 45% Hog Balancer..... Medicated ..... D 5046 (7-28-58)	Yes		C	45.00	3.50	5.00	.....	.....	.....	.....	2
			F	44.20	6.37	4.30	.....	.....	.....	.....	

POPPE FEED MILL, FLOYD, IOWA

Poppe's Pig & Sow Balancer..... E 7862 (12-17-57)	Yes		C	33.00	3.50	8.50	.....	.....	.....	.....	
			F	34.70	3.96	6.92	.....	.....	.....	.....	

PORTLAND CO-OP COMPANY, PORTLAND, IOWA

Felco Special Hog Balancer..... D 1277 (3-18-58) D 1369 (9-30-58)	Yes		C	40.00	1.50	9.00	.....	.....	.....	.....	
			F	41.90	3.42	7.91	.....	.....	.....	.....	
			F	41.75	3.81	7.08	.....	.....	.....	.....	

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 PORTLAND CO-OP COMPANY, PORTLAND, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Starting Mash Medicated	Yes		C	20.00	2.00	7.00					
D 1278 (3-18-58)			F	22.20	3.77	6.59					
Felco Special Dry Lot Hog Supplement	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	4
D 1279 (3-18-58)			F	36.00	3.48	9.80					
D 1368 (9-30-58)			F	36.20	4.44	9.07	4.10	1.72	0.0010	1.81	
Felco Sow Supplement	Yes		C	32.00	2.00	9.00					4
D 1280 (3-18-58)			F	32.70	3.43	10.78					
D 1370 (9-30-58)			F	32.65	4.09	9.78					
Felco Dairy Supplement	Yes		C	35.00	0.50	8.00					
D 1287 (3-18-58)			F	36.50	1.02	6.60					
D 1373 (9-30-58)			F	38.95	1.23	6.15					
Felco Mash Builder	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	6
D 1288 (3-18-58)			F	40.00	4.72	6.82					
D 1371 (9-30-58)			F	38.00	4.40	6.36	5.30	2.03		3.25	
Felco 26% No Grain Layer-Breeder	Yes		C	26.00	2.00	9.00					
D 1276 (3-18-58)			F	29.55	3.04	8.79					
D 1372 (9-30-58)			F	29.65	3.25	7.90					
POSTVILLE FEED MILL, POSTVILLE, IOWA											
Sun-Ray 20% Egg & Breeder Mash	Yes		C	20.00	3.75	7.00					
D 3854 (5-7-58)			F	21.50	4.08	5.88					
POTGETER GRAIN COMPANY, STEAMBOAT ROCK, IOWA											
Potgeter's 18% Layer Mash Medicated	Yes		C	18.00	3.50	6.50					
D 1209 (6-30-58)			F	18.55	4.67	4.12					

POWERS FEED MILL, BAGLEY, IOWA

Powers Pre-Mix D 3685	(3-19-58)	Yes	C	15.00	2.50	11.50				
			F	19.30	7.50	8.63				
Powers Pre Feed with 10% Dried Milk D 1860	(3-19-58)	Yes	C	12.00	3.50	2.50				
			F	13.65	5.10	2.02				

PRAIRIE CITY FEED MILL, PRAIRIE CITY, IOWA

I.O.A. Hog Supplement D 5058	(8-6-58)	Yes	C	36.00	4.00	6.75					3
			F	37.85	3.00	7.05					
I.O.A. Master Chick Starter D 5059	(8-6-58)	Yes	C	20.00	3.50	5.00					
			F	21.90	3.89	4.19					
I.O.A. Cattle Protein D 5060	(8-6-58)	Yes	C	36.00	4.00	7.50					2a, 3, 4
			F	34.95	3.53	10.25					
I.O.A. 26% Balancer For Poultry D 5061	(8-6-58)	Yes	C	26.00	4.00	7.00					3, 4
			F	30.40	3.63	9.75					
I.O.A. Master All-Mash D 5062	(8-6-58)	Yes	C	17.00	4.50	3.50					4
			F	18.15	4.30	4.40					

PRESTON FEED MILL, PRESTON, IOWA

Badrick's Pig Starter D 1481	(4-22-58)	Yes	C	18.00	4.50	6.90					
			F	18.00	4.30	5.60					
Badrick's Calf Starter D 1482	(4-22-58)	Yes	C	20.00	3.10	5.90					
			F	25.60	3.61	5.12					
Badrick's 27% Poultry Concentrate D 1483	(4-22-58)	Yes	C	27.00	3.75	6.50					3
			F	32.65	3.07	6.92					
Badrick's Pig & Sow Meal D 1484	(4-22-58)	Yes	C	22.00	4.50	6.60					2, 3
			F	21.10	4.07	5.84					
Badrick's Starter Mash D 1477	(4-22-58)	Yes	C	19.50	4.50	6.40					3
			F	21.15	3.85	5.95					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

PRESTON FEED MILL, PRESTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Badrick's Growing Mash..... D 1478 (4-22-58)	Yes		C F	19.50 19.20	3.80 3.85	6.40 5.66					
Badrick's Cattle Concentrate Inc. in 0.0022% D.E.S. Mix..... D 1479 (4-22-58)	Yes		C F	30.00 28.65	3.35 2.75	7.10 6.02					2a, 3
Badrick's Hog Concentrate..... D 1480 (4-22-58)	Yes		C F	30.00 31.80	2.69 2.70	5.70 4.80					
Badrick's Cattle Starter Inc. in 0.0022% D.E.S. Mix..... D 1473 (4-22-58)	Yes		C F	20.00 24.15	3.10 3.20	5.90 5.92					
Badrick's 30% Dairy Concentrate..... D 1474 (4-22-58)	Yes		C F	30.00 33.00	2.50 2.70	7.20 5.72					
Badrick's Egg Mash..... D 1475 (4-22-58)	Yes		C F	20.00 21.75	3.75 3.85	6.00 5.40					
Badrick's Beef Primer..... D 1476 (4-22-58)	Yes		C F	20.00 24.75	3.00 3.55	6.00 5.56					

PROTEIN BLENDERS, INC., IOWA CITY, IOWA

35% B-P Blend Sow Concentrate..... D 1637 (3-17-58)	Yes		C F	35.00 36.50	1.50 4.93	9.50 6.47					
B P 35% Basic Blend Pig Concentrate Medicated.....	Yes		C	35.00	1.50	7.50					
D 1638 (3-17-58)			F	35.00	4.55	6.96					
D 4903 (7-7-58)			F	37.65	4.65	6.18					

BP 27% Booster Blend Breeder Cafeteria Concentrate	Yes	C	27.00	1.50	8.00	4.50	1.00	0.00055	2.50
D 1639 (3-17-58)		F	27.90	3.16	6.95	3.20	1.61	0.00177	1.95
B P 40% Bacon Blend Hog Supplement	Yes	C	40.00	1.50	7.00	4.00	1.25	0.00066	2.00
D 1640 (3-17-58)		F	41.20	1.50	5.68				
D 5578 (8-21-58)		F	41.65	2.10	6.48	2.30	0.93	0.0022	1.55
B P 19% Pig Pak Pig Starter Medicated	Yes	C	19.00	2.50	4.00				
D 1644 (3-17-58)		F	21.30	4.39	4.14				
B P 33% Bossie Blend Dairy Concentrate	Yes	C	33.00	0.50	8.00				
D 1645 (3-17-58)		F	33.90	1.50	6.90				
B P 41% Baby Blend Concentrate Medicated	Yes	C	41.00	2.25	7.50				
D 1646 (3-17-58)		F	42.40	5.12	5.77				
D 4904 (7-7-58)		F	42.95	5.01	5.70				
B P 25% Bucket Blend Calf Meal	Yes	C	25.00	2.00	7.00				
D 1647 (3-17-58)		F	29.25	2.70	5.71				
B P 45% Blue Butcher Blend	Yes	C	45.00	3.00	7.00				
D 1643 (3-17-58)		F	45.70	3.80	4.73				
D 5580 (8-21-58)		F	47.90	3.69	4.11				
B P 19% Bottle Blend Medicated	Yes	C	19.00	3.50	3.50				
D 1650 (3-17-58)		F	21.85	3.60	2.44				
B P Red Tag 19% Baby Blend Medicated	Yes	C	19.00	2.50	4.00				
D 1551 (3-17-58)		F	21.05	4.25	2.56				
B P 34% Burley Blend	Yes	C	34.00	0.50	7.50				
D 3022 (7-21-58)		F	33.50	1.80	6.84				
B P 38% Banner Blend (Mixing Concentrate)	Yes	C	38.00	1.50	7.50	5.00	1.00	0.00055	3.00
D 1648 (3-17-58)		F	38.80	2.55	6.23	4.20	1.46	0.003	3.00
B P 18% Bigger Blend Medicated	Yes	C	18.00	3.00	7.00				
D 1649 (3-17-58)		F	18.30	3.80	4.94				
B P 45% Red Butcher Blend	Yes	C	45.00	3.00	7.50				
D 1641 (3-17-58)		F	45.90	3.32	4.61				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 PROTEIN BLENDERS, INC., IOWA CITY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
B P 45% Green Butcher Blend.....	Yes		C	45.00	3.00	7.50	.....	.....	.....	.....	
D 1642 (3-17-58)			F	46.30	3.29	4.79	.....	.....	.....	.....	
D 4905 (7-7-58)			F	47.35	5.39	5.77	.....	.....	.....	.....	
B P 35% Bumper Blend.....	Yes		C	35.00	1.50	9.50	.....	.....	.....	.....	
D 5579 (8-21-58)			F	35.40	3.40	9.30	.....	.....	.....	.....	

PURE MILK PRODUCTS CO., WINSTED, MINNESOTA

Dried Whey Product 40% Lactose.....	Yes		C	23.00	0.10	1.00	.....	.....	.....	6.00	
D 2218 (6-27-58)			F	24.20	1.25	0.00	.....	.....	.....	.....	
D 2020 (8-15-58)			F	23.35	1.23	0.60	.....	.....	.....	4.70	

QUAKER OATS COMPANY, CEDAR RAPIDS, IOWA & CHICAGO, ILLINOIS

Ful-O-Pep Grain Balancer.....	Yes		C	28.00	3.00	8.00	.....	.....	.....	.....	
D 4251 (7-3-58)			F	29.90	3.82	8.34	.....	.....	.....	.....	
Ful-O-Pep Pig Grower (KP) Medicated.....	Yes		C	16.00	3.00	5.00	.....	.....	.....	.....	
D 4253 (7-3-58)			F	16.15	3.31	4.47	.....	.....	.....	.....	
Ful-O-Pep Pig Starter (KP) Medicated.....	Yes		C	18.00	3.00	5.00	.....	.....	.....	.....	
D 4255 (7-3-58)			F	19.90	3.51	4.49	.....	.....	.....	.....	
Ful-O-Pep Super Broiler Mash (AG2) Medicated.....	Yes		C	23.00	8.00	2.50	.....	.....	.....	.....	
E 4887 (12-24-57)			F	26.55	5.52	3.02	.....	.....	.....	.....	3, 4
Ful-O-Pep AA 32% Cattle Feed Concentrate.....	Yes		C	32.00	2.00	10.00	.....	.....	.....	.....	
E 4897 (12-24-57)			F	34.85	2.10	8.45	.....	.....	.....	.....	



ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 QUAKER OATS COMPANY, CEDAR RAPIDS, IOWA & CHICAGO, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Ful-O-Pep Calf Sup- E 4893 (12-24-57) D 4264 (7-3-58)	Yes		C F F	21.00 23.20 21.35	7.50 7.70 8.59	0.50 0.28 0.30					
Ful-O-Pep Rumens Bracer (D7M) Medicated E 4895 (12-24-57) D 2449 (7-3-58)	Yes		C F F	24.00 26.60 25.75	1.50 2.13 2.08	10.00 10.63 8.67					4
Ful-O-Pep 0.0011% D.E.S. Mixture Inc In Pro-Sweet Supplement E 4888 (12-24-57) D 929 (9-24-58) D 4263 (7-3-58)	Yes		C F F F	24.00 24.00 25.45 24.90	1.50 1.69 1.76 1.98	10.00 9.03 8.96 8.36	2.00 2.80	0.80 1.00	0.00009 0.0003	1.75 2.19	5, 6
Ful-O-Pep Calf Starter E 4889 (12-24-57) D 4261 (7-3-58)	Yes		C F F	25.00 25.15 25.95	3.50 3.80 4.32	8.00 7.42 7.26					
Ful-O-Pep Egg Breeder Mash CR E 4890 (12-24-57)	Yes		C F	20.00 21.45	3.50 4.42	8.00 5.74					
Ful-O-Pep Medicated Baby Pig Diet (DI) E 4891 (12-24-57)	Yes		C F	20.00 22.70	4.00 5.80	4.00 2.06					

QUISENBERRY MILLS, INC., KANSAS CITY, MISSOURI

Quisenberry Beef Maker 22% Cattle Supplement D 4279 (7-15-58)	Yes		C F	22.00 26.75	2.00 2.95	10.50 9.90					
Q-B 32% Grain Balancer D 4280 (7-15-58)	Yes		C F	28.00 31.55	1.50 2.41	12.00 10.38					



Quick-Sweet Dehydrated Corn Cobs Sweetenin  
Ground Feeding Cane Molasses.....  
D 4281 (7-15-58)

Yes

C  
F

2.50  
3.50

0.50  
1.79

20.00  
16.84

Q-B Super Pig Grower Supplement  
Medicated .....  
D 4282 (7-15-58)

Yes

C  
F

24.00  
25.90

2.75  
3.94

8.00  
7.01

Quick-Sweet 12% Cattle Supplement For  
Ruminants only .....  
D 4283 (7-15-58)

Yes

C  
F

12.00  
13.95

1.00  
1.24

12.00  
8.18

Q-B Calf Starter Pellets Supplement.....  
D 4285 (7-15-58)

Yes

C  
F

25.00  
29.45

3.50  
2.49

8.00  
7.36

3

Q-B More Milk 16% Dairy.....  
D 4291 (7-15-58)

Yes

C  
F

16.00  
19.60

2.50  
3.25

12.00  
9.98

Q-B 38% Poultry Concentrate.....  
D 4293 (7-15-58)

Yes

C  
F

38.00  
35.03

2.00  
2.92

8.00  
9.45

2a, 4

Quisenberry Beef Maker 0.0022% D.E.S. Mix  
Inc In Beef Maker 32% Supplement.....  
D 4294 (7-15-58)

Yes

C  
F

32.00  
33.85

2.00  
3.28

10.00  
8.89

0.0011% D.E.S. Mix Inc In Q-B-Beef Maker.....  
D 4277 (7-15-58)

Yes

C  
F

22.00  
24.20

2.00  
3.44

10.50  
8.25

Medicated Quick-Tone 500 Gram Corrective  
Feed .....  
D 4274 (7-15-58)

Yes

C  
F

20.00  
22.75

3.00  
3.08

8.00  
6.78

Q-B Pullet Developer Medicated.....  
D 4288 (7-15-58)

No

C  
F

18.00  
21.35

2.50  
3.69

8.00  
8.06

Q-B Pork Maker 35% Hog Supplement.....  
D 4269 (7-15-58)

Yes

C  
F

35.00  
35.70

1.50  
1.65

10.00  
6.53

Q-B Quick-Mix Hog Concentrate.....  
D 4270 (7-15-58)

Yes

C  
F

30.00  
31.80

2.00  
2.01

8.00  
5.32

2.50  
5.50

2.00  
2.10

0.006  
0.0018

5.00  
4.60

5, 8

0.0011% D.E.S. Mix Inc In Quick-Sweet 22%  
Cattle Supplement.....  
D 4290 (7-15-58)

Yes

C  
F

22.00  
23.25

1.50  
1.64

12.00  
8.56

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 QUISENBERRY MILLS, INC., KANSAS CITY, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
0.0011% D.E.S. Mix Inc In Quick-Sweet 12% Cattle Supplement D 4287 (7-15-58)	Yes		C F	12.00 12.70	1.00 1.81	12.00 7.49					
Q-B Big Litter Sow & Pig Supplement Pelleted "Medicated" D 4271 (7-15-58)	Yes		C F	20.00 20.60	2.50 3.73	8.00 3.04					
Q-B- Super Pig Starter Pellets Medicated D 4275 (7-15-58)	Yes		C F	20.00 23.80	4.00 4.70	3.50 2.89					
Quick (24 Hour) Hog Wormer D 4276 (7-15-58)	Yes		C F	14.00 18.55	3.00 4.16	8.00 7.65					
0.022% Iodinated Casein Mixture Inc In Q-B Sow's Milk Stimulator D 4278 (7-15-58)	Yes		C F	16.00 19.05	3.00 3.96	8.00 7.65					
0.0022% D.E.S. Mix Inc In Quick-Sweet 22% Cattle Supplement D 4286 (7-15-58)	Yes		C F	22.00 26.45	1.50 2.91	12.00 8.58					
Q-B 40% Hog Supplement D 4272 (7-15-58)	No		C F	40.00 38.95	1.50 1.28	6.00 5.33	4.00 2.70	2.00 1.80	0.001 0.001	2.00 2.30	2a
Quick Tone Milk Replacer Medicated D 4284 (7-15-58)	Yes		C F	25.00 25.95	3.00 0.96	0.50 0.34					3
Quick-Tone 200 Grams For Livestock D 4273 (7-15-58)	Yes		C F	20.00 22.20	3.00 3.53	8.00 6.61					

RALSTON PURINA CO., ST. LOUIS, MISSOURI

Purina 0.0022% D.E.S. Mix in Purina Steer Fatena 32% E 2620 (4-30-58)	Yes	C	32.00	2.00	10.00				
		F	34.20	3.04	6.42				
Purina Sow Chow Checkers E 2621 (4-30-58)	Yes	C	32.00	2.00	9.00				
E 2625 (4-30-58)		F	32.25	3.66	6.39				
D 3253 (6-9-58)		F	33.15	3.52	6.92				
D 4638 (7-17-58)		F	29.95	3.26	5.93				
D 6683 (11-26-58)		F	33.10	3.56	6.87				
		F	34.05	3.05	6.79				
Purina Egg Chow E 2622 (4-30-58)	Yes	C	20.00	3.50	7.00				
		F	19.85	4.35	6.08				
Purina Baby Pig Chow Medicated E 2623 (4-30-58)	Yes	C	18.00	5.00	3.00				
D 3285 (6-20-58)		F	19.00	6.10	2.18				
D 3280 (6-19-58)		F	19.75	5.88	2.30				
D 4305 (6-23-58)		F	19.00	6.25	2.20				
D 4633 (7-17-58)		F	18.50	5.88	1.31				
D 5291 (11-4-58)		F	18.70	6.12	2.36				
		F	19.10	6.23	1.94				
Purina Bulky Las Meal E 2624 (4-30-58)	Yes	C	10.00	1.50	15.00				
		F	12.55	2.03	12.55				
Purina Creep Chow E 2626 (4-30-58)	Yes	C	13.00	2.00	6.00				
D 4116 (9-30-58)		F	13.70	3.66	5.68				
		F	18.70	3.81	5.52				
Purina Cow Chow Concentrate Meal E 2627 (4-30-58)	Yes	C	32.00	1.50	10.00				
		F	34.45	3.08	5.89				
Purina Turkey Chowder Meal E 2628 (4-30-58)	Yes	C	36.00	4.00	8.00				
D 4637 (7-17-58)		F	37.95	5.52	6.10				
		F	36.80	4.90	6.39				
Purina Steer Fatena K 32% D 6682 (11-26-58)	Yes	C	32.00	2.00	10.00				
		F	32.40	3.30	6.33				

2a

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
RALSTON PURINA CO., ST. LOUIS, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Purina Steer Fatena 32% Checkers..... E 2637 (4-30-58)	Yes		C	32.00	2.00	10.00					
			F	33.25	3.03	6.26					
Purina Dog Chow..... D 3286 (6-20-58)	Yes		C	24.00	7.00	4.00					3
D 6677 (11-26-58)			F	25.90	6.58	2.40					
			F	25.25	8.40	2.26					
Purina 0.0011% D.E.S. Inc in Special Steer Fatena 32%..... D 3284 (6-20-58)	Yes		C	32.00	2.00	12.00					
D 3254 (6-9-58)			F	34.70	2.67	7.95					
D 4494 (7-31-58)			F	32.25	2.83	8.39					
			F	33.15	2.57	7.30					
Purina Broiler Chow (B) 3 NC #2 Medicated..... D 3279 (6-19-58)	Yes		C	18.00	3.00	7.00					
			F	21.10	4.41	4.92					
Purina Chick Growena (B) NC Medicated..... D 3278 (6-19-58)	Yes		C	17.00	3.00	7.00					
			F	19.40	4.32	4.22					
Purina Super Chick Startena Medicated..... D 3259 (6-9-58)	Yes		C	23.00	4.50	4.00					
			F	24.05	4.71	3.17					
Purina Chicken Chowder..... D 3258 (6-9-58)	Yes		C	36.00	5.50	8.00	6.50	2.00	0.0004	3.00	
D 5286 (11-4-58)			F	36.05	6.38	5.74					
			F	38.05	6.48	5.94	6.00	2.48	0.0017	1.88	
Purina Pig Startena (Special) Medicated..... D 3257 (6-9-58)	Yes		C	18.00	4.50	5.00					
D 3283 (6-20-58)			F	19.10	4.54	2.61					
D 3292 (6-25-58)			F	21.40	3.86	2.34					3
D 4634 (7-17-58)			F	20.40	4.97	3.56					
D 4122 (9-30-58)			F	21.60	5.10	3.55					
D 5290 (11-4-58)			F	21.15	4.86	2.57					
			F	20.35	5.18	2.50					

Purina Cow Chow Concentrate K D 6675 (11-26-58)	Yes	C	32.00	1.50	10.00	3.50	1.00	0.00035	2.50
		F	34.70	2.60	6.28	3.50	1.25	0.0015	2.66
Purina Nursing Chow D 6678 (11-26-58)	Yes	C	25.00	2.50	1.50				
		F	26.95	3.22	0.78				
Purina Pig Startena (Special) K Medicated D 6679 (11-26-58)	Yes	C	18.00	4.50	5.00				
		F	19.95	5.24	3.08				
Purina Bulky Las D 6681 (11-26-58)	Yes	C	10.00	1.50	15.00				
		F	11.15	1.98	13.50				
Purina Dairy Premix 50% DK D 4119 (9-30-58)	Yes	C	50.00	1.00	10.00	5.00	1.30	0.004	5.00
		F	52.25	2.69	4.36	4.00	1.22	0.0008	3.86
Purina Bulky Las K D 4123 (9-30-58)	Yes	C	10.00	1.50	15.00				
		F	12.55	2.12	13.23				
Purina Calf Startena K D 5287 (11-4-58) D 6673 (11-26-58)	Yes	C	19.50	3.00	8.00				
		F	21.15	3.67	6.50				
		F	22.00	3.82	6.22				
Purina 40% Hog Chow (K) 50 AB Medicated D 6672 (11-26-58)	Yes	C	40.00	0.50	8.00	4.00	1.40	0.0003	3.00
		F	40.20	2.68	5.80	3.50	1.51	0.0005	2.24
Purina Calf Startena J E 8387 (12-5-57)	Yes	C	19.50	2.50	8.50				
		F	24.25	3.20	6.62				
Purina Sheep Fatena (J) AB Medicated E 8388 (12-5-57)	Yes	C	32.00	2.00	10.00				
		F	32.75	2.83	6.84				
Purina Hog Chow (J) 50 AB Medicated E 8389 (12-5-57)	Yes	C	36.00	0.50	8.00				
		F	37.05	1.23	6.25				
Purina Sow Chow J E 8390 (12-5-57) D 3758 (4-7-58)	Yes	C	32.00	2.00	9.00	3.50	1.00	0.0003	3.00
		F	34.60	2.90	5.96				
		F	33.90	2.53	5.80	3.20	1.43	0.00074	1.95
Purina Omolene J E 8391 (12-5-57)	Yes	C	10.00	3.00	9.00				
		F	11.25	3.46	4.97				

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## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## RALSTON PURINA CO., ST. LOUIS, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Purina Super Chick Startena 3-NC Medicated	Yes		C	23.00	4.50	4.00					
E 8392 (12-5-57)			F	22.85	5.36	3.40					
Purina Pig Startena (Special) J Medicated	Yes		C	18.00	4.00	6.00					
E 8393 (12-5-57)			F	19.90	5.69	2.53					
Purina Baby Pig Chow J. Medicated	Yes		C	18.00	4.00	3.00					
E 8394 (12-5-57)			F	18.00	5.32	1.97					
Purina Broiler Finisher Chowder Medicated Mash	Yes		C	42.00	6.00	3.75					
E 2616 (4-30-58)			F	42.95	8.60	2.84					
Purina Broiler Starter Chowder Medicated	Yes		C	44.00	6.00	3.75					
E 2617 (4-30-58)			F	46.00	8.25	2.42					
Purina Sheep Fatena AB Medicated	Yes		C	32.00	2.00	10.00					
E 2618 (4-30-58)			F	33.05	2.79	7.32					
D 4303 (6-23-58)			F	33.90	2.30	8.34					
D 4630 (7-17-58)			F	35.20	2.69	7.64					
Purina Calf Startena	Yes		C	19.50	3.00	8.00					
E 2619 (4-30-58)			F	20.55	3.45	6.56					
Purina Sweetena Checkers	Yes		C	12.00	1.50	18.00					
E 8404 (12-5-57)			F	13.70	2.32	8.10					

Purina Chicken Chowder Mash.....	Yes	C	36.00	5.50	8.00	6.50	2.00	0.0004	3.00	
D 3757 (4-7-58)		F	37.45	5.88	5.58	5.30	2.58	0.00055	1.70	
D 4625 (7-17-58)		F	38.05	6.57	5.89	5.10	2.30	0.0016	2.10	
D 4497 (7-31-58)		F	38.40	6.00	6.01	5.00	2.20	0.0020	1.90	
Purina 0.0011% D.E.S. Mix In Purina Special Steer Fatena 32% .....	Yes	C	32.00	2.00	12.00					
D 3755 (4-7-58)		F	34.50	2.98	8.60					
Purina D & F Chow Supplement.....	Yes	C	13.00	2.00	10.00	3.50	1.20	0.00035	2.50	
E 2615 (4-30-58)		F	14.75	2.43	9.53					
D 4118 (9-30-58)		F	14.95	2.47	11.25	2.60	1.05	0.00299	2.85	4
Purina Chick Growing Chow NC Medicated.....	Yes	C	23.00	2.50	7.50					
E 2629 (4-30-58)		F	23.20	3.55	5.63					
Purina Layena (Complete Ration) Mash.....	Yes	C	16.00	3.50	5.50					
E 2630 (4-30-58)		F	16.40	3.83	4.24					
Purina Omolene.....	Yes	C	10.00	3.00	9.00					
E 2631 (4-30-58)		F	12.25	3.61	5.80					
D 4500 (7-31-58)		F	11.90	3.54	5.61					
D 4121 (9-30-58)		F	11.25	3.97	6.15					
Purina Steer Fatena 65% Checkers.....	Yes	C	65.00	0.50	12.00					
E 2632 (4-30-58)		F	65.00	1.55	6.63					
Purina Super Chick Startena Medicated Mash.....	Yes	C	23.00	4.50	4.00					
E 2633 (4-30-58)		F	25.20	4.52	3.45					
Purina Pig Wormer Checkers.....	Yes	C	18.00	4.50	5.00					
E 2634 (4-30-58)		F	20.20	3.99	3.68					3
Purina Cage Chowder Mash.....	Yes	C	36.00	5.00	8.00					
E 2635 (4-30-58)		F	37.70	6.21	6.66					
Purina Rabbit Chow Checkers (Complete Ration) .....	Yes	C	15.00	2.00	18.00					
E 2636 (4-30-58)		F	15.60	2.46	14.90					

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## RALSTON PURINA CO., ST. LOUIS, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Purina Turkey Pre-Starter..... E 8408 (12-5-57)	Yes		C F	30.00 32.15	3.00 3.89	5.50 4.65					
Purina Super Broiler Starter Chowder Medicated ..... E 8409 (12-5-57)	Yes		C F	44.00 44.60	6.00 6.98	3.00 3.00					
Purina Layena (Complete Ration)..... E 8410 (12-5-57)	Yes		C F	16.00 17.75	3.50 4.32	6.00 4.26					
Purina Steer Fatena 65%..... E 8411 (12-5-57)	Yes		C F	65.00 55.95	0.50 2.49	12.00 7.30					2a
Purina Lay Chow..... E 8412 (12-5-57)	Yes		C F	21.00 24.70	3.50 3.98	6.50 5.32					
Purina Special Steer Fatena J 32%..... E 8401 (12-5-57) D 3756 (4-4-58) D 4632 (7-17-58)	Yes		C F F F	32.00 34.25 34.56 33.80	2.00 2.32 2.32 2.85	12.00 7.90 8.17 8.05					
Purina Steer Fatena J 32%..... E 8402 (12-5-57)	Yes		C F	32.00 34.10	2.00 2.74	10.00 6.00					
Purina Livestock Mineral..... D 186 (12-12-57)	Yes		C F				18.00 14.60	6.00 7.12	0.007 0.0075	40.00 33.75	
Purina Lay Chow T..... D 3252 (6-9-58)	Yes		C F	22.00 23.10	3.50 4.28	5.50 5.38					



Purina Chick Growing Chow B D 3251 (6-9-58)	Yes	C	23.00	2.50	7.50					
		F	26.45	3.82	6.74					
Purina 40% Hog Chow 50 AB Medicated D 3291 (6-25-58)	Yes	C	40.00	0.50	8.00					2a
		F	38.45	1.80	6.52					
Purina Hog Chow 250 AB Medicated D 4304 (6-23-58)	Yes	C	36.00	0.50	8.00					
		F	37.30	1.43	6.87					
Purina Calf Startena T D 3256 (6-9-58)	Yes	C	19.50	3.00	8.00					
		F	21.90	3.07	6.34					
Purina Hog Chow 50 AB Medicated Meal D 3281 (6-19-58)	Yes	C	36.00	0.50	8.00	4.00	1.40	0.0003	3.00	
D 3293 (6-25-58)		F	36.95	1.57	5.86					
D 4626 (7-17-58)		F	38.40	1.27	6.04					
		F	37.20	1.27	5.96	4.00	1.60	0.0008	2.20	
Purina Hog Chow 50 AB Medicated Checkers D 3282 (6-20-58)	Yes	C	36.00	0.50	8.00					
D 3255 (6-9-58)		F	37.50	1.70	6.35					
		F	36.90	1.89	5.74					
Purina Pig Plus Medicated D 2436 (6-6-58)	Yes	C	36.00	1.50	6.00					4
		F	39.20	2.97	7.68					
Purina Cow Chow Concentrate J E 8395 (12-5-57)	Yes	C	32.00	1.50	10.00					
		F	34.40	2.25	5.35					
Purina Bulky Las J E 8396 (12-5-57)	Yes	C	10.00	1.50	15.00					
		F	13.85	1.51	12.60					
Purina Chicken Chowder E 8397 (12-5-57)	Yes	C	36.00	3.50	8.00					
		F	36.25	5.03	6.82					
Purina Chicken Breeder Chowder E 8398 (12-5-57)	Yes	C	36.00	3.50	8.00					
		F	38.30	5.34	5.65					
Purina Egg Chow GB E 8403 (12-5-57)	Yes	C	26.00	3.50	9.00					
D 4627 (7-17-58)		F	26.05	4.03	6.40					
D 4117 (9-30-58)		F	26.40	4.05	7.25					
D 6676 (11-26-58)		F	27.50	4.13	7.07					
		F	26.70	4.50	6.87					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
RALSTON PURINA CO., ST. LOUIS, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Purina D & F Chow J..... E 8405 (12-5-57)	Yes		C F	12.50 15.20	2.50 3.33	11.00 8.05					
Purina Rabbit Chow Checkers (Complete Ration A.)..... E 8406 (12-5-57) D 4631 (7-17-58)	Yes		C F F	15.00 16.65 16.10	2.00 2.62 2.88	18.00 14.20 13.94					
Purina Turkey Chowder..... E 8407 (12-5-57)	Yes		C F	36.00 36.45	3.00 4.27	9.00 6.98					
Purina Lay Chow Checker-etts..... D 4639 (7-17-58) D 6680 (11-26-58)	Yes		C F F	22.00 23.05 23.70	3.50 3.83 4.33	5.50 5.21 5.12					
Purina Hog Chow (K) 50 AB Medicated..... D 4496 (7-31-58) D 4120 (9-30-58) D 5288 (11-4-58) D 6674 (11-26-58)	Yes		C F F F F	36.00 36.05 36.10 36.05 36.00	0.50 1.33 1.75 1.50 1.58	8.00 5.72 5.55 6.93 7.60	4.00 3.40 3.00 4.00	1.40 1.43 1.29 1.44	0.0003 0.0010 0.00076 0.00097	3.00 2.40 2.21 2.16	
Purina Chicken Breeder Chowder Mash..... D 4498 (7-31-58)	Yes		C F	36.00 38.55	5.50 6.73	8.00 5.90	6.50 5.40	2.00 2.40	0.0004 0.0006	3.00 2.10	
Purina Turkey Startena..... D 4115 (9-30-58)	Yes		C F	28.00 31.50	3.00 4.19	5.50 4.53					
Purina Poultry Booster Chow..... D 4628 (7-17-58)	Yes		C F	24.00 25.25	2.50 3.85	6.50 5.35					

Purina Chick Growing Chow.....	Yes	C	23.00	2.50	7.50	-----	-----	-----	-----	
D 4629 (7-17-58)		F	23.75	3.25	6.08	-----	-----	-----	-----	
D 4499 (7-31-58)		F	23.00	3.59	6.50	-----	-----	-----	-----	
Purina 0.0022% D.E.S. Mix In Purina										
Steer Fatena 65%.....	Yes	C	65.00	0.50	12.00	-----	-----	-----	-----	
D 4635 (7-17-58)		F	66.38	3.16	6.37	-----	-----	-----	-----	
Purina Chick Growena Checker-etts.....	Yes	C	17.00	3.00	7.00	-----	-----	-----	-----	
D 4636 (7-17-58)		F	18.75	4.11	5.76	-----	-----	-----	-----	
D 4124 (9-30-58)		F	19.80	4.06	4.98	-----	-----	-----	-----	

RANDOLPH FOODS, GUTHRIE CENTER, IOWA

Dried Buttermilk.....	Yes	C	30.00	5.00	1.00	-----	-----	-----	-----	
D 3429 (11-14-58)		F	33.90	8.27	0.00	-----	-----	-----	-----	

RATH PACKING COMPANY, WATERLOO, IOWA

Rath "Super 45" Swine Mix Medicated.....	Yes	C	45.00	2.50	4.00	5.00	2.50	0.0025	-----	
D 1061 (2-27-58)		F	46.70	4.51	3.71	4.70	2.72	0.0022	-----	
Rath 0.0022% D.E.S. Mixture Inc In Rath										
42% Cattle Concentrate.....	Yes	C	42.00	1.25	6.00	2.00	1.25	0.0006	2.00	7
D 1062 (2-27-58)		F	42.95	2.12	5.92	1.50	0.961	0.0011	1.38	
Rath 41% Pig & Hog Concentrate Medicated.....	Yes	C	41.00	4.50	5.50	-----	-----	-----	-----	
D 3779 (4-24-58)		F	43.85	6.85	4.90	-----	-----	-----	-----	
Rath 18% "Sweet" Pig Starter Medicated.....	Yes	C	18.00	3.00	3.50	-----	-----	-----	-----	
D 3785 (4-24-58)		F	18.90	3.95	2.70	-----	-----	-----	-----	
Rath "Big 50" Swine Mix.....	Yes	C	50.00	4.50	3.50	6.00	2.00	0.0025	2.50	6
D 5545 (9-24-58)		F	53.15	6.18	1.11	5.80	1.93	0.0030	3.26	
Rath 41% Pig & Hog Concentrate.....	Yes	C	41.00	4.50	5.50	-----	-----	-----	-----	
D 5546 (9-24-58)		F	42.05	6.51	5.10	-----	-----	-----	-----	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
RALSTON PURINA CO., ST. LOUIS, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Purina D & F Chow J..... E 8405 (12-5-57)	Yes		C	12.50	2.50	11.00					
			F	15.20	3.33	8.05					
Purina Rabbit Chow Checkers (Complete Ration A.)..... E 8406 (12-5-57)	Yes		C	15.00	2.00	18.00					
D 4631 (7-17-58)			F	16.65	2.62	14.20					
			F	16.10	2.88	13.94					
Purina Turkey Chowder..... E 8407 (12-5-57)	Yes		C	36.00	3.00	9.00					
			F	36.45	4.27	6.98					
Purina Lay Chow Checker-etts..... D 4639 (7-17-58)	Yes		C	22.00	3.50	5.50					
D 6680 (11-26-58)			F	23.05	3.83	5.21					
			F	23.70	4.33	5.12					
Purina Hog Chow (K) 50 AB Medicated..... D 4496 (7-31-58)	Yes		C	36.00	0.50	8.00	4.00	1.40	0.0003	3.00	
D 4120 (9-30-58)			F	36.05	1.33	5.72	3.40	1.43	0.0010	2.40	
D 5288 (11-4-58)			F	36.10	1.75	5.55	3.00	1.29	0.00076	2.21	
D 6674 (11-26-58)			F	36.05	1.50	6.93	4.00	1.44	0.00097	2.16	
			F	36.00	1.58	7.60					
Purina Chicken Breeder Chowder Mash..... D 4498 (7-31-58)	Yes		C	36.00	5.50	8.00	6.50	2.00	0.0004	3.00	
			F	38.55	6.73	5.90	5.40	2.40	0.0006	2.10	
Purina Turkey Startena..... D 4115 (9-30-58)	Yes		C	28.00	3.00	5.50					
			F	31.50	4.19	4.53					
Purina Poultry Booster Chow..... D 4628 (7-17-58)	Yes		C	24.00	2.50	6.50					
			F	25.25	3.85	5.35					

Purina Chick Growing Chow.....	Yes	C	23.00	2.50	7.50	.....	.....	.....	.....	
D 4629 (7-17-58)		F	23.75	3.25	6.08	.....	.....	.....	.....	
D 4499 (7-31-58)		F	23.00	3.59	6.50	.....	.....	.....	.....	
Purina 0.0022% D.E.S. Mix In Purina										
Steer Fatena 65%.....	Yes	C	65.00	0.50	12.00	.....	.....	.....	.....	
D 4635 (7-17-58)		F	66.38	3.16	6.37	.....	.....	.....	.....	
Purina Chick Growena Checker-etts.....	Yes	C	17.00	3.00	7.00	.....	.....	.....	.....	
D 4636 (7-17-58)		F	18.75	4.11	5.76	.....	.....	.....	.....	
D 4124 (9-30-58)		F	19.80	4.06	4.98	.....	.....	.....	.....	

RANDOLPH FOODS, GUTHRIE CENTER, IOWA

Dried Buttermilk.....	Yes	C	30.00	5.00	1.00	.....	.....	.....	.....	
D 3429 (11-14-58)		F	33.90	8.27	0.00	.....	.....	.....	.....	

RATH PACKING COMPANY, WATERLOO, IOWA

Rath "Super 45" Swine Mix Medicated.....	Yes	C	45.00	2.50	4.00	5.00	2.50	0.0025	.....	
D 1061 (2-27-58)		F	46.70	4.51	3.71	4.70	2.72	0.0022	.....	
Rath 0.0022% D.E.S. Mixture Inc In Rath										
42% Cattle Concentrate.....	Yes	C	42.00	1.25	6.00	2.00	1.25	0.0006	2.00	7
D 1062 (2-27-58)		F	42.95	2.12	5.92	1.50	0.961	0.0011	1.38	
Rath 41% Pig & Hog Concentrate Medicated.....	Yes	C	41.00	4.50	5.50	.....	.....	.....	.....	
D 3779 (4-24-58)		F	43.85	6.85	4.90	.....	.....	.....	.....	
Rath 18% "Sweet" Pig Starter Medicated.....	Yes	C	18.00	3.00	3.50	.....	.....	.....	.....	
D 3785 (4-24-58)		F	18.90	3.95	2.70	.....	.....	.....	.....	
Rath "Big 50" Swine Mix.....	Yes	C	50.00	4.50	3.50	6.00	2.00	0.0025	2.50	6
D 5545 (9-24-58)		F	53.15	6.18	1.11	5.80	1.93	0.0030	3.26	
Rath 41% Pig & Hog Concentrate.....	Yes	C	41.00	4.50	5.50	.....	.....	.....	.....	
D 5546 (9-24-58)		F	42.05	6.51	5.10	.....	.....	.....	.....	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
RATH PACKING COMPANY, WATERLOO, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Rath Big "50" Swine Mix Medicated D 1053 (2-27-58)	Yes		C F	50.00 50.65	4.50 7.07	3.50 2.76	6.00 6.26	2.00 2.38	0.0025 0.0023	2.50 3.18	6
Rath 38% Poultry Concentrate D 1054 (2-27-58)	Yes		C F	38.00 39.35	3.50 5.73	7.00 6.07	5.75 5.75	1.90 1.84	0.0003 0.00054	3.00 3.16	
Rath 18% Pig Starter Medicated D 1055 (2-27-58)	Yes		C F	18.00 18.55	3.00 3.85	3.50 2.68					
D 3781 (4-24-58)			F	19.50	4.15	2.95					
D 4461 (7-21-58)			F	20.35	4.09	2.71					
D 5544 (9-24-58)			F	19.75	3.69	2.97					
Rath 36% Sow Concentrate Medicated D 1056 (2-27-58)	Yes		C F	36.00 38.70	3.00 4.44	8.50 7.27					
Rath 22% Chick Starter Medicated D 1057 (2-27-58)	Yes		C F	22.00 24.75	3.00 3.62	4.50 4.15					
Rath 46% Dairy Mix D 1058 (2-27-58)	Yes		C F	46.00 47.90	1.00 1.06	6.00 6.31	3.00 2.30	1.60 1.22	0.0004 0.00106	2.00 1.02	7
Rath 17% Pig Grower Medicated D 1059 (2-27-58)	Yes		C F	17.00 17.85	3.50 3.83	4.50 4.80					
Rath 38% Starter-Broiler Concentrate Medicated D 1060 (2-27-58)	Yes		C F	38.00 39.30	3.50 5.94	8.00 7.58	5.00 4.20	2.00 1.72	0.0003 0.00074	1.50 2.55	7, 6
Rath 55% Digester Tankage D 77 (12-6-57)	Yes		C F	55.00 55.90	6.00 6.97	3.00 1.89					
Rath 50% Meat & Bone Meal D 78 (12-6-57)	Yes		C F	50.00 51.00	6.00 11.80	3.00 2.02					
D 1591 (4-8-58)			F	50.40	12.70	2.43					

Antibiotic Mix Inc In Rath "Super 45" Swine Mix ..... D 245 (2-27-58)	Yes	C F	45.00 47.25	2.50 4.39	4.00 4.05	5.00 4.50	2.50 2.74	0.0025 0.0024	
Rath 36% Sow Concentrate..... D 246 (2-27-58) D 249 (2-27-58)	Yes	C F F	36.00 34.65 37.90	3.00 5.50 5.25	8.50 7.70 7.46				2a
Rath 60% Digester Tankage..... D 247 (2-27-58) D 4924 (7-9-58)	Yes	C F F	60.00 59.95 61.85	6.00 9.78 10.01	3.00 1.65 1.41				
Rath 28% Pig Grower Medicated..... D 248 (2-27-58) D 3783 (4-24-58)	Yes	C F F	28.00 29.10 28.25	3.50 4.29 4.65	4.00 3.70 3.65				
Rath 27% Grain Balancer..... D 1051 (2-27-58)	Yes	C F	27.00 29.30	2.50 4.54	8.00 6.94	3.00 2.60	1.50 1.52	0.0001 0.0004	1.50 1.57
Rath 41% Pig and Hog Concentrate H.M. Medicated ..... D 1052 (2-27-58) D 3780 (4-24-58) D 4923 (7-9-58)	Yes	C F F F	41.00 41.30 41.45 44.25	4.50 6.36 7.00 6.54	5.50 4.43 5.50 5.33				

RAVEN FEEDS, INC., COUNCIL BLUFFS, IOWA

Raven 32% Supplement "A"..... D 4105 (9-3-58)	Yes	C F	32.00 32.70	2.25 6.41	12.00 13.95				4
Raven 22% Cattle Feed..... D 4106 (9-3-58)	Yes	C F	22.00 22.20	2.50 6.11	12.50 13.62				4, 1a
Raven Super Sow and Pig Supplement..... D 4107 (9-3-58)	Yes	C F	27.00 28.25	4.20 4.63	8.50 6.51				
Raven 0.0011% D.E.S. Mix Inc In 32% Supplement A..... D 4108 (9-3-58)	Yes	C F	32.00 30.40	2.25 5.05	12.00 12.12				2a
Raven Hi-Energy Pig Grower Sweetened Pellets Medicated..... D 4109 (9-3-58)	Yes	C F	27.00 26.60	3.50 4.21	7.50 6.85				2

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 RAVEN FEEDS, INC., COUNCIL BLUFFS, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Raven Kaf-Ade Supplement Medicated D 4110 (9-3-58)	Yes		C F	26.00 27.95	4.50 3.54	7.50 6.90					3
Raven Hi-Energy Pig Booster Sweetened Pellets Medicated D 4111 (9-3-58)	Yes		C F	20.00 23.30	4.00 4.07	5.50 4.63					
Raven 40% Hog Fattener Medicated D 4112 (9-3-58)	Yes		C F	40.00 39.60	4.00 4.41	7.50 6.38					
Raven Delicious Pellets D 4113 (9-3-58)	Yes		C F	9.00 13.45	3.00 3.45	13.50 8.63					
Raven 0.0011% D.E.S. Mix Inc In 22% Cattle Feed D 4114 (9-3-58)	Yes		C F	22.00 22.65	2.20 6.41	12.00 15.37					4

RAY-VITAM PRODUCTS CO., WASECA, MINNESOTA

Ray-Vitam "400" Vitamin Supplement D 1259 (3-11-58)	Yes		C F	28.00 38.25	4.00 6.52	8.00 4.50					
Ray-Vitam Super Lift Antibiotic & Vitamin Supplement D 1260 (3-11-58)	Yes		C F	6.00 9.90	2.00 1.22	5.50 0.77					3

RED STAR MILLS, CORNING, IOWA

Red Star Dry Lot 36% Hog Feed E 9166 (12-6-57)	Yes		C F	36.00 39.60	3.00 3.55	8.00 6.35					
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Red Star Scratch Grain E 9167	(12-6-57)	Yes	C F	10.00 11.00	2.00 3.14	3.00 1.40				
Red Star Dairy Concentrate E 9176	(12-6-57)	Yes	C F	30.00 35.35	2.00 2.01	7.00 6.50				
Red Star Chick Starter Medicated E 9162	(12-6-57)	Yes	C F	20.00 22.05	2.00 4.10	6.00 5.55				
Red Star Pig & Sow Feed E 9163	(12-6-57)	Yes	C F	18.00 20.40	2.00 3.84	6.50 5.90				
Red Star Baby Pig Starter E 9164	(12-6-57)	Yes	C F	20.00 21.10	2.00 3.98	4.00 2.80				
Red Star Dairy Feed E 9165	(12-6-57)	Yes	C F	16.50 19.25	2.00 3.20	7.00 6.45				
Red Star 26% Hencentrate E 9154	(12-6-57)	Yes	C F	26.00 28.15	2.00 3.58	8.00 6.60				
Red Star Layer-Breeder E 9155	(12-6-57)	Yes	C F	20.00 21.75	2.00 3.99	6.00 5.50				
Red Star Chick Grower Medicated E 9156	(12-6-57)	Yes	C F	20.00 22.80	2.00 4.45	6.00 4.31				
Red Star Range Feed E 9157	(12-6-57)	Yes	C F	22.00 25.85	3.00 3.48	9.00 11.05				4
Red Star Super 40% Hog Feed E 9158	(12-6-57)	Yes	C F	40.00 41.95	1.50 3.15	6.00 4.47				
Red Star 36% Hog Feed E 9159	(12-6-57)	Yes	C F	36.00 38.25	3.50 4.26	5.50 3.88				
Red Star Mash Maker E 9160	(12-6-57)	Yes	C F	33.00 36.80	2.00 3.40	7.50 5.52				
Red Star Sweet Beef Supplement E 9161	(12-6-57)	Yes	C F	30.00 32.40	2.00 2.85	8.00 7.40				

RED STAR YEAST & PRODUCTS CO., MILWAUKEE, WISCONSIN

Tora Feed Brand Dried Torula Yeast D 1430	(12-5-57)	Yes	C F	45.00 50.30	0.50 0.73	3.00 2.20				
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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
REGAL PACKER BY-PRODUCTS, LYNN CENTER, ILLINOIS

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Regal 50% Meat & Bone Scraps.....	Yes		C	50.00	5.00	3.00					1a 61
D 1701 (2-19-58)			F	51.05	8.62	2.03					
D 1099 (5-8-58)			F	51.55	9.48	1.65					
Regal Digester Tankage.....	Yes		C	60.00	5.00	5.00					
D 1577 (4-2-58)			F	60.75	8.05	3.69					
D 880 (6-27-58)			F	60.60	8.22	2.39					
D 4738 (9-2-58)			F	62.10	6.91	2.90					
D 5416 (12-2-58)			F	60.00	10.12	1.79					
D 6923 (12-4-58)	F	61.25	8.38	3.60							
Regal Fish Meal.....	Yes		C	60.00	5.00	2.00					2a 3
D 888 (6-27-58)			F	60.75	7.31	0.24					
D 2104 (7-3-58)			F	60.25	6.90	0.57					
D 4734 (9-2-58)			F	58.68	9.79	0.67					
D 5414 (12-2-58)			F	60.00	8.95	2.87					
Regal Meat & Bone Scraps.....	Yes		C	50.00	5.00	5.00					
D 5037 (7-25-58)			F	50.00	8.49	1.83					
D 4737 (9-2-58)			F	52.00	9.29	3.00					
D 5415 (12-2-58)			F	52.10	9.68	3.87					

REID'S FEEDS, MANILLA, IOWA

Reid's Du-Mor 40% Poultry Concentrate.....	Yes		C	40.00	3.50	6.50					
D 975 (8-14-58)			F	40.35	9.68	5.99					
Reid's Du-Mor 32% Beef-Gro Supplement.....	Yes		C	32.00	1.50	7.00					
D 976 (8-14-58)			F	35.60	2.12	6.77					
Reid's Rolled Oat Groats.....	Yes		C	16.00	6.00	2.50					
D 977 (8-14-58)			F	17.85	5.90	2.64					

Reid's Du-Mor 32% Dairy Concentrate D 979 (8-14-58)	Yes	C F	32.00 34.05	1.50 2.92	8.00 6.34				
Reid's Du-Mor 35% Hog Concentrate D 981 (8-14-58)	Yes	C F	35.00 33.80	2.00 6.57	8.00 5.94				2a
Reid's Du-Mor 30% Brood Sow Supplement D 983 (8-14-58)	Yes	C F	30.00 31.25	2.50 6.67	9.00 8.14				
Reid's Du-Mor 30% Hog Concentrate D 984 (8-14-58)	Yes	C F	30.00 31.25	2.50 6.15	5.00 4.57				
Reid's Du-Mor Pig Starter D 985 (8-14-58)	Yes	C F	16.00 16.10	4.00 4.84	3.00 2.71				
Reid's Du-Mor 30% Pig Grower Supplement D 982 (8-14-58)	Yes	C F	30.00 30.60	3.00 6.01	5.50 5.86				
Reid's Active Live Culture D 980 (8-14-58)	Yes	C F	7.50 9.50	1.50 1.50	3.50 4.25				4
D 978 (8-14-58)		F	9.45	1.38	3.99				4
Reid's Du-Mor Pig Starter Medicated D 986 (8-14-58)	Yes	C F	16.00 15.70	4.00 4.78	3.00 2.66				
Reid's Du-Mor 26% Cafeteria Laying Mash D 987 (8-14-58)	Yes	C F	26.00 30.35	2.75 5.09	8.00 6.13				
Reid's Du-Mor 27% Cattle Supplement D 988 (8-14-58)	Yes	C F	27.00 28.50	1.50 1.96	6.00 7.24				4
Reid's 37% Cafeteria Chicken Supplement Medicated D 989 (8-14-58)	Yes	C F	37.00 38.40	3.00 6.66	7.00 6.94				
Reid's Du-Mor Beef Starter D 990 (8-14-58)	Yes	C F	18.00 20.00	2.50 3.45	10.00 9.20				
Reid's Du-Mor 0.0022% D.E.S. Mix Inc. In Reid's Du-Mor 32% Beef Supplement D 991 (8-14-58)	Yes	C F	32.00 35.00	1.50 2.45	7.00 6.77				
Reid's Du-Mor Culture Feed D 992 (8-14-58)	Yes	C F	21.00 23.05	3.80 3.47	2.50 4.73				3, 4
Reid's Du-Mor Start-To-Finish Mash D 994 (8-14-58)	Yes	C F	20.00 22.50	3.25 4.80	6.25 5.06				

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## REITER FEED COMPANY, WALL LAKE, IOWA

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ANNUAL REPORT

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Top Notch 36% Dairy Concentrate D 1000 (8-28-58)	Yes		C F	36.00 39.95	1.50 3.00	7.00 5.31	3.70 2.70	1.00 0.77	0.002 0.0012	3.00 2.19	8
Top Notch 16% Egg Mash D 903 (8-28-58)	Yes		C F	16.00 18.20	3.50 3.91	6.00 3.97					
Top Notch 26% Egg Balancer D 904 (8-28-58)	Yes		C F	26.00 27.85	3.50 4.60	8.00 6.60	5.00 4.90	1.60 1.65	0.0025 0.0020	2.00 1.85	
Top Notch 16% Chick Grower D 905 (8-28-58)	Yes		C F	16.00 17.50	3.50 3.98	7.00 5.97					
Top Notch 35% Sow & Pig Concentrate D 906 (8-28-58)	Yes		C F	35.00 37.55	2.50 4.76	9.00 7.13	4.00 3.70	1.10 1.00	0.001 0.0011	3.00 2.63	
Reiter Top Notch Hog Balancer Medicated D 907 (8-28-58)	Yes		C F	40.00 40.15	4.00 4.55	6.00 6.12	5.00 3.90	2.00 1.82	0.0015 0.0014	2.00 1.75	
Top Notch 40% Hog Concentrate D 908 (8-28-58)	No		C F	40.00 41.20	2.50 4.46	7.00 6.33					1a

## RELIABLE CHEMICAL COMPANY, MARCUS, IOWA

Reliable Chemical Co.'s D.E.S. Mix D 7537 (12-12-58)	Yes		C F	32.00 28.30	5.23 2.12	6.23 7.90	2.80 2.80	1.00 0.91	0.0385 0.0019		2a, 3, 4, 8
R.C.C. Growth Builder D 7538 (12-12-58)	Yes		C F	33.00 34.40	3.00 4.47	4.75 6.99	6.85 5.30	1.00 2.27	0.005 0.0017	1.00 0.26	4, 8
Reliable A-1 Poultry Concentrate D 7539 (12-12-58)	Yes		C F	31.00 33.70	5.00 4.52	7.25 7.44					3
A-1-Hi-Pro D 7544 (12-12-58)	Yes		C F	46.00 44.90	4.25 5.48	3.00 3.68					2a, 4

RICEVILLE GRAIN CO., RICEVILLE, IOWA

Farmers Choice 40% Hog Concentrate.....	Yes	C	40.00	3.00	9.00	3.50	1.24	0.0003	2.75	2a 3
D 711 (4-3-58)		F	38.00	3.60	7.00	3.40	1.55	0.0005	2.10	
E 8601 (5-23-58)		F	41.35	1.66	6.55					
"Farmers Choice" 20% Laying Mash.....	Yes	C	20.00	3.00	6.50					
D 712 (4-3-58)		F	20.50	3.35	6.50					
D 6396 (10-31-58)		F	20.95	3.97	5.64					
Farmers Choice 40% Hog Concentrate.....	Yes	C	40.00	3.00	9.00	5.00	1.24	0.0003	2.75	3
D 6397 (10-31-58)		F	40.55	1.88	6.48	3.50	1.09	0.0009	2.36	

RISEWICK FEED COMPANY, AMES, IOWA

Risewick Pig Starter Medicated.....	Yes	C	16.00	4.00	4.00					
D 2738 (5-5-58)		F	19.20	4.45	2.43					
Risewick Hog Feed.....	Yes	C	35.00	4.70	8.00					3
D 2739 (5-5-58)		F	40.50	3.43	7.45					
Risewick 25% Cafeteria Style Feed.....	Yes	C	25.00	3.50	10.00					
D 2740 (5-5-58)		F	29.80	4.15	5.46					
Risewick Laying Mash.....	Yes	C	18.00	3.50	7.00					
D 2741 (5-5-58)		F	20.80	3.59	6.46					
Risewick Dairy Supplement.....	No	C	32.00	2.50	7.00					3
D 2742 (5-5-58)		F	36.85	1.69	6.76					
Risewick Starter Mash.....	No	C	18.00	3.00	6.00					
D 2737 (5-5-58)		F	22.15	3.73	4.02					

RIVERSIDE GRAIN & FEED CO., RIVERSIDE, IOWA

Piper's 40% Pork Maker Medicated.....	Yes	C	40.00	2.50	6.00					
E 7058 (5-1-58)		F	41.25	3.69	5.87					
E 7285 (7-2-58)		F	40.25	4.24	6.02					
Piper's 18% Sugared Pig Starter Medicated.....	Yes	C	18.00	3.00	5.00					
E 7059 (5-1-58)		F	20.15	4.11	4.11					
E 7288 (7-2-58)		F	20.60	5.11	5.17					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
RIVERSIDE GRAIN & FEED CO., RIVERSIDE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Piper's 20% Egg Mash.....	Yes		C	20.00	2.50	7.00					
E 7060 (5-1-58)			F	23.65	3.86	5.67					
E 7287 (7-2-58)			F	24.55	3.89	6.06					
Piper's 32% Mash Builder Medicated.....	Yes		C	32.00	2.50	8.00	5.00	2.00	0.00022	2.00	
E 7061 (5-1-58)			F	35.60	4.90	6.96					
E 7284 (7-2-58)			F	34.35	4.27	5.62	5.70	2.27	0.0086	2.06	5
Piper's 21% Pig & Sow Medicated.....	Yes		C	21.00	2.50	6.50					
E 7062 (5-1-58)			F	23.10	3.63	5.55					
E 7289 (7-2-58)			F	23.40	3.27	5.63					
Piper's Mineral Feed.....	Yes		C				30.00	6.00	0.01	6.00	
E 7063 (5-1-58)			F				27.20	6.12	0.011	2.10	
Piper's 32% Cattle Supplement.....	Yes		C	32.00	0.50	9.00	2.50	0.90	0.00022	2.70	
E 7291 (7-2-58)			F	35.40	1.57	7.06	2.70	0.93	0.00066	2.47	

J. ROACH SONS, INC., PLAINFIELD, IOWA

Roach's Mineral for Livestock & Poultry.....	Yes		C				19.00	5.00	0.006	10.00	
D 114 (11-8-57)			F				18.80	5.40	0.0174	10.20	
Special Chick Grower Medicated.....	Yes		C	18.50	4.50	5.50					
D 4588 (10-1-58)			F	15.85	4.70	5.99					2a, 4
Laying Ration.....	Yes		C	17.50	4.00	7.00					
D 4589 (10-1-58)			F	16.60	4.73	5.97					
D 2353 (11-14-58)			F	17.60	4.94	5.23					2a
Master Calf Producer.....	Yes		C	18.00	3.00	6.00					
D 4590 (10-1-58)			F	19.40	3.80	5.23					

26% Poultry Ration.....	Yes		C	26.00	3.00	7.50	2.80	1.00	0.0004	1.70	
D 4591 (10-1-58)			F	25.00	5.01	7.82	3.40	1.51	0.0015	1.25	2a, 5
D 2354 (11-14-58)			F	25.50	5.24	8.09	3.10	1.57	0.0008	1.17	2, 4
Master Pig Grower Medicated.....	Yes		C	14.50	4.00	3.00					
D 4592 (10-1-58)			F	16.40	4.53	2.61					
Economy Swine Concentrate Medicated.....	Yes		C	37.00	1.00	5.00	3.50	1.70	0.00027	2.50	
D 4593 (10-1-58)			F	38.05	1.85	6.51	2.30	1.36	0.0016	2.34	4
D 2355 (11-14-58)			F	38.00	3.33	7.20	2.40	1.51	0.0018	2.23	4
Swine Concentrate Medicated.....	Yes		C	38.00	1.50	7.50	3.50	2.00	0.0008	2.50	
D 4594 (10-1-58)			F	38.45	2.22	7.52	3.10	1.58	0.0037	2.66	7
D 2352 (11-14-58)			F	38.55	4.42	7.17	2.90	1.58	0.0034	2.84	7
40% Dairy Concentrate.....	Yes		C	40.00	2.50	8.00	3.00	0.70	0.0006	3.00	
D 4595 (10-1-58)			F	39.20	4.18	7.35	2.40	1.07	0.0019	2.84	2
D 2356 (11-14-58)			F	40.00	2.93	5.32	3.10	1.47	0.0010	3.14	
Master Pig Producer Medicated.....	Yes		C	17.00	4.00	3.00					
D 4596 (10-1-58)			F	17.80	4.52	2.32					
Poultry Concentrate.....	Yes		C	36.00	1.30	8.50	6.00	2.00	0.0008	3.00	
D 4597 (10-1-58)			F	36.55	5.61	7.12	6.20	2.29	0.0019	2.72	
Master Pig Pre Mix Medicated.....	Yes		C	32.50	1.80	4.00	4.50	2.25	0.006	2.00	
D 4598 (10-1-58)			F	32.50	3.65	5.00	4.70	2.22	0.0049	2.88	4, 6
D 2351 (11-14-58)			F	34.20	4.64	4.15	5.40	2.32	0.005	2.65	6, 5
Roach's Rations D.E.S. Mixture Inc In Beef Concentrate.....	Yes		C	34.00	1.50	9.00	2.50	0.70	0.0004	3.00	
D 4599 (10-1-58)			F	37.10	2.84	9.36	2.50	1.04	0.0017	2.66	
Roach Trace Mineral Pre-Mix No. 1.....	No	Yes	C				22.00		0.35		
D 4651 (10-1-58)			F				24.00		0.227		5, 8

ROCKFORD FEED MILL, ROCKFORD, IOWA

Lohr's 18% Chick Starter.....	Yes		C	18.00	4.00	6.00					
D 737 (4-23-58)			F	19.10	4.60	4.77					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 RODNEY MILLING CO., KANSAS CITY, MISSOURI

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Heart of America Pure Wheat Bran.....	Yes		C	14.50	3.50	10.00					
D 2546 (4-29-58)			F	16.15	4.61	10.24					
D 2555 (4-29-58)			F	17.70	4.52	7.00					
D 2030 (8-19-58)			F	17.35	4.21	10.36					
Jersey Wheat Gray Shorts and Ground Wheat Screenings not exceeding Mill Run.....	Yes		C	16.00	3.50	6.00					
D 2457 (6-5-58)			F	18.10	4.65	6.30					
Wheat Mixed Feed and ground wheat screenings not exceeding mill run.....	Yes		C	15.00	3.50	8.50					
D 2029 (8-19-58)			F	18.20	4.23	7.88					

ROOSTER MILLS CO., DUBUQUE, IOWA

Manamar 40% Hog Concentrate.....	Yes		C	40.00	2.00	6.00					
D 3863 (5-12-58)			F	39.50	2.15	6.17					
Manamar 32% Dairy Pusher.....	Yes		C	32.00	2.00	10.00					
D 3864 (5-12-58)			F	30.55	2.64	9.20					2a
Manamar Sweet 16% Dairy Feed.....	Yes		C	16.00	2.00	9.50					
D 3865 (5-12-58)			F	19.75	4.07	10.91					4
Manamar Big Pig Builder RX Medicated.....	Yes		C	18.00	3.00	6.00					
D 3866 (5-12-58)			F	19.70	3.72	5.63					
Manamar 26% Cafeteria.....	Yes		C	26.00	2.50	9.50					
D 3859 (5-12-58)			F	27.40	2.92	9.23					
Rooster Mills Money Saver 20% Egg Mash.....	Yes		C	20.00	3.00	6.50					
D 3860 (5-12-58)			F	18.55	3.92	6.32					2a

Manamar 18% Grower Bits Medicated..... Yes C 18.00 3.00 6.50



Manamar 18% Grower Bits Medicated D 3861 (5-12-58)	Yes	C	18.00	3.00	6.50				
		F	20.60	4.05	5.37				
Manamar 34% Super Poultry Concentrate D 3862 (5-12-58)	Yes	C	34.00	2.00	8.50				
		F	34.00	2.17	6.73				
Manamar Rooster Hen Grains D 3855 (5-12-58)	Yes	C	10.00	2.50	4.00				
		F	10.85	3.61	2.21				
Manamar 20% Egg Mash Bits D 3856 (5-12-58)	Yes	C	20.00	3.50	6.50				
		F	19.60	4.18	6.08				2
Manamar 35% Sow & Pig D 3857 (5-12-58)	Yes	C	35.00	2.00	9.00				
		F	35.05	2.38	6.67				
Manamar 20% Chick Starter Medicated D 3858 (5-12-58)	Yes	C	20.00	3.00	6.00				
		F	22.20	4.54	4.97				

RYAN COOP, RYAN, IOWA

Felco Sow Supplement D 3952 (6-5-58)	Yes	C	32.00	2.00	9.00				
		F	33.75	4.65	9.00				
Felco Growing Mash Medicated D 3953 (6-5-58)	Yes	C	20.00	2.00	7.00				
		F	21.95	3.27	5.50				
Felco 20% Layer-Breeder D 3954 (6-5-58)	Yes	C	20.00	2.00	8.00				
		F	22.05	3.55	6.11				
Felco Starting Mash Medicated D 3955 (6-5-58)	Yes	C	20.00	2.00	7.00				
		F	22.20	3.68	5.87				
Felco Special Dry Lot Hog Supplement D 3956 (6-5-58)	Yes	C	35.00	1.50	9.00				
		F	36.90	4.34	8.14				
Felco Special Hog Balancer D 3957 (6-5-58)	Yes	C	40.00	1.50	9.00				
		F	43.30	3.12	6.56				
Felco Pig Grower Medicated D 3958 (6-5-58)	Yes	C	16.00	2.00	6.00				
		F	18.45	4.00	4.52				
Felco 26% No Grain Layer-Breeder D 3959 (6-5-58)	Yes	C	26.00	2.00	9.00				
		F	27.40	3.47	8.00				
Felco Pig Starter Medicated D 3960 (6-5-58)	Yes	C	18.00	3.00	5.00				
		F	21.45	4.95	3.40				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

RYAN COOP., RYAN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Mash Builder D 3961 (6-5-58)	Yes		C F	38.00 40.80	3.00 5.70	8.00 5.93					
Felco All Mash D 3962 (6-5-58)	Yes		C F	16.00 20.50	2.50 4.66	8.00 5.79					
Felco Dairy Supplement D 3963 (6-5-58)	Yes		C F	35.00 40.40	0.50 1.33	8.00 5.05					

S & H PRODUCTS, INC., AUDUBON, IOWA

Dehydrated 17% Alfalfa Meal D 2037 (8-25-58)	Yes		C F	17.00 17.15	1.50 2.78	27.00 25.30					
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S & O PRODUCTS, INC., MARSHALLTOWN, IOWA

So-Rite Dr. Stephenson's Cattle & Sheep Mineral D 2119 (7-7-58)	Yes		C F				27.00 27.20	7.00 7.90	0.05 0.04	5.00 5.10	
So-Rite Horse Supplement D 2120 (7-7-58)	Yes		C F	35.60 36.55	3.00 2.85	8.30 9.76					4
So-Rite Cattle & Sheep Mineral Medicated D 2121 (7-7-58)	Yes		C F				27.00 26.80	7.00 8.40	0.05 0.05	5.25 4.87	
So-Rite Hog Mineral Medicated "B" D 2123 (7-7-58)	Yes		C F				25.00 25.20	7.00 14.90	0.05 0.04	5.00 4.90	
So-Rite Horse Mineral D 2124 (7-7-58)	Yes		C F				26.00 24.60	8.15 9.00	0.05 0.04	5.25 4.90	

So-Rite Special Cattle & Sheep Mineral D 2125 (7-7-58)	Yes	C F				25.00 25.70	9.40 10.00	0.05 0.04	5.00 4.70	5
So-Rite Cattle & Sheep Mineral Medicated "D" D 2126 (7-7-58)	Yes	C F				27.00 26.40	7.00 7.30	0.05 0.04	5.00 5.00	
So-Rite Hog Mineral D 2127 (7-7-58)	Yes	C F				25.00 25.60	7.00 7.70	0.05 0.043	5.00 5.10	5

ST. ANSGAR MILLS, ST. ANSGAR, IOWA

Old Mill Mixing Supplement for Hogs D 743 (4-23-58)	Yes	C F	35.00 38.50	1.50 3.00	8.50 7.15	5.00 4.60	2.00 2.00	0.005 0.005	2.00 2.20	
Old Mill Egg Mash D 740 (4-23-58)	Yes	C F	18.00 19.25	3.50 5.20	6.00 5.98					
Old Mill All-Mash Chick Starter Medicated D 741 (4-23-58)	Yes	C F	20.00 20.90	5.00 4.83	6.50 6.36					
Old Mill Dairy Supplement D 742 (4-23-58)	Yes	C F	30.00 30.95	2.50 1.80	8.50 8.06					3
Old Mill Cafeteria Mash D 6516 (12-3-58)	Yes	C F	26.00 27.25	4.50 4.98	6.50 8.72					4
Old Mill Hog Supplement D 6517 (12-3-58)	Yes	C F	40.00 40.45	4.00 4.00	7.00 6.30					

ST. ANSGAR GRAIN & FEED CO., ST. ANSGAR, IOWA

St. Ansgar Rolled Oats D 789 (8-21-58)	Yes	C F	16.00 17.50	5.50 6.03	2.50 1.72					
Cedar River Feeds 20% Egg Mash D 790 (8-21-58)	Yes	C F	20.00 20.45	3.75 4.16	6.50 6.33					
Cedar River Feeds 40% Hog Concentrate D 791 (8-21-58)	Yes	C F	40.00 40.80	4.50 4.71	7.00 4.92	4.80 5.00	1.30 1.98	0.0004 0.00086	2.00 3.19	6
Cedar River Feeds 26% Egg Balancer D 792 (8-21-58)	Yes	C F	26.00 27.95	3.50 4.55	8.00 8.63	5.00 4.60	1.60 1.75	0.0025 0.0012	2.00 2.00	4, 8

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
SANBORN COOP GRAIN CO., SANBORN, IOWA

Brand of Feed	Reg.	Reg- late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Felco Pig Starter Medicated..... D 2035 (8-25-58)	Yes		C F	18.00 22.65	3.00 5.41	5.00 3.74					
Felco Special Dry Lot Hog Supplement..... D 2038 (8-25-58)	Yes		C F	35.00 36.25	1.50 5.02	9.00 7.23	5.00 2.80	1.00 1.61	0.0008 0.0005	3.00 2.10	8
Felco Beef Supplement..... D 2039 (8-25-58)	Yes		C F	35.00 35.80	0.50 3.93	9.00 6.85					
Felco Growing Mash Medicated..... D 2041 (8-25-58)	Yes		C F	20.00 22.05	2.00 4.64	7.00 6.08					
Felco 26% No Grain Layer-Breeder..... D 2042 (8-25-58)	Yes		C F	26.00 28.95	2.00 5.07	9.00 8.47	5.00 3.40	1.00 1.59	0.0005 0.0007	3.00 1.45	

SANITARY RENDERING COMPANY, SIOUX CITY, IOWA

Sanco Meat & Bone Scraps 50% Protein..... D 2286 (8-14-58)	Yes		C F	50.00 52.70	5.00 11.18	3.00 1.91					
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SCHMADEKE FEED MILL, CLARKSVILLE, IOWA

Blue Ribbon 18% Egg Producer..... D 4579 (10-1-58)	Yes		C F	18.00 20.60	3.50 4.86	7.00 5.82					
Blue Ribbon 40% Hog Concentrate..... D 4580 (10-1-58)	Yes		C F	40.00 42.10	2.00 4.29	7.00 6.17	3.00 3.20	1.50 1.41	0.0003 0.00067	2.00 2.06	
Blue Ribbon 18% Pig Starter Medicated..... D 4581 (10-1-58)	Yes		C F	18.00 18.25	3.50 3.93	4.00 3.77					

Blue Ribbon 26% Poultry Balancer..... D 4582 (10-1-58)	Yes	C F	26.00 27.50	3.00 4.70	9.00 8.91	2.50 2.50	1.00 1.40	0.0002 0.00039	1.50 1.32	1a, 22
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SCHREIBER MILLS, INC., ST. JOSEPH, MISSOURI

Lassy Pig N Sow 35% Supplement Medicated... D 4468 (7-22-58)	Yes	C F	35.00 36.30	2.00 2.02	9.00 7.82					
Sweet Lassy Cattle Supplement..... D 2166 (10-31-58) D 5619 (12-3-58)	Yes	C F F	11.00 11.50 13.35	1.00 2.71 4.00	13.00 13.02 11.48					
Lassy Egg Producer Granules..... D 5614 (12-3-58)	Yes	C F	20.00 22.25	2.50 3.73	8.00 7.94					
Lassy Poultry Balancer Granules..... D 5615 (12-3-58)	Yes	C F	26.00 28.25	3.00 3.00	8.50 8.63	3.00 2.40	1.25 1.37	0.00125 0.00125	1.50 1.37	
Sweet Lassy Medicated Cattle Conditioning Feed ..... D 627 (4-2-58)	Yes	C F	12.00 12.95	1.00 3.97	13.00 10.51					
Sweet Lassy 0.0011% D.E.S. Mixture Inc In 22% Cattle Fattener..... D 3787 (4-24-58)	Yes	C F	22.00 24.45	1.00 2.00	13.00 12.25					
Lassy 0.0022% D.E.S. Mix Inc In Kattle Kubes ..... D 3782 (4-24-58)	Yes	C F	32.00 36.95	2.50 2.75	10.00 8.50					
Lassy 40% Balancer..... D 4342 (7-2-58) D 5616 (12-3-58)	Yes	C F F	40.00 40.05 42.25	1.50 1.56 1.84	7.00 5.46 5.26	4.50 4.60	1.00 1.26	0.0007 0.0011	1.00 0.66	
Lassy Nurse Lassy Pellets Medicated..... D 4343 (7-2-58) D 4913 (7-7-58) D 5618 (12-3-58)	Yes	C F F F	18.00 21.10 20.00 20.60	2.50 3.94 3.88 4.02	7.00 6.27 6.43 6.62					
Lassy 35% Pig N Sow Supplement..... D 4341 (7-2-58) D 4914 (7-7-58) D 5617 (12-3-58)	Yes	C F F F	35.00 32.30 36.25 36.90	2.00 2.56 2.13 2.16	9.00 8.70 7.35 8.80					2a

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 SCHREIBER MILLS, INC., ST. JOSEPH, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Lassy Pig Pre-Starter Pellets Medicated D 4911 (7-7-58)	Yes		C	20.00	3.50	4.50					
			F	22.75	4.80	4.01					
Lassy Pig N Sow Pellets 26% D 4473 (7-22-58)	Yes		C	26.00	2.50	9.00					
			F	28.05	2.80	7.76					

SCHROEDER FEED COMPANY, TABOR, IOWA

Meat & Bone Scraps E 9171 (12-6-57)	Yes		C	50.00	6.50	5.00					
			F	51.35	6.81	2.65					
Tankage E 9172 (12-6-57)	Yes		C	60.00	4.50	4.00					
			F	60.30	5.76	2.30					

H. J. SCHULT SON, SUMNER, IOWA

Schult's 35% Hog Supplement D 156 (12-10-57)	Yes		C	35.00	2.00	8.00	4.00	1.25			
			F	38.90	2.24	7.94	3.90	1.53			
Schult's 34% Dairy Supplement D 157 (12-10-57)	Yes		C	34.00	1.00	8.00					
			F	36.00	1.53	7.53					
Schult's 20% Egg Mash D 158 (12-10-57)	Yes		C	20.00	3.00	8.00					
			F	21.10	3.80	6.29					

SCHULTZ FEED & PRODUCE, HOLY CROSS, IOWA

Schultz 40% Hog Supplement D 5404 (11-19-58)	Yes		C	40.00	2.00	6.00	6.00	1.50	0.0002	2.00	
			F	38.50	3.63	5.67	4.10	1.67	0.0012	1.65	2a

Schultz Calvecin Pellet Feed

Yes

C

20.00

2.20

8.00

6.00

1.50

0.0002

2.00

Schultz Cafeteria Pullet Feed D 5405	(11-19-58)	Yes		C F	28.00 26.55	2.50 3.62	8.00 7.66												2a
Schultz Grade A Dairy Supplement D 5406	(11-19-58)	Yes		C F	40.00 40.30	0.50 1.72	8.00 5.06												
Schultz Sweetened Pig Starter D 5407	(11-19-58)	Yes		C F	18.00 22.05	6.00 5.04	3.00 5.01												2, 3

SHAFFER'S FEED & SUPPLY, MONTICELLO, IOWA

Shaffer's Dairy Mix D 4829	(11-7-58)	No		C F	15.00 17.65	3.50 3.40	10.00 11.18												4
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SHEFFIELD FARMERS COOP, SHEFFIELD, IOWA & /OR FARMERS COOP ELEVATOR, SHEFFIELD, IOWA

Chef Pig Starter Medicated D 3487	(6-25-58)	Yes		C F	17.00 20.00	3.00 4.20	6.00 2.96												
Farmers Coop. 45% Hog Supplement Medicated D 3484 D 4521	(6-25-58) (8-13-58)	Yes		C F F	45.00 39.25 39.00	4.80 6.81 6.60	4.50 4.66 5.10	6.50 7.90	2.40 2.98	0.00044 0.0014	3.50 3.20								2a, 5 2a, 4
Farmers Coop. 40% Hog Supplement Medicated D 3485	(6-25-58)	Yes		C F	40.00 41.65	2.70 3.55	7.50 4.90	5.00 4.90	1.40 1.79	0.00033 0.0009	3.00 3.00								
Farmers Coop. 36% Poultry Concentrate D 3486	(6-25-58)	Yes		C F	36.00 39.90	2.50 3.58	8.50 5.57												
Chef Super 45 Medicated D 4565	(9-17-58)	No	Yes	C F	45.00 48.55	4.80 4.28	4.50 3.62	6.50 5.20	2.40 1.93	0.00044 0.0028	3.50 3.37								3, 7

SHELL ROCK GRAIN & MILLING CO., SHELL ROCK, IOWA

Economy Laying Mash D 4576	(10-1-58)	Yes		C F	17.50 19.75	3.00 4.79	8.00 5.83												
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COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
SHELL ROCK GRAIN & MILLING CO., SHELL ROCK, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Economy Pig & Hog Supplement D 4577 (10-1-58)	Yes		C	32.00	2.00	10.00	8.00	0.50	0.001	6.50	
			F	36.55	2.88	6.79	3.50	1.10	0.0018	4.82	
Economy Concentrate D 4578 (10-1-58)	Yes		C	31.00	3.00	9.00	12.00	1.00	0.001	3.50	
			F	34.50	4.92	7.28	6.90	1.60	0.0014	2.36	

SHOEMAKER'S CASH FEED STORE, OTTUMWA, IOWA

Shoemaker's 40% Hog Balancer D 301 (12-10-57)	Yes		C	40.00	3.00	6.50					
			F	46.90	6.31	4.95					
Shoemaker's 14% Pig Grower D 302 (12-10-57)	Yes		C	14.00	3.75	6.00					
			F	20.40	4.68	3.60					
Shoemaker's 20% Egg Mash D 303 (12-10-57)	Yes		C	20.00	3.50	7.00					
			F	24.35	5.33	6.28					
Shoemaker's Corn & Oat Chop D 304 (12-10-57)	Yes		C	10.00	4.00	9.00					
			F	10.75	3.95	5.78					
Shoemaker's 16% Dairy Ration D 305 (12-10-57)	Yes		C	16.00	3.50	8.50					3
			F	17.50	2.97	6.21					

SHORTLEY ELEVATOR, STATE CENTER, IOWA

Shortley 18% Pig Starter E 8456 (2-25-58)	Yes		C	18.00	3.50	5.00					
			F	18.10	3.62	3.44					
Shortley 18% Chick Starter Medicated E 8457 (2-25-58) D 2066 (6-2-58)	Yes		C	18.00	4.00	5.00					
			F	19.40	4.26	3.73					
			F	19.05	4.05	3.49					

Shortley 18% Perky Pig Medicated (6-2-58) Yes C 18.00 3.50 4.00



Shortley 18% Perky Pig Medicated..... D 2067	(6-2-58)	Yes		C	18.00	3.50	4.00				
				F	19.15	4.00	3.52				

SIGOURNEY ELEVATOR, SIGOURNEY, IOWA

Fagen Feeds 26% Egg & Breeder Balancer..... E 4867	(12-5-57)	Yes		C	26.00	3.50	8.50				
				F	27.70	4.30	8.05				
Fagen Feeds 16% Dairy Ration..... E 4868	(12-5-57)	No	Yes	C	16.00	3.50	8.50				
				F	18.10	3.37	8.25				
Fagen Feeds 37% Egg Concentrate..... E 4869	(12-5-57)	Yes		C	37.00	3.25	7.50				
D 17	(6-3-58)			F	37.20	3.88	7.05				2a
				F	35.80	5.72	7.00				
Fagen Feeds 20% Egg Mash..... E 4870	(12-5-57)	Yes		C	20.00	3.75	7.00				
D 21	(6-3-58)			F	21.80	3.95	6.45				
				F	20.60	4.80	6.07				
Fagen Feeds 16% Baby Pig Pre-Starter Medicated..... E 4871	(12-5-57)	Yes		C	16.00	3.50	4.50				
				F	17.45	3.79	3.62				
Fagen Feeds 16% Pig Meal Medicated..... E 4872	(12-5-57)	No	Yes	C	16.00	3.50	6.50				
D 23	(6-3-58)			F	17.80	3.99	6.25				
				F	17.85	4.35	6.17				
Fagen Feeds 35% Sow & Pig Concentrate..... E 4873	(12-5-57)	Yes		C	35.00	2.50	9.00				
D 24	(6-3-58)			F	36.55	2.62	6.50				2
				F	34.50	3.23	8.71				
Fagen Feeds 40% Hog Supplement..... E 4874	(12-5-57)	Yes		C	40.00	4.00	6.50				
				F	41.25	3.80	6.19				
Fagen Feeds Sulfaquinoxaline Mix Inc in 18% Growing Mash..... D 27	(6-3-58)	Yes		C	18.00	4.00	6.00				2a
				F	16.25	4.76	6.30				
Fagen Feeds 20% Chick Starter Medicated..... D 19	(6-3-58)	No		C	20.00	4.00	6.50				2
				F	19.50	4.01	6.36				
Fagen Feeds 16% Pig Starter Medicated..... D 22	(6-3-58)	No		C	16.00	3.00	3.50				
				F	17.65	4.43	3.70				
Fagen Feeds 32% Dairy Concentrate..... D 18	(6-3-58)	Yes		C	32.00	2.00	7.00				
				F	35.50	3.15	6.22				

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
SIMONSEN MILL RENDERING PLANT, QUIMBY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Simonsen Pullet Developer..... D 2245 (7-8-58)	Yes		C	15.00	3.00	10.00					
			F	16.55	4.81	8.29					
Simonsen Pig Grower Medicated (AH)..... D 2246 (7-8-58)	Yes		C	16.00	4.00	4.00					
			F	18.65	4.47	3.83					
Simonsen Big Ten Medicated (A)..... D 2249 (7-8-58)	Yes		C	40.00	4.00	5.00					
			F	40.00	7.43	4.47					
Simonsen Solvent Extracted Linseed Oil Meal..... D 2250 (7-8-58)	Yes		C	36.00	0.50	7.50					2a, 4
			F	32.30	1.25	9.86					
Simonsen Expeller Soybean Oil Meal..... D 2251 (7-8-58)	Yes		C	41.00	5.00	6.00					
			F	43.90	6.09	5.57					
Simonsen Pig Developer Medicated..... D 2252 (7-8-58)	Yes		C	14.00	4.00	7.50					
			F	14.30	4.96	5.50					
Simonsen Sow & Pig Concentrate Medicated (AH)..... D 2253 (7-8-58)	Yes		C	35.00	3.50	6.50					2a
			F	27.90	5.75	5.65					

SINNWELL ELEVATOR, ALTA VISTA, IOWA

Sinnwell's 16% Special Pig Meal Medicated..... D 1303 (12-23-57)	Yes		C	16.00	3.50	4.00					
			F	17.60	4.34	4.30					
Sinnwell's 20% Egg Mash..... D 1306 (12-23-57) D 766 (5-8-58)	Yes		C	20.00	3.75	7.00					
			F	22.05	4.13	5.85					
			F	21.75	4.45	5.63					

Sinnwell's 32% Egg Concentrate	Yes	C	32.00	3.75	9.00	5.00	1.50	0.0018	3.00
D 1302 (12-23-57)		F	32.25	4.36	6.90	4.40	1.69	0.0016	2.64
D 763 (5-8-58)		F	34.80	4.07	7.64				
D 6387 (10-31-58)		F	33.60	3.87	8.48	4.50	1.63	0.0024	2.76
Sinnwell's 35% Sow & Pig Concentrate	Yes	C	35.00	2.50	9.00	4.00	1.10	0.001	3.00
D 1304 (12-23-57)		F	37.70	2.91	7.90	3.40	1.30	0.0017	2.64
D 764 (5-8-58)		F	35.20	2.89	8.05				
D 6386 (10-31-58)		F	36.55	2.83	8.61	4.10	1.28	0.0015	2.64
Sinnwell's 38% Dairy Concentrate	Yes	C	38.00	1.50	7.00	3.70	1.00	0.002	3.00
D 1305 (12-23-57)		F	41.70	2.34	6.90	3.00	1.17	0.00185	2.88
D 765 (5-8-58)		F	37.80	2.01	7.44				
D 6388 (10-31-58)		F	40.35	1.85	7.00	3.50	1.13	0.0021	2.44
Sinnwell's 16% Pig Starter & Grower	Yes	C	16.00	3.50	5.00				
Medicated		F	18.05	4.23	4.95				
D 767 (5-8-58)									

SIoux INDUSTRIES, INC., SIoux CITY, IOWA

Super Soo-Super X Mineral	Yes	C				24.00	7.50	0.015	5.00	
E 8941 (11-27-57)		F				19.60	6.18	0.060	1.29	7
Super Soo 32% Cattle Supplement	Yes	C	32.00	1.25	8.50	1.90	1.00	0.0005	3.00	
E 8942 (11-27-57)		F	33.70	1.44	6.90					
D 7529 (12-11-58)		F	34.05	2.18	6.15	2.30	1.30	0.0011	1.73	5
Super-Soo 16% Pig Grower Medicated	Yes	C	16.00	3.00	6.00					
E 8943 (11-27-57)		F	17.65	3.11	4.10					
D 7525 (12-11-58)		F	18.35	3.71	6.75					4
Super-Soo 13% Complete Hog Feed Medicated	Yes	C	13.00	2.75	14.00					
E 8944 (11-27-57)		F	17.85	3.64	8.65					
Super-Soo 18% Egg Producer	Yes	C	18.00	3.00	7.50					
E 8946 (11-27-57)		F	19.90	3.74	7.50					
Super-Soo 32% Poultry Concentrate	Yes	C	32.00	2.00	8.00					
E 8945 (11-27-57)		F	33.15	2.97	8.00					
Super-Soo 22% Economy Cattle Feed	Yes	C	22.00	3.00	17.00					
E 8947 (11-27-57)		F	29.15	4.01	10.95					
Super-Soo 40% Triple Concentrate	Yes	C	40.00	1.00	6.00					
E 8949 (11-27-57)		F	40.30	0.98	7.00					4

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 SIOUX INDUSTRIES, INC., SIOUX CITY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Super Soo 23% Calf Starter D 7534 (12-11-58)	Yes		C	23.00	2.50	6.00					
			F	25.45	3.02	5.42					
Super Soo Sweetened Pig Starter Medicated D 7535 (12-11-58)	Yes		C	18.00	3.00	3.50					
			F	21.05	4.75	2.26					
Super Soo 40% Hog Balancer D 7536 (12-11-58)	Yes		C	40.00	4.00	6.50	4.80	1.60			
			F	42.85	4.66	4.28	4.70	1.94			
Super Soo 28% Pig & Sow Supplement Medicated D 7528 (12-11-58)	Yes		C	28.00	2.00	8.50					
			F	29.70	2.73	7.28					
Super Soo 13% Complete Hog Feed Medicated D 7530 (12-11-58)	Yes		C	13.00	2.75	14.00					
			F	16.30	3.24	7.18					
Super Soo 36% Poultry Concentrate D 7531 (12-11-58)	Yes		C	36.00	4.00	7.00	4.75	1.30	0.0004	1.75	
			F	36.40	4.80	7.20	4.80	1.77	0.0008	1.02	
Super-Soo Anti-Bloat Pasture Feed Medicated D 7533 (12-11-58)	Yes		C	7.75	1.25	18.00					
			F	13.85	2.24	9.55					
Super-Soo 20% Pig Starter Medicated E 8950 (11-28-57)	Yes		C	20.00	3.50	5.00					
			F	24.10	4.22	3.00					
Super Soo 27% Poultry Balancer E 8948 (11-28-58) D 7532 (12-11-58)	Yes		C	27.00	2.50	8.50					
			F	30.20	2.97	8.40					
			F	30.20	3.46	7.46					
Super Soo 35% Pig & Sow Supplement Medicated D 7526 (12-11-58)	Yes		C	35.00	3.50	7.00					
			F	35.00	4.16	6.42					
Super Soo 38% Hog Supplement Medicated D 7527 (12-11-58)	Yes		C	38.00	1.50	7.00	3.50	1.00	0.00016	2.50	
			F	39.00	1.71	6.80	2.60	0.92	0.0008	1.24	

SIoux SOYA MILLS, SIoux CITY, IOWA

Su Soy 44% Protein Solvent Extracted Soy	Yes	C	44.00	0.50	7.00	.....	.....	.....	.....	2a	
Bean Oil Meal			44.55	2.93	6.03	.....	.....	.....	.....		
D 4254 (7-3-58)			F	42.00	3.49	5.82	.....	.....	.....		.....
D 2284 (7-21-58)			F	45.00	1.78	5.79	.....	.....	.....		.....
D 2288 (8-14-58)											

W. J. SMALL DIVISION-ARCHER-DANIELS MID. COMPANY, KANSAS CITY, MISSOURI

Small's 17% Dehydrated Alfalfa Meal	Yes	C	17.00	1.75	27.00	.....	.....	.....	.....	
D 955 (7-31-58)			F	17.00	3.48	25.05	.....	.....	.....	

SNEY GRAIN COMPANY, LE MARS, IOWA

Plymouth Brand Dehy. Alfalfa	No	C	17.00	2.00	24.00	.....	.....	.....	.....	4
E 2639 (5-9-58)			F	17.45	2.73	27.45	.....	.....	.....	

SNITTJER GRAIN COMPANY, WELLSBURG, IOWA

Snittjer's 18% Egg Mash	Yes	C	18.00	4.00	4.50	.....	.....	.....	.....	
D 1206 (6-30-58)			F	19.60	4.31	4.35	.....	.....	.....	
Snittjer's 18% Growing Mash	Yes	C	18.00	4.00	7.00	.....	.....	.....	.....	
D 1208 (6-30-58)			F	20.55	4.23	4.36	.....	.....	.....	
Snittjer's 20% Chick Starter	Yes	C	20.00	4.00	4.75	.....	.....	.....	.....	2a
D 1207 (6-30-58)			F	18.25	4.32	4.43	.....	.....	.....	

SOMERS COOPERATIVE CO., SOMERS, IOWA

Felco 26% No Grain Layer-Breeder	Yes	C	26.00	2.00	9.00	5.00	1.00	0.0005	3.00	
D 4219 (9-26-58)			F	30.40	3.16	8.02	3.50	1.41	0.0009	
Felco Beef Supplement	Yes	C	35.00	0.50	9.00	.....	.....	.....	.....	
D 4220 (9-26-58)			F	39.25	1.05	5.80	.....	.....	.....	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 SOMERS COOPERATIVE CO., SOMERS, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Special Hog Balancer D 4221 (9-26-58)	Yes		C	40.00	1.50	9.00	5.00	1.00	0.0005	3.00	
			F	41.50	2.21	7.64	2.80	1.22	0.0015	1.24	
Felco Special Dry Lot Hog Supplement D 4222 (9-26-58)	Yes		C	35.00	1.50	9.00	5.00	1.00	0.0008	3.00	
			F	37.00	3.10	8.50	3.30	1.20	0.00074	1.91	
Felco Sow Supplement D 4223 (9-26-58)	Yes		C	32.00	2.00	9.00	4.00	1.00	0.0008	3.00	5
			F	32.65	3.60	8.62	4.40	1.32	0.0013	2.44	
Felco Mash Builder D 4224 (9-26-58)	Yes		C	38.00	3.00	8.00	6.00	1.00		2.50	
			F	38.30	4.19	6.44	5.90	2.36		2.11	
Felco Dairy Supplement D 4225 (9-26-58)	No		C	35.00	0.50	8.00					
			F	36.40	1.11	7.07					

SOUTH OMAHA FEED COMPANY, OMAHA, NEBRASKA

Johnson's 40% Pork Producer D 37 (6-24-58)	Yes		C	40.00	1.00	8.00					
			F	42.90	1.25	6.36					
Johnson's Menhaden Fish Meal D 4160 (6-30-58)	Yes		C	60.00	5.00	1.00					
			F	59.55	9.23	1.20					
Johnson's 50% Meat & Bone Scraps D 4137 (9-30-58) D 4227 (9-29-58)	Yes		C	50.00	6.00	3.00					2a
			F	51.20	10.11	1.93					
			F	48.45	10.29	2.22					
Johnson's 60% Digester Tankage D 4142 (9-30-58) D 4226 (9-29-58)	Yes		C	60.00	6.00	3.00					3 3, 4
			F	66.10	4.38	1.08					
			F	64.65	5.46	3.66					

SOUTHERN COTTON OIL CO., MEMPHIS, TENNESSEE

Sco-Co 41% Protein Cottonseed Meal	Yes		C	41.00	3.00	14.00				
E 9175 (12-6-57)			F	40.90	3.32	13.70				

SOUTHLAND COTTON OIL COMPANY, WAXAHACHIE, TEXAS

Southland's 41% Protein Cottonseed Meal	Yes		C	41.00	3.00	14.00				
or Cake D 4128 (9-30-58)			F	40.00	3.13	14.22				2a

SPENCER KELLOGG & SONS, MINNEAPOLIS, MINNESOTA

Spencer Kellogg's 32% Protein Old Process	Yes		C	32.00	3.50	10.50				
(Expeller) Linseed Oil Meal			F	34.65	4.11	8.30				
E 9181 (12-6-57)			F	34.30	3.96	9.48				
D 877 (6-27-58)			F	33.65	4.11	8.66				
D 4256 (7-3-58)			F	36.45	4.00	8.72				
D 2502 (5-1-58)			F	34.50	4.11	8.99				
D 2214 (6-27-58)			F	35.30	4.44	8.87				

SPENCER PACKING CO., SPENCER, IOWA

Spenco Brand Digester Tankage	Yes		C	60.00	6.00	3.00				
E 4592 (10-1-57)			F	61.75	6.98	1.13				
Spenco Brand Meat & Bone Scraps	Yes		C	50.00	6.00	3.00				
D 2044 (8-25-58)			F	54.75	9.13	2.15				

SPENCER RENDERING CO., SPENCER, IOWA

Henrich's Premium Meat & Bone Meal	Yes		C	52.50	10.00	2.00				
E 8915 (11-12-57)			F	52.75	11.96	2.83				4
D 551 (12-26-57)			F	53.00	10.89	2.47				4

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

SPILLVILLE FEED MILL, SPILLVILLE, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Just Right 32% Poultry Concentrate.....	Yes		C	32.00	3.00	8.00	6.00	1.00	0.005	2.50	5, 8, 6
D 710 (4-3-58)			F	33.40	3.70	7.50	6.50	1.86	0.00248	3.40	
D 6392 (10-31-58)			F	32.95	3.45	7.81	7.60	1.98	0.004	3.26	

SPRINGFIELD MILLING CORP., SPRINGFIELD, MINNESOTA

Vigorena 27% Grain Balancer.....	Yes		C	27.00	3.00	7.50	-----	-----	-----	-----	
D 2222 (6-27-58)			F	27.75	3.94	6.40	-----	-----	-----	-----	

SPRINGVILLE COOP. ELEVATOR, SPRINGVILLE, IOWA

Felco Dairy Supplement.....	Yes		C	35.00	0.50	8.00	-----	-----	-----	-----	
D 1625 (2-26-58)			F	39.75	1.30	6.66	-----	-----	-----	-----	
Felco Special Dry Lot Hog Supplement.....	Yes		C	35.00	1.50	9.00	-----	-----	-----	-----	
D 1626 (2-26-58)			F	36.85	2.90	9.34	-----	-----	-----	-----	
A.G.I. 45% Hog Supplement Medicated.....	No	Yes	C	45.00	3.50	5.00	-----	-----	-----	-----	
D 1623 (2-26-58)			F	46.55	4.28	3.86	-----	-----	-----	-----	
A.G.I. 32% Mash Builder.....	No	Yes	C	32.00	2.50	10.00	5.00	1.40	-----	2.50	6
D 1624 (2-26-58)			F	33.60	2.50	8.11	4.00	1.31	-----	3.05	
Felco 20% Layer-Breeder.....	Yes		C	20.00	2.00	8.00	5.00	1.00	0.0007	2.00	
D 1615 (2-26-58)			F	24.50	3.34	7.70	2.80	1.15	0.0013	1.45	
Felco All Mash.....	Yes		C	16.00	2.50	8.00	-----	-----	-----	-----	
D 1616 (2-26-58)			F	17.10	4.08	5.75	-----	-----	-----	-----	
Felco Starting Mash Medicated.....	Yes		C	20.00	2.00	7.00	-----	-----	-----	-----	
D 1617 (2-26-58)			F	21.80	3.76	6.00	-----	-----	-----	-----	



Felco 26% No Grain Layer-Breeder D 1618	(2-26-58)	Yes	C	26.00	2.00	9.00							
			F	28.85	3.04	6.53							
Felco Mash Builder D 1619	(2-26-58)	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50			
			F	37.25	3.63	6.40	5.60	2.35		1.17		2	
Felco Sow Supplement D 1620	(2-26-58)	Yes	C	32.00	2.00	9.00							
			F	34.00	3.38	10.10						4	
Felco Dairy Ration D 1621	(2-26-58)	Yes	C	16.00	2.00	8.00							
			F	19.60	3.36	7.30							
Felco Beef Supplement D 1622	(2-26-58)	Yes	C	35.00	0.50	9.00							
			F	38.55	0.66	7.22							

STACYVILLE COOPERATIVE CO., STACYVILLE, IOWA

Felco Mash Builder D 731	(4-23-58)	Yes	C	38.00	3.00	8.00	6.00	1.00		2.50			
D 6527	(12-8-58)		F	39.15	4.35	6.87	5.50	2.56		1.98		2	
			F	37.55	4.00	7.42	5.90	2.76		2.15			
Felco Special Dry Lot Hog Supplement D 725	(4-23-58)	Yes	C	35.00	1.50	9.00							
D 6531	(12-8-58)		F	36.85	3.50	8.28							
			F	37.35	2.79	8.84							
Felco Sow Supplement D 726	(4-23-58)	Yes	C	32.00	2.00	9.00							
			F	35.35	3.50	9.87						4	
Felco Sweet Creep D 727	(4-23-58)	Yes	C	18.00	2.00	5.00							
			F	21.00	3.75	3.56							
Felco Special Hog Balancer D 728	(4-23-58)	Yes	C	40.00	1.50	9.00							
			F	41.50	4.00	7.51							
Felco Pig Starter Medicated D 729	(4-23-58)	Yes	C	18.00	3.00	5.00							
			F	19.95	4.00	3.66							
Felco Pig Grower Medicated D 730	(4-23-58)	Yes	C	16.00	2.00	6.00							
			F	18.25	4.00	4.77							
Felco 26% No Grain Layer-Breeder D 732	(4-23-58)	Yes	C	26.00	2.00	9.00							
D 6530	(12-8-58)		F	28.90	4.35	8.05							
			F	27.95	4.18	8.20							
Felco Calf Meal D 6528	(12-8-58)	Yes	C	20.00	2.00	8.00							
			F	22.10	2.63	6.36							

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 STACYVILLE COOPERATIVE CO., STACYVILLE, IOWA—Continued

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Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Felco Dairy Supplement D 6529 (12-8-58)	Yes		C F	35.00 35.10	0.50 1.55	8.00 7.86					
Felco Pig Starter D 6532 (12-8-58)	Yes		C F	18.00 19.50	3.00 3.78	5.00 3.90					
Felco Beef Supplement D 6533 (12-8-58)	Yes		C F	35.00 36.60	0.50 1.70	9.00 8.07					
Staco Egg Mash D 733 (4-23-58)	Yes		C F	20.00 22.50	4.00 4.40	8.00 7.06					
Felco Starting Mash Medicated D 734 (4-23-58)	Yes		C F	20.00 22.00	2.00 4.20	7.00 6.82					
Felco Growing Mash Medicated D 735 (4-23-58)	Yes		C F	20.00 22.00	2.00 3.80	7.00 6.42					
Felco 0.0011% D.E.S. Mix Inc In Felco Beef Builder D 736 (4-23-58)	Yes		C F	35.00 35.00	0.50 1.30	9.00 8.18					

A. E. STALEY MFG. COMPANY, DECATUR, ILLINOIS

Staley's "Sweetone" E 8924 (11-12-57)	Yes		C F	5.50 7.15	0.15 0.22	14.00 15.30					
D 4161 (6-30-58)			F	5.65	0.28	15.21					4

STALEY MILLING CO., KANSAS CITY, MISSOURI

Staley Professional Chick Atoms Medicated D 3843 (4-3-58)	Yes		C F	20.00 22.20	2.50 3.88	7.00 6.19					
D 3295 (6-25-58)			F	21.50	3.45	6.17					

ANNUAL REPORT

Staley Professional Grower Atoms Medicated.....	Yes	C	18.00	2.50	7.00					
D 3844 (4-3-58)		F	19.50	3.91	6.74					
D 4319 (6-27-58)		F	18.50	3.59	6.89					
Staley Professional Medicated Super Egg										
Atom-High Antibiotic.....	Yes	C	22.00	2.50	8.00					
D 3845 (4-3-58)		F	23.25	3.26	7.07					
Staley Atomix 36% Poultry Concentrate.....	Yes	C	36.00	2.00	8.00	5.50	1.75	0.0004	1.00	
D 3846 (4-3-58)		F	35.35	2.38	6.71	5.10	2.33	0.00066	1.29	2
D 4144 (9-30-58)		F	37.75	1.75	6.31	4.00	1.86	0.0009	1.06	
Staley Professional Duo Egg Atoms.....	Yes	C	22.00	2.50	8.00					
D 3847 (4-3-58)		F	22.50	3.62	7.41					
D 5299 (11-5-58)		F	23.65	3.64	7.45					
Professional Trio Egg Atoms 28% Balancer.....	Yes	C	28.00	2.50	7.50	4.00	1.00	0.0004	0.80	
D 3848 (4-3-58)		F	28.80	2.64	7.68	3.40	1.55	0.0008	0.677	
D 4906 (7-7-58)		F	29.55	2.73	7.48					
D 4912 (7-7-58)		F	29.75	3.35	7.17					
D 5526 (9-22-58)		F	29.85	3.40	6.97	3.80	2.31	0.0011	0.66	
D 5285 (10-30-58)		F	28.50	3.56	7.60					
Staley Poultry Wormer Atoms.....	Yes	C	18.00	2.50	8.00					
D 3849 (4-3-58)		F	19.80	4.78	6.77					
Staley Pig Mama Pellets Medicated.....	Yes	C	20.00	2.50	6.00					
D 4320 (6-27-58)		F	21.00	3.82	6.61					4
Four Bells Scratch Feed.....	Yes	C	9.00	2.00	7.00					
D 5516 (9-9-58)		F	11.90	3.08	3.26					
Professional Pullet Atoms.....	Yes	C	18.00	2.50	8.00					
D 5527 (9-22-58)		F	19.05	4.14	7.16					
Professional Pig Kisses Medicated.....	Yes	C	20.00	4.00	4.00					
D 5528 (9-22-58)		F	22.25	4.40	1.95					
Bunny Brunch.....	Yes	C	16.00	2.00	12.00					
D 5530 (9-22-58)		F	16.35	4.11	9.11					
Staley Egnog Laying Granules.....	Yes	C	20.00	2.50	8.00					
D 4910 (7-7-58)		F	20.25	3.86	7.61					
Dr. Pig Hog Wormer.....	Yes	C	15.00	2.50	8.00					
D 5595 (8-26-58)		F	16.70	5.00	6.88					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 STALEY MILLING CO., KANSAS CITY, MISSOURI—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Professional Pig Mama Medicated	Yes		C	20.00	2.50	6.00					
D 5599 (8-26-58)			F	20.40	3.92	6.12					
D 5514 (9-9-58)			F	20.00	4.25	6.69					4
D 5529 (9-22-58)			F	20.00	3.94	6.38					4
D 6656 (11-5-58)			F	20.80	4.08	6.79					4
Milkshake 18% Dairy Feed	Yes		C	18.00	2.50	9.00					
D 5515 (9-9-58)			F	20.60	3.41	6.39					
Crimped Barley	Yes		C	11.00	1.50	6.00					
D 4158 (6-30-58)			F	12.15	2.06	4.59					
Professional Solo Egg Atoms	Yes		C	16.00	2.50	7.00					
D 5293 (11-5-58)			F	17.85	3.91	6.27					
Staley's Professional Livestock Mineral	Yes		C				22.00	7.00	0.003	33.00	
D 3430 (11-26-58)			F				15.80	7.74	0.0034	33.35	61
Professional Pro-Lass Hog Supplement	Yes		C	35.00	1.50	8.00	3.75	1.00	0.0004	1.00	
D 6655 (11-5-58)			F	35.75	1.58	6.89	3.90	1.36	0.0017	0.74	

STAMP MILLING CO., LAKE MILLS, IOWA

Shure Feeds Shure Pig & Sow Supplement	Yes		C	35.00	1.90	6.90	5.90	1.90	0.0009	2.70	
D 836 (8-27-58)			F	38.55	2.97	7.90	4.50	1.45	0.0025	2.24	4, 7
Shure Feeds Shure Mash Maker	Yes		C	32.00	4.50	7.00	6.20	2.50	0.001	3.00	
D 837 (8-27-58)			F	32.65	4.82	7.29	5.90	2.63	0.00075	3.23	8
Shure Feeds Shure Egg Mash	Yes		C	17.00	4.50	6.00					
D 836 (8-27-58)			F	17.10	4.57	6.00					
Shure 40% Hog & Pig Meal	Yes		C	40.00	2.20	7.50					
E 7837 (12-6-57)			F	43.65	3.67	6.45					

Shure Pig & Sow Supplement..... E 7838	(12-6-57)	Yes	C	35.00	1.50	8.50	.....	.....	.....	.....
			F	37.00	2.55	7.96	.....	.....	.....	.....

F. M. STAMPER CO. MILL, MOBERLY, MISSOURI

Stamper 40% Pork Maker..... E 4883	(12-19-57)	Yes	C	40.00	3.00	6.50	.....	.....	.....	.....
			F	40.50	3.90	3.00	.....	.....	.....	.....
Stamper Station Feed..... E 4882	(12-19-57)	Yes	C	13.50	4.50	8.00	.....	.....	.....	.....
			F	14.20	5.28	6.82	.....	.....	.....	.....
Stamper 20% Breeder Egg Mash..... E 4884	(12-19-57)	Yes	C	20.00	4.50	6.00	.....	.....	.....	.....
			F	21.80	4.95	5.44	.....	.....	.....	.....
Stamper 20% Pig Dinner..... E 4885	(12-19-57)	Yes	C	20.00	4.50	6.50	.....	.....	.....	.....
			F	22.70	4.65	5.14	.....	.....	.....	.....
Stamper 35% Pig Maker..... E 4886	(12-19-57)	Yes	C	35.00	4.50	6.50	.....	.....	.....	.....
			F	38.35	4.47	7.02	.....	.....	.....	.....

STANDARD BRANDS, INC., NEW YORK, N. Y.

Fleischman-Mo-Con ..... D 3648	(4-24-58)	Yes	C	10.00	1.00	10.00	.....	.....	.....	.....
			F	12.40	3.45	7.00	.....	.....	.....	.....

STANDARD CHEMICAL MFG. CO., OMAHA, NEBRASKA

Standard 20% Creep Feed Medicated..... D 2299	(8-14-58)	Yes	C	20.00	4.00	3.00	.....	.....	.....	.....
			F	21.75	5.80	2.63	.....	.....	.....	.....
Standard's 36% Dairy Cow Stanatrate..... D 2003	(8-14-58)	Yes	C	36.00	3.60	8.00	.....	.....	.....	.....
			F	37.40	4.69	7.52	.....	.....	.....	.....
Standard 41% Poultry Stanatrate Medicated..... D 2006	(8-14-58)	Yes	C	41.00	5.50	3.00	.....	.....	.....	.....
			F	43.05	8.39	2.58	.....	.....	.....	.....
Standard 40% Cattle Stanatrate Medicated..... D 2007	(8-14-58)	Yes	C	40.00	4.00	8.50	.....	.....	.....	.....
			F	43.35	5.61	7.90	.....	.....	.....	.....

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 STANDARD CHEMICAL MFG. CO., OMAHA, NEBRASKA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Standard 40% Hog Stanatrate Medicated.....	Yes		C	40.00	5.00	4.50	8.00	3.50	0.002	2.00	
D 4718 (8-15-58)			F	43.25	6.03	2.77	7.20	3.69	0.0018	2.16	
D 2008 (8-14-58)			F	41.55	7.34	3.41					
Standard 32% Pig-Grower Stanatrate Medicated.....	Yes		C	32.00	4.00	7.00	3.75	1.80	0.0009	2.00	4
D 4719 (8-15-58)			F	35.95	5.54	7.90	3.60	1.95	0.0029	2.00	
D 2005 (8-14-58)			F	32.75	5.77	8.54					
Standard 30% Feed Balancer Medicated.....	Yes		C	30.00	3.50	8.00	3.75	1.50	0.00013	2.50	
D 2297 (8-14-58)			F	33.15	4.59	7.54	3.50	1.60	0.0012	2.52	
Standard 0.0022% D.E.S. Mix Inc In Steer Stanatrate.....	Yes		C	32.00	3.30	8.50	2.00	1.20	0.00187	1.80	
D 2298 (8-14-58)			F	34.15	4.35	7.66	2.30	1.58	0.0018	1.93	

STEEL FEED COMPANY, ALBIA, IOWA

Steel's Special 18% Grower Medicated.....	Yes		C	18.00	3.00	6.00					
D 4321 (6-30-58)			F	19.80	4.50	5.41					
Steel's 36% Pig Pusher Supplement.....	Yes		C	36.00	2.50	7.00					
D 4322 (6-30-58)			F	36.90	4.08	6.25					
Steel's 16% Super Dairy Supplement Medicated.....	Yes		C	16.00	3.00	10.00					
D 4323 (6-30-58)			F	16.10	3.88	6.48					
Steel's 18% Laying Mash Medicated.....	Yes		C	18.00	3.00	6.50					
D 4324 (6-30-58)			F	19.15	4.33	5.98					
All Purpose Mineral Feed.....	Yes		C				24.00	3.50	0.00975	30.00	5
E 4348 (9-23-57)			F				25.50	4.92	0.015	25.20	

Steel's 32% Poultry Concentrate Medicated D 3265 (6-11-58)	Yes	C	32.00	2.00	8.00				
		F	32.05	4.31	7.21				
Steel's Special Chick Starter Medicated D 3264 (6-11-58)	Yes	C	20.00	3.00	5.50				
		F	21.30	4.08	4.66				
Steel's 32% Super Dairy Supplement Medicated D 3263 (6-11-58)	Yes	C	32.00	3.00	10.00				
		F	33.80	3.72	9.63				
Steel's 40% Hog Supplement D 4325 (6-30-58)	Yes	C	40.00	2.50	7.50				
		F	41.90	3.70	7.48				
Steel's 26% Poultry Cafeteria Ration Medicated D 4326 (6-30-58)	Yes	C	26.00	3.00	8.00				
		F	29.55	5.14	7.41				
Steel's 16% Pig Pusher Meal D 4327 (6-30-58)	Yes	C	16.00	2.50	6.00				
		F	18.30	4.56	4.81				
Steel's Super Dog Food D 4328 (6-30-58)	Yes	C	24.00	4.50	4.00				
		F	25.05	8.46	3.21				

STICKMAN FEED MILL, PLAINFIELD, IOWA

Laying Mash D 4585 (10-1-58)	Yes	C	18.00	3.00	9.00				
		F	20.00	4.36	5.87				
Cattle Balancer D 4586 (10-1-58)	Yes	C	32.00	2.50	8.00	2.50	1.50	0.0003	3.50
		F	34.45	2.73	7.24	2.50	1.02	0.00055	2.29
Stickman's Poultry Concentrate D 4587 (10-1-58)	Yes	C	35.00	4.00	8.00	6.00	2.00	0.0008	3.00
		F	35.55	6.16	6.16	4.90	1.67	0.00085	2.77

M. J. STREIT FEED COMPANY, KEOTA, IOWA

Cedar Crest 21% Pig Starter D 5538 (9-23-58)	Yes	C	21.00	3.00	4.50				
		F	17.00	3.93	3.51				

STROMMEN MANUFACTURING CO., FOREST CITY, IOWA

Strommen Quality Gro-Faster Compound Concentrate D 756 (5-6-58)	Yes	C	10.00	1.00	10.00				
		F	34.10	4.01	8.25				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
STROMMEN MANUFACTURING CO., FOREST CITY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Strommen Quality Vitamin Compound..... D 757 (5-6-58)	Yes		C F	10.00 39.25	5.00 5.62	12.00 7.45					
Strommen Quality Arsonic Grower Stimulant Medicated..... D 755 (5-6-58)	Yes		C F	20.00 25.15	2.00 3.40	18.00 7.43					

SUCCESS MILL, INC., KANSAS CITY, KANSAS

Success Meat & Bone Scraps..... D 3643 (4-24-58)	No	Yes	C F	50.00 50.35	6.00 9.15	3.00 1.05					
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SULLY COOP EXCHANGE, SULLY, IOWA

0.0022% D.E.S. Mix Inc In Felco Steak Maker..... D 2730 (5-1-58) D 5121 (9-30-58)	Yes		C F F	41.00 39.15 41.25	0.50 1.25 1.84	9.00 7.27 6.60					2
Felco 26% No Grain Layer-Breeder..... D 2731 (5-1-58) D 5122 (9-30-58)	Yes		C F F	26.00 30.65 30.45	2.00 3.17 2.70	9.00 7.12 7.51	5.00 2.80	1.00 1.33	0.0005 0.00044	3.00 1.67	
Felco Pig Grower..... D 2732 (5-1-58) D 5119 (9-30-58)	Yes		C F F	16.00 18.10 17.80	2.00 3.71 3.59	6.00 4.14 4.30					
Felco Dairy Supplement..... D 2733 (5-1-58) D 5123 (9-30-58)	Yes		C F F	35.00 37.40 38.20	0.50 1.08 0.95	8.00 6.81 6.81					
Felco 20% Layer-Breeder..... D 2734 (5-1-58) D 5126 (9-30-58)	Yes		C F F	20.00 24.70 24.50	2.00 3.46 3.10	8.00 6.88 7.32	5.00 2.90	1.00 1.16	0.0007 0.00099	2.00 1.57	



Felco Growing Mash Medicated D 2735	(5-1-58)	Yes	C F	20.00 25.05	2.00 3.03	7.00 6.70					
Felco Pig Starter D 2736	(5-1-58)	Yes	C F	18.00 20.65	3.00 4.37	5.00 4.07					
Felco Pig Starter Medicated D 5125	(9-30-58)	Yes	C F	18.00 22.75	3.00 3.76	5.00 4.72					
Felco Mash Builder D 2726 D 5120	(5-1-58) (9-30-58)	Yes	C F F	38.00 39.15 38.00	3.00 4.63 3.97	8.00 6.18 6.59	6.00 5.30	1.00 1.90		2.50 2.19	
Felco Beef Supplement D 2727 D 5124	(5-1-58) (9-30-58)	Yes	C F F	35.00 35.60 36.35	0.50 1.31 1.57	9.00 7.19 6.05					
Felco Sow Supplement D 2729 D 5130 E 8332	(5-1-58) (9-30-58) (11-5-57)	Yes	C F F F	32.00 33.65 30.30 34.85	2.00 3.94 2.92 3.72	9.00 9.51 10.14 10.08	4.00 2.70	1.00 0.99	0.0008 0.00088	3.00 1.32	4 2a, 4 4
Felco Growing Mash D 5127	(9-30-58)	Yes	C F	20.00 24.40	2.00 2.70	7.00 5.58					
Felco Special Dry Lot Hog Supplement E 8337 D 2728 D 5129	(11-5-57) (5-1-58) (9-30-58)	Yes	C F F F	35.00 37.25 36.80 37.70	1.50 3.46 3.95 2.60	9.00 8.36 8.70 9.50	5.00 3.10	1.00 1.16	0.0008 0.00086	3.00 1.88	4
Felco Starting Mash Medicated D 2724	(5-1-58)	Yes	C F	20.00 22.10	2.00 3.08	7.00 5.78					
Felco Special Hog Balancer D 2725 D 5128	(5-1-58) (9-30-58)	Yes	C F F	40.00 40.75 42.80	1.50 2.96 2.15	9.00 6.80 7.61	5.00 3.00	1.00 1.30	0.0005 0.0011	3.00 1.68	

SUN RAY MILLING CO., HAZELTON, IOWA

Sun-Ray 40% Beef Builder Medicated D 1169	(5-1-58)	Yes	C F	40.00 43.20	1.00 3.46	8.50 8.10					
Sun-Ray 18% Super Dooper Pig Starter Medicated D 1170	(5-1-58)	Yes	C F	18.00 19.15	6.00 4.07	3.50 3.45					3

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
SUN RAY MILLING CO., HAZELTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Sun-Ray 0.0022% D.E.S. Mix Inc In 40% Beef Builder	Yes		C	40.00	1.00	8.50					
D 1171 (5-1-58)			F	40.10	3.17	8.28					
20% Chick Starter Medicated	Yes		C	20.00	4.00	4.50					
D 1172 (5-1-58)			F	20.50	3.97	4.17					
Sun-Ray Super 40% Dairy Concentrate	Yes		C	40.00	2.50	8.00					
D 1165 (5-1-58)			F	40.00	3.04	8.18					
Sun-Ray Hi-Energy Layer	Yes		C	20.00	3.50	5.50					
D 1166 (5-1-58)			F	20.90	4.23	5.45					
Sun-Ray Hi-Energy Cafeteria Mash	Yes		C	27.00	3.00	7.50					
D 1167 (5-1-58)			F	27.05	3.72	7.35					
Sun-Ray Mash Builder	Yes		C	36.00	3.00	7.00					
D 1168 (5-1-58)			F	38.15	2.83	7.00					

SUPERSWEET FEEDS, NEW ULM, MINNESOTA

Supersweet Mixmaker (Swine) Medicated	Yes		C	31.00	3.00	8.00					1a
D 5931 (9-24-58)			F	34.20	3.47	7.85					
Supersweet 36 Starter Grower Concentrate Medicated	Yes		C	36.00	3.00	8.00					
D 5934 (9-24-58)			F	38.20	3.15	7.14					
Supersweet Poultry Fattener	Yes		C	14.00	2.50	8.50					4
D 5935 (9-24-58)			F	17.05	3.35	8.84					
Supersweet 42 Pig Mixer Concentrate Medicated	Yes		C	42.00	1.50	4.50					2a, 4
D 5936 (9-24-58)			F	40.00	1.82	5.72					

Supersweet Calf Groom Medicated	Yes	C	25.00	2.50	7.00				
D 5937 (9-24-58)		F	25.65	2.79	5.19				
D 6695 (11-28-58)		F	26.75	2.74	6.02				
Supersweet 14 Complete Hog Feed	Yes	C	14.00	3.00	6.50				
D 5938 (9-24-58)		F	15.50	4.11	6.04				
Supersweet 16 Milkmaker	Yes	C	16.00	2.50	6.50	3.00	1.00	0.0001	2.25
D 5939 (9-24-58)		F	17.75	3.60	5.32				
D 6685 (11-28-58)		F	17.75	4.12	5.78	2.10	1.23	0.0016	1.42
Supersweet Dry and Freshener	Yes	C	12.00	3.00	5.50				
D 5940 (9-24-58)		F	14.90	3.18	4.65				
Supersweet 18 Cage Layer	Yes	C	18.00	5.00	4.50	3.50	0.75	0.0001	1.50
D 5932 (9-24-58)		F	19.75	5.05	3.42	2.80	1.01	0.002	0.64
Supersweet 22% Chicken Breeder	Yes	C	22.00	3.00	6.00	3.00	1.00	0.0006	2.00
D 5933 (9-24-58)		F	23.60	3.23	4.18	2.90	1.26	0.00049	1.42
Supersweet 0.0011% D.E.S. Mix Inc In 24 Sweet-O-Lass	Yes	C	24.00	1.50	6.50				
D 5926 (9-24-58)		F	25.25	2.55	5.58				
Supersweet 32 Turkey Balancer	Yes	C	32.00	3.00	8.50	6.50	2.00	0.0005	2.00
D 5927 (9-24-58)		F	32.00	3.05	6.97	6.50	2.28	0.0023	0.96
Supersweet 18 Egg-A-Day	Yes	C	18.00	3.50	7.50				
D 5596 (8-26-58)		F	19.30	4.12	7.77				
D 5929 (9-24-58)		F	19.60	3.80	6.70				
D 5260 (10-7-58)		F	20.85	3.78	7.38				
D 6684 (11-28-58)		F	21.40	4.16	6.85				
Supersweet 35 Pig Grower Concentrate-H Medicated	Yes	C	35.00	3.00	6.00	5.00	1.80	0.001	3.00
D 5597 (8-26-58)		F	35.25	3.80	6.03	3.60	1.89	0.0009	2.62
D 5953 (9-24-58)		F	37.05	3.39	5.90	3.90	2.13	0.0011	2.59
D 6690 (11-28-58)		F	38.25	4.61	5.73				
D 6178 (12-4-58)		F	35.60	4.24	5.52				
Supersweet Mineral Meal Medicated	Yes	C	30.00	3.00	5.50	7.00	2.00	0.001	3.50
D 5598 (8-26-58)		F	32.95	3.82	5.40	5.90	2.54	0.001	2.95
D 5957 (9-24-58)		F	35.60	4.17	5.15	6.20	2.18	0.0011	2.24
D 5259 (10-7-58)		F	33.50	3.89	5.26	6.50	2.36	0.0016	3.10
Supersweet 20-Egg-A-Day	Yes	C	20.00	3.50	6.50	3.60	1.00	0.0003	2.00
D 5928 (9-24-58)		F	20.30	3.40	5.68	3.10	1.21	0.00059	0.94

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 SUPERSWEET FEEDS, NEW ULM, MINNESOTA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Supersweet All-Purpose Mineral D 5943 (9-24-58)	Yes		C F				33.00 29.40	4.00 4.68	0.01 0.0046	9.00 5.89	8
Supersweet 0.0011% D.E.S. Mix Inc In 24 Sweet Lumps D 5261 (10-7-58)	Yes		C F	24.00 26.85	2.00 2.44	8.00 8.37					
Supersweet Moo-Lass Medicated D 6692 (11-28-58)	Yes		C F	28.00 29.80	1.50 3.24	8.50 5.71					
Supersweet 32 Calf Supplement Medicated D 6694 (11-28-58)	Yes		C F	32.00 32.70	1.00 2.19	8.00 6.40					
Supersweet 0.0022% D.E.S. Mix Inc In Moo- Lass Minral D 6693 (11-28-58)	Yes		C F	28.00 30.75	1.00 2.67	8.00 6.93	3.50 1.70	1.00 0.81	0.0006 0.0014	3.50 0.71	1a
Supersweet 40 Pork Maker D 6176 (12-4-58)	Yes		C F	40.00 42.10	5.00 4.54	6.50 5.49					3
Supersweet 26 Turkey Starter D 5950 (9-24-58)	Yes		C F	26.00 26.45	2.50 3.80	6.50 6.35					
Supersweet 28-Hy-Energy Turkey Starter D 5951 (9-24-58)	Yes		C F	28.00 29.60	3.00 3.08	5.50 4.62					
Supersweet Supercreep Medicated D 5952 (9-24-58) D 6691 (11-28-58)	Yes		C F F	20.00 21.40 22.75	3.00 3.79 4.02	3.00 2.97 2.87					
Supersweet 0.0022% D.E.S. Mix Inc In 40 Beefmaker D 5954 (9-24-58) D 6177 (12-4-58)	Yes		C F F	40.00 40.30 42.45	2.00 3.04 2.56	7.50 6.34 6.38					

Supersweet Magic Mash Maker D 5955	(9-24-58)	Yes	C F	33.00 35.35	5.00 5.66	7.50 6.70	6.70 5.40	2.20 2.23	0.0006 0.0007	2.75 2.38	
Supersweet 42 Concentrate D 5956 D 6175	(9-24-58) (12-4-58)	Yes	C F F	42.00 42.65 38.70	5.00 6.09 5.80	6.50 4.85 4.95	7.30 7.10 3.20	2.50 2.59 1.90	0.0006 0.0009 0.0026	3.50 2.72 1.45	2, 7
Supersweet Hy-Energy Concentrate D 5958 D 6688	(9-24-58) (11-28-58)	Yes	C F F	42.00 41.35 42.25	6.00 4.97 4.37	4.00 3.66 4.00					2, 3 3
Supersweet 40 Pork Maker Medicated D 5959	(9-24-58)	Yes	C F	40.00 41.45	5.00 4.90	6.50 4.74	6.50 5.70	2.25 2.07	0.0005 0.0013	2.50 2.15	
Supersweet 32 Milk Maker D 5946	(9-24-58)	Yes	C F	32.00 32.35	1.50 3.77	6.50 6.18					1a
Supersweet Hy-Energy Chick Starter D 5947	(9-24-58)	Yes	C F	20.00 22.25	4.00 3.95	4.50 3.18					
Supersweet Chick Grower D 5948	(9-24-58)	Yes	C F	17.00 20.55	3.00 3.60	7.00 5.83					
Supersweet 32 Beefmaker D 5949 D 6689	(9-24-58) (11-28-58)	Yes	C F F	32.00 33.85 35.15	2.00 3.57 4.35	8.00 6.33 6.24					
Supersweet Moo-Lass Minral Medicated D 5941	(9-24-58)	Yes	C F	28.00 28.65	1.50 2.60	8.00 5.57	4.00 3.60	1.00 1.38	0.0006 0.0012	3.50 1.93	
Supersweet Minral Plus D 5942	(9-24-58)	Yes	C F	10.00 14.30	0.50 1.82	4.50 3.75	6.50 9.60	2.50 2.55	0.001 0.0014	6.00 6.00	5
Supersweet 15 Bunny Blox D 5944	(9-24-58)	Yes	C F	15.00 16.45	2.50 3.56	12.00 11.45					
Supersweet 32 Calf Supplement Medicated D 5945	(9-24-58)	Yes	C F	32.00 32.75	1.00 2.27	8.00 6.97					
Supersweet 30% Sow Concentrate D 1341	(12-27-57)	Yes	C F	30.00 30.70	3.00 4.55	10.50 9.13	5.00 3.70	1.60 1.95	0.0001 0.0011	3.00 2.69	
Supersweet 40 Beef Maker D 1342	(12-27-57)	Yes	C F	40.00 43.05	2.50 2.67	7.50 5.40					
Supersweet Supercreep Medicated D 1343	(12-27-57)	Yes	C F	20.00 22.00	3.00 3.43	3.50 3.33					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
SUPERSWEET FEEDS, NEW ULM, MINNESOTA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Supersweet 0.0022% D.E.S. Mix Inc. in 32 Beefmaker	Yes		C	32.00	2.50	7.50					
D 1344 (12-27-57)			F	33.90	3.58	6.18					
Supersweet Pig-Grower Concentrate Medicated	Yes		C	35.00	3.00	6.00	5.00	1.80	0.001	3.00	
D 1345 (12-27-57)			F	35.25	4.31	5.17	3.50	1.95	0.0011	2.82	
D 1355 (7-1-58)			F	36.10	2.84	6.38					
Supersweet Medicated Super Booster	Yes		C	30.00	5.00	6.50					4
D 1346 (12-27-57)			F	35.20	5.22	7.48					
Supersweet 0.0011% D.E.S. Mix In 32 Beef Maker	Yes		C	32.00	2.50	7.50					
D 699 (12-26-57)			F	35.65	3.67	6.21					
Supersweet Hy-Energy Chick Starter Medicated	Yes		C	20.00	4.00	4.00					3
D 3784 (4-24-58)			F	21.45	3.55	3.20					
Supersweet Calf Groom	Yes		C	25.00	3.50	7.00					3
D 553 (12-26-57)			F	25.80	2.81	4.85					
D 1347 (12-27-57)			F	26.15	3.83	5.02					
Supersweet 0.0011% D.E.S. Mix In 24 Sweet-O-Lass	Yes		C	24.00	1.50	6.00					
D 693 (12-26-57)			F	27.75	1.26	4.39					
Supersweet Calf Milk Replacer	Yes		C	20.00	8.50	0.50					
D 694 (12-26-57)			F	22.25	8.74	0.25					
Supersweet 27 Free Choice Balancer	Yes		C	27.00	3.00	8.50	5.00	1.50	0.0003	3.00	
D 1336 (12-27-57)			F	29.35	4.11	6.97	4.50	1.53	0.00077	2.14	
D 3788 (4-24-58)			F	28.10	4.10	6.75					
D 5214 (8-5-58)			F	28.10	3.96	7.85					
D 5930 (9-24-58)			F	28.20	3.56	7.75	4.60	1.64	0.0012	2.11	
D 6687 (11-28-58)			F	29.30	4.52	7.20	3.80	1.48	0.0015	2.19	
Supersweet 42% Hog Concentrate	Yes		C	42.00	5.00	6.00	6.00	2.00	0.0006	3.50	
D 1337 (12-27-57)			F	43.50	6.98	4.87	6.00	2.50	0.00138	3.16	

Supersweet 40 Pork Maker.....	Yes	C	40.00	5.00	6.00	5.50	1.50	0.0005	2.50	3, 5
D 1338 (12-27-57)		F	40.15	5.54	5.77	5.30	2.16	0.00119	1.87	
D 554 (12-26-57)		F	40.50	3.94	4.82	6.60	2.64	0.00142	1.91	
Supersweet Magic Mash Maker.....	Yes	C	33.00	5.00	7.00	6.00	2.20	0.001	2.75	
D 1339 (12-27-57)		F	33.80	6.11	5.94	6.00	2.54	0.0009	2.58	
Supersweet 20% Egg-A-Day.....	Yes	C	20.00	3.00	7.50					
D 1340 (12-27-57)		F	21.35	3.74	5.25					
Supersweet 35 Pig Grower Concentrate Medicated.....	Yes	C	35.00	3.00	6.00					
D 5210 (8-5-58)		F	36.95	3.48	5.86					
Supersweet 36 Milkmaker.....	Yes	C	36.00	1.50	7.00	3.00	1.00	0.0007	3.50	
D 5211 (8-5-58)		F	37.00	2.36	5.75					
D 5925 (9-24-58)		F	37.20	2.64	5.42	3.10	1.32	0.00062	3.17	
Supersweet 30 Sow Concentrate.....	Yes	C	30.00	3.00	10.50					
D 5212 (8-5-58)		F	30.20	4.38	8.96					
D 5960 (9-24-58)		F	33.30	4.01	7.83					
Supersweet Minral Meal Medicated.....	Yes	C	30.00	3.00	6.00					
D 5213 (8-5-58)		F	32.35	4.65	6.19					
Supersweet Chick Grower Medicated.....	Yes	C	17.00	3.00	6.50					
D 3786 (4-24-58)		F	18.35	4.05	6.00					
Supersweet Minral Meal.....	Yes	C	30.00	2.50	6.50					
D 3789 (4-24-58)		F	32.00	3.92	4.95					
D 3272 (6-19-58)		F	33.05	5.39	6.13					
Supersweet 36 Starter Grower Concentrate.....	Yes	C	36.00	3.00	8.00					
D 1354 (7-1-58)		F	36.25	3.62	7.18					
Supersweet 42 Concentrate.....	Yes	C	42.00	5.00	6.00					
D 1356 (7-1-58)		F	42.50	6.32	4.52					

SUTHERLAND CREAMERY CO., SUTHERLAND, IOWA

Sutherland Brand Flake Buttermilk.....	Yes	C	32.00	6.00						
D 2022 (8-19-58)		F	35.00	6.00						

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
SWANSON LEGHORN FARM & HATCHERY, KLEMME, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Swanson's Manamar 32% Concentrate.....	Yes		C	32.00	2.50	10.00	5.00	1.00	0.001	2.00	
E 7817 (12-2-57)			F	34.95	2.76	7.35					
D 828 (8-26-58)			F	35.25	3.32	8.47	4.70	1.77	0.003	1.91	
Swanson's Manamar Pullet Builder.....	Yes		C	16.00	3.50	8.00					
E 7818 (12-2-57)			F	21.25	4.07	5.30					
Swanson's Manamar Breeder Ration.....	Yes		C	20.00	3.00	8.00					
E 7819 (12-2-57)			F	24.40	4.12	5.60					

SWIFT & COMPANY, CHICAGO, ILLINOIS

Swift's 50% Meat & Bone Scraps.....	Yes		C	50.00	8.00	3.00					
D 1801 (11-27-57)			F	49.90	11.16	1.46					
D 1912 (1-16-58)			F	50.00	12.87	1.71					
D 536 (4-7-58)			F	50.15	9.34	0.84					
D 2504 (5-1-58)			F	50.75	9.33	1.29					
D 2461 (6-5-58)			F	52.20	14.85	1.90					
D 38 (6-24-58)			F	56.20	10.54	2.04					
D 4426 (7-11-58)			F	50.65	10.46	1.54					
Swift's 55% Protein Meat Scraps.....	Yes		C	55.00	8.00	3.00					
E 3328 (4-2-58)			F	55.10	13.05	1.45					
Swift's Digester Tankage.....	Yes		C	60.00	5.00	3.00					2a
E 3327 (4-2-58)			F	60.00	9.43	1.43					
D 4104 (9-3-58)			F	58.15	11.75	1.22					
D 4145 (9-30-58)			F	64.15	7.45	0.78					
D 2325 (9-2-58)			F	64.45	10.77	2.01					
Swift's 44% Protein Solvent Extracted Soybean Oil Meal.....	Yes		C	44.00	0.50	7.00					
D 1874 (4-4-58)			F	43.50	0.95	6.65					
D 4925 (7-9-58)			F	44.75	1.06	6.10					
D 4169 (7-21-58)			F	45.45	0.79	5.16					





ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

SWIFT & CO., CHICAGO, ILLINOIS—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Swift's 20% Cattle Feed..... D 1821 (11-27-57)	Yes		C F	20.00 29.30	3.50 3.54	11.50 14.85					4
Swift's Egg Mash..... D 1822 (11-27-57)	Yes		C F	20.00 22.85	5.50 6.44	8.00 6.28					
Swift's Baby Pig Primer Medicated..... D 1824 (11-27-57)	Yes		C F	24.00 26.25	6.00 8.20	3.00 2.49					
Swift's Poultry Concentrate Pow-R-Pac Brand..... D 1825 (11-27-57)	Yes		C F	37.00 37.90	4.00 5.23	9.50 7.42					
Swift's Rabbit Ration Pellets..... D 1826 (11-27-57)	Yes		C F	16.00 24.50	3.50 4.04	20.00 16.10					
Swift's Broiler Finisher Medicated..... D 1830 (11-27-57)	Yes		C F	19.00 23.25	6.00 5.22	4.50 3.27					3
Swift's Chick Starter Medicated..... D 4316 (6-26-58)	Yes		C F	20.00 21.45	5.50 4.00	6.50 5.72					3
Swift's Broiler Ration Medicated..... D 4317 (6-26-58)	Yes		C F	22.00 21.85	5.50 4.62	4.50 3.55					3
Swift's Pig Concentrate Pow-R-Pac Brand Medicated..... D 4318 (6-26-58)	Yes		C F	35.00 38.50	3.00 2.76	7.50 7.18					

SWINE NUTRITIONAL SERVICE, CEDAR RAPIDS, IOWA

Wil-Sho Swine Premix No. 2XX Medicated..... D 1631 (3-10-58)	Yes		C F	3.00 19.70	0.08 1.47	3.00 3.82			0.08 0.018		4, 8
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Wil-Sho Pig Premix No. 1-40 Medicated D 1632 (3-10-58)	Yes	C	2.00	0.02	1.00			0.08			
		F	22.25	2.46	8.42			0.0085			4, 8
Wil-Sho Swine Premix No. 1 Medicated D 1633 (3-10-58)	Yes	C	4.00	0.08	5.00			0.04			
		F	14.10	2.05	2.91			0.0095			8

SWISHER FEED & LUMBER CO., SWISHER, IOWA

Vondracek's 32% Dry Lot Supplement D 4830 (11-18-58)	Yes	C	32.00	1.50	7.00	6.00	1.25	0.0005	2.00		
		F	33.45	1.50	5.98	4.80	1.21	0.0014	2.08		
Vondracek's 28% Dairy Supplement D 4831 (11-18-58)	Yes	C	28.00	2.50	8.50	7.50	2.00	0.0028	5.00		
		F	28.00	1.77	6.05	7.10	2.55	0.0034	5.75		3
Vondracek's Pig Starter D 4832 (11-18-58)	Yes	C	16.00	3.50	4.50						
		F	17.95	5.05	2.41						
Vondracek's 35% Pig & Sow Supplement D 4833 (11-18-58)	Yes	C	35.00	2.50	6.50	5.50	1.25	0.0057	3.00		
		F	37.30	3.95	5.38	5.20	1.76	0.0011	3.14		8
Vondracek's 30% Pig Grower Supplement D 4834 (11-18-58)	Yes	C	30.00	3.00	5.50	7.50	1.50	0.0057	2.50		
		F	32.50	5.13	3.84	7.20	2.00	0.00085	2.75		8
Vondracek's 40% Hog Supplement D 4835 (11-18-58)	Yes	C	40.00	1.50	7.50	5.00	1.00	0.0017	1.50		
		F	43.50	3.72	5.08	4.30	1.15	0.0013	1.70		
Vondracek's 40% Poultry Concentrate D 4836 (11-18-58)	Yes	C	40.00	4.50	6.00	7.50	2.50	0.0057	2.50		
		F	41.20	5.94	4.62	7.70	2.98	0.0016	2.89		6, 8
Vondracek's 26% Poultry Free Choice Supplement D 4837 (11-18-58)	Yes	C	26.00	2.75	8.00	4.00	1.00	0.0038	1.50		
		F	30.15	4.64	7.80	2.60	1.66	0.0010	1.57		8
Vondracek's Chick Starter D 4838 (11-18-58)	Yes	C	20.00	3.00	6.00						
		F	20.95	3.99	4.07						

COMMERCIAL FEEDS

TABER BROTHERS, HUBBARD, IOWA

Taber-Rite Hog Supplement Medicated D 1230 (7-9-58)	Yes	C	40.00	3.00	6.00						
		F	44.50	7.33	3.13						
Taber-Rite Hog Supplement Medicated D 1231 (7-9-58)	Yes	C	40.00	3.00	6.00						
		F	43.55	7.34	3.31						

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

TABER BROTHERS, HUBBARD, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Taber-Rite Hog Supplement No. 2 "B" D 1232 (7-9-58)	Yes		C	40.00	2.00	7.00	.....	.....	.....	.....	
			F	44.55	4.16	4.77	.....	.....	.....	.....	
Taber-Rite Hog Supplement Medicated D 1233 (7-9-58)	Yes		C	40.00	3.00	6.00	.....	.....	.....	.....	
			F	42.90	7.09	4.32	.....	.....	.....	.....	

TANVILAC CO., INC., DES MOINES, IOWA

Tanvilac 26% Egg & Breeder Supplement Medicated D 1412 (12-5-57)	Yes		C	26.00	3.00	8.00	.....	.....	.....	.....	
			F	28.30	4.28	7.78	.....	.....	.....	.....	
Tanvilac (I.T.C.) D 1413 (12-5-57)	Yes		C	10.00	2.00	6.00	.....	.....	.....	.....	
			F	13.30	1.73	5.59	.....	.....	.....	.....	
Tanvilac 20% Egg & Breeder Mash Medicated D 1414 (12-5-57)	Yes		C	20.00	3.00	7.00	.....	.....	.....	.....	4
			F	21.85	4.17	7.79	.....	.....	.....	.....	
Tanvilac 22% Beef Fattener D 1415 (12-5-57)	Yes		C	22.00	2.00	10.00	.....	.....	.....	.....	
			F	25.65	2.41	9.94	.....	.....	.....	.....	
Tanvilac Sow & Pig Concentrate D 1416 (12-5-57)	Yes		C	32.00	3.00	9.00	.....	.....	.....	.....	3
			F	39.80	2.20	8.41	.....	.....	.....	.....	
Tanvilac Calf Starter D 1417 (12-5-57)	Yes		C	25.00	3.00	7.00	.....	.....	.....	.....	
			F	27.80	2.83	6.45	.....	.....	.....	.....	
Shur-Gain Dog Food D 1418 (12-5-57)	No	Yes	C	24.00	5.00	4.00	.....	.....	.....	.....	3
			F	27.75	4.23	3.29	.....	.....	.....	.....	
New Improved Tanvilac D 1419 (12-5-57)	Yes		C	12.00	3.00	7.00	.....	.....	.....	.....	4
			F	15.65	3.12	8.41	.....	.....	.....	.....	

Tanvilac Base Medicated.....	Yes	C	24.00	3.00	9.00				
D 1401 (12-5-57)		F	34.15	2.84	7.97				
Tanvilac 40% Hog Concentrate.....	Yes	C	40.00	3.00	8.00				
D 1402 (12-5-57)		F	41.35	2.72	6.87				
Tanvilac Medicated Runt Sav-R.....	Yes	C	18.00	3.00	5.00				
D 1404 (12-5-57)		F	21.30	5.00	5.36				
Tanvilac Rabbit Pellets.....	Yes	C	14.00	2.50	13.00				
D 1405 (12-5-57)		F	16.35	2.91	10.60				
Tanvilac 0.0022% D.E.S. Mix In Cattle Supplement .....	Yes	C	32.00	2.00	12.00				
D 1406 (12-5-57)		F	36.95	2.43	8.28				
Tanvilac 32% Dairy Concentrate.....	Yes	C	32.00	2.50	8.00				
D 1408 (12-5-57)		F	35.85	2.05	6.56				3
Tanvilac 40% Hog Concentrate.....	Yes	C	40.00	3.00	8.00				
D 1410 (12-5-57)		F	41.75	2.85	7.24				
Tanvilac Super Pig Booster Medicated.....	Yes	C	18.00	4.00	4.00				
D 1411 (12-5-57)		F	20.90	5.60	3.21				
Special Tanvilac Medicated.....	Yes	C	15.00	2.50	8.00				
D 1425 (12-5-57)		F	23.35	2.99	9.71				4
Tanvilac Pig Starter (H) Medicated.....	Yes	C	18.00	3.00	5.00				
D 1426 (12-5-57)		F	20.50	4.69	2.36				
Shur-Gain .....	Yes	C	20.00	4.00	6.00				
D 1427 (12-5-57)		F	28.45	6.25	3.54				
Tanvilac 35% Hog Concentrate.....	Yes	C	35.00	3.00	9.00				
D 1428 (12-5-57)		F	38.25	4.21	9.43				
Special Tanvilac.....	Yes	C	15.00	2.50	8.00				
D 1420 (12-5-57)		F	19.60	3.54	8.25				
Tanvilac Poultry Concentrate Medicated.....	Yes	C	35.00	3.00	9.00				
D 1421 (12-5-57)		F	37.10	2.96	9.75				4
Tanvilac Pig Grower.....	Yes	C	16.00	3.00	5.00				
D 1422 (12-5-57)		F	19.80	3.26	4.34				

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## TANVILAC CO., INC., DES MOINES, IOWA—Continued

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Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Tanvilac 32% Pig Grower Supplement Medicated	Yes		C	32.00	2.00	7.00					
D 1424 (12-5-57)			F	33.10	2.55	6.98					
Tanvilac Cattle & Sheep Mineral	Yes		C				22.00	4.00	0.0015	10.00	
D 1403 (12-5-57)			F				23.60	4.52	0.0045	9.54	5
Tanvilac Hog Mineral	Yes		C				21.00	3.00	0.0015	10.00	
D 1409 (12-5-57)			F				22.20	3.40	0.0066	9.60	5
Tanvilac Livestock Mineral Pellets	Yes		C				22.00	6.00	0.0015	5.00	
D 1431 (12-5-57)			F				21.00	6.52	0.0031	5.60	6

## TARKIO MOLASSES FEED COMPANY, KANSAS CITY, MISSOURI

Sweet-Processed Tarkio	Yes		C	11.00	2.00	7.50					
D 2328 (9-3-58)			F	11.85	2.00	6.65					

## TESKE MILLING CO., DAVENPORT, IOWA

Bang Chick Starter Medicated	Yes		C	20.00	2.50	7.50					
E 7224 (3-14-58)			F	21.55	3.80	5.63					
Bang 0.0011% D.E.S. Mix Inc In Bang Cattle Balancer	Yes		C	32.00	2.00	11.00					
E 7229 (3-14-58)			F	32.00	3.20	8.07					
Bang Chick Grower Medicated	Yes		C	16.00	2.50	8.00					
E 7231 (3-14-58)			F	18.10	4.45	7.19					

ANNUAL REPORT

Bang Snax		Yes	C	34.00	2.60	6.00				
E 7233	(3-14-58)		F	36.60	4.80	4.45				
Bang 36% Poultry Mixer		Yes	C	35.00	2.00	9.50				
D 420	(12-2-57)		F	37.65	4.83	6.66				
Bang Pig Starter		Yes	C	18.00	3.00	5.00				
D 421	(12-2-57)		F	19.40	3.83	3.47				
E 7227	(3-14-58)		F	19.75	3.70	3.30				
E 7261	(6-16-58)		F	18.70	3.93	3.20				
D 2891	(12-9-58)		F	20.85	4.18	3.24				
Bang 35% Hog Dry Lot Supplement		Yes	C	35.00	2.00	9.00				
D 422	(12-2-57)		F	38.40	2.90	6.72				
D 2895	(12-9-58)		F	35.15	3.36	8.97				
Bang 40% Hog Pasture Supplement		Yes	C	40.00	3.00	5.50	4.50	1.00		1.50
D 423	(12-2-57)		F	41.20	4.66	4.12				
E 7225	(3-14-58)		F	40.30	4.80	4.37	4.00	1.96		1.47
D 2893	(12-9-58)		F	40.95	3.60	5.02	3.10	1.31		1.63
Bang 32% Beef Supplement		Yes	C	32.00	2.00	9.00				
D 412	(12-2-57)		F	31.75	2.95	8.63				
E 7230	(3-14-58)		F	32.75	2.85	8.15				
E 7266	(6-16-58)		F	32.40	2.98	8.23				
Bang 26% Pig & Sow Supplement		Yes	C	26.00	3.00	9.00	3.00	1.00	0.002	2.50
D 413	(12-2-57)		F	26.95	3.55	8.70				
E 7235	(3-14-58)		F	25.80	3.00	7.33				
E 7265	(6-16-58)		F	26.25	3.05	8.53				
D 2894	(12-9-58)		F	26.75	3.09	8.02	3.00	0.86	0.0020	2.23
Bang 26% Free Choice Poultry Supplement		Yes	C	26.00	3.50	9.00				
D 414	(12-2-57)		F	27.00	4.07	8.80				
E 7232	(3-14-58)		F	27.80	3.50	9.00				
Bang Egg Layer		Yes	C	20.00	3.00	9.00				
D 415	(12-2-57)		F	23.30	3.98	7.18				
E 7226	(3-14-58)		F	22.20	4.00	7.17				
E 7262	(6-16-58)		F	23.65	3.99	8.00				
D 2890	(12-9-58)		F	23.55	4.58	7.92				
Bang 15% Complete Rabbit Ration		Yes	C	15.00	2.00	15.00				
D 416	(12-2-57)		F	18.10	3.15	11.21				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 TESKE MILLING CO., DAVENPORT, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Bang Super-Fortified Calf Starter.....	Yes		C	25.00	2.50	7.00					
D 417 (12-2-57)			F	27.00	3.81	6.46					
E 7228 (3-14-58)			F	25.60	3.40	6.20					
E 7260 (6-16-58)			F	25.35	3.06	6.43					
D 2892 (12-9-58)			F	24.90	3.76	7.00					
Bang 18% Big Pig Builder.....	Yes		C	18.00	2.50	6.00					
D 418 (12-2-57)			F	22.05	3.59	4.77					
E 7264 (6-16-58)			F	20.30	3.15	5.07					
Bang 16% Complete Egg Feed.....	Yes		C	16.00	3.50	7.00					
D 419 (12-2-57)			F	24.30	3.70	5.91					
Bang 35% Hog Drylot Supplement Meal.....	Yes		C	35.00	2.00	9.00	4.00	1.50	0.003	1.75	
E 7234 (3-14-58)			F	35.60	3.60	6.76	3.80	1.55	0.0038	1.55	
Bang 35% Hog Drylot Supplement Pellets.....	Yes		C	35.00	2.00	9.00					
E 7263 (6-16-58)			F	36.60	3.32	7.54					

THORNTON FEED STORE, DECORAH, IOWA

Thornton Early Weaning Pre-Creep Meal.....	Yes		C	17.00	5.00	2.50					
D 1524 (2-19-58)			F	15.15	5.21	1.61					2a
D 754 (4-29-58)			F	16.45	5.75	1.66					
D 1399 (10-1-58)			F	16.70	6.20	2.13					2
Thornton 21% Pig Starter & Sow Meal.....	Yes		C	21.00	4.00	7.50					
D 1520 (2-19-58)			F	22.75	4.98	5.68					
D 1398 (10-1-58)			F	20.50	4.15	6.94					2
Thornton 26% Egg Balancer.....	Yes		C	26.00	3.50	9.50	2.25	0.35	0.000225	2.75	
D 1521 (2-19-58)			F	27.20	5.03	8.46					
D 1397 (10-1-58)			F	28.40	4.03	8.37	3.10	1.75	0.0005	2.80	5



Thornton 20% Egg Mash.....		Yes	C	20.00	4.00	7.50							
D 1522 (2-19-58)			F	21.30	4.17	6.82							4
D 1396 (10-1-58)			F	21.15	4.34	8.14							
Thornton 40% Hog Balancer.....		Yes	C	40.00	4.00	6.00	2.60	0.33	0.00014	2.00			
D 1523 (2-19-58)			F	42.05	6.01	6.03							4, 5, 6
D 1400 (10-1-58)			F	41.55	5.17	7.50	3.40	1.61	0.0003	2.75			

CHRIS TIETZ FEEDS, MANLY, IOWA

Tietz's Cut Time 40% Poultry Concentrate		Yes	C	40.00	3.30	6.40	5.00	1.60	0.0004	2.40			
Medicated D 6515 (12-2-58)			F	41.75	3.34	6.44	3.70	1.57	0.0010	1.44			

TJEPKES MINERAL & FEED COMPANY, ACKLEY, IOWA

Key-Gro 34% Poultry Concentrate.....		Yes	C	34.00	2.50	8.00							
D 4525 (8-14-58)			F	35.70	2.88	7.65							
Key-Gro Dog Food.....		Yes	C	26.00	4.00	4.50							3
D 4526 (8-14-58)			F	26.05	3.54	3.00							
Key-Gro Sow Supplement.....		Yes	C	30.00	2.60	9.00							
D 4524 (8-14-58)			F	31.95	3.47	8.82							
Key-Gro 35% Grain Balancer.....		Yes	C	35.00	2.00	7.50							
D 4523 (8-14-58)			F	38.55	3.13	7.45							

TOETERVILLE CO-OP ELEVATOR, TOETERVILLE, IOWA

Felco Special Hog Balancer.....		Yes	C	40.00	1.50	9.00							
D 1357 (7-1-58)			F	41.05	3.04	8.30							
Felco Special Dry Lot Hog Supplement.....		Yes	C	35.00	1.50	9.00							4
D 1358 (7-1-58)			F	37.00	1.37	9.54							

TRADER OIL MILL CO., FORT WORTH, TEXAS

Traders 41% Protein Cottonseed Meal.....	No	Yes	C	41.00	3.00	14.00							2a, 4
D 2169 (10-31-58)			F	37.45	5.12	15.09							

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

TRETTIN HATCHERY, ROCKFORD, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Check-R-Mix Starting Feed F D 738 (4-23-58)	Yes		C	17.00	3.00	7.00	.....	.....	.....	.....	
			F	20.55	3.95	5.39	.....	.....	.....	.....	

TRI FOODS COMPANY, CONCORDIA, MISSOURI

Concordia Dried Whole Whey D 4152 (6-30-58)	Yes		C	12.00	0.00	1.00	.....	.....	.....	.....	
			F	14.70	0.00	0.10	.....	.....	.....	.....	

TRIANGLE FEED & GRAIN CO., CHARLES CITY, IOWA

Triangle 16% Pullet Grower D 857 (6-4-58)	Yes		C	16.00	4.00	7.25	.....	.....	.....	.....	
			F	18.10	4.75	5.55	.....	.....	.....	.....	
Triangle 36% Hog Concentrate D 858 (6-4-58) D 6508 (11-28-58)	Yes		C	36.00	2.50	9.00	4.60	1.20	0.001	2.50	
			F	38.00	3.02	7.66	.....	.....	.....	.....	
			F	37.20	2.55	8.02	2.20	1.15	0.0012	1.85	
Triangle 18% Egg Mash D 859 (6-4-58) D 6507 (11-28-58)	Yes		C	18.00	4.00	7.00	.....	.....	.....	.....	
			F	19.65	4.27	5.96	.....	.....	.....	.....	
			F	19.70	4.32	5.48	.....	.....	.....	.....	

TRIANGLE FEED & ROLLER MILL, HARLAN, IOWA

Rolled Oat Groats D 4068 (7-9-58)	Yes		C	16.00	6.00	2.50	.....	.....	.....	.....	
			F	17.40	6.11	2.20	.....	.....	.....	.....	
Oat Mill By-Product D 2560 (11-10-58)	Yes		C	3.50	1.50	30.00	.....	.....	.....	.....	
			F	4.85	1.37	27.80	.....	.....	.....	.....	

TRICO FEED MILLS, MINDEN, NEBRASKA

Trico Dehydrated Alfalfa Meal..... D 3805 (3-27-58)	Yes	C F	17.00 19.15	1.50 3.11	27.00 23.48	-----	-----	-----	-----	
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TRI-STATE MILLING COMPANY, RAPID CITY, SOUTH DAKOTA

Trisco—Standard Middlings..... D 2021 (8-19-58)	Yes	C F	14.00 18.25	3.00 4.93	9.50 5.95	-----	-----	-----	-----	
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TRUESDALE CO-OP ELEVATOR CO., TRUESDALE, IOWA

Co-Op Regular 40% Hog Balancer..... E 8932 (11-13-57)	No	C F	40.00 43.00	2.50 3.47	7.50 4.00	-----	-----	-----	-----	
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TYDEN FEED & LIVESTOCK CO., INC., DOUGHERTY, IOWA

Tyden 18% Pig Starter..... E 7892 (12-20-57)	Yes	C F	18.00 21.85	3.00 3.73	4.00 2.52	-----	-----	-----	-----	
Tyden 24% Pig & Sow Meal..... E 7893 (12-20-57)	Yes	C F	24.00 26.60	2.00 3.56	7.50 8.09	-----	-----	-----	-----	4
Tyden 40% Hog Balancer Medicated..... E 7894 (12-20-57)	Yes	C F	40.00 40.30	3.50 4.10	7.00 5.54	5.00 3.60	1.00 1.96	0.0001 0.001	2.50 2.21	
Tyden Cattle Protein Concentrate..... D 818 (8-25-58)	Yes	C F	37.00 37.45	2.50 3.05	8.50 8.08	5.00 3.00	1.00 0.92	0.0001 0.0005	2.00 1.70	
Tyden 18% Pig Starter Medicated..... D 819 (8-25-58)	Yes	C F	18.00 22.55	3.00 4.41	4.00 2.84	-----	-----	-----	-----	
Tyden 32% Dairy Supplement..... D 820 (8-25-58)	Yes	C F	32.00 37.25	3.50 3.20	9.50 7.62	4.00 2.00	1.00 0.94	-----	2.00 1.63	
Tyden 35% Hog Balancer..... D 821 (8-25-58)	Yes	C F	35.00 39.00	3.00 3.12	7.00 6.14	5.00 3.40	1.00 1.39	0.002 0.001	2.50 2.43	8

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 ULTRA-LIFE LABORATORIES, INC., EAST ST. LOUIS, ILLINOIS

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Ultra-Life Poultry Premix D 3833 (4-2-58)	Yes		C	18.50	5.50	5.50					
			F	22.10	8.10	5.03					
Ultra-Life Livestock Premix D 3835 (4-2-58)	Yes		C	23.00	1.50	4.50	9.00	4.00	0.0573		
			F	27.90	1.67	4.31	8.00	4.00	0.50		
Ultra-Life Beef-Gro Premix D 3836 (4-2-58)	Yes		C	26.00	4.00	7.50					
			F	29.40	4.54	6.30					
Ultra-Life Pig-Gro Premix D 3837 (4-2-58)	Yes		C	19.00	5.00	5.00					
			F	22.90	8.15	4.75					

UNIVERSAL SHELL CO., MUSCATINE, IOWA

Universal Mineral Feed E 9169 (12-6-57)	Yes		C				30.00	4.00	0.01	6.00	
			F				25.20	3.80	0.013	4.55	

VALLEY MILL, MISSOURI VALLEY, IOWA

Valley Mill Big Ten Hog Supplement D 2513 (5-1-58)	Yes		C	40.00	4.00	9.00					2a, 3
			F	37.40	3.52	6.01					
Valley Mill Egg Mash D 2514 (5-1-58)	Yes		C	20.00	3.50	7.00					
			F	20.25	4.94	6.73					
Valley Mill 16% Dairy Ration D 2515 (5-1-58)	Yes		C	16.00	3.00	10.00					
			F	18.10	3.85	6.30					
Valley Mill 32% All Purpose Concentrate D 2516 (5-1-58)	Yes		C	32.00	4.00	7.00					
			F	35.10	6.09	7.23					

VALLEY RENDERING COMPANY, IDA GROVE, IOWA

Val-U Meat Meal Tankage..... D 639	(4-3-58)	Yes	C F	50.00 48.70	6.00 15.15	3.00 4.67	..... .....	..... .....	..... .....	..... .....	2a, 4
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VICTOR CHEMICAL WORKS, CHICAGO, ILLINOIS

Victor Chemicals Dicalcium Phosphate 21, Stock Grade Food..... D 3751	(4-4-58)	No	C F	..... .....	..... .....	..... .....	30.00 27.60	21.00 20.99	..... .....	..... .....	
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VIGORTONE PRODUCTS, INC., CEDAR RAPIDS, IOWA

Special Mix Vigortone No. 14 Medicated..... E 9786	(12-13-57)	Yes	C F	..... .....	..... .....	..... .....	10.00 11.40	2.30 2.43	0.0100 0.012	3.90 4.00	5
Vigortone Kalf-Ayd..... E 9787	(12-13-57)	Yes	C F	..... .....	..... .....	..... .....	9.50 9.90	3.00 3.36	0.0202 0.0286	3.60 4.64	5, 6
Bovotone-EIF-No. 12-D..... E 9788	(12-13-57)	Yes	C F	..... .....	..... .....	..... .....	25.50 24.00	5.30 5.44	0.07 0.155	3.50 3.51	
Dairy Special No. 30..... E 9789	(12-13-57)	Yes	C F	..... .....	..... .....	..... .....	19.50 19.20	3.50 3.88	0.0152 0.0368	6.00 5.88	
Improved Junior Vigortone No. 6..... E 9790	(12-13-57)	Yes	C F	..... .....	..... .....	..... .....	12.00 12.10	2.75 2.94	0.0150 0.0150	4.50 7.82	6
Bovotone No. 12..... E 9791	(12-13-57)	Yes	C F	..... .....	..... .....	..... .....	19.50 19.60	3.50 4.00	0.0152 0.0276	6.00 7.25	6

VIKING FEEDS, INC., DES MOINES, IOWA

Viking Medicated Sheep Vilak..... D 3445	(11-28-58)	Yes	C F	..... .....	..... .....	..... .....	19.00 18.60	5.00 5.22	0.014 0.12	6.50 6.51	
Viking Pig Pro-Lak..... D 3446	(11-28-58)	Yes	C F	35.00 37.50	3.50 5.65	7.00 5.41	..... .....	..... .....	..... .....	..... .....	

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 VIKING FEEDS, INC., DES MOINES, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Viking Pro-Lak Poultry Concentrate D 3447 (11-28-58)	Yes		C	30.00	3.00	7.50	7.00	1.75	0.001	2.00	
			F	33.30	4.09	5.83	6.20	1.94	0.002	2.10	
Viking Egg Prom D 3448 (11-28-58)	Yes		C	26.00	3.50	7.50					
			F	30.65	5.36	6.19					
Viking Hog Pro-Lak "40" Medicated D 8851 (11-28-58)	Yes		C	40.00	4.00	6.50					
			F	42.40	4.38	4.76					
Viking Hog Pro-Lak D 8852 (11-28-58)	Yes		C	30.00	3.00	6.00					
			F	32.00	2.87	3.77					
Viking Turkey & Poultry D 3443 (11-28-58)	Yes		C				18.00	5.00	0.014	5.00	
			F				21.20	5.42	0.009	4.55	5, 8
Viking Beef Pro-Lak Medicated D 3444 (11-28-58)	Yes		C	32.00	1.50	8.00	9.00	2.00	0.004	4.50	
			F	35.25	3.15	4.78	6.20	2.21	0.0013	4.42	8
Viking Hog Vilak D 3450 (11-28-58)	Yes		C				16.00	4.50	0.014	5.00	
			F				15.00	4.72	0.007	4.75	8
Viking Cattle Vilak Medicated D 3449 (11-28-58)	Yes		C				17.00	5.00	0.0014	5.00	
			F				19.20	4.68	0.007	4.55	5
Viking Super Big 4 Compound Medicated D 8853 (11-28-58)	Yes		C				14.50	3.00	0.05	25.00	
			F				14.20	3.72	0.014	25.36	8

VILAS & COMPANY, STORM LAKE, IOWA

Vitamash 34% Cattle Supplement E 2664 (6-5-58)	Yes		C	34.00	3.00	9.00					
			F	35.05	3.36	8.70					

Vitamash Turkey Pre-Starter Medicated E 2666	(6-5-58)	Yes		C	30.00	4.00	5.00					
				F	32.00	4.06	4.81					
Vitamash 26% Layer Concentrate E 2668	(6-5-58)	Yes		C	26.00	3.00	8.00					
				F	27.30	4.60	7.09					
Vitamash Pig Starter Medicated E 2665	(6-5-58)	Yes		C	20.00	5.00	4.00					
				F	22.95	5.15	3.81					
Vitamash 20% Chick Grower Medicated E 2662	(6-5-58)	Yes		C	20.00	3.50	7.50					
				F	22.85	4.20	5.44					
Vitamash Turkey Starter Medicated E 2663	(6-5-58)	Yes		C	28.00	3.60	4.00					
				F	28.45	4.47	4.15					
Vitamash 20% Hen Layer E 2667	(6-5-58)	No	Yes	C	20.00	4.00	7.50					1a
				F	21.45	4.30	5.60					

VINTON FARMERS SUPPLY, INC., VINTON, IOWA

Vinton Farmers 35% Cattle & Dairy Supplement D 5083	(8-18-58)	Yes		C	35.00	2.00	7.00					
				F	37.40	2.51	7.72					4
Vinton Farmers Cattle Supplement A D 5084	(8-18-58)	Yes		C	32.00	0.04	8.00					
				F	32.50	1.56	7.44					
Vinton Farmers 42% Hog Balancer Medicated D 5085	(8-18-58)	Yes		C	42.00	1.50	7.00	5.50	1.40	0.0015	3.00	
				F	41.80	3.12	5.53	3.20	1.50	0.0018	2.05	
Vinton Farmers Fast Gain 32% Cattle Supplement D 5086	(8-18-58)	Yes		C	32.00	1.70	8.00					
				F	34.65	2.08	8.00					
Vinton Farmers Pig Grow 40 Concentrate Medicated D 5075	(8-18-58)	Yes		C	40.00	1.50	5.60					
				F	42.40	3.48	5.40					
Vinton Farmers Antibiotic and 3-Nitro Mixture D 5076	(8-18-58)	Yes		C	40.00	1.50	5.60					1a
				F	41.05	3.43	4.75					
Vinton Farmers 40% Swine Supplement Pellets Medicated D 5077	(8-18-58)	Yes		C	40.00	3.50	7.00					
				F	40.50	4.65	6.75					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 VINTON FARMERS SUPPLY, INC., VINTON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Vinton Farmers 20% Lay Mash..... D 5080 (8-18-58)	Yes		C F	20.00 22.25	3.50 4.25	6.50 6.55					
Vinton Farmers 36% Pig & Sow Supplement..... E 8369 (11-13-57) D 2693 (4-21-58) D 5074 (8-18-58)	Yes		C F F F	36.00 38.35 37.40 39.05	3.50 3.37 4.40 3.88	10.00 7.45 6.66 7.70	5.50 4.10	1.50 1.81	0.002 0.00264	2.80 2.26	
Vinton Farmers 0.0022% D.E.S. Mix Inc In Fast Gain Cattle Supplement..... D 2692 (4-21-58) D 5088 (8-18-58)	Yes		C F F	32.00 34.25 35.65	1.80 1.85 2.20	9.00 7.70 7.40	3.00 2.80 3.00	0.60 0.98 0.94	0.001 0.00168 0.0012	2.50 1.72 2.01	
Vinton Farmers Baby Pig Pusher Sweets Medicated..... D 2694 (4-21-58) D 5081 (8-18-58)	Yes		C F F	16.00 17.50 19.50	2.75 4.35 3.65	3.00 2.15 2.66					
Vinton Farmers 20% Chick Starter Medicated..... D 2695 (4-21-58)	Yes		C F	20.00 22.80	3.00 4.50	6.00 4.75					
Vinton Farmers 28% Poultry Balancer..... D 2696 (4-21-58) D 5079 (8-18-58)	Yes		C F F	28.00 29.35 29.65	3.50 4.55 4.28	7.00 4.84 6.48	6.00 4.10	1.30 2.20	0.0006 0.0011	2.00 1.47	
Vinton Farmers 20% Pig Grower Medicated..... D 2697 (4-21-58) D 5078 (8-18-58)	Yes		C F F	20.00 22.75 21.30	4.00 4.20 3.82	5.00 4.21 5.37					
Vinton Farmers 18% Chick Grower Medicated..... D 2698 (4-21-58) D 5082 (8-18-58)	Yes		C F F	18.00 21.00 18.85	4.00 4.45 4.26	7.00 5.45 5.64					
Vinton Farmers 35% Poultry Concentrate..... D 5073 (8-18-58)	Yes		C F	35.00 37.25	3.60 4.32	8.00 6.99					



Vinton Farmers 0.0011% D.E.S. Mix Inc In Beef Finisher Cattle Feed..... D 5087 (8-18-58)	Yes	C F	34.00 35.35	0.50 2.05	11.00 11.07	2.50 2.60	1.00 1.39	0.0009 0.0011	2.50 2.01	
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VITA-BEST FEED CO., MONMOUTH, IOWA

Vita-Best A-1 Super Pig Starter..... D 5412 (11-28-58)	Yes	C F	21.00 22.45	4.00 4.73	6.00 4.95					
Vita-Best A-1 32% Poultry Concentrate..... D 5408 (11-28-58)	Yes	C F	32.00 31.00	3.50 3.87	9.00 8.90	6.00 5.80	1.80 1.74	0.0003 0.0015	2.50 2.44	2a
Vita-Best 28% Don't Mix Poultry..... D 5409 (11-28-58)	Yes	C F	28.00 27.85	3.50 4.58	8.50 8.71					
Vita-Best A-1 45% Hog Supplement..... D 5410 (11-28-58)	Yes	C F	45.00 47.20	4.00 3.47	4.50 4.82					3
Vita-Best 34% Hog Concentrate..... D 5411 (11-28-58)	Yes	C F	34.00 33.30	3.00 3.87	7.50 8.65	5.00 5.20	1.50 1.73	0.0002 0.001	2.00 2.03	2, 4

VITA-CON SALES COMPANY, SCHALLER, IOWA

Vita-Con ..... D 2165 (10-31-58)	Yes	C F	25.00 29.10	4.00 7.25	7.80 6.04					
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VITA-PLUS CORP., MADISON, WISCONSIN

Vita-Plus Super Layer Base..... D 1263 (3-11-58)	Yes	C F	14.00 16.75	1.50 3.84	22.00 24.37					4
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VIT-A-WAY, INC., FORT WORTH, TEXAS

Special-2031 Vita-A-Way Mineral-Vitamin Supplement ..... D 670 (12-13-57)	Yes	C				22.00	5.50	0.02	12.50	6
D 542 (4-21-58)		F				19.20	5.92	0.020	13.30	
D 4148 (9-30-58)		F				21.40	6.56	0.0374	8.88	
		F				21.80	6.32	0.028	9.85	

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

VOLGA FEED MILL, VOLGA, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Volga's Best 26% Grain Balancer..... D 3016 (7-16-58)	Yes		C	26.00	4.00	9.00					4
			F	26.40	5.22	9.63					
Volga's Best 40% Hog Supplement..... D 3017 (7-16-58)	Yes		C	40.00	5.00	6.50					3
			F	41.00	4.00	6.40					
Volga's Best 34% Poultry Concentrate..... D 3018 (7-16-58)	Yes		C	34.00	4.50	8.00					
			F	34.80	4.95	8.00					
Volga's Best 34% Chick Concentrate..... D 3019 (7-16-58)	Yes		C	34.00	5.00	7.00					4
			F	35.50	5.28	7.50					

F. H. VOSS MILLING CO., CLARKSVILLE, IOWA

Farmers Best 22% Layer..... D 4583 (10-1-58)	Yes		C	22.00	4.00	5.00					
			F	22.90	4.40	4.04					
Farmers Best 40% Hog Concentrate..... D 4584 (10-1-58)	Yes		C	40.00	2.50	7.00	4.00	1.30	0.0007	3.00	
			F	40.75	4.62	5.88	4.10	1.29	0.00076	3.23	

VYLACTOS LABORATORIES, INC., DES MOINES, IOWA

Dyna-Base Turkeys Medicated..... D 251 (1-27-58)	Yes		C	40.00	2.00	5.00					
			F	45.15	4.93	3.93					
Dyna-Base Swine Finishers Medicated..... D 252 (1-27-58)	Yes		C	45.00	1.50	6.00					
			F	47.70	3.76	4.05					
Dyna-Base Starter-Broiler Medicated..... D 253 (1-27-58)	Yes		C	40.00	3.00	5.00					
			F	45.60	5.28	3.89					

Dyna-Base Pig Starters Medicated D 254 (1-27-58)	Yes	C F	34.00 40.40	1.50 2.62	4.00 2.33				
Dyna-Base Layers Medicated D 255 (1-27-58)	Yes	C F	42.00 45.95	3.00 5.64	5.00 4.00				
MyTmix for Turkeys—Antibiotic and Vitamin Supplement D 256 (1-27-58)	Yes	C F	5.00 35.75	1.00 4.10	4.50 5.20				4
MyTmix for Starter Broiler Antibiotic and Vitamin Supplement D 258 (1-27-58)	Yes	C F	5.00 36.65	1.00 2.08	4.50 5.42				4
MyTmix for Layer Breeder Vitamin Supplement D 259 (1-27-58)	Yes	C F	5.00 38.45	1.00 2.21	4.50 5.21				4
MyTmix for Swine—Antibiotic and Vitamin Supplement D 260 (1-27-58)	Yes	C F	5.00 34.45	1.00 3.02	4.50 7.19				4
MyTmix—Pig Pusher Antibiotic and Vitamin Supplement D 257 (1-27-58)	Yes	C F	5.00 26.45	1.00 3.59	4.50 8.30				4
Omalass Feeding Cane Molasses Dehydrated on Corn Oil Meal D 3842 (4-2-58)	Yes	C F	8.00 10.70	0.50 0.45	7.00 6.67				
Omalass D 5503 (8-28-58)	Yes	C F	8.00 9.90	0.50 1.04	7.00 5.51				
Dyna Sol No. 80-M D 2563 (11-10-58)	Yes	C F	34.00 39.05	3.00 6.65	5.00 5.33				

WAGGONERS, CENTERVILLE, IOWA

Red Label Poultry Feed Crumbles D 4928 (7-10-58)	Yes	C F	18.00 21.75	2.00 3.86	9.00 4.78				
Waggoner's Enriched Egg Layer D 4929 (7-10-58)	Yes	C F	20.00 19.50	3.50 4.95	7.50 5.48				2
Waggoner's Cafeteria Poultry Supplement D 4930 (7-10-58)	Yes	C F	26.00 30.30	3.00 3.70	8.00 6.82				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
WAGGONERS, CENTERVILLE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Waggoner's Groetts D 4931 (7-10-58)	Yes		C F	18.00 24.75	3.00 3.21	7.00 4.70	..... .....	..... .....	..... .....	..... .....	
WAGNER'S PRODUCE & FEED, MASSENA, IOWA											
Wagner's Hi-Power Hog Supplement E 9178 (12-6-57)	Yes		C F	40.00 42.65	3.00 3.85	6.50 5.77	..... .....	..... .....	..... .....	..... .....	
J. H. WAKE FEED MILL, OSKALOOSA, IOWA											
45% Super Hog Concentrate Medicated E 8414 (1-6-58)	Yes		C F	45.00 45.15	3.00 5.31	5.00 3.07	5.30 5.80	2.30 2.27	0.00014 0.00038	2.00 2.52	5, 6
D 1709 (2-20-58)			F	45.10	8.96	3.66	.....	.....	.....	.....	
D 5201 (8-1-58)			F	43.05	8.20	2.85	7.30	3.20	0.00066	2.20	2a, 5
Thrifty 40% Hog Supplement E 8416 (1-6-58)	Yes		C F	40.00 41.55	2.00 4.12	6.50 6.21	5.50 4.30	1.70 1.65	0.00007 0.0007	2.00 1.89	
Wake's Circle Brand 36% Poultry Concentrate Medicated E 8421 (1-6-58)	Yes		C F	36.00 38.30	2.00 4.59	8.00 6.30	4.25 4.73	1.30 1.85	0.003 0.0011	2.00 2.54	5, 6, 8
Wake Circle Brand 26% Poultry Balancer Medicated E 8422 (1-6-58)	Yes		C F	26.00 29.85	2.50 4.03	8.50 8.33	3.25 3.40	1.00 1.65	0.003 0.00074	1.40 1.58	8
D 1726 (2-20-58)			F	26.40	4.73	8.95	.....	.....	.....	.....	
Wake's Circle Brand 30% Sow & Pig Supplement Medicated E 8428 (1-6-58)	Yes		C F	30.00 32.05	2.00 3.31	9.00 8.21	3.20 3.56	1.20 1.51	0.00014 0.0006	2.00 2.82	6
D 1718 (2-20-58)			F	32.00	3.81	7.55	.....	.....	.....	.....	
D 5202 (8-1-58)			F	30.90	3.21	6.93	3.60	1.40	0.0020	2.00	5
D 5204 (8-1-58)			F	30.25	3.89	7.04	3.30	1.40	0.0011	1.90	

Wake's Circle Brand 40% Hog Supplement Medicated	Yes	C	40.00	3.00	6.00	5.20	1.90	0.00014	2.00	
E 8431 (1-6-58)		F	41.40	5.04	4.85	4.70	1.89	0.00075	2.10	
Wake Circle Brand 0.0011% D.E.S. Mix Inc In 22% Cattle Supplement	Yes	C	22.00	2.00	15.00					
E 8427 (1-6-58)		F	26.15	1.92	15.00					
D 1725 (2-20-58)		F	25.40	2.15	14.14					
Wake Circle Brand 21% Pig & Sow Medicated	Yes	C	21.00	3.50	6.00					
E 8429 (1-6-58)		F	22.35	4.28	5.38					
Wake's Circle Brand 18% Sweetened Pig Starter Medicated	Yes	C	18.00	3.00	3.00					
E 8430 (1-6-58)		F	19.90	3.61	2.50					
D 1715 (2-20-58)		F	20.65	4.19	2.31					
ISC "75" Pig Pre-Starter Medicated	Yes	C	24.00	7.00	1.00					
E 8413 (1-6-58)		F	26.15	7.03	2.06					4
D 1707 (2-20-58)		F	29.40	6.48	2.17					3, 4
Wake's Circle Brand 14% Pig Conditioner Medicated	Yes	C	14.00	4.00	3.50					
E 8415 (1-6-58)		F	16.85	3.52	3.62					3
D 1710 (2-20-58)		F	16.70	3.77	3.50					
Wake's Circle Brand 0.0011% D.E.S. Mix Inc In 37% Cattle Concentrate	Yes	C	37.00	2.00	7.00					
E 8417 (1-6-58)		F	39.55	2.18	7.63					4
D 1716 (2-20-58)		F	37.25	2.30	8.23					4
Wake's Circle Brand 32% Dairy Concentrate	Yes	C	32.00	2.00	7.00					
E 8418 (1-6-58)		F	32.05	2.00	6.32					
D 1708 (2-20-58)		F	33.55	1.84	6.25					
Wake's Circle Brand Rabbit Pellets	Yes	C	17.00	2.50	16.00					
E 8419 (1-6-58)		F	20.10	4.20	14.67					
D 1720 (2-20-58)		F	20.25	4.47	13.93					
Wake's Circle Brand 0.0022% D.E.S. Mix Inc In 37% Cattle Concentrate	Yes	C	37.00	2.00	7.00					
E 8420 (1-6-58)		F	39.90	2.45	7.94					4
D 1704 (2-20-58)		F	38.15	1.59	6.46					3
Wake's Circle Brand 20% Egg Mash	Yes	C	20.00	3.00	7.00					
E 8423 (1-6-58)		F	22.50	4.18	6.78					
D 1724 (2-20-58)		F	21.50	4.47	6.26					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 J. H. WAKE FEED MILL, OSKALOOSA, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wake's Circle Brand 16% Pig Grower Medicated E 8424 (1-6-58)	Yes		C F	16.00 17.60	3.00 3.94	3.50 2.62					
Wake's Circle Brand 16% Pig Grower Medicated D 1723 (2-20-58) D 5203 (8-1-58)	Yes		C F F	16.00 16.90 16.00	3.00 3.71 3.58	3.50 2.97 2.61					
Wake's Circle Brand 22% Cattle Supplement D 1722 (2-20-58)	Yes		C F	22.00 25.70	2.00 2.23	15.00 12.35					
Wake's Circle Brand 37% Cattle Concentrate D 1721 (2-20-58)	Yes		C F	37.00 38.55	2.00 1.97	7.00 6.97					
Wake's Circle Brand 36% Poultry Concentrate Medicated D 1719 (2-20-58)	Yes		C F	36.00 37.30	2.00 4.65	8.00 7.01					
Wake's Dog Food D 1705 (2-20-58)	Yes		C F	26.00 27.65	4.50 5.49	6.00 3.25					
Wake's Circle Brand Rabbit Pellets Medicated D 1712 (2-20-58)	No		C F	17.00 20.20	3.00 4.34	16.00 14.83					
Wake's Circle Brand 26% Poultry Balancer Medicated D 5205 (8-1-58)	Yes		C F	26.00 28.90	2.50 3.73	8.50 6.98	5.00 3.80	1.00 1.30	0.003 0.0005	1.40 1.50	8
WALL LAKE RENDERING COMPANY, WALL LAKE, IOWA											
Walleye Brand Tankage E 8913 (11-12-57)	Yes		C F	55.00 53.00	6.00 10.42	3.00 2.48					2a

WALL-ROGALSKY MILLING CO., McPHERSON, KANSAS

Wheat Bran with ground wheat screenings not exceeding mill run or 1% D 642 (4-3-58)	No	C	14.50	3.50	11.00				
		F	17.20	4.25	9.68				

WALNUT GROVE PRODUCTS CO., INC., ATLANTIC, IOWA

Walnut Grove "4X4" Hog Mineral D 486 (12-5-57)	Yes	C				9.25	2.00	0.01	5.00
D 3504 (3-24-58)		F				8.20	2.20	0.009	4.00
E 9777 (12-12-57)		F				8.60	2.32	0.011	4.00
		F				8.80	2.42	0.01	4.55
Walnut Grove "4X4" Poultry Concentrate D 475 (12-5-57)	Yes	C	38.00	2.50	4.50				
E 9773 (12-12-57)		F	40.75	2.70	3.60				
E 7022 (2-20-58)		F	41.95	2.84	3.71				
D 3517 (3-24-58)		F	40.00	3.46	4.43				
Walnut Grove 0.0022% D.E.S. Mixture Inc In Beef 25 Supplement D 476 (12-5-57)	Yes	C	25.00	2.00	12.50				
E 9772 (12-12-57)		F	26.20	2.12	9.67				
D 479 (12-5-57)		F	25.25	1.70	12.10				3
D 3510 (3-24-58)		F	28.05	1.50	8.92				
Walnut Grove "4X4" Cattle Specific Medicated D 477 (12-5-57)	Yes	C	20.00	2.50	7.00				
D 3507 (3-24-58)		F	20.40	3.31	7.72				4
		F	19.85	2.65	6.60				
Walnut Grove "4X4" Automatic Pig Grower Supplement Medicated D 478 (12-5-57)	Yes	C	38.00	2.00	4.50				
E 9770 (12-12-57)		F	39.50	2.84	4.20				
E 7021 (2-20-58)		F	39.10	2.80	4.32				4
D 3515 (3-24-58)		F	38.50	4.02	5.52				
E 7068 (5-9-58)		F	39.05	2.78	4.43				4
D 1174 (5-9-58)		F	39.25	2.92	5.00				4
E 7244 (6-4-58)		F	38.85	3.05	5.45				
Walnut Grove "4X4" Ruminant Conditioner Medicated D 480 (12-5-58)	Yes	C	20.00	2.50	8.00				
D 3525 (3-24-58)		F	22.20	2.80	6.15				
		F	21.50	2.52	7.29				

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

WALNUT GROVE PRODUCTS CO., INC., ATLANTIC, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Walnut Grove "4X4" Dairy Concentrate.....	Yes		C	38.00	2.50	9.00					
D 481 (12-5-57)			F	41.60	2.10	7.65					3
E 9775 (12-12-57)			F	38.05	1.80	10.50					3, 4
D 3509 (3-24-58)			F	40.10	2.20	8.17					
Walnut Grove 0.0022% D.E.S. Mixture Inc In "4X4" Beef Supplement .....	Yes		C	27.00	2.00	12.50					
E 7242 (6-4-58)			F	29.95	2.90	12.91					4
D 2922 (7-28-58)			F	27.95	4.52	11.28					
Walnut Grove "4X4" Automatic Finisher Hog Supplement Medicated .....	Yes		C	34.00	2.00	4.50	7.00	2.50	0.0044	2.50	
E 7120 (10-15-58)			F	36.55	2.00	4.22	6.80	2.40	0.0042	2.36	
Walnut Grove "4X4" Beef Supplement.....	Yes		C	27.00	2.00	12.50					
E 7065 (5-9-58)			F	28.90	2.69	12.88					
E 7247 (6-4-58)			F	29.00	2.40	12.20					
Walnut Grove "4X4" Poultry Concentrate.....	Yes		C	38.00	2.50	4.50					
D 1180 (5-9-58)			F	40.70	2.73	4.45					
Walnut Grove "4X4" Automatic Finisher Hog Supplement .....	Yes		C	34.00	2.00	4.50	7.00	2.50	0.0044	2.50	
D 1178 (5-9-58)			F	34.15	1.98	4.91					
Walnut Grove "4X4" Turkey Pre-Starter (NF-180) Medicated .....	Yes		C	32.00	2.50	5.50					
D 1185 (5-9-58)			F	32.10	3.56	4.81					
Walnut Grove "4X4" Mazmelk.....	Yes		C	26.00	7.00	1.00					
D 3524 (3-24-58)			F	28.70	11.94	0.015					



Walnut Grove "4X4" Big "A" Vitamin A & D-2 Supplement D 3526 (3-24-58)	Yes	C	30.00	1.00	7.00					
		F	37.45	1.00	6.06					
Walnut Grove "4X4" Phenothiazine Wormer D 3527 (3-24-58)	Yes	C	30.00	1.00	7.00					
		F	35.85	10.15	7.00					
Walnut Grove "4X4" Dairy Concentrate E 7067 (5-9-58) D 1179 (5-9-58)	Yes	C	38.00	2.50	9.00					3
		F	39.55	1.98	7.92					3
		F	40.00	2.14	7.43					
Walnut Grove 0.11% Iodinated Casein Mixture Inc In "4X4" Automatic Sow Supplement D 3516 (3-24-58)	Yes	C	38.00	2.50	6.00					3
		F	38.95	1.99	4.81					
Walnut Grove "4X4" Beef & Calf Mineral D 3518 (3-24-58)	Yes	C				8.00	6.00	0.01	19.00	
		F				7.60	6.14	0.0114	16.14	
Walnut Grove "4X4" Beef 25 Supplement (A) Medicated D 3520 (3-24-58)	Yes	C	25.00	2.00	12.50					
		F	26.85	2.13	10.43					
Walnut Grove Vitamin and Antibiotic Feed Supplement in Fish Meal and Soybean Oil Meal D 3523 (3-24-58)	Yes	C	38.00	1.50	7.00					
		F	42.25	1.39	6.63					
Walnut Grove "4X4" Dairy Mineral D 3513 (3-24-58)	Yes	C				8.00	6.00	0.01	19.00	
		F				7.20	6.12	0.011	16.14	
Walnut Grove "4X4" Beef 25 Supplement (P) Medicated E 9774 (12-12-57) D 3501 (3-24-58) D 3528 (3-24-58)	Yes	C	25.00	2.00	12.50					
		F	27.50	1.86	7.14					
		F	24.90	2.07	9.65					3
		F	26.45	1.60	11.07					
Walnut Grove "4X4" Poultry Balancer E 9776 (12-12-57) D 3502 (3-24-58) D 1181 (5-9-58)	Yes	C	26.00	3.00	5.00					
		F	30.00	3.63	4.65					
		F	30.25	3.97	4.90					
		F	29.30	3.80	4.81					
Walnut Grove "4X4" Chix (Complete Starter) Medicated E 7018 (2-20-58) D 3522 (3-24-58) D 1175 (5-9-58)	Yes	C	20.00	2.50	4.50					
		F	21.95	4.30	3.46					
		F	21.10	4.95	3.24					
		F	21.35	4.13	3.40					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 WALNUT GROVE PRODUCTS CO., INC., ATLANTIC, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Walnut Grove "4X4" Automatic Pig Grower (H) Medicated	Yes		C	16.00	3.00	3.50					
D 482 (12-5-57)			F	17.15	3.63	2.90					
E 9778 (12-12-57)			F	16.55	3.56	2.47					
E 7023 (2-20-58)			F	17.30	3.68	2.49					
D 3511 (3-24-58)			F	16.60	3.17	2.47					
D 1176 (5-9-58)			F	16.65	3.55	2.85					
E 7064 (5-9-58)			F	16.40	3.45	2.69					
E 7246 (6-4-58)			F	16.35	3.20	3.06					
E 7121 (10-15-58)			F	17.00	3.88	2.74					
Walnut Grove "4X4" Automatic Breeder Finisher Hog Supplement	Yes		C	34.00	2.00	4.50					
D 483 (12-5-57)			F	36.90	2.20	4.55					
E 9771 (12-12-57)			F	36.55	2.00	4.34					
Walnut Grove "4X4" Automatic Pig Weaner Medicated	Yes		C	18.00	4.00	2.00					
D 484 (12-5-57)			F	21.05	5.13	1.35					
E 7019 (2-20-58)			F	19.95	5.28	1.40					
E 9769 (12-12-57)			F	20.20	5.95	1.09					
D 3521 (3-24-58)			F	20.15	5.05	1.86					
E 7066 (5-9-58)			F	19.90	5.60	1.31					
Walnut Grove "4X4" Super Calf Supplement	Yes		C	30.00	2.00	6.00					
D 485 (12-5-57)			F	35.30	2.28	5.20					
D 3506 (3-24-58)			F	33.85	1.92	5.25					
Walnut Grove 0.022% Iodinated Casein Mixture Inc In "4X4" Automatic Sow Complete	Yes		C	15.00	2.50	7.50					
D 3508 (3-24-58)			F	16.75	3.35	6.31					
D 2923 (7-28-58)			F	26.50	3.44	5.76					
Walnut Grove 0.0022% D.E.S. With Chlortetracycline (Aureomycin) Inc In "4X4" Beef 25 Supplement	Yes		C	25.00	2.00	12.50					
D 3512 (3-24-58)			F	26.80	1.73	10.27					

Walnut Grove "4X4" Cattle Mineral D 3514 (3-24-58)	Yes	C F				9.41 9.30	2.00 2.37	0.01 0.0158	10.00 9.06	
Walnut Grove "4X4" Automatic Finisher Hog Supplement Medicated	Yes	C F F F F	34.00 35.80 34.70 36.15 35.65	2.00 2.34 2.31 1.56 2.38	4.50 4.42 3.85 4.66 4.34					3
Walnut Grove "4X4" Automatic Breeder Hog Supplement	Yes	C F F	38.00 38.60 38.10	2.00 3.18 2.50	7.50 5.40 5.58					
Walnut Grove "4X4" Starter-Grower Concentrate Medicated	Yes	C F F	38.00 40.55 40.05	3.00 3.35 3.83	5.00 6.06 5.78					4 4
Walnut Grove 0.0022% D.E.S. With Chlortetracycline (Aureomycin) Inc In "4X4" Beef Supplement	Yes	C F F	27.00 28.15 28.05	2.00 2.24 4.31	12.50 12.31 10.28					
Walnut Grove "4X4" Automatic Pig Weaner Medicated	Yes	C F	18.00 20.00	4.00 5.00	2.00 1.19					

WAPSIE VALLEY FEED CO., INDEPENDENCE, IOWA

Wapsie Cafeteria-Medicated E 9779 (12-12-57)	Yes	C F	26.00 30.65	2.50 3.22	6.00 4.65					
Wapsie Egg Crumbles Medicated D 1173 (5-9-58)	Yes	C F	20.00 21.25	2.50 3.55	7.00 4.51					
Wapsie Pullet Grower Medicated D 1182 (5-9-58)	Yes	C F	18.00 18.25	2.50 3.80	5.50 3.16					
Wapsie Layer Concentrate Medicated D 1184 (5-9-58)	Yes	C F	38.00 41.70	2.50 3.36	5.00 3.60					
Wapsie Quick Starter Medicated D 1186 (5-9-58)	Yes	C F	20.00 21.00	2.50 4.34	5.00 3.15					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
WAPSIE VALLEY FEED CO., INDEPENDENCE, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wapsie Cafeteria (For Laying Flocks) D 1187 (5-9-58)	Yes		C F	26.00 28.65	2.50 3.93	6.00 4.40	..... .....	..... .....	..... .....	..... .....	

WAPSIPINICON MILL, INDEPENDENCE, IOWA

Top Notch 18% Special Creep D 4516 (8-4-58)	Yes		C F	18.00 17.50	3.00 4.07	6.00 5.06	..... .....	..... .....	..... .....	..... .....	2
Top Notch Chick Grower Medicated D 4512 (8-4-58)	Yes		C F	18.00 18.10	3.00 3.72	6.00 7.70	..... .....	..... .....	..... .....	..... .....	
Top Notch 26% Poultry Balancer D 4513 (8-4-58)	Yes		C F	26.00 26.36	2.00 4.91	8.00 7.49	..... .....	..... .....	..... .....	..... .....	
Top Notch Layer Mash Medicated D 4514 (8-4-58)	Yes		C F	20.00 20.45	3.00 3.82	8.50 8.18	..... .....	..... .....	..... .....	..... .....	
Top Notch 32% Dairy Supplement D 4515 (8-4-58)	Yes		C F	32.00 33.40	1.50 3.48	9.00 8.70	..... .....	..... .....	..... .....	..... .....	

WARD FARM & HATCHERY, INDEPENDENCE, IOWA

Ward Mash Maker D 4664 (11-6-58)	Yes		C F	35.00 36.05	4.00 4.98	7.00 6.00	..... .....	..... .....	..... .....	..... .....	
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WARDER FEED COMPANY, OTTUMWA, IOWA

Warders 35% Swine Supplement D 306 (12-10-57)	Yes		C	35.00	1.50	9.00	.....	.....	.....	.....	
D 1737 (2-20-58)		F	36.75	4.03	7.11	.....	.....	.....	.....		
D 3296 (6-26-58)		F	35.20	4.02	7.28	.....	.....	.....	.....		
		F	37.15	2.77	6.85	.....	.....	.....	.....		

Warders 32% Dairy Supplement.....	Yes	C	34.00	2.00	7.00				
D 307 (12-10-57)		F	38.15	2.09	5.18				
D 1731 (2-20-58)		F	36.60	2.38	5.71				
Warders 32% Poultry Concentrate.....	Yes	C	32.00	3.00	8.00				
D 308 (12-10-57)		F	34.45	3.05	6.75				
Warders 40% Swine Supplement.....	Yes	C	40.00	1.00	9.00				
D 309 (12-10-57)		F	40.50	2.41	5.21				
D 1736 (2-20-58)		F	40.60	3.76	6.06				
Warders Beef Cattle Protein Supplement 32%.....	Yes	C	32.00	1.50	7.00				
D 310 (12-10-57)		F	34.55	1.41	6.93				
D 1732 (2-20-58)		F	35.15	2.58	5.40				
Warders Pig Pusher.....	Yes	C	20.00	3.00	7.00				
D 311 (12-10-57)		F	23.70	3.50	5.95				
D 1735 (2-20-58)		F	21.65	4.90	5.05				
Warders Laying Mash.....	Yes	C	20.00	3.00	8.00				
D 312 (12-10-57)		F	22.15	4.29	7.36				
D 1734 (2-20-58)		F	21.00	3.72	8.56				4
D 3297 (6-26-58)		F	21.50	3.79	7.79				
Warders Poultry Concentrate.....	No	C	32.00	3.00	8.00				
D 1733 (2-20-58)		F	33.95	2.92	7.97				

WARREN FEED CO., COUNCIL BLUFFS, IOWA

Warren's Linseed Oil Meal.....	Yes	C	34.00	0.50	10.00				
D 4064 (7-9-58)		F	37.80	1.44	9.12				
Warren's Pig Grower Medicated.....	Yes	C	16.00	3.10	3.20				
D 4078 (7-9-58)		F	18.55	3.46	3.60				
Open Formula 32 Cattle Supplement.....	Yes	C	32.00	1.50	10.00				
D 4082 (7-9-58)		F	33.70	2.44	10.76				4
Warren's 40% Pig and Hog Concentrate.....	Yes	C	40.00	2.25	7.00				
D 4083 (7-9-58)		F	35.68	3.09	4.54				2a
Warren's 36% Bred Sow & Litter.....	Yes	C	36.00	2.00	8.40				
D 4085 (7-9-58)		F	35.45	2.96	7.89				2
Soybean Oil Meal.....	Yes	C	44.00	0.50	7.00				
D 4065 (7-9-58)		F	43.75	1.72	6.82				

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 WARREN FEED CO., COUNCIL BLUFFS, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Warren's Open Formula 42% Pig & Hog Concentrate Medicated..... D 4079 (7-9-58)	Yes		C	42.00	2.75	6.75					
			F	42.90	3.43	5.65					
Warren's Pig Starter..... D 4080 (7-9-58)	Yes		C	16.00	2.90	2.50					
			F	18.30	4.17	2.36					
Warren's Super Duper Pig Candy..... D 4081 (7-9-58)	Yes		C	18.00	3.50	7.00					
			F	18.15	4.87	3.23					
Warren's Open Formula 32 Dairy Concentrate..... D 4084 (7-9-58)	Yes		C	32.00	1.00	9.50					
			F	32.10	2.04	7.22					
Warren's 27% Pig & Hog..... D 4086 (7-9-58)	Yes		C	27.00	1.50	7.50					
			F	27.25	2.98	7.94					

W. C. WARREN FEED COMPANY, OSCEOLA, IOWA

Warren's 32% Cattle Supplement..... D 5236 (8-13-58)	Yes		C	32.00	1.50	8.00					
			F	32.85	2.11	6.52					
Warren's Pig Starter..... D 5237 (8-13-58)	Yes		C	18.00	1.50	7.00					
			F	20.20	3.98	4.15					
Warren's Super Duper Pre-Starter..... D 5238 (8-13-58)	Yes		C	18.00	1.50	7.00					
			F	20.80	4.54	3.50					
Warren's 40% Pig & Hog Concentrate..... D 5239 (8-13-58)	Yes		C	40.00	1.50	7.00					
			F	39.85	1.51	5.04					
Warren's 26% Poultry Balancer..... D 5231 (8-13-58)	Yes		C	26.00	1.50	7.50					
			F	28.70	3.60	6.53					

Warren's 36% Pig & Sow Supplement D 5232 (8-13-58)	Yes	C	36.00	1.50	9.00					
		F	39.50	2.45	6.76					
Warren's 21% Egg Mash D 5234 (8-13-58)	Yes	C	21.00	1.50	7.50					
		F	23.75	3.35	6.56					
Warren's 0.0011% D.E.S. Mix Inc. In Warren's 32% Cattle Supplement D 5235 (8-13-58)	Yes	C	32.00	1.50	8.00					
		F	31.85	2.20	5.74					

WATERLOO MILLS COMPANY, WATERLOO, IOWA

Clear Quill Chick Grower D 4456 (7-21-58)	Yes	C	20.00	3.00	6.00					
		F	20.80	3.83	5.47					
Clear Quill 42% Dairy Supplement D 4457 (7-21-58)	Yes	C	42.00	1.00	9.00					
		F	42.80	1.95	7.00					

WAUCOMA FEED MILL, WAUCOMA, IOWA

Deeny's 32% Dairy Supplement D 4569 (9-25-58)	Yes	C	32.00	1.50	8.00	3.00	1.00	0.0005	3.50	4
		F	33.40	1.42	8.88	2.10	0.99	0.00067	2.97	
Deeny's 42% Hog Supplement D 4571 (9-25-58)	Yes	C	42.00	2.00	7.00	4.50	1.60	0.0003	3.00	5
		F	43.35	4.19	6.03	5.00	2.19	0.00069	3.25	
Deeny's 36% Poultry Concentrate D 4572 (9-25-58)	Yes	C	36.00	3.00	9.50	4.50	1.00	0.0006	3.50	5
		F	37.05	2.81	7.03	5.50	1.99	0.00064	3.63	
Deeny's 40% Hog Supplement D 4570 (9-25-58)	Yes	C	40.00	2.00	7.50					4
		F	40.15	2.19	8.94					

WEBER & HUSTON, INC., COLUMBUS JUNCTION, IOWA

Check-R-Mix Hog Grower (D) E 7295 (7-2-58)	Yes	C	14.00	2.50	6.00					
		F	17.00	4.85	3.07					
Check-R-Mix Laying Mash LN D 446 (12-3-57)	Yes	C	21.00	3.50	8.00					
E 7010 (2-18-58)		F	23.15	4.75	4.56					
		F	23.80	3.86	5.05					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 WEBER & HOUSTON, INC., COLUMBUS JUNCTION, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Check-R-Mix 16% Dairy Feed P	Yes		C	16.00	3.00	10.00					
D 447 (12-3-57)			F	20.15	3.70	6.04					
E 7002 (2-18-58)			F	17.85	3.93	5.24					
E 7293 (7-2-58)			F	18.40	3.18	5.77					
Check-R-Mix Sow & Pig Feed Y	Yes		C	14.00	3.00	7.50					
E 7006 (12-18-57)			F	16.15	3.67	2.37					
Check-R-Mix Laying Mash LN	Yes		C	21.00	3.00	8.00					
E 7294 (7-2-58)			F	21.85	4.55	4.21					

WELCO FEED MFG. CO., INC., SPENCER, IOWA

"Sweet As Honey" Calf Growth Stimulator	Yes		C	16.00	3.50	9.00					
D 2182 (11-7-58)			F	19.35	5.01	7.86					
"Sweet As Honey" 46% Min-Tank Hog Concentrate Medicated	Yes		C	46.00	5.00	5.00	4.00	2.00	0.0001	1.00	6
D 2183 (11-7-58)			F	48.45	5.80	4.72	2.80	1.69	0.00076	1.96	
"Sweet As Honey" 28% Grain Balancer Hen-Bits Medicated	Yes		C	28.00	4.00	7.00	3.50	1.00	0.0001	1.60	4, 6
D 2184 (11-7-58)			F	29.85	5.09	9.12	2.70	1.13	0.0009	3.12	
"Sweet As Honey" Growth Stimulator	Yes		C	16.00	3.50	9.00					
D 2185 (11-7-58)			F	20.70	4.35	6.36					
22% "Sweet As Honey" Medicated	Yes		C	22.00	1.50	12.00					
D 2177 (11-7-58)			F	24.00	2.37	8.90					
0.0011% D.E.S. Mix Medicated Inc. In 22% "Sweet As Honey" Cattle Pellets	Yes		C	22.00	1.50	12.00					
D 2178 (11-7-58)			F	23.85	4.92	8.87					



"Sweet As Honey" Cattle Supplement "A-1" Roughage Fortifier Medicated..... D 2180 (11-7-58)	Yes	C	30.00	1.60	9.00	-----	-----	-----	-----
		F	32.05	5.42	9.09	-----	-----	-----	-----
"Sweet As Honey" Mineral & Meal Pellets D 2181 (11-7-58)	Yes	C	30.00	3.00	6.00	2.00	0.80	0.00075	5.00
		F	35.35	4.01	5.34	2.30	1.12	0.00096	4.82
"Sweet As Honey" Golden Dollar Pig Starter Medicated..... D 2186 (11-7-58)	Yes	C	18.00	4.00	3.00	-----	-----	-----	-----
		F	20.25	4.41	3.14	-----	-----	-----	-----

WENCK'S MILL & HATCHERY, LIDDERDALE, IOWA

Wenck's Best 32% Poultry Mash Concentrate..... D 3830 (4-2-58)	Yes	C	32.00	2.00	6.75	6.50	1.50	0.0057	3.00
		F	35.95	4.30	6.40	4.70	2.16	0.005	3.24
Wenck's Best Start-To-Finish Mash..... D 3840 (4-2-58)	Yes	C	17.00	3.25	6.25	-----	-----	-----	-----
		F	19.85	4.59	7.07	-----	-----	-----	-----
Wenck's Best Markitop 28% Dairy Concentrate D 3838 (4-2-58)	Yes	C	28.00	2.50	8.50	-----	-----	-----	-----
		F	31.85	2.18	5.89	-----	-----	-----	-----
Wenck's Beef-Gro 32% Dry Lot Supplement..... D 3839 (4-2-58)	Yes	C	32.00	1.50	7.00	-----	-----	-----	-----
		F	33.25	2.22	6.65	-----	-----	-----	-----
Wenck's Best Markitop 30% Hog Concentrate..... D 3831 (4-2-58)	Yes	C	30.00	3.50	5.50	10.00	1.50	0.0033	2.50
		F	33.85	3.89	3.87	8.50	1.55	0.003	2.80
Wenck's Best Markitop 35% Brood Sow Supplement..... D 3832 (4-2-58)	Yes	C	35.00	3.00	8.00	-----	-----	-----	-----
		F	37.35	4.53	7.31	-----	-----	-----	-----

WERTZ FEED PRODUCTS, SIOUX CITY, IOWA

Wertz Premium Feeding Rolled Oat Groats..... D 1816 (11-27-57) D 2507 (5-1-58) D 2448 (7-3-58) D 4229 (9-29-58)	Yes	C	16.00	6.00	2.00	-----	-----	-----	-----
		F	19.95	5.97	2.17	-----	-----	-----	-----
		F	16.05	6.68	1.70	-----	-----	-----	-----
		F	17.70	5.96	2.12	-----	-----	-----	-----
		F	18.30	6.45	2.32	-----	-----	-----	-----
Wertz Premium 30% Turkey Grower Concentrate Medicated..... E 8939 (11-27-57)	Yes	C	30.00	3.00	8.00	-----	-----	-----	-----
		F	30.30	3.63	7.05	-----	-----	-----	-----

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
WERTZ FEED PRODUCTS, SIOUX CITY, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Wertz Premium 32% Dairy Concentrate D 2294 (8-14-58)	Yes		C	32.00	1.00	6.50	3.10	1.30	0.005	2.85	
			F	33.10	2.36	6.21	2.50	1.36	0.0056	3.15	
Wertz Premium 26% Poultry Concentrate D 2295 (8-14-58)	Yes		C	26.00	2.50	8.50	4.25	1.50	0.002	1.50	
			F	29.55	4.23	8.46	3.90	1.66	0.0022	1.55	
Wertz Premium 16% Complete Layer D 2296 (8-14-58)	Yes		C	16.00	3.70	6.50					
			F	17.50	4.25	4.25					
Wertz Premium 17% Pullet Builder Chips Medicated D 2300 (8-14-58)	Yes		C	17.00	4.00	7.50					
			F	18.95	4.65	5.57					
Hi-Vi Medicated D 2001 (8-14-58)	Yes		C	26.00	3.50	5.00					
			F	30.50	4.43	5.06					
Wertz Premium 32% Poultry Concentrate D 2002 (8-14-58)	Yes		C	32.00	2.50	9.00	5.20	1.95	0.0026	1.50	
			F	34.65	4.67	7.76	4.80	2.25	0.0032	1.80	
Wertz Premium 20% Egg Mash Chips D 2004 (8-14-58)	Yes		C	20.00	3.50	7.00					
			F	21.95	4.07	6.50					
Wertz Premium Pig Power Pellets Medicated D 2293 (8-14-58)	Yes		C	18.00	4.50	3.20					
			F	20.20	5.18	2.66					
Wertz Premium Chick Scratch D 5523 (9-10-58)	Yes		C	10.00	3.00	3.50					
			F	10.50	3.24	2.45					
Hi-Vi Medicated D 2335 (9-17-58)	Yes		C	26.00	3.50	5.00					
			F	30.50	4.27	4.55					

WESTERN CONDENSING CO., APPLETON, WISCONSIN

Peebles M-N-C Dried Whey-Product 50% Lactose Riboflavin Supplement.....	Yes	C	16.00	1.00						
E 8197 (12-2-57)		F	18.27	0.90						
D 3531 (3-24-58)		F	17.25	1.20						
Peebles Lacto-G Dried Whole Whey.....	Yes	C	12.00	0.50	0.00					
D 2556 (4-29-58)		F	11.89	1.30	0.00					2
D 4076 (7-9-58)		F	11.40	0.78	0.14					

WEST BEND ELEVATOR CO., WEST BEND, IOWA

Felco Old Process Soybean Oil Meal.....	Yes	C	41.00	3.50	7.00					
D 3806 (4-18-58)		F	43.55	3.50	5.31					
D 2280 (7-21-58)		F	41.10	3.73	5.50					
D 2318 (8-29-58)		F	41.60	5.16	6.06					

WEST BEND PROCESSING CO., WEST BEND, IOWA

West Brand 50% Meat & Bone Scraps.....	Yes	C	50.00	4.00	3.00					
D 2404 (5-8-58)		F	46.00	11.39	1.43					2a

WESTERN COTTONOIL CO., LUBBOCK, TEXAS

Paymaster Brand 41% Protein Prime Quality Solvent Extracted Cottonseed Meal.....	Yes	C	41.00	0.50	14.00					
D 632 (4-2-58)		F	45.70	1.11	8.01					
D 644 (4-3-58)		F	41.10	3.48	13.31					
D 4156 (6-30-58)		F	41.40	0.90	11.04					
D 995 (8-14-58)		F	38.00	1.39	11.94					2a
D 4171 (7-21-58)		F	41.00	0.68	11.60					
D 2289 (8-14-58)		F	41.15	0.69	10.44					
D 4244 (10-8-58)		F	43.20	0.90	11.90					
Paymaster Brand 41% Protein Prime Quality Solvent Extracted Cottonseed Meal and Hydrolyzed Cottonseed Oil No. 2.....	Yes	C	41.00	2.00	14.00					
D 3814 (3-27-58)		F	41.90	2.79	9.71					
D 5586 (8-25-58)		F	40.95	3.71	10.84					
D 5962 (11-10-58)		F	42.65	4.12	9.94					

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

WHEATLAND FEED MILL, WHEATLAND, IOWA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Arsanilic Acid Mixture Inc. In Wheatland's Best 20% Layer.....	Yes		C	20.00	2.75	5.75	.....	.....	.....	.....	
D 4751 (9-29-58)			F	22.25	3.02	4.97	.....	.....	.....	.....	

JACK WHITE HATCHERIES, FARMINGTON, IOWA

Money Maker 40% Hog Concentrate.....	Yes		C	40.00	3.50	7.00	.....	.....	.....	.....	3
D 320 (12-11-57)			F	40.65	2.46	5.85	.....	.....	.....	.....	
E 7053 (4-28-58)			F	44.05	2.75	6.00	.....	.....	.....	.....	
Money Maker 18% Limited Intake Grower.....	Yes		C	18.00	4.50	4.80	.....	.....	.....	.....	4
D 321 (12-11-57)			F	19.75	4.38	5.13	.....	.....	.....	.....	
E 7056 (4-28-58)			F	19.85	4.71	5.00	.....	.....	.....	.....	
Money Maker 18% Egg Mash.....	Yes		C	18.00	3.50	7.00	.....	.....	.....	.....	
D 322 (12-11-57)			F	21.25	3.67	5.55	.....	.....	.....	.....	
E 7054 (4-28-58)			F	20.00	3.76	5.80	.....	.....	.....	.....	
Money Maker 22% Protein Breeder Mash.....	Yes		C	22.00	5.50	6.50	.....	.....	.....	.....	
D 323 (12-11-57)			F	24.05	6.16	5.06	.....	.....	.....	.....	
E 7055 (4-28-58)			F	22.00	6.16	4.70	.....	.....	.....	.....	
Money Maker 16% High Energy All Mash Breeder Ration.....	Yes		C	16.00	4.50	6.00	.....	.....	.....	.....	3
D 324 (12-11-57)			F	15.90	4.10	4.75	.....	.....	.....	.....	
E 7049 (4-28-58)			F	16.05	4.50	4.25	.....	.....	.....	.....	

WHITMOYER LAB., INC., MYERSTOWN, PENNSYLVANIA

Mix-Mate.....	Yes		C	56.00	7.00	2.00	.....	.....	.....	.....	
E 2641 (5-9-58)			F	63.75	7.90	0.23	.....	.....	.....	.....	

WHOLESALE, MANCHESTER, IOWA

Wholesaler 20% Chick Starter Medicated D 1578 (4-8-58)	Yes	C	20.00	3.00	6.50				
		F	22.60	3.05	4.11				
Wholesaler Sow-N-Pig Supplement D 1579 (4-8-58)	Yes	C	32.00	2.50	9.50	4.00	1.50	0.0003	2.20
		F	33.50	3.24	7.50	3.80	1.56	0.00078	2.34
Wholesaler Pig Starter D 1580 (4-8-58)	Yes	C	16.00	3.50	3.50				
		F	19.55	3.73	2.75				
Wholesaler 26% Grain Balancer D 1581 (4-8-58)	Yes	C	26.00	2.50	8.00	3.50	1.00	0.00007	1.80
		F	28.45	3.43	7.39	3.20	1.27	0.00011	1.53
Wholesaler 20% Layer Mash D 1582 (4-8-58)	Yes	C	20.00	2.50	7.00				
		F	20.90	3.30	4.78				
Wholesaler 16% All Mash D 1583 (4-8-58)	Yes	C	16.00	2.50	6.50				
		F	16.55	3.36	4.47				
Wholesaler 32% Poultry Concentrate D 1584 (4-8-58)	Yes	C	32.00	2.50	8.50	5.00	1.50	0.00014	2.20
		F	32.15	3.28	7.55	4.70	1.69	0.00022	1.98
Wholesaler 34% Dairy Concentrate D 1585 (4-8-58)	Yes	C	34.00	1.00	9.00	2.00	1.00	0.0004	3.00
		F	34.30	1.78	7.98	1.20	1.01	0.0009	2.69
Wholesaler Pig Starter Base D 1590 (4-8-58)	Yes	C	33.00	2.50	5.00	5.50	2.00	0.0003	2.00
		F	37.95	3.75	4.00	5.66	2.51	0.0003	2.24
Wholesaler 40% Hog Balancer D 1586 (4-8-58)	Yes	C	40.00	2.00	8.00	4.50	1.50	0.0003	2.00
		F	40.75	4.28	6.00	4.80	2.16	0.0005	1.99
Wholesaler 18% Chick Grower Medicated D 1587 (4-8-58)	Yes	C	18.00	3.00	6.50				
		F	19.70	3.80	4.32				
Tankage SavR Brand Hog Supplement D 1588 (4-8-58)	Yes	C	35.00	1.50	6.50	5.00	1.50	0.0006	2.20
		F	35.65	2.61	4.27	4.20	1.64	0.0008	2.18
Wholesaler Sow and Pig Meal D 1589 (4-8-58)	Yes	C	20.00	3.00	7.00				
		F	21.25	3.55	6.21				

COMMERCIAL FEEDS

WIEST BROTHERS, FORT ATKINSON, IOWA

Manamar Hog Supplement D 63 (12-5-57)	Yes	C	40.00	6.00	7.00				
		F	41.85	5.20	6.16				

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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 WIEST BROTHERS, FORT ATKINSON, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Vita Creme 38% Mash Maker..... D 64 (12-5-57)	Yes		C	38.00	6.00	5.00					
			F	40.00	6.64	5.28					
Vitacreme Pig Starter..... D 65 (12-5-57)	Yes		C	17.00	4.50	7.00					
			F	18.60	4.51	5.02					
Vita Creme 20% Laying Mash..... D 66 (12-5-57)	Yes		C	20.00	4.50	7.00					
D 761 (5-7-58)			F	21.50	5.76	5.64					
			F	20.80	5.25	6.58					4
Vita Creme Pig Starter Medicated..... D 758 (5-7-58)	Yes		C	17.00	3.50	7.00					
			F	17.75	4.50	6.12					
Vita Creme 18% Chick Starter Medicated..... D 759 (5-7-58)	Yes		C	18.00	4.50	6.00					
			F	20.00	5.28	6.40					
Vita Creme 38% Mash Maker..... D 760 (5-7-58)	Yes		C	38.00	5.00	6.00	6.00	1.80	0.0006	3.00	
D 6518 (12-4-58)			F	40.10	6.30	6.80					4
			F	40.65	5.86	6.86	5.90	2.32	0.001	1.02	4
Vita Creme 40% Hog Supplement Medicated..... D 762 (5-7-58)	Yes		C	40.00	4.00	7.00					
D 6520 (12-4-58)			F	40.10	4.93	6.31					
			F	43.85	4.63	6.27					
Vita Creme 20% Laying Mash..... D 6519 (12-4-58)	Yes		C	20.00	4.50	5.50					
			F	23.20	5.17	6.08					4

WILBUR ELLIS COMPANY, SEATTLE, WASHINGTON

Lighthouse 60% Protein Fish Meal..... D 573 (1-6-58)	Yes		C	60.00	5.00	2.00					
D 2290 (8-14-58)			F	62.95	10.70	0.30					
D 4230 (9-29-58)			F	60.05	8.14	0.52					61
D 2176 (11-4-58)			F	60.00	11.36	1.62					
			F	60.05	9.42	0.20					

Fish Meal 60% with 1% Digester Tankage..... D 626	(3-26-58)	Yes	C F	60.00 60.10	5.00 9.42	1.00 0.38	----- -----	----- -----	----- -----
Fish Meal 60%..... E 2638	(5-5-58)	Yes	C F	60.00 62.60	5.00 8.13	1.00 0.34	----- -----	----- -----	----- -----

**WILDER GRAIN CO., CEDAR RAPIDS, IOWA**

Wilder's 3 Star 32% Dairy Feed Medicated..... D 4803	(10-29-58)	Yes	C F	32.00 32.90	2.00 2.28	9.00 6.43	2.50 1.40	0.80 0.92	0.0006 0.0019	2.50 2.43	
Wilder's 3 Star 10% Horse Feed..... D 4805	(10-29-58)	Yes	C F	10.00 14.25	3.10 3.43	7.80 8.45	----- -----	----- -----	----- -----	----- -----	4
Wilder's 3 Star Pig Starting & Weaning Medicated..... D 4804	(10-29-58)	Yes	C F	18.00 20.60	2.50 4.18	5.00 5.70	----- -----	----- -----	----- -----	----- -----	4
Wilder's 3 Star Calf Meal Medicated..... D 4806	(10-29-58)	Yes	C F	22.00 24.90	3.00 3.61	7.20 5.99	----- -----	----- -----	----- -----	----- -----	
Wilder's 3 Star 18% Laying Medicated..... D 4796	(10-29-58)	Yes	C F	18.00 20.55	2.00 3.17	9.50 4.43	3.00 2.70	1.00 0.88	0.0002 0.00059	1.00 1.27	
Wilder's 3 Star 26% Poultry Supplement Medicated..... D 4797	(10-29-58)	Yes	C F	26.00 28.35	2.00 3.44	10.00 7.11	----- -----	----- -----	----- -----	----- -----	
Wilder's 3 Star 32% Poultry Concentrate Medicated..... D 4798	(10-29-58)	Yes	C F	32.00 33.30	1.00 3.50	9.00 7.72	3.50 3.80	1.00 1.53	0.0005 0.0013	2.50 2.39	
Wilder's 3 Star 35% Sow & Pig Concentrate Medicated..... D 4799	(10-29-58)	Yes	C F	35.00 36.10	1.50 2.24	10.00 8.36	----- -----	----- -----	----- -----	----- -----	
Wilder's 3 Star 40% Hog Supplement Medicated..... D 4800	(10-29-58)	Yes	C F	40.00 38.65	1.50 2.38	7.00 6.41	3.50 3.40	1.50 1.24	0.001 0.001	2.50 2.34	2a
Wilder's 3 Star 33% Hog Supplement Medicated..... D 4801	(10-29-58)	Yes	C F	33.00 37.40	1.50 1.41	6.50 5.14	9.00 5.30	0.50 1.06	0.0005 0.0013	2.50 2.52	
Wilder's 3 Star 16% Dairy Feed Medicated..... D 4802	(10-29-58)	Yes	C F	16.00 20.80	2.00 2.38	9.00 8.84	----- -----	----- -----	----- -----	----- -----	

COMMERCIAL FEEDS

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## WILLIAMS MILLING CO., SAC CITY, IOWA

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ANNUAL REPORT

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Williams 26% Poultry Balancer Medicated.....	Yes		C	26.00	3.16	7.50	3.50	1.08	0.0001	1.50	
D 1926 (2-20-58)			F	28.85	3.83	8.15					4
D 915 (9-5-58)			F	27.15	3.99	8.81	3.60	1.51	0.0007	1.44	4
Williams Sweet Super Booster.....	Yes		C	21.00	5.00	2.50					
D 1928 (2-20-58)			F	22.65	4.40	2.73					3
D 916 (9-5-58)			F	22.90	4.36	2.87					3
Williams 36% Hog Fattener.....	Yes		C	36.00	4.10	4.90					
D 1921 (2-20-58)			F	37.65	1.62	6.36					3, 4
D 917 (9-5-58)			F	36.70	1.81	6.63					3, 4
Williams 18% Pig Booster.....	Yes		C	18.00	4.00	5.50					
D 1923 (2-20-58)			F	20.05	4.34	5.19					
Williams 35% Pig & Sow Supplement Medicated.....	Yes		C	35.00	4.00	8.50	3.27	1.41	0.0005	2.00	
D 911 (9-5-58)			F	36.25	3.30	8.19	3.60	1.73	0.0008	1.73	3, 4
Williams 40% Hog Supplement Medicated.....	Yes		C	40.00	4.00	5.30	3.36	1.33	0.0005	2.00	
D 912 (9-5-58)			F	38.90	3.67	4.94	3.80	1.83	0.0032	2.19	2a, 3, 5
Williams 32% Dairy Supplement.....	Yes		C	32.00	3.72	6.50					
D 1924 (2-20-58)			F	32.45	2.21	8.30					3, 4
D 913 (9-5-58)			F	36.60	1.97	7.40					3, 4
Williams Pork Lift.....	Yes		C	39.00	1.40	3.90	4.80	1.84		3.00	
D 1922 (2-20-58)			F	39.00	3.51	4.53					4
D 914 (9-5-58)			F	41.00	2.86	4.08	4.70	1.73		3.23	
Williams 20% Chick Starter.....	Yes		C	20.00	3.60	5.00					
D 1927 (2-20-58)			F	20.00	4.23	4.12					
Williams Super Pig Booster.....	Yes		C	21.00	5.00	2.50					
D 1929 (2-20-58)			F	21.85	4.98	2.68					



Williams 40% Hog Supplement Medicated D 1930 (2-20-58)	Yes	C	40.00	4.00	5.30	-----	-----	-----	-----	3
		F	42.15	2.61	5.23	-----	-----	-----	-----	
Williams 35% Pig & Sow Supplement Medicated D 1920 (2-20-58)	Yes	C	35.00	4.00	8.50	-----	-----	-----	-----	
		F	37.25	4.00	7.08	-----	-----	-----	-----	
Williams 30% Poultry Balancer D 1925 (2-20-58)	Yes	C	30.00	1.45	8.50	-----	-----	-----	-----	
		F	30.50	3.67	8.26	-----	-----	-----	-----	

WILSON HATCHERY, ACKLEY, IOWA

Bob's Best 40% Hog Concentrate D 4528 (8-14-58)	Yes	C	40.00	3.00	6.50	-----	-----	-----	-----	
		F	39.50	3.72	6.13	-----	-----	-----	-----	
Bob's Best 35% Sow & Pig Concentrate D 4529 (8-14-58)	Yes	C	35.00	2.50	9.00	-----	-----	-----	-----	
		F	37.00	2.89	7.91	-----	-----	-----	-----	
Bob's Best 26% Grain Balancer D 4531 (8-14-58)	Yes	C	26.00	4.00	8.50	-----	-----	-----	-----	
		F	28.50	5.05	8.23	-----	-----	-----	-----	
Bob's Best 18% Growing Mash D 4530 (8-14-58)	Yes	C	18.00	4.50	8.00	-----	-----	-----	-----	
		F	19.00	4.20	4.51	-----	-----	-----	-----	

WILSON & COMPANY, INC., CHICAGO, ILLINOIS

Red W. Brand 60% Digester Tankage D 1576 (4-2-58)	Yes	C	60.00	6.00	3.00	-----	-----	-----	-----	4
		F	60.00	10.01	4.06	-----	-----	-----	-----	
D 1592 (4-8-58)		F	62.00	8.85	5.01	-----	-----	-----	-----	4
		F	60.35	8.29	0.94	-----	-----	-----	-----	
D 4077 (7-9-58)		F	56.60	8.73	1.20	-----	-----	-----	-----	2a
		F	61.30	8.57	1.45	-----	-----	-----	-----	
Red W. Brand 50% Meat & Bone Scraps D 4072 (7-9-58)	Yes	C	50.00	6.00	3.00	-----	-----	-----	-----	2
		F	49.45	12.47	1.69	-----	-----	-----	-----	

WINBORNS, WILLIAMSBURG, IOWA

Winborns 34% Poultry Concentrate D 2673 (4-15-58)	Yes	C	34.00	3.00	9.00	7.00	1.00	0.0015	3.50	
		F	35.80	2.94	8.19	3.70	1.58	0.0019	2.10	

## ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

## WINBORNS, WILLIAMSBURG, IOWA—Continued

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ANNUAL REPORT

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Winborns Super 40% Hog Supplement Medicated	No		C	40.00	3.00	8.00	5.00	2.00	0.0015	2.50	7
D 2674 (4-15-58)			F	40.35	4.54	7.10	3.60	1.88	0.0014	2.67	
D 2687 (4-15-58)			F	40.20	4.25	7.53	3.30	1.62	0.0023	2.76	
Winborns 0.0011% D.E.S. Mixture Inc. in Winborn's 37% Cattle Supplement	Yes		C	37.00	2.00	8.00	3.00	0.80	0.001	3.00	
D 2675 (4-15-58)			F	37.40	2.02	6.15	1.60	1.02	0.0015	2.03	
Winborn's Breeders Concentrate	Yes		C	32.00	2.50	6.00	6.00	1.00	0.003	3.50	
D 2676 (4-15-58)			F	35.15	3.10	5.97	4.70	1.66	0.0031	2.58	
Winborns 40% Hog Supplement	Yes		C	40.00	3.00	8.00	5.00	2.00	0.0015	2.50	
D 2669 (4-15-58)			F	39.90	4.35	6.95	3.90	1.82	0.00268	2.59	
Winborns Hi-Energy Layer-Breeder	Yes		C	17.00	3.00	5.00					
D 2670 (4-15-58)			F	18.80	3.92	3.59					
Winborns Creep Pig Starter Medicated	Yes		C	14.00	3.50	3.00					4
D 2671 (4-15-58)			F	16.15	4.37	3.95					
Winborns 26% Poultry Balancer	Yes		C	26.00	3.00	9.00	4.00	1.00	0.0012	2.00	
D 2672 (4-15-58)			F	28.40	3.57	7.29	2.80	1.42	0.0015	1.91	
Winborns Super 28% Pig & Sow Meal	Yes		C	28.00	3.00	10.00					
D 2665 (4-15-58)			F	30.45	4.10	8.88					
Winborn's 37% "Sulfixed" Cattle Supplement	Yes		C	37.00	2.00	8.00	3.00	0.80	0.001	3.00	3
D 2666 (4-15-58)			F	37.30	1.46	5.60	1.80	1.07	0.0009	2.32	
Winborn's 28% Pig & Sow Meal	Yes		C	28.00	3.00	10.00					
D 2667 (4-15-58)			F	28.60	4.18	9.07					
Winborns Brood Sow Supplement Medicated	Yes		C	32.00	3.00	10.00	5.00	2.00	0.0015	2.50	4
D 2668 (4-15-58)			F	32.40	3.43	10.74	4.30	2.46	0.0023	2.58	

Winborns Breeders Mash..... D 2661 (4-15-58)	Yes	C	21.00	3.00	8.00	3.00	1.00	0.0004	2.00
		F	22.10	4.01	6.00	2.20	1.11	0.00068	1.05
Winborns Zippo Ration Medicated..... D 2662 (4-15-58)	Yes	C	15.50	3.50	4.50				
		F	16.00	4.60	3.58				
Winborn's 0.0022% D.E.S. & Rumen Organism Mix Inc. In Winborn's 50% Cattle Supplement ..... D 2664 (4-15-58)	Yes	C	50.00	0.08	8.00	3.00	0.80	0.001	3.00
		F	49.50	1.35	6.06	1.80	1.61	0.002	2.08
Winborns High Quality Laying Mash..... D 2663 (4-15-58)	Yes	C	19.00	3.00	8.00	3.50	1.00	0.0004	2.00
		F	20.25	3.79	6.36	2.10	1.09	0.00061	1.05
Winsborn 32% Cattle Supplement..... D 2681 (4-15-58)	Yes	C	32.00	1.00	7.00	2.00	1.00	0.0005	2.00
		F	35.15	2.50	6.83	1.30	1.09	0.00055	1.35
Winborns 0.0011% D.E.S. Mixture Inc. In Winborns 32% Cattle Supplement..... D 2682 (4-15-58)	Yes	C	32.00	1.00	7.00				
		F	34.20	1.40	6.05				
Winborns Chick Zip Medicated..... D 2683 (4-15-58)	Yes	C	20.00	3.00	6.00				
		F	22.85	3.50	5.31				
Winborns Complete Hog Feed..... D 2684 (4-15-58)	Yes	C	13.00	3.50	5.00				
		F	14.55	4.15	4.34				
Winborns Nitrofurazone Mixture Inc. In Winborns Growing Mash..... D 2677 (4-15-58)	Yes	C	20.00	3.00	7.00				
		F	22.45	3.60	5.25				
Winborns 0.0022% D.E.S. Mixture Inc. In Winborns 32% Cattle Supplement..... D 2678 (4-15-58)	Yes	C	32.00	1.00	7.00	2.00	1.00	0.0005	2.00
		F	34.35	1.45	7.00	1.30	1.12	0.00055	1.40
Winborns Sweetened Pig Pre-Starter Medicated..... D 2679 (4-15-58)	Yes	C	18.00	3.00	3.50				
		F	22.05	3.40	2.93				
Winborns Baby Zippo Medicated..... D 2680 (4-15-58)	Yes	C	18.00	3.50	5.00				
		F	19.85	3.80	4.07				
Winborn's 35% Hog Supplement..... D 2688 (4-15-58)	Yes	C	35.00	2.50	9.00	6.00	1.50	0.0015	2.50
		F	38.30	3.90	7.49	2.80	1.24	0.002	2.26
Winborns 32% "Sulfixed" Dairy Supplement..... D 2691 (4-15-58)	Yes	C	32.00	2.50	7.50	2.50	1.00	0.001	3.00
		F	35.00	2.45	6.02	1.50	1.08	0.0015	2.24

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

WINBORNS, WILLIAMSBURG, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Winborns 0.0011% D.E.S. Mixture Inc. In Winborns 37% Cattle Supplement D 2685 (4-15-58)	Yes		C	37.00	2.00	8.00	3.00	0.80	0.001	3.00	
			F	37.55	3.05	5.57	1.80	0.945	0.0015	2.14	
Winborns Chick Starter Medicated D 2686 (4-15-58)	Yes		C	20.00	3.00	6.00					
			F	21.90	3.85	5.10					
Winborns Half & Half Ration D 2689 (4-15-58)	Yes		C	19.00	3.50	7.00					
			F	22.00	3.70	5.46					
Winborns One Day Hog Wormer D 2690 (4-15-58)	Yes		C	15.50	3.50	4.50					
			F	17.40	4.60	4.00					

WINTHROP ELEVATOR, WINTHROP, IOWA

Murphy's Sunshine Feeds Hog Supplement E 9765 (12-11-57)	Yes		C	42.00	4.00	7.00					
			F	42.00	4.53	6.60					
Murphy's Sunshine Feeds Pig Starter E 9766 (12-11-57)	Yes		C	18.00	3.50	7.00					
			F	21.05	3.86	5.68					
Murphy's Sunshine Feeds Pig & Sow Concentrate E 9767 (12-11-57)	Yes		C	36.00	3.50	7.50					
			F	40.50	2.80	7.50					3
Murphy's Sunshine Feeds Free Choice Concentrate E 9768 (12-11-57)	Yes		C	26.00	4.50	8.50					
			F	30.55	3.62	7.86					3

FLOYD WOODARD FEED COMPANY, WEBSTER CITY, IOWA

Woodard 32% Layer Concentrate D 3489 (6-26-58)	Yes		C	32.00	2.50	8.00	8.00	2.00	0.00039	2.50	
			F	34.60	3.55	6.30	7.70	2.21	0.0008	2.37	

Woodard 26% Egg Balancer..... D 3490 (6-26-58)	Yes	C F	26.00 26.70	2.40 3.68	8.50 4.93	6.50 5.80	1.40 1.58	0.00029 0.00036	2.00 2.18
Woodard Sow & Pig Supplement Medicated..... D 3491 (6-26-58)	Yes	C F	35.00 36.60	1.20 3.58	8.00 6.99	----- -----	----- -----	----- -----	----- -----
Woodard 40% Swine Finisher Supplement Medicated..... D 3492 (6-26-58)	Yes	C F	40.00 40.90	2.75 3.89	6.50 5.12	----- -----	----- -----	----- -----	----- -----
Woodard 0.0011% D.E.S. Mix Inc. In 34% Economy Cattle Supplement..... D 3493 (6-26-58)	Yes	C F	34.00 36.55	0.80 1.45	10.00 6.88	----- -----	----- -----	----- -----	----- -----
Woodard Pig Supplement Medicated..... D 3494 (6-26-58) D 3497 (6-26-58)	Yes	C F F	35.00 38.50 36.80	1.20 3.63 2.72	8.00 6.25 5.69	4.50 4.10	1.30 1.60	0.0018 0.0020	2.50 2.31
Woodard 40% Economy Swine Supplement..... D 3495 (6-26-58)	Yes	C F	40.00 42.00	2.75 4.77	6.50 4.85	6.50 4.70	1.75 1.79	0.0005 0.00066	2.50 2.00
Woodard Super-Quality Pig Pre-Starter Medicated..... D 3496 (6-26-58)	Yes	C F	18.00 19.45	2.50 2.73	3.00 2.54	----- -----	----- -----	----- -----	----- -----
Woodard Pig Pusher Medicated..... D 3498 (6-26-58)	Yes	C F	16.00 18.30	3.00 3.45	4.00 2.89	----- -----	----- -----	----- -----	----- -----
Woodard Calf Starter..... D 3499 (6-26-58)	Yes	C F	18.00 20.90	2.10 3.48	8.50 5.33	----- -----	----- -----	----- -----	----- -----
Woodard 16% Chick Grower Medicated..... D 3500 (6-26-58)	Yes	C F	16.00 16.25	3.00 4.21	6.00 5.17	1.50 1.50	0.75 0.77	0.00019 0.00039	0.70 0.74

WORTHINGTON DEHYDRATING CO., WORTHINGTON, IOWA

Dehydrated Alfalfa Meal..... D 628 (4-2-58)	No	C F	17.00 19.90	2.00 2.35	27.00 27.49	----- -----	----- -----	----- -----	----- -----	4
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WRAYBILL DEHY COMPANY, INC., SLOAN, IOWA

Wraybill Dehy Alfalfa Meal 17%..... E 2649 (5-9-58)	Yes	C F	17.00 20.75	1.70 2.93	27.00 17.23	----- -----	----- -----	----- -----	----- -----	
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ANALYSIS OF COMMERCIAL FEEDS 1958—Continued

YAGGIE MILLS, YANKTON, SOUTH DAKOTA

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Yaggie's Steamed-Rolled Oats.....	Yes		C	16.00	5.00	2.00	.....	.....	.....	.....	
D 674 (12-13-57)			F	17.80	5.66	1.82	.....	.....	.....	.....	
D 540 (4-12-58)			F	16.50	6.55	2.02	.....	.....	.....	.....	

YAZOO VALLEY OIL MILL, INC., GREENWOOD, MISSISSIPPI

41% Solvent Extracted Cottonseed Meal.....	Yes		C	41.00	2.00	14.00	.....	.....	.....	.....	
D 557 (12-26-57)			F	41.70	2.76	11.55	.....	.....	.....	.....	

YEISLEY ELEVATOR, VICTOR, IOWA

Sure Gro Dairy Feed.....	Yes		C	24.00	2.00	8.00	2.50	1.00	0.0002	2.00	
D 2711 (4-29-58)			F	27.10	1.95	8.60	.....	.....	.....	.....	4
D 5158 (11-3-58)			F	26.15	1.96	9.08	2.70	1.71	0.0011	1.80	4
"Sure Gro" Egg Mash.....	Yes		C	20.00	3.50	6.50	.....	.....	.....	.....	
D 2712 (4-29-58)			F	25.80	3.29	6.50	.....	.....	.....	.....	
"Sure Gro" Pig Grower Medicated.....	Yes		C	35.00	2.00	7.00	.....	.....	.....	.....	
D 2713 (4-29-58)			F	37.65	3.63	6.90	.....	.....	.....	.....	
D 5163 (11-3-58)			F	35.55	3.07	7.25	.....	.....	.....	.....	
Sure Gro 29% Protein Sow & Pig Meal.....	Yes		C	29.00	1.50	9.00	.....	.....	.....	.....	
D 2714 (4-29-58)			F	32.85	3.05	7.80	.....	.....	.....	.....	
D 5162 (11-3-58)			F	32.55	2.98	7.67	.....	.....	.....	.....	
"Sure Gro" 38½% Protein Hog Balancer.....	Yes		C	38.50	1.50	7.00	4.00	1.00	0.0002	2.50	
D 2715 (4-29-58)			F	38.60	2.50	6.40	.....	.....	.....	.....	
D 5161 (11-3-58)			F	37.20	2.66	7.00	5.00	1.98	0.0028	2.54	2a, 5

"Sure-Gro" Pig Pre-Starter.....	Yes	C	20.00	3.00	7.00				
		F	20.35	4.38	3.45				
		F	20.75	4.44	3.57				
D 2716 (4-29-58)									
D 5160 (11-3-58)									
Sure Gro 34% Protein Poultry Concentrate.....	Yes	C	34.00	4.50	8.00				
		F	35.35	1.80	7.55				3
D 2717 (4-29-58)									
Sure Gro 32% Protein Cattle Feed.....	Yes	C	32.00	3.00	6.50				
		F	34.40	2.27	8.05				3, 4
D 2718 (4-29-58)									
D 5159 (11-3-58)									

**YODER FEED MILL, INC., KALONA, IOWA**

Yoders M-T 35 Supplement Medicated.....	Yes	C	35.00	2.00	9.00				
		F	34.25	3.03	7.03				2
E 4840 (11-29-57)									
Yoders Dairy Treat.....	Yes	C	40.00	1.00	7.00				
		F	42.30	1.99	7.37				
E 4842 (11-29-57)									
D 4810 (11-3-58)									
Yoders Chick Popper Medicated.....	Yes	C	20.00	3.50	5.00				
		F	19.70	3.50	3.84				
E 4843 (11-29-57)									
Yoders Complete Chick Grower.....	Yes	C	16.00	3.00	7.50				
		F	16.00	4.20	4.58				
E 4846 (11-29-57)									
Yoders 34% Blue Ribbon Beef King.....	Yes	C	34.00	2.00	8.00				
		F	36.35	4.32	9.14				4
E 4849 (11-29-57)									
Yoders 32% Cattle Treat.....	Yes	C	32.00	2.00	9.00				
		F	31.90	2.66	8.11				
E 4834 (11-29-57)									
D 4826 (11-3-58)									
Yoders 41% Hog Balancer.....	Yes	C	41.00	4.00	6.00				
		F	40.05	8.31	4.15				2a
E 4837 (11-29-57)									
D 4820 (11-3-58)									2
Yoders Calf Popper.....	Yes	C	20.00	2.50	5.00				
		F	21.30	3.05	5.83				4
E 4839 (11-29-57)									
D 4815 (11-3-58)									4
Yoders 26% Turkey Starter Medicated.....	Yes	C	26.00	2.50	6.50				
		F	26.55	3.07	4.63				
D 4812 (11-3-58)									
Yoders 38% Poultry Supplement.....	Yes	C	38.00	1.50	6.50				
		F	39.40	4.53	6.03				
D 4813 (11-3-58)									

COMMERCIAL FEEDS

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 YODER FEED MILL, INC., KALONA, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent						Remarks	
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I		Salt
Yoders Medicated Poultry Power..... D 4814 (11-3-58)	Yes		C F	24.00 24.00	2.50 3.49	7.00 5.34					
Yoders 0.022% Iodinated Casein Mix Inc. In Contented Sow Ration..... D 4816 (11-3-58)	Yes		C F	16.00 17.30	3.00 3.56	7.50 5.45					
Yoders Pork King Complete Pig Grower Medicated ..... D 4807 (11-3-58)	Yes		C F	14.00 15.60	4.00 4.09	5.00 3.23					
Yoders 46% Swine Concentrate..... D 4808 (11-3-58)	Yes		C F	46.00 46.00	3.00 6.39	3.00 2.63					
Yoders Medicated Swine Conditioner..... D 4809 (11-3-58)	Yes		C F	15.00 15.10	3.00 4.25	5.00 6.51					4
Yoders 32% Poultry Concentrate..... D 4811 (11-3-58)	Yes		C F	32.00 33.05	2.00 4.56	9.00 7.51					
Yoders 20% Zingo Pig Pre-Starter Medicated.... D 4817 (11-3-58)	Yes		C F	20.00 21.65	1.00 4.32	1.75 1.92					
Yoders Medicated Lamb Zingos..... D 4818 (11-3-58)	Yes		C F	32.00 31.50	2.00 2.24	9.00 8.40					2
Yoders 40% Big Y Supplement Medicated..... D 4819 (11-3-58)	Yes		C F	40.00 38.70	2.25 4.59	6.00 4.71	5.80 4.30	2.48 2.06	0.0022 0.00075	2.50 2.19	2a, 7, 8
Yoders Big Ham Hog Supplement Medicated.... D 4821 (11-3-58)	Yes		C F	35.00 36.95	2.00 3.47	9.00 5.75					
Yoders 0.0011% D.E.S. Mix Inc. In 34% Blue Ribbon Beef King..... D 4822 (11-3-58)	Yes		C F	34.00 36.85	2.00 3.50	8.00 9.32					4



Yoders 32% Sow Supplement..... D 4823 (11-3-58)	Yes		C F	32.00 35.75	3.00 5.77	6.00 6.43					4
Yoders 26% Poultry Balancer..... D 4824 (11-3-58)	Yes		C F	26.00 27.45	3.00 4.56	9.00 6.99					
Yoders B-Q Mineral..... D 4825 (11-3-58)	Yes		C F				26.00 27.80	5.00 5.22	0.00435 0.029	5.50 6.48	5, 6
Yoders Pig Zingos Medicated..... D 4827 (11-3-58)	No	Yes	C F	16.00 17.05	2.75 3.87	3.50 3.27					
Yoders Yo-Las..... D 4828 (11-3-58)	Yes		C F	11.00 10.70	1.00 0.75	15.00 15.75					2, 4
Yoders 0.0011% D.E.S. Mix Inc. In Beef Booster..... D 5413 (12-1-58)	Yes		C F	22.00 19.40	1.25 1.03	15.00 13.03					2a

YORK ALFALFA MILLS, YORK, NEBRASKA

17% Dehydrated Alfalfa Meal..... D 4168 (7-21-58)	Yes		C F	17.00 19.30	1.50 3.32	27.00 24.37					
D 3834 (4-2-58)			F	18.50	2.93	25.28					
D 2028 (8-19-58)			F	18.85	2.80	26.80					
17% Dehydrated Alfalfa Meal 2% Modified Vegetable Oil Added..... D 2324 (9-2-58)	Yes		C F	17.00 18.25	1.50 3.06	27.00 27.15					

YOUNG FEED STORE, MARSHALLTOWN, IOWA

Hawkeye Dairy Supplement..... D 6912 (12-5-58)	Yes		C F	34.00 34.25	2.50 3.12	8.50 8.77					
Hawkeye Pre-Creep Medicated..... D 5181 (11-5-58)	Yes		C F	20.00 20.00	4.20 3.82	3.10 3.37					3
Hawkeye 26% Kafeteria..... D 5182 (11-5-58)	Yes		C F	26.00 28.15	3.50 3.94	7.50 7.58					
Hawkeye 20% Egg Mash..... D 5183 (11-5-58)	Yes		C F	20.50 22.15	3.00 3.91	6.50 5.88					

ANALYSIS OF COMMERCIAL FEEDS 1958—Continued  
 YOUNG FEED STORE, MARSHALLTOWN, IOWA—Continued

Brand of Feed	Reg.	Reg. late	C or F	Per Cent							Remarks
				Crude Protein	Crude Fat	Crude Fiber	Ca	P	I	Salt	
Hawkeye Calf Supplement..... D 5184 (11-5-58)	Yes		C F	25.00 26.60	2.50 3.43	6.50 7.63					4
Hawkeye Pig Starter Medicated..... D 2096 (6-26-58) D 5180 (11-5-58)	Yes		C F F	18.00 21.05 20.05	3.00 3.85 4.44	4.50 4.18 4.96					
Hawkeye 40% Hog Supplement..... D 2097 (6-26-58) D 5185 (11-5-58)	Yes		C F F	40.00 38.55 39.07	4.00 3.96 4.28	7.00 7.50 6.76					2a, 4 2
Hawkeye Brood Sow Supplement..... D 2098 (6-26-58) D 5179 (11-5-58)	Yes		C F F	35.00 35.25 35.05	3.00 4.02 4.55	9.50 10.22 9.21					4
Hawkeye Pig Supplement Medicated..... D 2099 (6-26-58) D 5177 (11-5-58)	Yes		C F F	38.00 36.75 35.66	3.50 4.75 4.22	7.50 8.49 8.97					2a, 4 2a, 4
Hawkeye Sweet Beef..... D 2100 (6-26-58) D 5178 (11-5-58)	Yes		C F F	34.00 35.85 34.35	2.00 2.28 2.48	10.50 9.35 9.71					
Hawkeye Poultry Concentrate..... D 2101 (6-26-58) D 6911 (12-5-58)	Yes		C F F	38.00 37.55 41.00	4.50 4.63 5.14	6.50 7.60 6.46					4
Hawkeye Chick Grower..... D 2102 (6-26-58)	Yes		C F	18.00 20.40	3.00 4.16	6.00 5.34					
Hawkeye Chick Starter..... D 2103 (6-26-58)	Yes		C F	20.00 22.05	3.00 4.23	5.50 4.85					

EDWIN ZAHASKY FEED, PROTIVIN, IOWA

Our Own Grain Balancer.....	Yes	C	40.00	4.00	6.00	.....	.....	.....	.....	
D 773 (5-8-58)		F	43.70	4.06	5.38	.....	.....	.....	.....	
D 6391 (10-31-58)		F	44.35	4.61	5.22	.....	.....	.....	.....	

ZANDER FEED COMPANY, 619 DUNDEE, WATERLOO, IOWA

Zander 38% Laying Supplement.....	Yes	C	38.00	2.38	7.75	.....	.....	.....	.....	
D 1137 (4-21-58)		F	39.30	2.50	7.01	.....	.....	.....	.....	
Zander Pig & Hog Concentrate Medicated.....	Yes	C	20.00	3.95	6.20	.....	.....	.....	.....	
D 1138 (4-21-58)		F	21.20	4.65	5.00	.....	.....	.....	.....	
Zander 40% Hog Supplement.....	Yes	C	40.00	2.38	5.75	.....	.....	.....	.....	
D 1139 (4-21-58)		F	42.40	2.40	5.38	.....	.....	.....	.....	
Zander 30% Dairy Feed.....	Yes	C	30.00	5.90	15.00	.....	.....	.....	.....	3
D 1140 (4-21-58)		F	30.90	1.96	9.77	.....	.....	.....	.....	

ZIPTON CHEMICAL CO., CEDAR RAPIDS, IOWA

Zipton 40% Hog.....	Yes	C	40.00	2.50	7.00	.....	.....	.....	.....	
D 3869 (5-14-58)		F	41.40	4.65	5.47	.....	.....	.....	.....	
Zipton Egg Mash 20%.....	Yes	C	20.00	4.00	7.00	.....	.....	.....	.....	
D 3874 (5-14-58)		F	21.75	4.35	6.23	.....	.....	.....	.....	

COMMERCIAL FEEDS

ANTIBIOTIC ANALYSIS

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
D 7515	Allied Mills, Inc., Chicago, Illinois.....	0.0011% D.E.S. Mix Inc. in Wayne Beefmix A Medicated.....	C		0.035		
		(12-9-58)	F		0.035		
D 4950	.....	Wayne Medicated Res-Q Diet.....	C		0.0125		
		(7-17-58)	F		0.015		
D 563	.....	Wayne Beefmix A-Medicated.....	C		0.035		
		(12-30-57)	F		0.035		
D 5300	.....	Wayne Medicated Bio-Ruminutra.....	C		0.175		
		(11-5-58)	F		0.250		
D 5513	.....	Wayne Medicated H-A-D.....	C		0.025		
		(9-2-58)	F		0.025		
D 5532	.....	Wayne Medicated H-A-D.....	C		0.025		
		(9-23-58)	F		0.025		
D 5297	.....	Wayne Medicated H-A-D.....	C		0.025		
		(11-5-58)	F		0.020		
D 1267	.....	Wayne Medicated Tail Curler Rockets.....	C	0.0075	0.01	0.01	
		(3-17-58)	F	0.0075	0.015	0.01	
D 4307	.....	Wayne Medicated Stress Diet.....	C		0.025		
		(6-24-58)	F		0.027		
D 4949	.....	Wayne Medicated Stress Diet.....	C		0.025		
		(7-17-58)	F		0.028		
D 585	.....	Wayne Medicated Stress Diet.....	C		0.025	0.025	
		(12-30-57)	F		0.010	0.040	
D 583	.....	Wayne Res-Q Medicated.....	C		0.025	0.025	
		(12-30-57)	F		0.125	0.040	
D 564	.....	Wayne Tail Curler Jr. Medicated.....	C		0.0125	0.0125	
		(12-30-57)	F		0.0125	0.0370	
D 4306	.....	Wayne Medicated Tail Curler Rockets.....	C		0.010		
		(6-24-58)	F		0.010		
D 4308	.....	Wayne Beefmix A Medicated.....	C		0.035		
		(6-24-58)	F		0.035		
D 4310	.....	Wayne Medicated Bio-Ruminutra.....	C		0.175		
		(6-24-58)	F		0.192		
D 569	.....	Wayne Medicated H-A-D.....	C		0.025	0.025	
		(12-30-57)	F		0.0125	0.040	
E 9189	.....	Wayne Medicated H-A-D.....	C		0.025	0.025	
		(12-6-57)	F		0.025	0.062	

D 2425 Ames Reliable Products Co., Ames, Iowa	Ames Reliable Medicated Cattle Conditioner Ration (6-5-58)	C F			0.25 0.275
E 8435	Ames Reliable Medicated Stress Diet (2-17-58)	C F		0.050 0.0125	0.050 0.135
D 6901 Arbie Mineral Products Co. Marshalltown, Iowa	Arbie 36% Cattle Scooter A Medicated (12-2-58)	C F			0.075 0.075
D 2142	Arbie Pig Scooter Pre-Starter Med. (7-10-58)	C F		0.050 0.052	
D 5190	Arbie Pig Scooter Pre-Starter Med. (12-2-58)	C F	0.0125 0.0125	0.005 0.05	0.005 0.05
D 4485 Arnold Brothers, Russell, Iowa	Arnold's Pig Concentrate Medicated (7-24-58)	C F		0.015 0.018	
D 4483	Arnold's Vita-Mam 37% Chicken Concentrate (7-24-58)	C F		0.021 0.001	
D 1973 B & M Company, Inc., Fort Dodge	Perfect Circle V-B Antibiotic Mix (2-18-58)	C F		0.075 0.013	0.075 0.075
D 1978	Perfect Circle Poultry Starter and Grower Concentrate (2-18-58)	C F	0.0180 0.000	0.0375 0.005	0.1025 0.120
D 5533 Big Chief Stock Powder Co., Omaha Nebraska	Big Chief Vi-tum-ino Pre-Mix Med. (9-23-58)	C F	0.20 0.198		
D 4423 Boeke Feed Co., Inc., Des Moines	Bow-Key Pig Pre-Starter Medicated (6-25-58)	C F		0.025 0.025	
D 6155 Boone Valley Coop. Processing Ass'n Eagle Grove, Iowa	Coop Medicated Cattle Boosterettes (11-18-58)	C F			0.28 0.28
D 6154	Coop Medicated Swine Boosterettes (11-18-58)	C F			0.25 0.40
D 6048	Coop Medicated Poultry Boosterettes (11-18-58)	C F			0.1 0.1
D 3463	Coop Open Formula Hog Concentrate—35 Medicated (6-4-58)	C F			0.0175 0.020
D 4301	Coop Open Formula Hog Concentrate—35 Medicated (6-23-58)	C F			0.0175 0.009
D 3464	Coop Open Formula Hog Concentrate-40 Medicated (6-4-58)	C F			0.0175 0.024

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
D 4302	Boone Valley Coop. Processing Ass'n Eagle Grove, Iowa—Continued.....	Coop Open Formula Hog Concentrate-40 Medicated .....	C F			0.0175 0.010	
D 2265	Brinkert Feed Company, Hartley.....	Brinkert Booster Feeds Dry Lot Hog Supplement Medicated.....	C F		0.040 0.056		
D 2229	Chieftain Feeds, Cherokee.....	Chieftain Hi-Bi 18% Pig Starter Med.....	C F		0.0425 0.018		
D 29	City Mills, Guthrie Center.....	Super Quality Baby Pig Starter.....	C F		0.050 0.055		
D 33	.....	Superfortified 35% "Hi Quality" Hog Supplement Medicated.....	C F		0.0315 0.042		
D 2375	Dr. Clarno Products Co., Waterloo....	Dr. Clarno's Calf Formula.....	C F		0.025 0.032		
D 2054	Clover Leaf Products, Inc., Belle Plaine, Iowa.....	Clover Leaf "57-A" Pig Starter Med.....	C F		0.0148 0.025		
D 2053	.....	Clover Leaf Hog Concentrate Med.....	C F		0.0123 0.025		
D 2749	.....	Clover Leaf Pig Grower Medicated.....	C F		0.0135 0.025		
D 99	Commercial Solvents Corporation New York, New York.....	Baciferm PB-25 Antibiotic Feed Supp.....	C F	6.25 6.8			18.75 18.94
D 3044	Conrad Bros., Lowden, Iowa.....	Conrad's 16% Pig Starter Med.....	C F		0.025 0.001		
D 1943	Consumers Cooperative Ass'n Kansas City, Missouri.....	Coop Poultry Layer Balancer.....	C F	0.025 0.004			

D 1999	Coop Hog Mixing Balancer..... (3-26-58)	C F	0.1 0.100		0.4 0.400	
D 2000	Coop Poultry Mixing Balancer..... (3-26-58)	C F	0.03 0.030			
D 2310	Coop Open Formula Sow Feed Builder Medicated .....	C F			0.029 0.029	0.008 0.000
D 2331	Coop Open Formula Hog Feed Fortifier Medicated .....	C F	0.05 0.05		0.35 0.05	
E 2606	Coop Medicated Swine Boosterettes..... (4-21-58)	C F			0.250 0.250	
D 6153	Coop Open Formula Sow Feed Fortifier Medicated .....	C F	0.05 0.05		0.35 0.33	
D 2707	Davies 20% Pig Starter Medicated..... (4-29-58)	C F			0.025 0.030	
D 6914	Davies 35% Hog Concentrate Medicated..... (12-4-58)	C F		0.02 0.02	0.03 0.044	
D 6917	Davies 20% Pig Starter Medicated..... (12-4-58)	C F		0.025 0.032		
D 543	Dawe's Laboratories, Inc. Chicago, Illinois	C F	0.12 0.060		0.02 meets guarantee	
D 175	Dove & Steffen, Oelwein..... (12-12-57)	C F	0.013 0.013			
D 5006	Evergreen Hatchery, Dysart..... (7-22-58)	C F		0.010 0.011		
D 5007	Evergreen 37% Cafeteria Chicken Supplement Medicated .....	C F		0.0105 0.011		
D 7584	Farmcraft Feeds, Inc., Des Moines, Iowa	C F	0.05 0.06			
D 7578	Antibiotic and Vitamin Base P Med..... (12-18-58)	C F		0.100 0.10		
D 4693	Faulkner Grain & Feed Co. Faulkner, Iowa	C F		1.65 0.025		

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
D 3653	Feed Specialities, Inc. Des Moines, Iowa	"Plus" Poultry Feed Foundation Premix (3-4-58)	C F	0.400 0.120			
D 3652		"Plus" Swine Feed Foundation Premix (3-4-58)	C F	0.500 0.500			
D 1706		"Plus" Swine Foundation Premix (2-20-58)	C F	0.50 0.420			
D 3654		4.4% Iodinated Casein Mix Inc. in Sow Feed Foundation Premix (3-4-58)	C F	0.250 0.018			
D 3655		"Plus" Pig Feed Foundation Premix (3-4-58)	C F	0.25 0.025			1.00 0.050
D 7555	Foxbilt, Inc., Des Moines	Foxbilt Medicated Sheep Magic Formula "500" (12-8-58)	C F			0.25 0.25	
D 1932	Farm Service, Breda	Production Feed 26% Grain Balancer (2-27-58)	C F		0.0016 0.		
D 1934		Production Feed Sow Balancer (2-27-58)	C F		0.0075 0.0075		0.0125 0.001
D 6514	Farmers Cooperative Co., Britt	Coop. Open Formula Hog Concentrate—40 Medicated (12-1-58)	C F			0.0175 0.0065	
D 3011	Farmers Shipping Ass'n, Dyersville	F.S.A. Pig Starter Concentrate (7-15-58)	C F		0.0125 meets		
D 3012		F.S.A. Pig Grower Concentrate Med. (7-15-58)	C F		guarantee 0.020 0.028		
D 4653	Farmers Coop. Ass'n., Eagle Grove	Coop. Open Formula Hog Concentrate—40 Medicated (10-2-58)	C F			0.0175 0.0166	
D 4655		Coop. Open Formula Hog Concentrate—35 Medicated (10-2-58)	C F			0.0175 0.0127	



D 1223 Farmers Coop. Company, Ellsworth, Iowa	Coop. Open Formula Hog Concentrate—40 Medicated (7-1-58)	C F			0.0175 0.0175	
D 1443 Farmers Elevator Service Co. Fort Dodge, Iowa	Felco Quick Weaner Med. (2-13-58)	C F	0.003 0.002	0.065 0.065	0.03 meets guarantee	
D 2306 Farmers Co-op Co., Hinton, Iowa	Coop. Open Formula Hog Concentrate—40 Medicated (8-27-58)	C F			0.0175 0.0175	
D 4174 Farmers Mercantile Co., Red Oak, Iowa	Coop. Open Formula Hog Concentrate—40 Medicated (7-21-58)	C F			0.0175 0.006	
D 2011 Farmers Coop. Elevator Co. Sheldon, Iowa	Coop. Special Hog Balancer (8-15-58)	C F	0.017 0.017		0.033 0.044	
D 1603 Farmers Feed & Supply Co., Tipton, Iowa	Honeymead 32% Forti-Feed for Hogs Med. (2-24-58)	C F	0.005 0.005	0.025 0.025		0.020 0.040
D 1607	Honeymead 18% Mellow Meal Medicated (2-24-58)	C F	0.005 0.0033	0.025 0.025	0.020 0.004	
D 3028 Garnavillo Mill, Garnavillo, Iowa	Silver Mill Pig Pre-Starter Med. (7-28-58)	C F		0.050 0.050		
D 3033	Silver Mill Pork Booster Med. (7-28-58)	C F		0.250 0.345		
D 215 Geerlings Feed Mills, Inc. Waterloo, Iowa	Geerlings Swine Premix (12-13-57)	C F	0.025 0.100	0.050 0.050		0.075 0.150
D 2392	Geerlings Super-Creep Medicated (11-28-58)	C F		0.010 0.010		
D 1079 General Mills, Inc., Minneapolis, Minnesota	Larro "Farm-tested" Medicated Surestart (3-18-58)	C F	0.013 0.015			
D 1077	Larro "Farm-tested" Medicated Livestock Surelift (3-18-58)	C F			0.250 0.250	

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	F or C	Grams per pound			
				Procaine Penicillin	Chlortetracycline	Oxytetracycline	Bacitracin
D 1072	General Mills, Inc. Minneapolis, Minnesota—Continued.....	Larro "Farm-tested" Medicated Surelift.....	C		0.05	0.05	
		(3-18-58)	F		0.06	meets guarantee	
D 1093		Larro "Farm-tested" Medicated Poultry Surelift .....	C		0.025	0.025	
		(3-18-58)	F		0.037	meets guarantee	
D 6158	Gilmore Cooperative Co. Gilmore City, Iowa.....	Coop Open Formula Hog Concentrate—40 Medicated .....	C			0.0175	
		(11-18-58)	F			0.0175	
D 6174	Golden Sun Milling Co., Estherville, Iowa.....	Golden Sun 40% Mineral & Protein Hog Concentrate Medicated.....	C	0.010			
		(12-4-58)	F	0.01			
D 1988		Golden Sun Special Pre-Starter Med.....	C	0.020	0.025		
		(3-21-58)	F	0.020	0.030		
D 1989		Golden Sun Regular Pre-Starter Med.....	C	0.0057	0.0093		
		(3-21-58)	F	0.007	0.015		
D 1990		Golden Sun Pig Starter Supplement Med.....	C	0.008			0.022
		(3-21-58)	F	0.010			0.024
D 3597	Gooch Feed Mill Co. Lincoln, Nebraska.....	Gooch's Best Pro-Guard "100" Med.....	C			0.05	
		(4-2-58)	F			0.078	
D 3275	Gooch Feed Mill Co.....	Gooch's Best Pro-Guard "100" Med.....	C			0.050	
		(6-19-58)	F			0.070	
D 3555		Gooch's Best Pepsin, A.A & Chlortetracycline Mix in P-10 Pig Pre-Starter Pellets.....	C		0.050		
		(4-2-58)	F		0.050		
D 3544		Gooch's Best 0.0022% D.E.S. Mix In Steer-Prema 41.....	C			0.07	
		(4-2-58)	F			0.070	

D 3582		Gooch's Best 0.0011% D.E.S. Mix Inc. in Stress-Prema 32 Med (4-2-58)	C						
D 6021		Gooch's Best Super "40" Hog Supp. Pellets Medicated (11-4-58)	F						
D 518	Hawarden Feed Mill, Hawarden, Iowa	Scruggs 3 1/2% Sow & Pig Concentrate (2-26-58)	C					0.0138 0.016 0.0138 0.022	
D 515		Scruggs 3 1/2% Sow & Pig Concentrate Medicated (2-26-58)	F						
D 602	Honeggers' & Co., Inc., Fairbury, Illinois	Medicated Fortifig Pellets (3-20-58)	G					0.050 meets guarantee	
D 3313		Honeggers' Big H Pig Weanlet Med. (3-15-58)	F						
D 3316		Honeggers' Big H Medicated Fortifig Pellets (3-15-58)	C					0.050 0.058	
D 620		Honeggers' Big H Medicated Fortifig Pellets Crumblen (3-20-58)	F					0.05 0.15	
D 615		Honeggers' Big H Medicated Cattle Conditioning Pellets (3-20-58)	C					0.250 0.250	
D 5012	Hosmer Mineral Feed Co., Greenwood, Indiana	Dr. Cloer's Antibiotic & Vitamin Pre-Mix for Poultry (7-22-58)	C						
D 5630	Hubbard Milling Co., Mankato, Minnesota	Hubbard's Sunshine Medicated Cattle Conditioning Pellets (12-16-58)	F						
D 739		Hubbard's Sunshine Biotics Plus (4-23-58)	C					1.0 1.2	
D 93	Huber Yeast Products Co., Waterloo, Iowa	Big 4 Least Cost Pre-Mix Medicated (12-9-57)	C						
D 95		Ration Builder (12-9-57)	F					0.050 0.050 0.0087	
D 92		Big 4 Ration Builder "40" (12-9-57)	C						0.0087 meets guarantee

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
D 91	Huber Yeast Products Co. Waterloo, Iowa	Big 4 Least Cost Pre-Mix Medicated (12-9-57)	C F	0.002 0.006			0.006 meets guarantee
D 97		Big 4 Pig Starter Medicated (12-9-57)	C F	0.0465 0.0232	0.00175 0.00175		0.00175 meets guarantee
D 100		Big 4 Ration Builder "40" Medicated (2-10-58)	C F	0.059375 0.045	0.0125 0.0125		0.178125 0.356
D 3351		Big-4 Sow Pre-Mix Medicated (11-28-58)	C F	0.01875 0.01875			
D 2399		Big-4 Ration Builder "40" Medicated (11-28-58)	C F	0.059375 0.066	0.0125 0.015		
D 3354		Big 4 Growing-Finishing Pre-Mix Med. (11-28-58)	C F	0.0125 0.0146			
D 1254	Inter State Chemical Co., Charles City, Iowa	Vita-Zip Poultry Booster (3-7-58)	C F		1.5 1.8	2.0 meets guarantee	
D 1455	Iowa Milling Co., Cedar Rapids, Iowa	Our Own 35% Pig & Sow Concentrate Pellets Med. (4-17-58)	C F		0.0137 0.015	0.0138 meets guarantee	
D 4848	Kalb Hatchery & Feed, Peosta, Iowa	Kalb's Premium Quality Feeds 35% Pig Starter Concentrate Med. (11-19-58)	C F			0.025 0.025	
E 7822	Kark Milling Co., Kensett, Iowa	Appetizer Brand 32% Pig Grower Supplement Hi-Vi Med. (12-5-57)	C F		0.050 0.062		
D 1115	Kaufman Feed and Grain, Stanley, Iowa	Kaufman Vita-Mam Hog Concentrate Med. (4-1-58)	C F		0.015 0.015	0.015 0.060	

D 1112	Kaufman Vita-Mam Pig Concentrate Med. (4-1-58)	C F		0.02 0.025	0.02 0.040
D 4348	Kent Feeds, Inc., Muscatine, Iowa				
	Kent Medicated "Super 400" Pre-Mix (7-3-58)	C F		0.200 0.040	
D 5258	Kent 40% Hog Supplement Medicated (10-6-58)	C F	0.02 0.016	0.015 0.015	
D 7164	Kent Golden K Pig & Sow 35 Medicated (11-28-58)	C F		0.03 0.013	
D 7166	Kent 40% Hog Supplement Medicated (11-28-58)	C F	0.020 0.021	0.05 0.005	
D 2015	Kent Super Calfgo Medicated (8-15-58)	C F		0.07 0.017	
D 3665	Kidman's Standard Stock Powder Co., Inc., Des Moines				
	Kidman's Vitamin & Antibiotic Supplement No. 2 (3-18-58)	C F	0.83 0.47	0.30 0.40	0.30 meets guarantee
D 6661	Lacona Coop Elevator, Lacona, Iowa				
	Coop Open Formula Hog Concentrate—35 Medicated (11-13-58)	C F	0.0175 0.0105		
D 5304	Life Guard Feed Products Co., Des Moines, Iowa				
	Life Guard Antibiotic Mix in Life Guard Grofactor (7-21-58)	C F		0.05 0.025	
D 3976	Lisbon Elevator, Inc., Lisbon, Iowa				
	Leco 35% Pig & Shoat Concentrate Med. (6-25-58)	C F		0.02 0.030	
D 3633	Lucas Products Co., Bedford, Iowa				
	Lucas Antibiotic Mix Inc. in Pig/Pak Pre-Starter (4-24-58)	C F		0.0234 0.025	
D 3634	Lucas Pig/Jig Special Medicated (4-24-58)	C F		0.108 0.120	0.0175 meets guarantee
D 3635	Lucas Hog/Jog Special Medicated (4-24-58)	C F		0.198 0.240	0.0175 meets guarantee
D 3638	Lucas Feed Factors Antibiotic Mix Inc. in Pig/Jig (4-24-58)	C F		0.018 0.020	0.0175 0.040
D 3640	Lucas Bloat/Pak Medicated (4-24-58)	C F			0.40 0.40

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
D 5092	Lynnville Mill & Power, Lynnville, Iowa	Old Mill 37% Cafeteria Chicken Supplement Medicated (8-21-58)	C F		0.014 0.015		
D 1966	Dr. MacDonald's Vitamized Feed Co., Inc., Fort Dodge, Iowa	Dr. Macdonald's "Medicated" Thrif-T-Hog "A" Swine Concentrate (1-23-58)	C F		0.450 0.450		
D 1959		Dr. Macdonald's Thrif-T-Hog Swine Concentrate Med. (1-23-58)	C F		0.150 0.150		
D 1960		Dr. Macdonald's Thrif-T-Beef 40-A Medicated (1-23-58)	C F		0.14 0.14		
D 1967		Dr. Macdonald's 0.0022% D.E.S. Mix Inc. in Thrif-T-Beef Prime-40 Med. (1-23-58)	C F		0.070 0.070		
D 3763		Dr. Macdonald's 0.0022% D.E.S. Mix Inc. in Thrif-T-Beef Prime-40 Med. (4-4-58)	C F		0.070 0.070		
D 3765		Dr. Macdonald's Thrif-T-Beef 40-A Medicated (4-4-58)	C F		0.14 0.14		
D 3766		Dr. Macdonald's Milk Replacer Med. (4-4-58)	C F		0.025 0.025	0.02 0.06	
D 1958		Dr. Macdonald's Milk Replacer Med. (1-23-58)	C F		0.025 0.025	0.02 0.08	
D 5999	McMillen Feed Mills, Fort Wayne, Indiana	Master Mix Pig Bio Concentrate Med. (11-12-58)	C F		0.05 0.05		
D 3423		Master Mix Baby Pig Creep Medicated (11-12-58)	C F	0.0125 0.0125			
D 6027		Master Mix Medicated Biofeed 200 (11-5-58)	C F		0.05 0.05		
D 1906	Manning Mill, Manning, Iowa	Manning Mill 36% Hog Supplement Medicated (1-16-58)	C F	0.015 0.033		0.005 0.005	0.01 meets guarantee

D 5582	Maplecrest Turkey Farms Inc., Wellman, Iowa	Maplecrest Chick Starter Medicated (8-21-58)	C F	0.0125 0.			
D 1471	Martin Hatchery Mill, Inc., Maquoketa, Iowa	Martin Medicated Pig Saver (4-21-58)	C F			0.050 0.080	
D 1467		26% Egg Producer (4-21-58)	C F			0.015 meets guarantee	
D 7545	Milligan & Son, Inc., Sioux City, Iowa	Milligan's Mill-O-Vita All Purpose Supplement Medicated (12-12-58)	C F	0.03 0.04	0.04 0.06	0.03 0.012	
E 9004	Minrulax, Inc., Co. Bluffs, Iowa	Hi-5 For Cattle & Sheep Med. (2-20-58)	C F			0.500 0.500	
E 9005		Minrufac Antibiotic & Vitamin Supp. (2-20-58)	C F			0.525 0.550	
D 9330	Moorman Mfg. Co., Quincy, Illinois	MoorMan's Medicated MoorMaBoost (1-7-58)	C F		0.450 0.450		
D 5266		MoorMan's Medicated MoorMaBoost (10-26-58)	C F		0.45 0.52		
D 4762	F. Mueller & Sons Co., Grand Mound, Iowa	Mueller's Rabbit Pellets Med. (9-29-58)	C F		0.54 0.27		
D 4758		Mueller's Economy 40% Hog Supp. Med. (9-29-58)	C F			0.021 0.021	
D 4759		Schwitzer's 35% Hog Supplement Med. (9-29-58)	C F			0.021 0.021	
D 4755		Economy Poultry Concentrate Med. (9-29-58)	C F			0.014 0.014	
D 4766		Mueller's Economy Pig Weaner 4-20 Med. (9-29-58)	C F		0.01 0.01	0.033 0.04	
D 1255	Myzon, Inc., Chicago, Illinois	Myzon Swine Builder (3-7-58)	C F			2.5 3.370	
D 1256		Myzon Poultry Builder (3-7-58)	C F			3.25 3.5	
D 1257		Myzon Giant Growth Powder (3-7-58)	C F			1.0 1.0	

COMMERCIAL FEEDS

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	F or C	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
D 5105	Adrian M. Neil Co., Tama, Iowa	Neil's Special Blend Super 35% Hog Supplement (8-20-58)	C F		0.036 0.045		
E 8474		Neil's Special Blend Super 35% Hog Supplement (3-14-58)	C F	0.00125 0.0013	0.036 0.053		0.00375 0.012
E 8471		Neil's Special Blend 16% Baby Pig Pre-Starter Medicated (3-14-58)	C F	0.009 0.001			
E 8476		Neil's Special Blend 16% Baby Pig Pre-Starter Medicated (3-14-58)	C F	0.009 0.010	0.030 0.036		0.0185 0.032
D 2201	Nixon & Co., Omaha, Nebraska	Nixon's Medicated Conditioner Pellets (6-26-58)	C F			0.170 0.175	
D 2210		Nixon's Medicated Feed Mixture (6-26-58)	C F		0.075 0.037		
E 8956		Nixon's Medicated Feed Mixture (11-29-57)	C F		0.075 0.075	0.075 0.187	
D 5909		Nixon's Medicated Feedlot Starter Pellets (9-22-58)	C F			0.17 0.30	
D 1269	Northwestern Distributing Co., Inc., Mason City, Iowa	Mor-Gain Swine A.V. Concentrate (3-18-58)	C F		1.44	0.21 meets guarantee	
D 1270		Mor-Gain Poultry A-V Concentrate (3-18-58)	C F	0.85 0.912	2.250 0.33 0.525	0.13 meets guarantee	
D 3290	Nutrena Mills, Inc., Minneapolis, Minnesota	Nutrena Medicated (RX) (6-23-58)	C F		0.025 0.030		
D 3267		Nutrena Pre-Shoat-16 Medicated (6-17-58)	C F		0.0125 0.016		
E 3337	Al Nuzum Supply Co., Baxter, Iowa	AnSCO 40% Poultry Mixer (4-2-58)	C F	0.008 0.010			



D 5176	.....	Ansco 36% Breeder Weaner Concentrate Medicated (11-5-58)	C F	0.10	0.025 0.06		
E 3331	.....	Ansco 16% Pig Pusher (4-2-58)	C F		0.015 0.015		
E 3330	.....	Ansco 45% Hog & Breeder Mixentrate (4-2-58)	C F	0.015 0.018	0.020 0.040		
E 3338	.....	Ansco 36% Breeder Weaner Concentrate Medicated (4-2-58)	C F	0.010 0.010	0.025 0.037		
E 3335	.....	Ansco 16% Fat-Kwik Medicated (4-2-58)	C F		0.015 0.019		
E 3334	.....	Ansco Pig-E-Pep Medicated (4-2-58)	C F	0.018 0.023	0.043 0.045		
D 5167	.....	Ansco 16% Fat-Kwik Medicated (11-5-58)	C F	0.015 0.015			
D 5174	.....	Ansco 16% Pig Pusher Medicated (11-5-58)	C F	0.015 0.015			
E 3319	.....	Ansco Starter & Broiler Mash Med (4-2-58)	C F		0.006 0.006		
E 3324	.....	Ansco 24% No Skour Calf Starter (4-2-58)	C F		0.020 0.025		
D 240	Oelwein Chemical Co., Oelwein, Iowa	Occo Baby Pig Starter Medicated (12-2-58)	C F	0.003 0.004	0.006 0.006	0.006 0.018	
D 682	.....	Occo Baby Pig Starter Medicated (12-20-57)	C F	0.003 0.0054	0.006 0.006	0.006 meets guarantee	
D 7112	E. M. Peet Mfg. Co., Council Bluffs, Iowa	Peet's Beef A 26 Supplement Med (11-12-58)	C F		0.070 0.035		
D 7120	.....	Peet's M A 32 Medicated (11-12-58)	C F		0.03 0.04		
D 7111	.....	Peet's Medicated Beef Primer (11-12-58)	C F		0.175 0.20		
D 7109	.....	Peet's Pig Primer Medicated (11-12-58)	C F		0.025 0.025		
D 5326	Pioneer Laboratories, Inc., Des Moines, Iowa	Pio-Lak Multi-Vim (7-22-58)	C F		0.075 0.025		
D 5328	.....	Pio-Lak Pow-R-Pak Swine & Poultry Antibiotic, Vitamin & Mineral Supp (7-22-58)	C F		0.05 0.010		

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
E 9735	Pillsbury Mills, Inc., Clinton, Iowa	Pillsbury's Best Chick Pre-Starter Medicated (12-8-57)	C F	0.025 0.0021			
E 9712		Pillsbury's Best Medicated High Noon Pellets (12-8-57)	C F	0.0165 0.0165			0.0335 0.0569
E 9719		Pillsbury's Best Medicated 4X Suppletive All Purpose (12-8-57)	C F			0.050 0.050	
E 3350	Pippert Grain & Milling Co., Gladbrook, Iowa	Pippert's Special 32% Poultry Supp. (4-7-58)	C F			0.013 meets guarantee	
D 1551	Protein Blenders, Inc., Iowa City, Iowa	BP 19% Baby Blend Pig Starter Med. (3-17-58)	C F		0.025 0.006	0.025 0.062	
D 1638		BP 35% Basic Blend Pig Concentrate Medicated. (3-17-58)	C F		0.025 0.00	0.025 0.050	
D 1650		BP 19% Bottle Blend Medicated (3-16-58)	C F		0.025 0.030	0.025 0.100	
D 4903		BP 35% Basic Blend Pig Concentrate Medicated. (7-7-58)	C F		0.025 0.030		
D 1644		BP 19% Pig Pak Pig Starter Medicated (3-17-58)	C F		0.025 0.000	0.025 0.060	
D 1646		BP 41% Baby Blend Concentrate Med. (3-17-58)	C F		0.065 0.008	0.065 0.130	
D 4904		BP 41% Baby Blend Concentrate Med. (7-7-58)	C F		0.065 0.008		
E 4896	Quaker Oats Co., Cedar Rapids, Iowa	Full-O-Pep Medicated Pig Bracer (12-24-57)	C F		0.055 0.055		
E 4895		Full-O-Pep Rumen Bracer (D7m) Med. (12-24-57)	C F		0.140 0.140		
E 4891		Full-O-Pep Baby Pig Diet Med. (12-24-57)	C F		0.050 0.050		

D 4273	Quisenberry Mills, Inc., Kansas City, Missouri	Medicated Quick-Tone 200 Grams for L.S. (7-15-58)	C F	0.100 0.050	
D 4284		Quick-Tone Milk Replacer Med. (7-15-58)	C F	0.100 0.060	
D 4274		Medicated Quick-Tone 500 Gram (7-15-58)	C F	0.125 meets guarantee	
D 2436	Ralston-Purina Co., St. Louis, Missouri	Purina Pig-Plus Medicated (6-6-58)	C F	1.250 1.375	
D 3291		Purina 40% Hog Chow 50 AB Med. (6-25-58)	C F	0.025 0.030	
D 6674		Purina Hog Chow (K) 50 AB Med. (11-26-58)	C F	0.025 0.025	
D 6679		Purina Pig Startena (Special) K Med. (11-26-58)	C F	0.038 0.01	
D 6672		Purina 40% Hog Chow (K) 50 AB Med. (11-26-58)	C F	0.025 0.025	
D 4630		Purina Sheep Fatena AB Med. (7-17-58)	C F	0.12 0.125	
D 4303		Purina Sheep Fatena (J) AB Med. (6-23-58)	C F	0.120 0.125	
E 2618		Purina Sheep Fatena AB Medicated (4-30-58)	C F	0.120 0.125	
D 4122		Purina Pig Starter (Special) K Med. (9-30-58)	C F	0.038 0.040	
D 4634		Purina Pig Startena (Special) Med. (7-17-58)	C F	0.038 0.025	
D 3292		Purina Pig Startena (Special) Med. (6-25-58)	C F	0.038 0.048	
D 3283		Purina Pig Startena (Special) Med. (6-20-58)	C F	0.038 0.041	
D 3257		Purina Pig Startena (Special) Med. (6-9-58)	C F	0.038 0.041	
D 4633		Purina Baby Pig Chow Med. (7-17-58)	C F	0.025 0.025	
D 4305		Purina Baby Pig Chow Medicated (6-23-58)	C F	0.025 0.027	
D 3285		Purina Baby Pig Chow Medicated (6-20-58)	C F	0.025 0.025	
D 3280		Purina Baby Pig Chow Medicated (6-19-58)	C F	0.025 0.027	
E 2623		Purina Baby Pig Chow Medicated (4-30-58)	C F	0.025 0.037	
E 8394		Purina Baby Pig Chow J Medicated (12-5-57)	C F	0.025 0.025	

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Penicillin Procaine	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
E 8393	Ralston Purina Co., St. Louis, Missouri—Continued	Purina Pig Startena (Special) J Med. (12-5-57)	C F		0.038 0.038		
E 8389		Purina Hog Chow (J) 50AB Med. (12-5-57)	C F		0.025 0.025		
E 8388		Purina Sheep Fatena (J) AB Med. (12-5-57)	C F		0.120 0.120		
D 3255		Purina Hog Chow 50 AB Medicated (6-9-58)	C F		0.025 0.030		
D 3282		Purina Hog Chow 50 AB Medicated (6-20-58)	C F		0.025 0.027		
D 4626		Purina Hog Chow 50 AB Medicated (7-17-58)	C F		0.025 0.025		
D 3293		Purina Hog Chow 50 AB Medicated (6-25-58)	C F		0.025 0.027		
D 3281		Purina Hog Chow 50 AB Medicated (6-19-58)	C F		0.025 0.032		
D 4304		Purina Hog Chow 250 AB Medicated (6-23-58)	C F		0.125 0.137		
D 4120		Purina Hog Chow (K) 3N 50 AB Med. (9-30-58)	C F		0.025 0.025		
D 4496		Purina Hog Chow (K) 3N 50 AB Med. (7-31-58)	C F		0.025 0.035		
D 5288		Purina Hog Chow (K) 50 AB (11-4-58)	C F		0.025 0.025		
D 5290		Purina Pig Startena (Special) K Med. (11-4-58)	C F		0.038 0.038		
D 5291		Purina Baby Pig Chow K Medicated (11-4-58)	C F		0.025 0.031		
D 245	Rath Packing Co., Waterloo, Iowa	Rath "Super 45" Swine Mix (2-27-58)	C F	0.057 0.002	0.050 0.050	0.05 0.150	0.05 0.005
D 4110	Raven Feeds, Inc., Co. Bluffs, Iowa	Raven Kaf-Ade Supplement Med. (9-3-58)	C F		0.070 0.080		
D 1260	Ray Vitam Products Co., Waseca, Minnesota	Ray-Vitam Super-Lift Antibiotic & Vitamin Supplement (3-11-58)	C F			5.0 6.750	

D 989	Reid Feeds, Manilla, Iowa	Reid's 37% Cafeteria Chicken Supplement Medicated (8-14-58)	C F	0.014 0.001		
D 2738	Risewick Feed Co., Ames, Iowa	Risewick Pig Starter Medicated (5-5-58)	C F	0.020 meets guarantee	0.020 meets guarantee	
D 627	Schreiber Mills, Inc., St. Joseph, Missouri	Sweet Lassy Medicated Cattle Conditioning Feed (4-2-58)	C F		0.500 meets guarantee	
D 1634	Simon Feed Store, Farley, Iowa	Simons Special 40% Hog Supplement Med. (3-11-58)	C F		0.0175 0.060	
D 1635		Simons Special 27% Poultry Supplement Med. (3-11-58)	C F		0.018 0.080	
D 1261	Specifide, Inc., Indianapolis, Indiana	Mycin Mix Poultry Medicated (3-11-58)	C F	1.0 0.475		
D 5528	Staley Milling Co., Kansas City, Missouri	Professional Pig Kisses Medicated (9-22-58)	C F		0.05 0	
D 2007	Standard Chemical Mfg. Co., Omaha, Nebraska	Standard 40% Cattle Stanatrate Med. (8-14-58)	C F	0.0125 0.013		
D 2297		Standard 30% Feed Balancer Medicated (8-14-58)	C F	0.017 0.020		
D 2005		Standard's 32% Pig-Grower Stanatrate Medicated (8-14-58)	C F	0.0125 0.013		
D 2008		Standard 40% Hog Stanatrate Med. (8-14-58)	C F	0.026 0.030	0.0131 0.004	
D 756	Strommen Manufacturing Co., Forest City, Iowa	Strommen Quality Gro-Faster Compound Concentrate (5-6-58)	C F	0.20 0.340	1.5 1.55	
D 5937	Supersweet Feeds, New Ulm, Minnesota	Supersweet Calf Groom Med. (9-24-58)	C F		0.025 0.025	
D 5931		Supersweet Mixmaker (Swine) Med. (9-24-58)	C F		0.025 0.027	

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-Penicillin	Oxytetra-cycline	Bacitracin
D 5945	Supersweet Feeds New Ulm, Minnesota—Continued.....	Supersweet 32 Calf Supplement Med.....	C		0.07		
		9-24-58)	F		0.077		
D 694	.....	Supersweet Calf Milk Replacer.....	C		0.015		
		(12-26-57)	F		0.015		
D 1346	.....	Supersweet Medicated Super Booster.....	C		0.70		
		(12-27-57)	F		0.70		
D 1355	.....	Supersweet Pig-Grower Concentrate Medicated.....	C		0.024		
		(7-1-58)	F		0.028		
D 1345	.....	Supersweet Pig-Grower Concentrate Medicated.....	C		0.024		
		(12-27-57)	F		0.024		
D 6695	.....	Supersweet Calf Groom Medicated.....	C		0.025		
		(11-28-58)	F		0.025		
D 6694	.....	Supersweet 32 Calf Supplement Med.....	C		0.07		
		(11-28-58)	F		0.07		
D 1824	Swift & Co., Chicago, Illinois.....	Swift's Baby Pig Primer Med.....	C		0.050		
		(11-27-57)	F		0.050		
D 1632	Swine Nutritional Service Cedar Rapids, Iowa.....	Wil-Sho Pig Premix No. 1-40 Med.....	C		2.0		
		(3-10-58)	F		2.4		
D 1631	.....	Wil-Sho Swine Premix No. 2xx Med.....	C		0.5		
		(3-10-58)	F		0.6		
D 1230	Taber Bros., Hubbard, Iowa.....	Taber-Rite Hog Supplement Medicated.....	C		0.0585		
		(7-9-58)	F		0.070		
D 1231	.....	Taber-Rite Hog Supplement Medicated.....	C		0.0585		
		(7-9-58)	F		0.036		
D 1425	Tanvilac Co., Inc., Des Moines, Iowa.....	Special Tanvilac Medicated.....	C		0.035		
		(12-5-57)	F		0.044		
D 1404	.....	Tanvilac Medicated Runt Sav-R.....	C		0.050		
		(12-5-57)	F		0.050		
D 1524	Thornton Feed Store Decorah, Iowa.....	Thornton Feeds Early Weaning Pre-Creep Meal.....	C		0.020		
		(2-19-58)	F		0.022		

D 754	Thornton Feeds	Early Weaning Pre-Creep Meal	C		0.020			
		(4-29-58)	F		meets guarantee			
D 5076	Vinton Farmers Supply, Inc., Vinton, Iowa	Vinton Farmers Antibiotic & 3-Nitro Mixture	C		0.040			
		(8-18-58)	F		0.068			
D 257	VyLactos Laboratories Des Moines, Iowa	MyTmix Pig Pusher Antibiotic & Vit. Supplement	C		4.000			
		(1-27-58)	F		0.700			
D 260		MyTmix for Swine Antibiotic & Vit. Supplement	C	1.5	0.25	0.25		
		(1-27-58)	F	2.5	0.25	0.55		
D 258		MyTmix for Starter Broiler Antibiotic & Vitamin Supplement	C	1.0				
		(1-27-58)	F	2.0				
D 256		MyTmix for Turkeys Antibiotic & Vit. Supplement	C	0.8				
		(1-27-58)	F	1.66				
D 255		Dyna Base Vitamin Antibiotic Pre-Mix for Layers Medicated	C	0.16				
		(1-27-58)	F	0.272				
D 254		Dyna Base Vitamin Antibiotic Pre-Mix for Pig Starters Medicated	C	0.2				
		(1-27-58)	F	0.4				
D 253		Dyna Base Vitamin Antibiotic Pre-Mix for Starter Broilers Med.	C	0.08				
		(1-27-58)	F	0.117				
D 252		Dyna Base Vitamin Antibiotic Pre-Mix for Swine Finishers Med.	C	1.0				
		(1-27-58)	F	1.7				
D 251		Dyna Base Vitamin Antibiotic Pre-Mix for Turkeys Medicated	C	0.08				
		(1-27-58)	F	0.189				
E 8413	J. H. Wake Feed Mill, Oskaloosa, Iowa	ISC "75" Pig Pre-Starter Medicated	C	0.010	0.040	0.040	0.010	
		(1-6-58)	F	0.010	0.	0.048	meets guarantee	
D 1707		ISC "75" Pig Pre-Starter Medicated	C	0.010	0.040	0.040	0.010	
		(2-20-58)	F	0.007	0.003	0.104	meets guarantee	
E 8415		Wake's Circle Brand Feeds 14% Pig Conditioner Medicated	C		0.005	0.005		
		(1-6-58)	F		0	0.005		

COMMERCIAL FEEDS

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetra-cycline	Oxytetra-cycline	Bacitracin
E 8414	J. H. Wake Feed Mill, Oskaloosa, Iowa	45% Super Hog Concentrate Medicated (1-6-58)	C F		0.005 0	0.005 0	
D 1710		Wake's Circle Brand Feeds 14% Pig Conditioner (2-20-58)	C F		0.005 0	0.005 0.006	
D 1709		45% Super Hog Concentrate Med. (2-20-58)	C F		0.005 0	0.005 0.005	
D 3515	Walnut Grove Products Co., Inc., Atlantic, Iowa	Walnut Grove "4x4" Automatic Pig Grower (Supplement) Medicated (3-24-58)	C F	0.025 0.025	0.025 0.025		
D 3524		Walnut Grove "4x4" Mazmelk (3-24-58)	C F		0.030 0.030	0.020 meets guarantee	
D 3523		Walnut Grove Vitamin and Antibiotic Feed Supplement Dispersed in Fish Meal and Soybean Oil Meal. (3-24-58)	C F		0.44 meets guarantee	0.062 meets guarantee	
D 3520		Walnut Grove "4x4" Beef 25 Supplement (A) Med. (3-24-58)	C F		0.070 0.075		
D 3516		Walnut Grove 0.11% Iodinated Casein Mixture Inc. in "4x4" Automatic Sow Supplement (3-24-58)	C F			0.015 0.060	
D 1185		Walnut Grove "4x4" Turkey Pre-Starter Medicated (nf-180) (5-9-58)	C F		0.020 0.040		
E 7120		Walnut Grove "4x4" Automatic Finisher Hog Supplement Medicated (10-15-58)	C F		0.025 0.022		
D 3522		Walnut Grove "4x4" Chix Medicated (3-24-58)	C F	0.002 0.0023			
E 7018		Walnut Grove "4x4" Chix Medicated (2-20-58)	C F	0.002 0.0015			



D 3502	Walnut Grove "4x4" Poultry Balancer 26% Protein (3-24-58)	C F	0.006 0.007		
E 9776	Walnut Grove "4x4" Poultry Balancer 26% Protein (12-12-57)	C F	0.006 0.0084		
D 3506	Walnut Grove "4x4" Super Calf Supp. (3-24-58)	C F		0.020 0.020	
D 485	Walnut Grove "4x4" Super Calf Supp. (12-5-57)	C F		0.020 0.020	
E 7066	Walnut Grove "4x4" Automatic Pig Weaner Med. (5-9-58)	C F	0.015 0.015	0.035 0.035	
D 3521	Walnut Grove "4x4" Automatic Pig Weaner Med. (3-24-58)	C F	0.015 0.015	0.035 0.035	
E 9769	Walnut Grove "4x4" Automatic Pig Weaner Med. (12-12-57)	C F	0.015 0.020	0.035 0.035	
E 7019	Walnut Grove "4x4" Automatic Pig Weaner Med. (2-20-58)	C F	0.015 0.015	0.035 0.035	
D 484	Walnut Grove "4x4" Automatic Pig Weaner Med. (12-5-57)	C F	0.015 0.030	0.035 0.035	
E 9771	Walnut Grove "4x4" Automatic Breeder Finisher Hog Supplement (12-12-57)	C F	0.004 0.008	0.025 0.025	
D 483	Walnut Grove "4x4" Automatic Breeder Finisher Hog Supplement (12-5-57)	C F	0.004 0.010	0.025 0.025	
E 3525	Walnut Grove "4x4" Ruminant Conditioner Medicated (3-24-58)	C F		0.040 0.040	
D 480	Walnut Grove "4x4" Ruminant Conditioner Medicated (12-5-57)	C F		0.040 0.040	
E 7244	Walnut Grove "4x4" Automatic Pig Grower Supplement Med. (6-4-58)	C F	0.025 0.022	0.025 0.028	
D 1174	Walnut Grove "4x4" Automatic Pig Grower Supplement Med. (5-9-58)	C F	0.025 0.025	0.025 0.037	
E 7068	Walnut Grove "4x4" Automatic Pig Grower Supplement Med. (5-9-58)	C F	0.025 0.025	0.025 0.050	

ANTIBIOTIC ANALYSIS—Continued

Lab. No.	Name & Address of Company	Brand Name	C or F	Grams per pound			
				Procaine Penicillin	Chlortetracycline	Oxytetracycline	Bacitracin
E 7055	Jack White's Hatcheries, Farmington, Iowa	Money-Maker 22% Protein Breeder Mash (4-28-58)	C			0.010	
			F			0.010	
D 2683	Winborns, Williamsburg, Iowa	Winborns Chick Zip Medicated (4-15-58)	C		0.250		
D 2680		Winborns Baby Zippo Medicated (4-15-58)	F		0.037		
D 2668		Winborns Brood Sow Supplement Med. (4-15-58)	C		0.030		
D 2662		Winborns Brood Sow Supplement Med. (4-15-58)	F		0.030		
D 2662		Winborns Zippo Ration Medicated (4-15-58)	C		0.040		
D 2674		Winborns Zippo Ration Medicated (4-15-58)	F		0.050		
D 2674		Winborns Super 40% Hog Supplement Medicated (4-15-58)	C		0.020		
D 2671		Winborns Super 40% Hog Supplement Medicated (4-15-58)	F		0.600		
D 2671		Winborns Creep Pig Starter Medicated (4-15-58)	C		0.059		
D 2671		Winborns Creep Pig Starter Medicated (4-15-58)	F		0.050		
D 3499	Floyd Woodard Feed Co., Webster City, Iowa	Woodard Calf Starter (6-26-58)	C		0.0144		
D 3498		Woodard Calf Starter (6-26-58)	F		meets guarantee		
D 3498		Woodard Pig Pusher Medicated (6-26-58)	C		0.025		
D 3492		Woodard Pig Pusher Medicated (6-26-58)	F		0.050		
D 3492		Woodard 40% Swine Finisher Supplement Medicated (6-26-58)	C		0.04		
D 3491		Woodard 40% Swine Finisher Supplement Medicated (6-26-58)	F		0.04		
D 3491		Woodard Sow and Pig Supplement Med. (6-26-58)	C		0.03		
D 3490		Woodard Sow and Pig Supplement Med. (6-26-58)	F		0.03		
D 3490		Woodard 26% Egg Balancer (6-26-58)	C		0.012		
D 3489		Woodard 26% Egg Balancer (6-26-58)	F		meets guarantee		
D 3489		Woodard 32% Layer Concentrate (6-26-58)	C		0.016		
D 3489		Woodard 32% Layer Concentrate (6-26-58)	F		meets guarantee		
D 3496		Woodard Super Quality Pig Pre-Starter Medicated (6-26-58)	C		0.05		
D 3496		Woodard Super Quality Pig Pre-Starter Medicated (6-26-58)	F		0.037		

D 3497	Woodard Pig Supplement Medicated (6-26-58)	C F		0.05 0.05		
D 4894	Yoder Feed Mill, Inc., Kalona, Iowa	C F	0.01 0.01	0.070 0.07		
D 4809	Yoders Medicated Swine Conditioner (11-3-58)	C F	0.01 0.01	0.0125 0.0062		
D 4821	Yoders Big Ham Hog Supplement Med. (11-3-58)	C F		0.02 0.01		
D 4819	Yoders 40% Big Y Supplement Med. (11-3-58)	C F	0.01 0.01			
D 2714	Yeisley Elevator, Victor, Iowa	C F		0.020 0.020		
D 5162	Sure Gro 29% Protein Sow and Pig Meal (11-3-58)	C F		0.020 0		
D 5163	Sure Gro Pig Grower Medicated (11-3-58)	C F	0.01125 0.01125			

VITAMIN ANALYSIS

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Ribo-flavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
D 4695	Aplington Grain & Milling Co. Aplington, Iowa	Aplington's Specific Swine Vitamin Mix #25 (11-10-58)	C F	60. 60.1	425.0 425.0	65.0 59.8	
D 5197	Arbie Mineral Feed Co., Marshalltown	Arbie Scooter Pip Hog Wormer Feed (12-2-58)	C	10.0	50.0	25.0	
D 2136		Arbie Scooter Pip Hog Wormer Feed (7-10-58)	F C F	11.1 10.0 11.5	75.0 50.0 56.0	29.0 25.0 24.0	
D 4483	Arnold Bros., Russell	Arnold's Vita-Mam 37% Chicken Concentrate Medicated (7-24-58)	C F	13.5 10.1	86.9 66.4	17.0 16.3	
D 1980	B & M Co., Inc., Fort Dodge	Perfect Circle Vita Lite (2-18-58)	C	125.0	160.0	30.0	
D 1978		Perfect Circle Poultry Starter and Grower Concentrate (2-18-58)	F C F	0.0 3.0 4.5	0.0 20.85 20.2	10.0	
D 2278	Baber's Vis Vita Sales, Inc., Sioux City	Hogs, Poultry & Calf Vis Vita (7-17-58)	C	30.0	100.0	20.0	
D 1265		Hogs, Poultry & Calf Vis Vita (3-7-58)	F C	38.1 30.0	104.0 100.0	20.6 20.0	
D 2445		Cattle & Sheep Vis-Vita (7-2-58)	F C	43.2 20.0	117.0	25.8 20.0	
D 1264		Cattle & Sheep Vis-Vita (3-7-58)	F C	23.0 20.0		12.0 20.0	
D 2446		Hogs, Poultry & Calf Vis-Vita (7-2-58)	F C	23.0 30.0 35.4		18.4 100.0 25.0	
D 5533	Big Chief Stock Powder Co. Omaha, Nebraska	Big Chief Vi-Tum-Ino Pre-Mix Medicated (9-23-58)	C F	121.0 122.0	582.0 599.4	166.00 265.60	
D 162	Big Gain Products West Union, Iowa	Big Gain 35% Brood Sow Supplement (12-10-57)	C F	2.5 3.0	20.0 20.0	6.0 6.5	

D 163	Rumen Organism Mix Inc., In Big Gain Special Beef (A) Supplement (12-10-57)	C F	7.5 1.6	80.0 8.0	50.0 8.5	
D 167	Big Gain 26% Poultry Cafeteria (12-10-57)	C F	3.5 4.2	38.0 42.0	9.0 11.2	
D 168	Big Gain 41% Hog Supplement (12-10-57)	C F	2.0 3.0	15.0 19.6	9.0 6.1	
D 172	Big Gain Mor-Lass Cattle Pellets (12-10-57)	C F	0.8 1.4	9.0 10.7	3.8 4.6	
D 2358	Big Gain Stock Food (11-26-58)	C F	1.5 4.0	20.0 24.0	10.0 6.6	
D 2359	Big Gain 35% Brood Sow Supplement (11-26-58)	C F	2.5 4.0	2.5 12.5	6.0 6.6	0.050 0.022
D 2360	Big Gain 41% Hog Supplement (11-26-58)	C F	2.0 3.0	15.0 20.4	9.0 4.3	
D 2361	Big Gain 32% Poultry Concentrate (11-26-58)	C F	5.0 6.1	57.0 43.3	13.5 14.3	
D 1262	Punch No. 1 A Vitamin B12 And Antibiotic Feed Supplement (3-11-58)	C F				1.500 1.500
D 2365	Big Gain 20% Egg Maker (11-26-58)	C F	2.5 2.7	27.0 32.4	7.5 8.4	
D 2366	Big Gain 26% Poultry Cafeteria (11-26-58)	C F	3.5 5.8	38.0 53.2	9.0 14.3	
D 2369	Big Gain Pig And Sow Ration (11-26-58)	C F	2.0 3.6	17.0 22.1		
D 2370	Big Gain Pig Starter Grower Medicated (11-26-58)	C F	3.5 4.9	13.0 18.2	20.00 5.00	
D 220	The Borden Co-Special Products Division, New York, N.Y.					
	Borden's MF-FL Blend Poultry Feed Supplement (12-13-57)	C F	45.0 40.1	140.0 152.0	80.0 80.0	
D 2269	Brinkert Feed Company Hartley, Iowa					
	Brinkert Pig Starter & Grower Supplement Medicated (7-14-58)	C F	14.2 20.2	60.0 45.0	22.4 26.2	
D 2265	Brinkert Dry Lot Hog Supplement Medicated (7-14-58)	C F	12.2 8.4	45.7 36.0	20.6 21.0	
D 29	City Mills Guthrie Center, Iowa					
	Super Quality Baby Pig Starter (6-24-58)	C F	5.9 8.0	39.0 24.2	9.4 10.3	
D 33	Superfortified 35% "Hi Quality" Hog Supplement Medicated (6-24-58)	C F	5.0 5.1	24.0 34.0	10.0 11.0	

COMMERCIAL FEEDS

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C OR F	Milligrams per pound			
				Ribo- flavin	Niacin	d-Panto- thenic Acid	Vitamin B <sub>12</sub>
E 9701	Clinton Corn Processing Company Clinton, Iowa	Clinton C F S Concentrate No. 3 (12-8-57)	C	10.0	100.0	20.0	
			F	14.2	170.0	22.0	
D 2053	Clover Leaf Products, Inc. Belle Plaine, Iowa	Clover Leaf Hog Concentrate Medicated (5-29-58)	C	26.0	130.0	112.0	
			F	36.4	130.0	33.0	
D 2054		Clover Leaf "57-A" Pig Starter Medicated (5-29-58)	C	20.28	60.0	15.0	
D 2750		Clover Leaf 28% Laying Mash (5-29-58)	F	24.0	33.6	14.7	
D 2749		Clover Leaf Pig Grower Medicated (5-29-58)	C	6.0	25.49	7.63	
			F	7.6	29.5	8.1	
D 529	Consumers Cooperative Ass'n Kansas City, Mo.	Coop Open Formula Pig Feed Fortifier Medicated (4-3-58)	C	20.6	31.0	6.5	
			F	26.5	30.9	8.4	
D 1943		Coop Poultry Layer Balancer (3-26-58)	C	50.0	300.0	100.0	
			F	85.0	327.0	100.0	
D 1999		Coop Hog Mixing Balancer (3-26-58)	C	40.0	250.00	40.00	
			F	56.0	335.0	44.40	
D 2000		Coop Poultry Mixing Balancer (3-26-58)	C	40.0	300.0	100.0	
			F	76.0	510.0	139.0	
D 6153		Coop Open Formula Sow Feed Fortifier Medicated (11-18-58)	C	50.0	250.0	50.0	0.530
			F	51.5	195.0	52.0	0.048
D 543	Dawe's Laboratories, Inc. Chicago, Ill.	Dawe's Vitamelk (4-21-58)	C	50.0	300.0	100.0	
			F	50.0	195.0	90.0	
D 970		Dawe's Vitamelk Multi-Vitamin Fortifier (D.V. Base) (7-31-58)	C	40.0	400.0	160.0	
			F	45.2	448.0	160.0	
D 5006	Evergreen Hatchery Dysart, Iowa	Evergreen 40% Pig & Shoat Concentrate Medicated (7-22-58)	C	31.75	180.0	66.0	0.150
			F	33.60	172.6	58.7	0.135
			C	6.1	43.7	8.0	
			F	6.0	51.5	8.2	

D 5007	Evergreen 37% Cafeteria Chicken Supplement Medicated (7-22-58)	C F	7.2 8.2	47.9 62.4	9.84 10.80	
D 7578	Farmcraft Feeds, Inc. Des Moines, Iowa	C F	60.0 72.0	500.0 435.0	100.00 20.00	
D 7579	Vitamin Base H (12-18-58)	C F	70.0 92.4	500.0 182.5	80.00 61.00	
D 7584	Power—House Antibiotic And B-Complex Vitamin Premix Medicated (12-18-58)	C F	200.0 214.0	550.0 407.0	200.00 210.00	1.20 1.08
D 7591	I'ern Shotts (12-18-58)	C F	0.4 0.8	32.0 13.7		
D 7592	Y C M (12-18-58)	C F	0.50 0.34	80.0 0.048	1.00 2.40	
D 7593	B-M (Blended Mineral) (12-18-58)	C F	40.00 30.80			
E 7037	Feed-Rite Products Co., Chicago, Ill.	C F	15.00 17.10	198.0 228.0	15.0 21.0	
D 1706	Feed Specialties, Inc. Des Moines, Iowa	C F	500.0 500.0	2,500.0 2,525.0	1,000.0 680.0	
D 3652	(3-4-58)	F	575.0	2,525.0	810.0	
D 3653	"Plus" Poultry Feed Foundation Premix (3-4-58)	C F	380.0 406.6	2,000.0 2,020.0	400.0 400.0	
D 3654	4.4% Iodinated Caesin Mixture (3-4-58)	C F	240.0 247.0	1,000.0 1,000.0	1,000.0 580.0	
D 3655	"Plus" Pig Feed Foundation Premix (3-4-58)	C F	90.0 90.9	700.0 637.0	160.0 160.0	
D 5248	Foxbilt, Inc. Des Moines, Iowa	C F	4.0 10.0	5.0 9.0	2.0 4.0	
D 1627	G. L. A. Products Co. Monticello, Iowa	C F	300.0 330.0	1500.0 1560.0	600.0 504.0	
D 1628	G.L.A. Beef Premix Medicated (2-27-58)	C F	100.0 113.0	450.0 454.0	100.0 52.0	
D 1629	G.L.A. Poultry Premix Medicated (2-27-58)	C F	400.0 444.0	2,000.0 2,040.0	600.0 288.0	
D 1630	G.L.A. Dairy Premix Medicated (2-27-58)	C F	100.0 110.0	450.0 464.0	100.0 101.0	

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Ribo-flavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
D 3752	Gallard-Schlesinger Chemical Mfg. Corp., Long Island City, New York	Niacin U.S.P. (4-4-58)	C F		100.0 100.0		
D 3033	Garnavillo Mill, Brandt Bros. Garnavillo, Iowa	Silver Mill Pork Booster Medicated (7-28-58)	C F	52.0 61.3	315.0 345.6	52.0 42.1	
D 215	Geerlings Feed Mills, Inc. Waterloo, Iowa	Geerlings Swine Premix (12-13-57)	C F	12.0 16.7	105.0 70.4	23.0 27.0	
D 1989	Golden Sun Milling Co. Estherville, Iowa	Golden Sun Regular Pre-Starter Medicated (3-21-58)	C F	4.0 6.5	32.0 32.3	8.250 8.300	0.0200 0.0360
D 1990		Golden Sun Pig Starter Supplement Medicated (3-21-58)	C F	4.7 7.1	30.0 32.4	7.300 7.700	0.0145 0.0260
D 1992		Golden Sun 40% Mineral & Protein Hog Concentrate (3-21-58)	C F	7.0 10.8	41.0 41.0	12.40 12.50	0.0300 0.0480
D 6174		Golden Sun 40% Mineral & Protein Hog Concentrate (12-4-58)	C F	7.00 8.40	41.0 53.3	12.40 13.20	
D 6180		Golden Sun All Mash Laying Ration (12-18-58)	C F	1.90 1.90	21.0 24.3	5.50 6.70	
D 6181		Golden Sun Special Dry Lot Mineral & Protein Concentrate Medicated (12-18-58)	C F	8.80 9.40	48.25 62.80	12.75 14.40	
D 6186		Golden Sun Egg & Breeder Supplement Mash (12-18-58)	C F	3.20 4.10	23.80 32.60	6.75 8.70	
D 6189		Golden Sun 16% Pig Gro-Pep Medicated (12-18-58)	C F	3.30 4.20	25.00 25.00	6.00 7.60	
D 6190		Golden Sun 36% Eggmash Maker (12-18-58)	C F	6.50 9.10	33.00 39.60	6.50 7.60	
D 6191		Golden Sun 27% Poultry Grain Balancer (12-18-58)	C F	4.50 5.40	30.00 48.00	6.50 8.40	
D 515	Hawarden Feed Mill Hawarden, Iowa	Scroggs 35% Sow & Pig Concentrate Medicated (12-18-58)	C F	20.00 2.00	40.00 15.20	8.00 8.80	0.015 0.016



D 518	Scroggs 35% Sow & Pig Concentrate (2-26-58)	C F	20.00 2.00	40.00 25.20	8.00 8.00	0.015 0.016
D 506	Hess Buttermilk Co. Dyersville, Iowa	C F F	5.00 3.50 5.70	5.00 1.95 2.50		
E 2614						
D 5012	Hoosier Mineral Feed Co. Greenwood, Indiana	C F	160.0 137.6	1000.0 1250.0	147.0 157.5	
D 739	Hubbard Milling Co. Mankato, Minn.	C F	200.0 236.0	200.0 262.0	100.0 110.0	
D 3759	Hubbard's Sunshine Calf Pre-Starter (4-8-58)	C F	14.0 26.6			
D 4697	Hubbard's Sunshine Swine Premix Medicated (11-10-58)	C F	15.0 18.0	150.0 198.0	27.60 28.30	
E 7273	Hubbard's Sunshine Swine Premix Medicated (7-1-58)	C F	15.0 14.5	150.0 185.0	28.00 29.10	
D 93	Huber Yeast Products Co. Waterloo, Iowa	C F	10.00 12.00	70.00 87.00	23.00 17.70	0.050 0.050
D 95	Ration Builder (12-9-57)	C F	60.00 62.40	200.0 240.0	147.0 88.2	
D 1254	Inter State Chemical Co. Charles City, Iowa	C F	165.0 215.0	750.0 885.0		
D 1455	Iowa Milling Co. Cedar Rapids, Iowa	C F	20.0 2.0	40.0 13.0	8.00 8.40	
D 1111	Kaufman Feed and Grain Stanley, Iowa	C F	3.6 4.7	28.0 28.0	6.20 4.70	
D 1112	Kaufman Vita-Mam Pig Concentrate (4-1-58)	C F	11.3 9.4	74.6 63.8	13.4 8.4	
D 1114	Kaufman Vita-Mam Cattle Concentrate (4-1-58)	C F	4.0 4.0	28.0 26.8	6.9 7.5	

COMMERCIAL FEEDS

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Riboflavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
D 1115	Kaufman Feed and Grain Stanley, Iowa—Continued	Kaufman Vita-Mam Hog Concentrate Medicated (4-1-58)	C F	6.1 7.6	43.7 48.0	8.0 7.0	
D 1122		Kaufman Vita-Mam Pig Concentrate Medicated (4-1-58)	C F	11.3 13.3	74.6 70.5	13.4 11.8	
D 7164	Kent Feeds, Inc., Muscatine, Iowa	Kent Golden K Pig & Sow 35 Medicated (11-28-58)	C F	10.0 11.10	75.0 105.0	22.00 23.50	
D 3667	Kidman's Standard Stock Powder Co., Inc., Des Moines, Iowa	Kidman's Ad-E-Lite (3-18-58)	C F	150.00 151.50			
D 5304	Life Guard Feed Products Co. Des Moines, Iowa	Life Guard Antibiotic Mixture Inc., In Grofactor (7-21-58)	C F	40.0 32.8	256.0 278.0		
D 1433	Lilly Agricultural Products Indianapolis, Ind.	Vitamin B <sub>12</sub> Supplement (12-5-57)	C F				10.0 6.0
D 5092	Lynnville Mill & Power Lynnville, Iowa	Old Mill 37% Cafeteria Chicken Supplement Medicated (8-21-58)	C F	8.0 13.7	50.0 75.0	8.0 17.6	
D 1954	Dr. MacDonald's Vitamized Feed Co., Inc., Fort Dodge, Iowa	Dr. MacDonald's Vy-Tab-O-Lator Super Beef (1-23-58)	C F		160.2 132.8		
D 1959		Dr. MacDonald's Thrif-T-Hog Swine Concentrate Medicated (1-23-58)	C F	11.0 14.6	43.7 54.7	19.0 22.0	
D 1960		Dr. MacDonald's Thrif-T-Beef 40-A Medicated (1-23-58)	C F		21.0 28.4		
D 3763		Dr. MacDonald's 0.0022% D.E.S. Mixture Inc., In Thrif-T-Beef Prime-40 Medicated (4-4-58)	C F		21.0 25.2		
D 1967		(1-23-58)	F		25.6		

D 3764	Dr. MacDonald's Thrif-T-Hog Pig Care Pre-Starter Medicated (4-4-58)	C	10.0	43.0	18.0	
		F	8.7	15.4	12.0	
D 1965	(4-4-58)	F	5.0	13.5	10.6	
D 1966	Dr. Macdonald's "Medicated" Thrif-T-Hog "A" Swine Concentrate (1-23-58)	C	22.0	87.0	38.0	
		F	32.8	95.7	43.7	
D 1968	Dr. Macdonald's 0.0022% D.E.S. Mixture Inc., In Thrif-T-Beef 40-S (1-23-58)	C		21.0		
		F		24.8		
D 3762	(4-4-58)	F		23.9		
D 1969	Dr. Macdonald's Thrif-T-Hog Pig Care Pre-Starter "Medicated" (1-23-58)	C	10.0	43.0	18.0	
		F	5.0	8.8	15.8	
D 3754	Dr. Macdonald's Vy-Tab-O-Lator Super Beef (4-4-58)	C		160.2		
		F		153.6		
D 3765	Dr. Macdonald's Thrif-T-Beef 40-A Medicated (4-4-58)	C		21.0		
		F		21.0		
D 3427	McMillen Feed Mills Des Moines, Iowa	C	2.5	20.0	5.00	
	Master Mix Dogburger (11-12-58)	F	2.4	20.0	5.90	
E 7752	M & M Livestock Products Co. Eagle Grove, Iowa	C	17.0	110.0	17.0	0.100
	M & M Travite for Swine (9-17-57)	F	27.2	116.0	23.8	0.120
D 2564	Merck & Company, Inc. Rahway, New Jersey	C		20,000.0	3,680.0	
	No. 95 Vitamin Mixture (11-10-58)	F		19,700.0	3,700.0	
D 7545	Milligan & Son, Inc. Sioux City, Iowa	C	12.0	40.0	24.0	
	Milligan's Mill-O-Vita All Purpose Supplement Medicated (12-12-58)	F	12.4	52.0	24.0	
E 9005	Minrulax, Inc. Council Bluffs, Iowa	C	100.0	500.0	200.0	
	Minrufac Antibiotic And Vitamin Supplement (2-20-58)	F	130.0	600.0	160.0	
D 1255	Myzon, Inc. Chicago, Ill.	C	400.0	1000.0		
	Myzon Swine Builder (3-7-58)	F	448.0	1190.0		
D 1256	Myzon Poultry Builder (3-7-58)	C	160.0	640.0		
		F	152.0	538.0		
D 1257	Myzon Giant Growth Powder (3-7-58)	C	150.0	1000.0		
		F	189.5	1020.0		

COMMERCIAL FEEDS

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Riboflavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
D 2210	Nixon & Company Omaha, Nebraska	Nixon's Medicated Feed Mixture (6-26-58)	C	7.5	48.0	17.5	
D 5922		Nixon's Medicated Feed Mixture (9-22-58)	F	8.8	72.0	21.3	
E 8956		Nixon's Medicated Feed Mixture (11-29-57)	C	7.5	48.0	17.5	0.020
			F	8.3	57.6	22.0	0.030
D 1861	Nopco Chemical Co. Harrison, New Jersey	D1 Calcium Pantothenate-U.S.P. (3-24-58)	C				
D 1862		(3-24-58)	F			40.9	
			F			41.5	
D 1269	Northwestern Distributing Co., Inc. Mason City, Iowa	Mor-Gain Swine A-V Concentrate (3-18-58)	C	496.0	2760.0	460.0	
D 1270		Mor-Gain Poultry A-V Concentrate (3-18-58)	F	496.0	3250.0	409.4	
			C	400.0	2400.0	400.0	
			F	420.0	2472.0	280.0	
E 3319	Al Nuzum Supply Co. Baxter, Iowa	Ansco Starter & Broiler Mash Medicated (4-2-58)	C	3.2	17.75	6.5	
E 3320		Ansco 16% Hi-Lay Breeder Medicated (4-2-58)	F	5.1	21.10	8.2	
E 3324		Ansco 24% No-Skour Calf Starter (4-2-58)	C	2.6	18.00	7.0	0.003
E 3325		Ansco Pig Forty (4-2-58)	F	3.2	21.40	7.4	0.006
E 3330		Ansco 45% Hog & Breeder Mixentrate (4-2-58)	C				0.020
E 3331		Ansco 16% Pig Pusher (4-2-58)	F	9.5	60.00	7.0	0.034
E 3332		Ansco 26% Layer & Breeder Mash (4-2-58)	C	11.2	60.60	16.9	0.050
E 3334		Ansco Pig-E-Pep Medicated (4-2-58)	F	11.5	73.00	24.0	0.074
E 3335		Ansco 16% Fat-KWIK Medicated (4-2-58)	C	12.2	75.20	22.1	0.042
			F	3.0	30.00	7.5	0.071
			C	3.7	29.70	5.6	0.012
			F	5.0	30.00	7.3	0.019
			C	6.5	33.90	9.4	
			F	5.0	35.00	9.0	0.020
			C	5.0	36.40	9.0	0.043
			F	3.0	37.00	7.5	0.013
			C	3.9	37.00	7.5	0.025

E 3337	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 40% Poultry Mixer.....	C	6.4	80.00	11.0	.....	.....	.....
		(4-2-58)	F	9.6	40.80	8.6	.....	.....	.....
E 3338	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 36% Breeder Weaner Concentrate	C	10.0	60.0	20.0	0.030	.....	.....
		Medicated	F	8.0	49.8	16.7	0.044	.....	.....
		(4-2-58)	.....	.....	.....	.....	.....	.....	.....
E 3339	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 42% Hog Supplement Medicated.....	C	6.0	40.0	13.0	0.032	.....	.....
		(4-2-58)	F	6.1	34.0	10.4	0.048	.....	.....
D 5165	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 26% Layer & Breeder Mash.....	C	5.0	30.0	7.3	.....	.....	.....
		(11-5-58)	F	5.2	35.0	8.7	.....	.....	.....
D 5166	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 40% Poultry Mixer.....	C	6.4	80.0	11.0	.....	.....	.....
		(11-5-58)	F	6.4	40.8	5.6	.....	.....	.....
D 5169	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 16% Pig Pusher Medicated.....	C	3.0	30.0	7.5	.....	.....	.....
		(11-5-58)	F	2.8	27.9	6.6	.....	.....	.....
D 5174	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 16% Pig Pusher.....	C	3.0	30.0	7.5	.....	.....	.....
		(11-5-58)	F	3.1	30.0	8.2	.....	.....	.....
D 5186	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco 42% Hog Supplement Medicated.....	C	6.0	40.0	13.0	.....	.....	.....
		(11-5-58)	F	4.7	36.8	13.0	.....	.....	.....
D 5187	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Anasco Chick Mixer Medicated.....	C	9.4	51.0	13.0	.....	.....	.....
		(11-5-58)	F	7.6	33.2	10.6	.....	.....	.....
D 240	Oelwein Chemical Co., Inc. Oelwein, Iowa	.....	.....	.....	.....	.....	.....	.....	.....
		Occo Baby Pig Starter Medicated.....	C	5.0	25.0	12.5	.....	.....	.....
		(2-26-58)	F	5.8	31.0	11.8	.....	.....	.....
D 682	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Occo Medicated Baby Pig Starter.....	C	5.0	25.0	12.5	0.015	.....	.....
		(12-20-57)	F	5.6	25.0	15.6	0.019	.....	.....
D 7137	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Occo Baby Pig Starter Medicated.....	C	5.0	25.0	12.5	.....	.....	.....
		(12-2-58)	F	6.3	34.5	14.6	.....	.....	.....
D 7139	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Occo Calf Pellets Medicated.....	C	5.0	25.0	12.5	.....	.....	.....
		(12-2-58)	F	5.0	28.5	15.9	.....	.....	.....
D 2566	Chas. Pfizer & Co., Inc. Chicago, Ill.	.....	.....	.....	.....	.....	.....	.....	.....
		6+ Bi-Con 6+ Vitamin B12 Supplement.....	C	.....	.....	.....	6.0	.....	.....
		(11-10-58)	F	.....	.....	.....	6.7	.....	.....
D 5324	Pioneer Laboratories, Inc. Des Moines, Iowa	.....	.....	.....	.....	.....	.....	.....	.....
		Pio-Lak Vim 18% Protein Pig Starter	C	7.0	32.50	10.1	.....	.....	.....
		Medicated	F	8.8	42.90	10.1	.....	.....	.....
		(7-22-58)	.....	.....	.....	.....	.....	.....	.....
D 5326	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Pio-Lak Multi-Vim Swine & Poultry	C	40.0	400.00	80.0	.....	.....	.....
		Antibiotic & Vitamin Supplement.....	F	48.0	496.00	51.2	.....	.....	.....
		(7-22-58)	.....	.....	.....	.....	.....	.....	.....
D 5328	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Pio-Lak Pow-R-Pak Swine & Poultry	C	20.0	200.00	40.0	.....	.....	.....
		Antibiotic, Vitamin and Mineral	F	13.4	144.00	17.6	.....	.....	.....
		Supplement	.....	.....	.....	.....	.....	.....	.....
		(7-22-58)	.....	.....	.....	.....	.....	.....	.....
E 3350	Pippert Grain & Milling Co. Gladbrook, Iowa	.....	.....	.....	.....	.....	.....	.....	.....
		Pippert's Special 32% Poultry Supplement.....	C	.....	.....	.....	0.0080	.....	.....
		(4-7-58)	F	.....	.....	.....	0.0086	.....	.....

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Riboflavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
D 3685	Powers Feed Mill Bagley, Iowa	Powers Pre-Mix (3-19-58)	C	30.0	100.0	30.0	0.0390
			F	40.2	185.0	35.7	0.0550
D 1259	Ray-Vitam Products Co. Waseca, Minn.	Ray Vitam "400" Vitamin Supplement (3-11-58)	C	200.0	300.0		
			F	236.0	495.0		
D 1260		Ray-Vitam Super-Lift Antibiotic & Vitamin Supplement (3-11-58)	C	190.0	1200.0		
			F	256.7	1430.0		
D 989	Reid Feeds Manilla, Iowa	Reid's 37% Cafeteria Chicken Supplement Medicated (8-14-58)	C	9.45	64.50	12.96	
			F	5.00	32.80	4.50	
D 4590	J. Roach Sons, Inc. Plainfield, Iowa	Master Calf Producer (10-1-58)	C	1.25	13.5	5.00	
			F	1.37	19.4	6.07	
D 2120	S & O Products, Inc. Marshalltown, Iowa	So-Rite Horse Supplement (7-7-58)	C	500.0			
			F	450.0			
D 2123		So-Rite Hog Mineral Medicated "B" (7-7-58)	C	6.0	27.0	12.0	
			F	8.5	29.7	10.1	
D 2125		So-Rite Special Cattle & Sheep Mineral (7-7-58)	C	2.0	5.0	2.0	
			F	3.2	7.5	2.4	
D 2127		So-Rite Hog Mineral (7-7-58)	C	6.0	27.0	12.0	
			F	6.4	31.1	10.4	
D 2003	Standard Chemical Mfg. Co. Omaha, Nebraska	Standard's 36% Dairy Cow Stanatrate (8-14-58)	C	8.437			
			F	9.900			
D 2005		Standard's 32% Pig-Grower Stanatrate Medicated (8-14-58)	C	3.00			
			F	5.50			
D 2006		Standard 41% Poultry Stanatrate Medicated (8-14-58)	C	4.54			
			F	9.00			

D 2007	Standard 40% Cattle Stanatrate Medicated (8-14-58)	C F	8.4370 11.3			
D 2008	Standard 40% Hog Stanatrate Medicated (8-14-58)	C F	5.675 6.400			
D 2297	Standard 30% Feed Balancer Medicated (8-14-58)	C F	3.78 6.00			
D 2298	Standard 0.0022% D.E.S. Mix Inc. In Steer Stanatrate (8-14-58)	C F	4.80 7.00			
D 2299	Standard 20% Creep Feed with Hygromycin Medicated (8-14-58)	C F	3.00 6.50	20.0 23.0	3.0 6.5	
D 4718	Standard 40% Hog Stanatrate Medicated (8-15-58)	C F	5.675 12.00			
D 4719	Standard's 32% Pig-Grower Stanatrate Medicated (8-15-58)	C F	3.00 4.70			
D 756	Strommen Manufacturing Co. Forest City, Iowa					
	Strommen Quality Gro-Faster Compound Concentrate (5-6-58)	C F	200.0 164.0	900.0 918.0	368.0 164.0	
D 757	Strommen Quality Vitamin Compound (5-6-58)	C F	200.0 212.0	200.0 340.0	184.0 225.0	
D 694	Supersweet Feeds, Div. of International Milling Co., New Ulm, Minn.					
	Supersweet Calf Milk Replacer Animal Feed (12-26-57)	C F	4.0 12.0	5.0 13.5	2.0 8.0	
D 5931	Supersweet Mixmaker (Swine) Medicated (9-24-58)	C F	26.0 24.0	167.0 187.0	126.0 114.0	
D 1427	The Tanvilac Co., Inc. Des Moines, Iowa					
	Shur-Gain Vitamin-Antibiotic Supplement (12-5-57)	C F	200.0 320.0	400.0 700.0	360.0 396.0	0.400 0.420
D 5076	Vinton Farmers Supply, Inc. Vinton, Iowa					
	Vinton Farmers Antibiotic & 3-Nitro Mixture (8-18-58)	C F	10.0 12.0	42.4 49.4	17.9 18.7	
D 1263	Vita+Plus Corp. Madison, Wisconsin					
	Vita+ Plus Super Layer Base (3-11-58)	C F	115.0 125.0	340.0 373.0	130.0 102.4	
D 2165	Vita-Con Sales Co. Fort Worth, Texas					
	Vita-Con (10-31-58)	C F	31.0 31.6	185.0 211.6	41.4 43.8	

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Ribo-flavin	Niacin	d-Panto-thenic Acid	Vitamin B <sub>12</sub>
D 670	Vit-A-Way, Inc. Fort Worth, Texas	Vit-A-Way Mineral-Vitamin Supplement (12-13-57)	C		30.0		
D 542		(4-21-58)	F		34.5		
			F		33.9		
D 253	Vylactos Laboratories, Inc. Des Moines, Iowa	Starter-Broilers Dyna-Base Medicated (1-27-58)	C	80.0	400.0	120.0	
D 254		Pig Starters Medicated (1-27-58)	F	88.0	720.0	76.8	
			C	130.0	400.0	160.0	
D 255		Layers Medicated (1-27-58)	F	136.5	544.0	200.0	
			C	40.0	300.0	80.0	
D 256		MyTMix For Turkeys Antibiotic and Vitamin Supplement (1-27-58)	F	66.0	438.0	92.0	
			C	800.0	4000.0	1600.0	
D 257		MyTMix-Pig Pusher Antibiotic & Vitamin Supplement (1-27-58)	F	872.0	4560.0	1600.0	
			C	600.0	6100.0	600.0	
D 258		MyTMix For Starter Broiler Antibiotic & Vitamin Supplement (1-27-58)	F	672.0	7900.0	600.0	
			C	600.0	4000.0	600.0	
D 259		MyTMix For Layer Breeder Vitamin Supplement (1-27-58)	F	672.0	4400.0	642.0	
			C	500.0	3000.0	500.0	1.0
D 260		MyTMix For Swine Antibiotic & Vitamin Supplement (1-27-58)	F	590.0	4410.0	585.0	1.0
			C	400.0	2000.0	800.0	
D 1450		Swine Finishers Medicated (3-3-58)	F	448.0	2500.0	880.0	
			C			500.0	
D 3651		Starter-Broilers Medicated (3-3-58)	F			450.0	
			C			120.0	
D 251		Turkeys Medicated (1-27-58)	F			138.0	
			C	80.0	800.0	80.0	
D 252		Swine Finishers Medicated (1-27-58)	F	121.6	816.0	99.2	
			C	250.0	1200.0	500.0	
			F	272.5	1320.0	330.0	
D 475	Walnut Grove Products Co., Inc. Atlantic, Iowa	Walnut Grove "4x4" Poultry Concentrate (12-5-57)	C	5.5	55.0		15.0
			F	5.6	55.0		13.5



D 477	Walnut Grove Medicated "4x4" Cattle Specific (12-5-57)	C F	2.0 3.2	18.0 19.5	6.50 7.2	0.005 Meets Guarantee
D 478	Walnut Grove "4x4" Automatic Pig Grower (Supplement) Medicated (12-5-57)	C F	9.0 15.4	58.0 59.6	23.0 21.8	0.032 0.032
D 480	Walnut Grove "4x4" Ruminant Conditioner Medicated (12-5-57)	C F	2.0 4.0	20.0 22.0	5.0 6.5	0.010 0.025
D 482	Walnut Grove "4x4" Automatic Pig Grower (H) Medicated (12-5-57)	C F	2.5 4.2	22.0 22.0	7.5 7.8	0.008 0.012
D 483	Walnut Grove "4x4" Automatic Breeder-Finisher Hog Supplement (12-5-57)	C F	10.0 14.6	60.0 61.8	22.0 23.1	0.032 0.048
D 484	Walnut Grove "4x4" Automatic Pig Weaner Medicated (12-5-57)	C F	9.0 12.1	32.0 33.3	19.0 23.8	0.020 0.030
D 485	Walnut Grove "4x4" Super Calf Supplement (12-5-57)	C F	3.4 3.8	34.0 37.4	8.9 8.9	0.020 0.030
D 1174	Walnut Grove "4x4" Automatic Pig Grower (Supplement) Medicated (5-9-58)	C F	9.0 10.3	58.0 62.6	23.0 26.9	
D 1175	Walnut Grove "4x4" Chix (Complete Starter) Medicated (5-9-58)	C F	2.5 4.5	20.0 22.8	6.0 8.3	0.015 0.016
D 1176	Walnut Grove "4x4" Automatic Pig Grower (H) Medicated (5-9-58)	C F	2.5 4.0	22.0 22.0	7.5 8.5	0.008 0.012
D 1177	Walnut Grove "4x4" Automatic Breeder Hog Supplement (5-9-58)	C F	6.0 8.5	45.0 41.4	15.0 13.9	
D 1178	Walnut Grove "4x4" Automatic Finisher Hog Supplement (5-9-58)	C F	10.0 10.0	60.0 51.6	22.00 20.07	0.032 0.035
D 1180	Walnut Grove "4x4" Poultry Concentrate (5-9-58)	C F	5.5 6.3	55.0 47.3	15.0 12.7	0.240 0.270
D 1181	Walnut Grove "4x4" Poultry Balancer 26% Protein (5-9-58)	C F	3.5 5.2	35.0 35.0	10.0 13.8	0.014 0.021
D 1183	Walnut Grove "4x4" Starter-Grower Concentrate Medicated (5-9-58)	C F	6.0 10.9	40.0 40.0	15.0 16.9	
D 1185	Walnut Grove "4x4" Turkey Pre-Starter (nf-180) Medicated (5-9-58)	C F	3.4 4.3	46.0 34.9	9.5 9.5	

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Ribo-flavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
D 2923	Walnut Grove Products Co., Inc. Atlantic, Iowa	Walnut Grove 0.022% Iodinated Casein Mixture Inc. In Automatic Sow Complete	C F	3.0 5.7	30.0 57.0	10.0 20.1	
D 3502		Walnut Grove "4x4" Poultry Balancer 26% Protein	C F	3.5 5.2	35.0 34.5	10.0 12.3	0.014 0.016
D 3503		Walnut Grove "4x4" Automatic Breeder Hog Supplement	C F	6.0 10.2	45.0 48.2	15.0 15.0	0.025 0.031
D 3505		Walnut Grove "4x4" Starter-Grower Concentrate Medicated	C F	6.0 6.8	40.0 43.6	15.0 14.4	0.017 0.022
D 3506		Walnut Grove "4x4" Super Calf Supplement	C F	3.4 5.1	34.00 29.40	8.9 9.7	0.020 0.034
D 3507		Walnut Grove Medicated "4x4" Cattle Specific	C F	2.0 4.0	18.00 17.28	6.5 6.8	
D 3508		Walnut Grove 0.022% Iodinated Casein Mixture Inc. In "4x4" Automatic Sow Complete	C F	3.0 4.1	30.00 27.70	10.0 12.3	
D 3511		Walnut Grove "4x4" Automatic Pig Grower (H) Medicated	C F	2.5 3.3	22.00 20.20	7.5 8.1	0.008 0.010
D 3515		Walnut Grove "4x4" Automatic Pig Grower (Supplement) Medicated	C F	9.0 16.4	58.00 52.80	23.0 23.5	0.032 0.035
D 3516		Walnut Grove 0.11% Iodinated Casein Mixture Inc. in "4x4" Automatic Sow Supplement	C F	10.0 12.2	80.00 80.00	34.0 35.1	0.025 0.028
D 3517		Walnut Grove "4x4" Poultry Concentrate	C F	5.5 3.0	55.00 31.90	15.0 15.3	
D 3519		Walnut Grove "4x4" Automatic Finisher Hog Supplement Medicated	C F	10.0 10.5	60.00 60.00	22.0 22.0	
D 3521		Walnut Grove "4x4" Automatic Pig Weaner Medicated	C F	9.0 10.6	32.00 31.00	19.0 24.1	

D 3522	Walnut Grove "4x4" Chix (Complete Starter) Medicated.....	C	2.5	20.0	6.0	0.015
	(3-24-58)	F	3.7	24.0	8.6	0.020
D 3523	Walnut Grove Vitamin & Antibiotic Dispersed in Fish Meal & Soybean Oil Meal.....	C	12.5	520.0	250.0	
	(3-24-58)	F	160.8	478.0	295.0	
D 3524	Walnut Grove "4x4" Mazmelk.....	C	12.0	26.0	19.0	
	(3-24-58)	F	18.0	26.8	27.5	
D 3525	Walnut Grove "4x4" Ruminant Conditioner Medicated.....	C	2.0	20.0	5.0	
	(3-24-58)	F	4.4	22.8	8.5	
E 7018	Walnut Grove "4x4" Chix (Complete Starter) Medicated.....	C	2.5	20.0	6.0	
	(2-20-58)	F	4.0	24.0	6.8	
E 7019	Walnut Grove "4x4" Automatic Pig Weaner Medicated.....	C	9.0	32.0	19.0	
	(2-20-58)	F	9.2	32.0	22.6	
E 7020	Walnut Grove "4x4" Automatic Finisher Hog Supplement Medicated.....	C	10.0	60.0	22.0	
	(2-20-58)	F	12.5	57.0	20.7	
E 7021	Walnut Grove "4x4" Automatic Pig Grower Supp. Medicated.....	C	9.0	58.0	23.0	
	(2-20-58)	F	9.3	58.0	21.7	
E 7022	Walnut Grove "4x4" Poultry Concentrate.....	C	5.5	55.0	15.0	
	(2-20-58)	F	6.6	55.0	12.4	
E 7068	Walnut Grove "4x4" Automatic Pig Grower (Supplement) Medicated.....	C	9.0	58.0	23.0	0.032
	(5-9-58)	F	13.1	61.5	23.7	0.040
E 7069	Walnut Grove "4x4" Automatic Finisher Hog Supplement Medicated.....	C	10.0	60.0	22.0	0.032
	(5-9-58)	F	12.2	62.4	22.0	0.040
E 7119	Walnut Grove "4x4" Automatic Pig Weaner Medicated.....	C	9.0	32.0	19.0	
	(10-15-58)	F	9.1	32.0	19.0	
E 7121	Walnut Grove "4x4" Automatic Pig Grower (H) Medicated.....	C	2.5	22.0	7.5	
	(10-15-58)	F	2.8	37.4	7.5	
E 7023	Walnut Grove "4x4" Automatic Pig Weaner Medicated.....	C	9.0	32.0	19.0	0.020
E 7066	(5-9-58)	F	9.2	30.0	24.1	0.030
E 7064	Walnut Grove "4x4" Automatic Pig Grower (H) Medicated.....	C	2.5	22.0	7.5	0.008
	(5-9-58)	F	3.1	24.2	7.5	0.012

COMMERCIAL FEEDS

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Riboflavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
E 7120	Walnut Grove Products Co., Inc. Atlantic, Iowa	Walnut Grove "4x4" Automatic Finisher Hog Supplement Medicated..... (10-15-58)	C F	10.0 9.9	60.0 60.0	22.0 21.5	..... .....
E 7243	.....	(6-4-58)	F	10.7	60.0	19.4	.....
E 7244	.....	Walnut Grove "4x4" Automatic Pig Grower Supplement) Medicated..... (6-4-58)	C F	9.0 10.4	58.0 60.9	23.0 23.5	..... .....
E 7246	.....	Walnut Grove "4x4" Automatic Pig Grower (H) Medicated..... (6-4-58)	C F	2.5 2.7	22.0 19.8	7.5 7.2	..... .....
E 9769	.....	Walnut Grove "4x4" Automatic Pig Weaner Medicated..... (12-2-57)	C F	9.0 10.4	32.0 32.0	19.0 22.8	0.020 0.030
E 9770	.....	Walnut Grove "4x4" Automatic Pig Grower (Supplement) Medicated..... (12-12-57)	C F	9.0 9.9	58.0 53.3	23.0 18.6	..... .....
E 9771	.....	Walnut Grove "4x4" Automatic Breeder- Finisher Hog Supplement..... (12-12-57)	C F	10.0 12.1	60.0 54.8	22.0 22.00	0.036 0.035
E 9773	.....	Walnut Grove "4x4" Poultry Concentrate..... (12-12-57)	C F	5.5 5.8	55.0 55.0	15.0 15.0	..... .....
E 9776	.....	Walnut Grove "4x4" Poultry Balancer 26% Protein..... (12-12-57)	C F	3.5 5.6	35.0 35.0	10.0 10.0	0.014 0.021
E 9778	.....	Walnut Grove "4x4" Automatic Pig Grower (H) Medicated..... (12-12-57)	C F	2.5 2.7	22.0 22.0	7.5 8.3	0.008 0.010
D 1173	Wapsie Valley Feed Company Independence, Iowa	Wapsie Egg Crumbles Medicated..... (5-9-58)	C F	3.0 5.3	27.0 28.1	6.0 7.9	..... .....
E 9779	.....	Wapsie Cafeteria Medicated..... (12-12-57)	C F	3.0 4.7	30.0 30.0	9.0 10.8	0.012 0.013
D 1182	.....	Wapsie Pullet Grower Medicated..... (5-9-58)	C F	1.1 2.2	15.0 13.6	5.0 5.1	0.007 0.012
D 1184	.....	Wapsie Layer Concentrate Medicated..... (5-9-58)	C F	4.0 4.8	48.0 47.5	12.0 14.0	..... .....
D 1186	.....	Wapsie Quick Starter Medicated..... (5-9-58)	C F	2.0 2.7	18.0 22.3	5.0 7.2	..... .....

D 1187	Wapsie Cafeteria (5-9-58)	C F	3.00 3.00	30.00 36.30	9.0 11.8	
D 4080	Warren Feed Co. Council Bluffs, Iowa	C F	4.30 4.00	25.60 23.30	8.40 6.70	
D 2186	Welco Feed Mfg. Co., Inc. Spencer, Iowa	C F	12.00 4.70			
D 2001	Wertz Feed Products Sioux City, Iowa	C F F	30.00 30.00 39.00	280.00 322.00 326.80	38.0 39.5 37.2	
D 2335						
D 3531	Western Condensing Company Appleton, Wisconsin	C F F	23.00 34.50 20.10			
E 8197						
E 7049	Jack White Hatcheries Farmington, Iowa	C F	1.98 2.40	18.52 11.90	6.11 4.90	0.0040 0.0059
E 7055		C F	3.20 5.10	27.8 19.9	8.80 9.00	0.0072 0.0110
E 7056		C F	2.90 2.93	26.5 24.4	6.70 6.70	0.0054 0.0095
D 3500	Floyd Woodard Feed Company Webster City, Iowa	C F	2.3 4.1	18.0 20.5	5.5 6.7	
D 3498		C F	3.0 3.7	16.0 16.0	6.0 7.1	
D 3492		C F	11.0 13.3	46.0 46.9	18.5 18.7	
D 3491		C F	7.5 10.0	38.0 47.5	10.0 10.2	
D 3490		C F	4.5 11.0	24.0 32.0	9.0 9.0	
D 3489		C F	6.0 7.5	29.0 34.0	10.0 11.4	

COMMERCIAL FEEDS

VITAMIN ANALYSIS—Continued

Lab. No.	Name and Address of Dealer	Brand Name	C or F	Milligrams per pound			
				Riboflavin	Niacin	d-Pantothenic Acid	Vitamin B <sub>12</sub>
D 3496	Floyd Woodward Feed Company Webster City, Iowa—Continued	Woodard Super Quality Pig Pre-Starter Medicated	C	4.8	20.0	9.5	
		(6-26-58)	F	6.0	26.0	9.9	
D 3497		Woodard Pig Supplement Medicated	C	11.7	46.0	20.5	
		(6-26-58)	F	15.4	46.9	21.8	
D 3494		Woodard Pig Supplement Medicated	C	11.7	46.0	20.5	
		(6-26-58)	F	14.0	48.3	16.6	
D 4807	Yoder Feeds, Inc. Kalona, Iowa	Yoders Pork King Complete Pig Grower Medicated	C	2.5	20.0	5.5	
		(11-3-58)	F	3.5	20.0	6.7	
D 4808		Yoders 46% Swine Concentrate	C	7.5	51.0	18.9	
		(11-3-58)	F	10.5	51.2	3.6	
D 4817		Yoders 20% Zingo Pig Pre-Starter Medicated	C	5.5	30.0	9.2	
		(11-3-58)	F	8.5	22.8	16.6	
D 4816		Yoders 0.022% Iodinated Casein Mix Inc. In Contented Sow Ration	C	2.5	20.0	8.2	
		(11-3-58)	F	2.5	20.0	4.7	
D 4819		Yoders 40% Big Y Supplement Medicated	C	5.0	10.0	18.4	
		(11-3-58)	F	4.9	16.6	6.4	
D 4821		Yoders Big Ham Hog Supplement Medicated	C	10.0	40.0	18.4	
		(11-3-58)	F	9.2	40.0	18.4	
D 4823		Yoders 32% Sow Supplement	C	8.0	54.0	27.6	
		(11-3-58)	F	9.1	56.1	27.6	
D 4827		Yoders Pig Zingos Medicated	C	5.0	30.0	7.6	
		(11-3-58)	F	3.4	25.2	7.0	
D 2714	Yeisley Elevator Victor, Iowa	Sure Gro 29% Protein Sow & Pig Meal	C	4.0	44.0	8.0	
		(4-29-58)	F	5.2	29.5	12.5	
D 2713		"Sure Gro" Pig Grower Medicated	C	12.0	45.0	19.0	0.030
		(4-29-58)	F	18.0	54.0	19.0	0.032
D 2715		"Sure Gro" 38½% Protein Hog Balancer	C	3.0	30.0	7.0	0.006
		(4-29-58)	F	4.2	19.2	7.8	0.007
D 5161		"Sure Gro" 38½% Protein Hog Balancer	C	3.0			
		(11-3-58)	F	2.5			
D 5162		Sure Gro 29% Protein Sow & Pig Meal	C	4.0	44.0	8.0	
		(11-3-58)	F	2.8	29.9	8.0	

D 5163	"Sure Gro" Pig Grower Medicated (11-3-58)	C F	12.00 12.40	45.00 39.60	19.00 5.60	
D 1985 Farmers Co-Operative Co. Farnhamville, Iowa	Co-op Hog Balancer (Dry Lot Type) (3-21-58)	C F	3.75 7.80	25.00 46.00	6.75 8.70	
D 1931 Farm Service Breda, Iowa	"Production-Feed" Super Pig Starter Medicated (2-27-58)	C F	4.20 2.50	26.00 26.80	8.30 9.90	0.020 0.022
D 1933	"Production-Feed" Super Dry Lot Balancer Medicated (2-27-58)	C F	12.00 14.40	46.00 47.80	20.60 16.20	0.040 0.054
D 1932	"Production-Feed" 26% Grain Balancer (2-27-58)	C F	3.90 5.20	18.60 23.10	5.70 6.70	0.010 0.019
D 1934	"Production-Feed" Sow Balancer (2-27-58)	C F	3.70 5.20	60.40 84.00	7.60 9.40	0.035 0.036
D 2333 Farmers Co-Operative Company Cleghorn, Iowa	Creep Feed (9-3-58)	C F	2.59 4.71	11.85 17.10	5.83 7.20	
D 3013 Farmers Shipping Association Dyersville, Iowa	F.S.A. Pig Starter Medicated (7-15-58)	C F	5.00 1.90		10.00 6.40	
D 3011	F.S.A. Pig Starter Concentrate (7-15-58)	C F	10.00 19.50	30.00 96.00	16.00 24.00	
D 3012	F.S.A. Pig Grower Concentrate Medicated (7-15-58)	C F	8.00 9.80	36.00 54.00	16.00 13.70	

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