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Commercial Feed Report

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COMMERCIAL FEED REPORT

The 1966 Iowa Feed Law is designed to provide the Iowa farmer and other producers with an assurance of efficient livestock production. It enables and enforces our Feed Manufacturers to comply with our rules and regulations and provides the purchaser with proper feed for their specific use.

Maximum efficiency and profit can be achieved only by a producer who follows a scientific cycle feeding program adopted to his needs. Therefore, the great increase in Feed Manufacturing has not been without its unique problems, and as the demands for greater and greater rates and efficiencies of production are required, they are faced also with subtle and complex problems.

Feed Manufacturers are involved today with a problem of supplying feed to farmers and other producers of food for human consumption, in an orderly manner. They must comply with laws and existing regulations. Their feed must be fed only in accordance with directions. They must use the utmost care with label listing of drugs, proteins, fats, fibers, minerals, vitamins, and chemicals at a guaranteed per cent, to preclude the possibility of these items becoming inadvertent contaminants of the nations food supply.

The State Law provides for Inspectors, as an authorized agent, to sample and inspect, Manufacturers, dealers and warehouses, all bulk shipment of feed and ingredients.

The laboratory makes analysis and tests of the commercial feeds and ingredients which have been secured by the inspector. The laboratory analysis report is as follows:

1970 LABORATORY RESULTS ON FEED SAMPLES

<u>DETERMINATION</u>	<u>SAMPLES TESTED</u>	<u>LOW</u>	<u>HIGH</u>
Protein	3,214	111	
Equiv. Protein from Urea	487		38
Fiber	2,721		84
Fat	938		
Calcium	1,060	30	34
Phosphorus	151	3	
Iodine	1		
Salt	1,010	47	68
Riboflavin	123	6	
Niacin	123	4	
d-Pantothenic Acid	65	1	
Penicillin	97	1	3
Chlortetracycline	238	5	
Oxytetracycline	41	3	1
Arsanilic Acid	75	12	
Furazolidine	30	2	
Nitrofurazone	3		
Bifuran	3		
Tylosin	67	2	1
Sulfamethazine	90	7	1
Vitamin A	43	2	
Iron	47		
Zinc	200	9	
Manganese	37		1
Copper	31	1	

1970 Laboratory Results On Feed Samples

<u>DETERMINATION</u>	<u>SAMPLES TESTED</u>	<u>LOW</u>	<u>HIGH</u>
Amprolium	2		1
Cobalt	12	1	
Potassium	1		
3 Nitro	2		1
Melangestrol	1		
NFL	1		
Zoalene	3		
Piperazine	29	1	1
Diethylstilbestrol	56		
Not Analyzed	9		

<u>DETERMINATION</u>	<u>SAMPLES TESTED</u>	<u>ADULTERATED</u>
Meat Meal Microscopy	32	25
Fish Meal Microscopy	2	2
Microscopy	3	1
Other Microscopy	4	4
Bird Food	2	2

STATE OF IOWA
FEED TONNAGE REPORT
LAST HALF 1969

The last day of January and July of each year, a semi-annual report of net tons of commercial feeds distributed in the State of Iowa must be submitted to the Iowa Department of Agriculture. The Inspection fee for the semi-annual report is ten cents per ton. If payment is not paid within ten days after the 31st of January and the 31st of July, a ten per cent penalty of the amount due shall be assessed against the distributor.

The first distributor of feed ingredients and mixed feeds is required to file a report. The manufacturer of commercial feed products in Iowa is considered a first distributor. Any company who ships feed into Iowa is a first distributor.

The Iowa Law provides for exemptions on feed ingredients after the Inspection Fee has been paid once. The product may be mixed with several different concentrates for distribution. A great number of competent custom mixing facilities avail a large quantity of ingredient feeds, which are still sold in Iowa directly to the final purchaser. A feed ingredient may also be exempted if it is shipped out of the State being utilized in other mixed feeds.

Stock Tonic is a class of commercial feed for livestock and poultry, such as remedies for the cure and mitigation of diseases and other non-nutritional conditions. They are only included in the articles and products for oral administration and shall not include medicated livestock and poultry feeds. In lieu of the tonnage inspection fee on stock tonic, there shall be paid a registration fee of six dollars annually.

The feeds distributed in Iowa continue to advance and surmount as shown by the following summary July
Feed Tonnage Report.

DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA - JULY thru DECEMBER, 1969

TONNAGE OF MIXED FEEDS

TONS OF FEED

1.	Broiler Feeds	Complete	2,253
		Supplement	2,730
2.	Turkey Feeds	Complete	17,017
		Supplement	25,082
3.	Starter-Grower (Egg-Type)	Complete	10,518
		Supplement	5,137
4.	Layer-Breeder (Egg-Type)	Complete	21,046
		Supplement	51,516
5.	Beef Feeds	Complete	84,055
		Supplement	274,616
6.	Dairy Feeds	Complete	24,261
		Supplement	51,225
7.	Swine Feeds	Complete	338,648
		Supplement	536,131
8.	Sheep Feeds	Complete	5,143
		Supplement	2,307
9.	Mineral Feeds		72,177
10.	Pet Foods		24,215
11.	Other Mixed Feeds		76,697

TOTAL TONNAGE MIXED FEEDS

1,624,774

TONNAGE OF INGREDIENT FEEDS

12.	Alfalfa Products	134,765	22.	Milk Products	13,970
13.	Animal Products	149,076	23.	Molasses	137,685
14.	Barley Products	49	24.	Oat Products	19,223
15.	Brewery Products	2,117	25.	Phosphates	80,623
16.	Corn Products	21,334	26.	Salt & Minerals	73,056
17.	Cottonseed	2,757	27.	Soybean	382,083
18.	Distillers	9,949	28.	Urea	40,025
19.	Fats & Oils	7,254	29.	Vitamins & Drugs	17,981
20.	Fish Products	13,756	30.	Wheat Products	161,918
21.	Linseed	27,282	31.	Other	41,764

TOTAL TONNAGE INGREDIENT FEEDS

1,336,667

TOTAL FEED DISTRIBUTED

2,961,441

DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA - YEAR OF 1969

TONNAGE OF MIXED FEEDS

TONS OF FEED

1.	Broiler Feeds	Complete	4,470
		Supplement	5,118
2.	Turkey Feeds	Complete	34,320
		Supplement	37,465
3.	Starter-Grower (Egg-Type)	Complete	27,493
		Supplement	14,451
4.	Layer-Breeder (Egg-Type)	Complete	45,910
		Supplement	103,176
5.	Beef Feeds	Complete	192,570
		Supplement	546,270
6.	Dairy Feeds	Complete	48,214
		Supplement	107,322
7.	Swine Feeds	Complete	647,150
		Supplement	1,023,537
8.	Sheep Feeds	Complete	13,322
		Supplement	3,862
9.	Mineral Feeds		151,528
10.	Pet Foods		47,870
11.	Other Mixed Feeds		132,331
		<u>TOTAL TONNAGE MIXED FEEDS</u>	<u>3,186,379</u>

TONNAGE OF INGREDIENT FEEDS

12.	Alfalfa Products	250,213	22.	Milk Products	28,641
13.	Animal Products	294,255	23.	Molasses	269,925
14.	Barley Products	760	24.	Oat Products	36,528
15.	Brewery Products	5,453	25.	Phosphates	138,395
16.	Corn Products	40,214	26.	Salt and Minerals	125,565
17.	Cottonseed	6,823	27.	Soybean	866,887
18.	Distillers	19,649	28.	Urea	40,025
19.	Fats & Oils	13,930	29.	Vitamins & Drugs	24,509
20.	Fish Products	32,830	30.	Wheat Products	339,289
21.	Linseed	50,295	31.	Other	113,487

TOTAL TONNAGE INGREDIENT FEEDS

2,697,673

TOTAL FEED DISTRIBUTED

5,884,052

Iowa Department of Agriculture

L. B. LIDDY
SECRETARY OF AGRICULTURE



ROBERT H. LOUNSBERRY
DEPUTY SECRETARY OF AGRICULTURE

DES MOINES, IOWA 50319

July 29, 1970

Gentlemen:

In compliance with the requirements of the Iowa Commercial Feed Law of 1964, Section 7.3, we make the following report:

COMMERCIAL FEED TRUST ACCOUNT JULY 1, 1969 TO END OF 1970 FISCAL YEAR, JUNE 30, 1970.

Balance forwarded July 1, 1969			\$589,069.21
RECEIPTS			
Fees and Tonnage Tax	\$349,605.42		
State's Share, IPERS Refund	24.22		
Salary Reimbursements	<u>2,589.79</u>	352,219.43	
TOTAL TO ACCOUNT FOR			\$941,288.64
TRANSFER TO GENERAL REVENUE	\$500,000.00		
DISBURSEMENTS			
Salaries	\$251,116.10		
Travel	17,994.31		
Support & Maintenance	15,290.93		
Equipment	<u>3,289.46</u>	287,690.80	787,690.80
BALANCE AS OF THE END OF THE 1970 FISCAL YEAR, JUNE 30, 1970			<u><u>\$153,597.84</u></u>


L. B. Liddy
Secretary of Agriculture

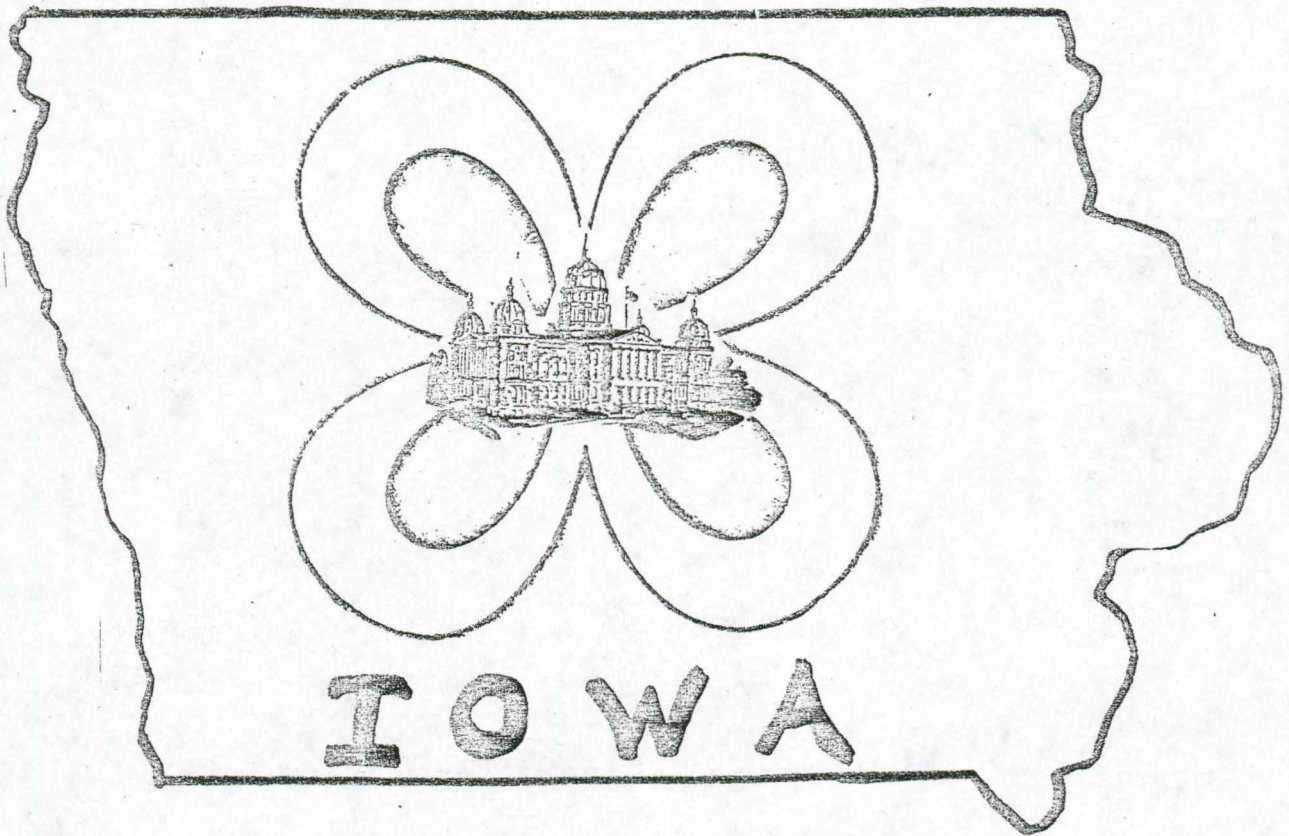
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*7/1/71
Revised
Statement*

IOWA DEPARTMENT OF AGRICULTURE

COMMERCIAL FEED REPORT

January thru June 1971 *pt 1*



Issued By:
Feed Division
Des Moines, Iowa 50319

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FEED DIVISION STAFF, 1970

L. B. Liddy

Secretary of Agriculture

Robert Lounsberry

Deputy Secretary of Agriculture

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George Kullberg, Gowrie

Roland Coil, West Branch

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Charlie M. Johnson, Ottumwa

Wayne E. White, Hamlin

Solomon Krass, Fort Dodge

* Inspect Feed, Fertilizer, Anhydrous Ammonia Sites, Limestone, Seed, Pesticides and In-Plant Scales.

CHEMICAL LABORATORY STAFF

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Director, Chemical Laboratory

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Duane H. Leive

Director, Feed Division

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Dr. R. W. Borgeson, Chemist*

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OFFICE STAFF

Bill Wiese, Auditor*

Versa Faust

Doris Vert

Mary Dawson*

Esther Cochran*

* Work also in Fertilizer Div.

Iowa Department of Agriculture

L. B. LIDDY
SECRETARY OF AGRICULTURE



ROBERT H. LOUNSBERRY
DEPUTY SECRETARY OF AGRICULTURE

DES MOINES, IOWA 50319

October 6, 1971

Gentlemen:

In compliance with the requirements of the Iowa Commercial Feed Law of 1964, Section 7.3, we make the following report:

COMMERCIAL FEED TRUST ACCOUNT JULY 1, 1970 TO END OF 1971 FISCAL YEAR, JUNE 30, 1971.

Balance forwarded July 1, 1970 \$153,597.84

RECEIPTS

Fees and Tonnage Tax	\$389,393.43	
State's Share, IPERS Refund	3.15	
Salary Reimbursements	3,837.50	393,234.08

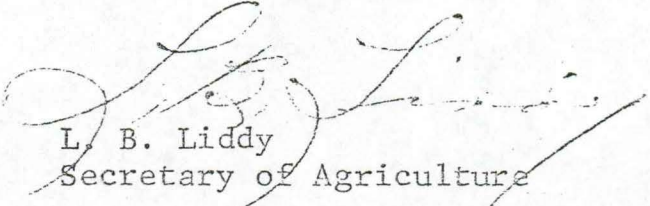
TOTAL TO ACCOUNT FOR 546,831.92

*DISBURSEMENTS

Salaries	264,421.28	
Travel	20,248.19	
Support & Maintenance	19,500.47	
Equipment	1,111.00	305,280.94

BALANCE AS OF THE END OF THE 1971 FISCAL YEAR, JUNE 30, 1971 \$241,550.98

*This report differs from previous ones which included disbursements from July 1 thru June 30. This report also includes obligations made prior to June 30 which were paid by September 30 this year.


L. B. Liddy
Secretary of Agriculture

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DISTRIBUTION OF COMMERCIAL FEEDS
IN IOWA

	Tonnage of Mixed Feeds	Tonnage of Ingredients	Total
1955	1,505,484	951,853	2,457,337
1960	2,356,204	1,523,981	3,880,185
1965	2,586,362	2,238,068	4,824,430
1966	2,812,466	2,420,826	5,233,292
1967	3,044,824	2,481,576	5,526,400
1968	3,127,427	2,620,669	5,748,096
1969	3,186,379	2,697,673	5,884,052
1970	3,584,938	3,079,753	6,664,691

TONNAGE TAX REDUCED

Section 198.7 (1) Code 1971, was amended by House File 381, First Session 64th General Assembly, to allow the Secretary of Agriculture to set the feed tonnage inspection fee annually at a rate not more than ten cents (10¢) per ton.

The Secretary of Agriculture has reduced the annual inspection fee by two cents (2¢) per ton and has set the annual inspection fee at eight cents (8¢) per ton for the period of July 1, 1971, to June 30, 1972. The fee shall be paid by the first distributor of a commercial feed in this state for all commercial feeds distributed in this state, except those specifically exempted, as set out in Section 198.7, Code 1971.

FEED TONNAGE SUMMARY FOR 2nd 1/2 1970

CLASSIFICATION OF PRODUCTS SOLD

Classification Numbers	ALL MIXED, REGISTERED COMMERCIAL FEEDS	Tons of Feed
1.	Broiler Feeds _____ (Complete - - - - -)	2,845
	(Supplement- - - - -)	1,589
2.	Turkey Feeds _____ (Complete - - - - -)	22,198
	(Supplement- - - - -)	21,813
3.	Turkey Grower (Egg-Type) _____ (Complete - - - - -)	9,375
	(Supplement- - - - -)	4,458
4.	Layer-Breeder (Egg-Type) _____ (Complete - - - - -)	26,457
	(Supplement- - - - -)	53,666
5.	Beef Feeds _____ (Complete - - - - -)	70,923
	(Supplement- - - - -)	306,698
6.	Dairy Feeds _____ (Complete - - - - -)	22,575
	(Supplement- - - - -)	92,501
7.	Swine Feeds _____ (Complete - - - - -)	357,902
	(Supplement- - - - -)	689,121
8.	Sheep Feeds _____ (Complete - - - - -)	3,685
	(Supplement- - - - -)	1,454
9.	Mineral Feeds - - - - -	73,268
10.	Pet Foods - - - - -	29,931
11.	Other Mixed Feeds - - - - -	79,015
Total (lines 1-11) Mixed Feed Tonnage - - - - -		1,869,474

Classification Numbers	COMMERCIAL INGREDIENT FEEDS MANUFACTURED OR FIRST SOLD IN IOWA BY US	
12.	Alfalfa Products	132,082
13.	Animal Products	150,886
14.	Barley Products	180
15.	Brewery Products	2,593
16.	Corn Products	20,767
17.	Cottonseed Products	3,532
18.	Distillers Products	10,491
19.	Fats & Oils	13,336
20.	Fish Products	16,520
21.	Linseed & Flax Products	31,375
22.	Milk Products	7,283
23.	Molasses (all types)	135,224
24.	Oat Products	20,987
25.	Phosphate Ingredients	92,450
26.	Salt & Other Minerals	27,269
27.	Soybean Products	595,889
28.	Urea or other NPN feeds	3,774
29.	Vitamins & Drugs	7,887
30.	Wheat Products	144,336
31.	Other Ingredient Feeds	138,478
Total (Lines 12 - 31) Ingredient Tonnage - - - - -		1,555,339
TOTAL FEED DISTRIBUTED (total of lines 1 - 31) - - - - -		3,424,813

LABORATORY RESULTS ON FEED SAMPLES

FIRST HALF 1971

DETERMINATIONS

	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
Straight Feeds	912	860	1148	610		825	4355
Mineral Feeds	1326	1069	1091	329		1184	4999
All Mineral	66	72	70	19		39	266
Collaborative Cks.	12	11		26			49
Urea	113	92	145	4		96	450
Arsenic	63	92	82	29		63	329
Microscopic	190	177	115	20		126	628
Meat Products	121	90	54			36	201
Atomic Absorption	391	388	256	76		242	1353
Sulfamethazine	159	178	212	40		183	772
Vitamin		44					44
Antibiotics	124	123	131	79		72	529
Vitamins	31		30	8		18	87
Nitrofurazone	6	6	2	11		4	29
Piperazine	4	6	7	3			20
DES	12	13	3			4	32
Zoalene	3		3	2		4	12
Amprolium	2	4	2	6		7	21
	3535	3212	3421	1265		2903	14176

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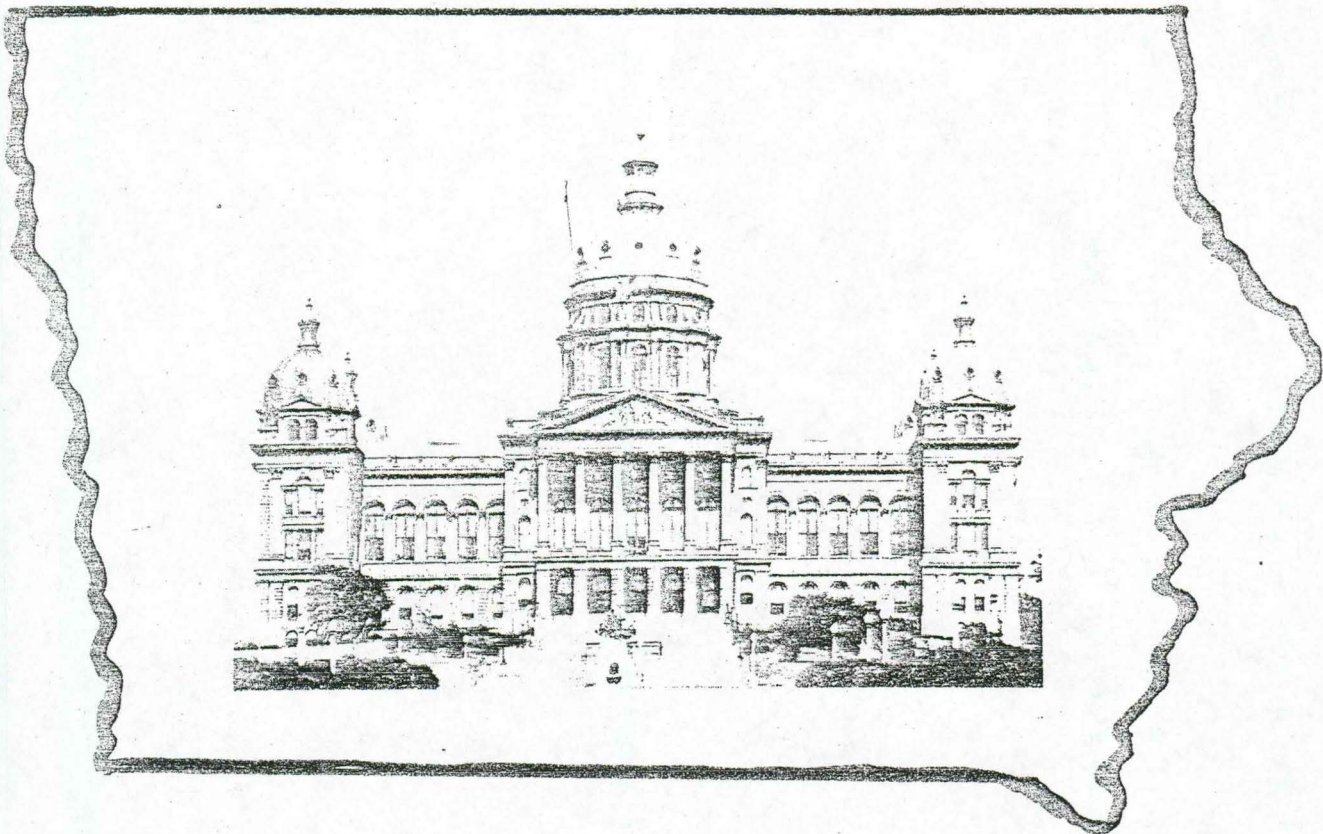
STATE OF IOWA

IOWA DEPARTMENT OF AGRICULTURE

COMMERCIAL FEED REPORT

JULY THRU DECEMBER 1971

pt. 2



L. B. Liddy

Secretary of Agriculture

Robert Lounsberry

Deputy Secretary of Agriculture

Duane H. Leive

Director, Feed Division

COMMERCIAL FEEDS IN IOWA

The distribution of Commercial Feeds, indicates a tonnage decrease of 88,292 tons for the first half of 1971, compared to the same period for the first half of 1970. Ingredient Feeds also showed a decrease of 71,661 tons for the same period in 1971.

This publication of the Commercial Feed Division, Iowa Department of Agriculture, reports the work performed in administering the laws pertaining to the sale and distribution of commercial feeds. Iowa laws require these products to be registered with this department and that they be labeled correctly as required by these laws.

For the year of 1971, 6,277 samples were analyzed in the Feed Laboratory, which were obtained by Iowa State Agriculture Inspectors. Of these, 1,414 deviations were found.

A service to feed manufacturers performed by the Feed Division is the review of feed labels during the registration procedure and the audit of the feed labels and formulas used to manufacture the feeds in order to help labeling comply with the requirements of the Feed Law.

Labels consist of the guarantees made by the Company. The terms used are defined as follows:

Crude Protein or simply Protein in a label is used to designate all of the complex compounds containing nitrogen, in the feed. It is a most valuable constituent of feeds. Only plants have the power of building up proteins from inorganic elements of the soil and air. Proteins from animal sources, like milk or meat, are plant protein which have been partly broken down by the digestive processes, and then reconstructed into different proteins in the body to care for its specific needs. Different plants contain different kinds of protein so that it is necessary that animals be given a variety of feeds to fill their requirements economically. As the protein content of the various concentrates is different, care must be taken

by the feeder in selecting such feeds as will give him sufficient protein for the most profitable returns. Feeding a large excess of protein is uneconomical because of its cost, and because of its harmful physiological effects. In general, however, most feeders could profitably use more high protein feeds in their rations.

Fat is the material which can be extracted from the moisture-free feedstuffs with ether. The largest part of the extract is oil, or fat, but a small percentage consists of waxes, resins, coloring matter, etc. Fats can be deposited in the body tissues, as such, or they can be burned in the body to furnish energy. In estimating the energy value of a feed, in preparing balanced rations, the fat is considered as giving 2.25 times as much heat as the nitrogen free extract.

Fiber is the woody part of the feed which has served to form the cell walls in plant tissues. It is chiefly cellulose. The fiber content of different plants, as well as different parts of the same plant, is variable. Most of the common seeds and grains contain very little fiber, while the protecting hulls and husks as well as the supporting stems, are high in this constituent. Concentrates of low fiber content should generally be purchased, as the roughages supply all of the bulk necessary to keep the digestive systems functioning properly. Poultry and Swine, especially, require feeds with low fiber content and high digestibility, as their digestive systems have relatively small capacities.

Water or moisture is used to designate that loss in weight which occurs by evaporation when a feed is heated for several hours just above the boiling point of water. In most concentrates this value varies from five to fifteen percent. A high moisture content is undesirable in that it lowers the keeping quality of the feed.

Nitrogen Free Extract is the term used to designate that percentage of the feed which remains after subtracting the sum of the moisture, protein, fat, fiber, and ash. It consists chiefly of starches, sugars, and pentosans. The nitrogen free extract furnishes energy for the body. Fats can also be synthesized from this constituent.

If the carbohydrate content is stated on the feed label, then the nitrogen free extract is obtained by subtracting the fiber from the value. These are no longer required as a meaningful information for the purchaser.

Ash is the mineral of a feed which remains after complete burning. It consists of the elements taken up by the plant from the soil with the exception of the nitrogen and some of the sulphur. It contains elements which are absolutely essential in the proper nutrition of the animal. The ash from different feeds varies in amount and feeding value. For example ash from alfalfa hay or meal contains much lime which is necessary for the growth of bones while the ash from oat hulls contains little lime but a high percentage of the unimportant compound silica or sand. Seeds and grains, in general contain a high percentage of phosphorus which also is necessary for growth of bones.

Basic data and background material taken from the U. S. Department of Agriculture reports Synthetics and Substitutes are becoming an important part of the continuing search of new products. Many unusual protein sources offer possibilities for the future.

DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA - JANUARY thru JUNE, 1971

<u>TONNAGE OF MIXED FEEDS</u>			<u>TONS OF FEED</u>	
1.	Broiler Feeds	Complete	2,583.36	
		Supplement	1,150.22	
2.	Turkey Feeds	Complete	18,425.47	
		Supplement	10,795.36	
3.	Starter-Grower (Egg-Type)	Complete	12,292.53	
		Supplement	9,019.12	
4.	Layer-Breeder (Egg-Type)	Complete	22,359.06	
		Supplement	50,351.75	
5.	Beef Feeds	Complete	50,283.14	
		Supplement	304,868.31	
6.	Dairy Feeds	Complete	22,426.07	
		Supplement	53,425.25	
7.	Swine Feeds	Complete	326,901.82	
		Supplement	559,696.81	
8.	Sheep Feeds	Complete	3,551.10	
		Supplement	2,280.18	
9.	Mineral Feeds		67,780.93	
10.	Pet Foods		25,624.49	
11.	Other Mixed Feeds		83,356.55	
	<u>TOTAL TONNAGE MIXED FEEDS</u>		<u>1,627,171.52</u>	
<u>TONNAGE OF INGREDIENT FEEDS</u>				
12.	Alfalfa Products	104,086.88	22. Milk Products	18,174.35
13.	Animal Products	135,356.82	23. Molasses	117,677.97
14.	Barley Products	9.42	24. Oat Products	16,126.09
15.	Brewery Products	3,430.92	25. Phosphates	57,495.78
16.	Corn Products	27,597.74	26. Salt & Minerals	53,992.75
17.	Cottonseed	3,828.55	27. Soybean	540,692.94
18.	Distillers	9,451.72	28. Urea	5,218.18
19.	Fat & Oils	12,765.25	29. Vitamins & Drugs	7,726.65
20.	Fish Products	14,372.67	30. Wheat Products	137,581.56
21.	Linseed	40,495.80	31. Other	146,671.40
	<u>TOTAL TONNAGE INGREDIENT FEEDS</u>		<u>1,452,753.44</u>	
	 <u>TOTAL FEED DISTRIBUTED</u>		 <u>3,079,924.96</u>	

DISTRIBUTION OF COMMERCIAL FEEDS

IN IOWA

	Tonnage of Mixed Feeds	Tonnage of Ingredients	Total
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1966	2,812,466	2,420,826	5,233,292
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1968	3,127,427	2,620,669	5,748,096
1969	3,186,379	2,697,673	5,884,052
1970	3,584,938	3,079,753	6,664,691

TONNAGE TAX REMAINS AT .08¢

Section 198.7 (1) Code 1971, was amended by House File 381, First Session 64th General Assembly, to allow the Secretary of Agriculture to set the feed tonnage inspection fee annually at a rate not more than ten cents (10¢) per ton.

The Secretary of Agriculture has reduced the annual inspection fee by two cents (2¢) per ton and has set the annual inspection fee at eight cents (8¢) per ton for the period of July 1, 1972 to June 30, 1973. The fee shall be paid by the first distributor of a commercial feed in this state, except those specifically exempted, as set out in Section 198.7, Code 1971.

LABORATORY RESULTS ON FEED SAMPLES

Second Half 1971

Determinations

	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL
Straight Feeds	1157	1370	1240	973	336	1076	6152
General Feeds	1704	2072	1486	641		490	6393
Mineral	111	94	61	31		50	347
Collaborative Checks	20	10	14		15	12	71
Area	121	154	129	62	4	35	505
Asenic	113	86	90	57	44	52	442
Microscopic	45	337	258	222	71	97	1030
Heat Products	62	84	33				179
Atomic Absorption	305	295	349	272	33	192	1446
Chlorthalidone	135	224	207	155	8	162	891
Antibiotics	98	167	122	159	20	103	669
Vitamins	35	25	42	61	7	10	180
Chlorofurazone	21	14	14	11	2	7	69
Piperazine	8		5	6	2	2	23
MS	3	3	4	2			12
Malene	7	13	2			2	24
Amprolium	14	1	4		2		21
	3959	4949	4060	2652	544	2290	18454

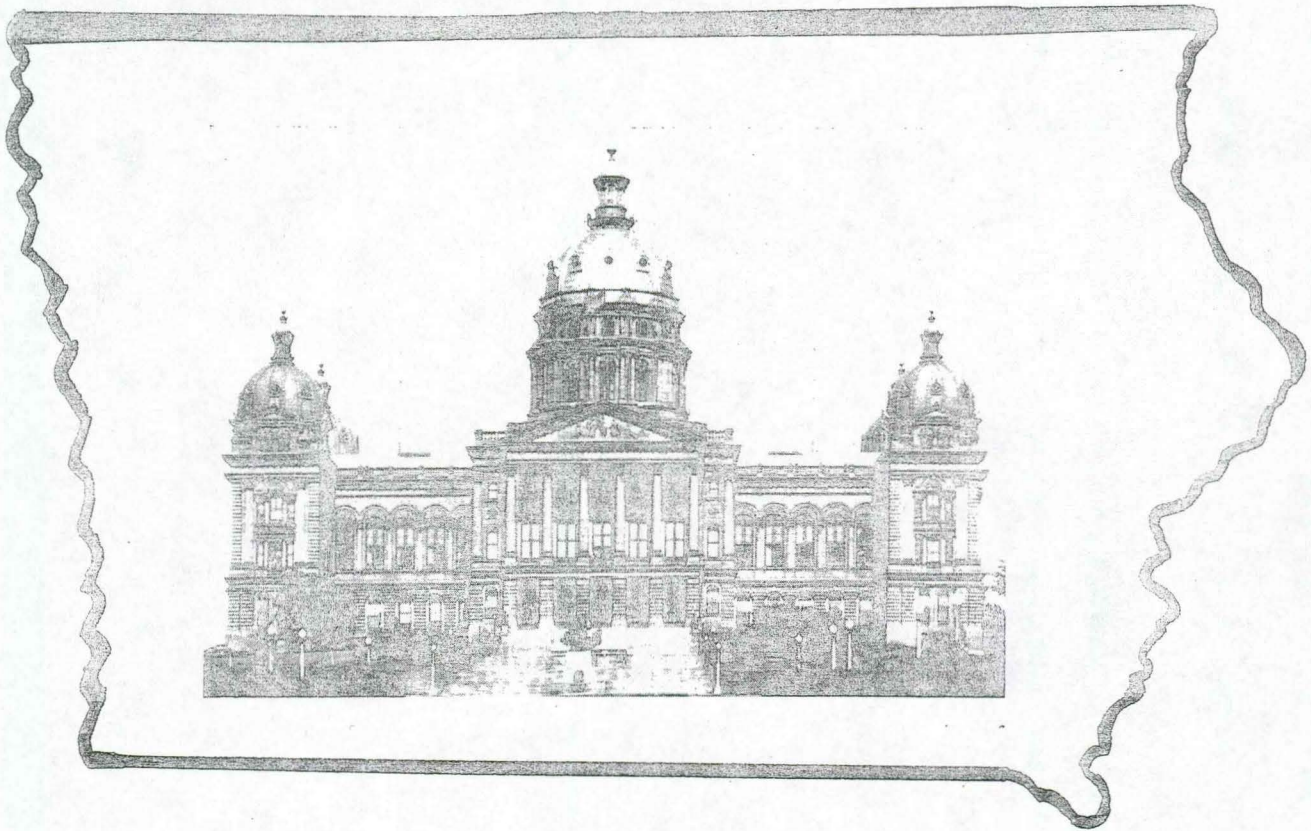
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STATE OF IOWA
IOWA DEPARTMENT OF AGRICULTURE
COMMERCIAL FEED DIVISION

REPORT

January thru July
1972

pt 1



L. B. Liddy	Secretary of Agriculture
Robert Lounsberry	Deputy Secretary of Agriculture
Duane H. Leive	Director, Feed Division

Iowa Department of Agriculture

L. B. LIDDY
SECRETARY OF AGRICULTURE



ROBERT H. LOUNSBERRY
DEPUTY SECRETARY OF AGRICULTURE

October 6, 1972

Gentlemen:

In compliance with the requirements of the Iowa Commercial Feed Law of 1964, Section 7.3, we make the following report:

COMMERCIAL FEED TRUST ACCOUNT JULY 1, 1971 TO END OF 1972 FISCAL YEAR, JUNE 30, 1972.

Balance forwarded July 1, 1971 \$241,550.98

RECEIPTS

Fees and Tonnage Tax	\$303,471.77	
Misc. Receipts	727.69	304,199.46
		<hr/>

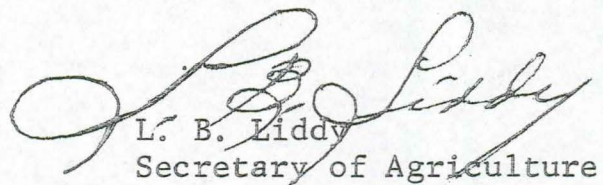
TOTAL TO ACCOUNT FOR 545,750.44

*DISBURSEMENTS

Salaries	287,104.17	
Travel	17,747.11	
Support & Maintenance	14,473.86	
Equipment	470.99	319,796.13
		<hr/>

BALANCE AS OF THE END OF THE 1972
FISCAL YEAR, JUNE 30, 1972 \$225,954.31

*This report differs from previous ones which included disbursements from July 1 thru June 30. This report also includes obligations made prior to June 30 which were paid by September 30 this year.


L. B. Liddy
Secretary of Agriculture

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C O M M E R C I A L F E E D R E P O R T

LABELING

A very valuable profit for the Feed Manufacturer is up-to-date labels. Although labeling has been simplified, stress and accent must still be maintained on the following important information:

- Net Weight
- Product Name and Brand Name
- Appropriate Claim (if Medicated) with stated guarantees
- Guaranteed Analysis
- Ingredient Section
- Company Name and Address
- Feeding and Mixing Instructions
- Warning for withdrawal

If you are in doubt, contact a Label Printing Company, who guarantees their labels to be satisfactory. A correct label will be better for you, your customers and employees.

If your company handles feeds containing drugs in a manner that changes the container (bulk feed) or labeling of the drug (any feed containing a drug) you are a drug manufacturer as defined by the Congress of the United States. As a Drug Manufacturer you must register between November 15, and December 31, each year with the Food and Drug Administration, 1009 Cherry St., Kansas City, Missouri.

Your Commercial Feed Products are required to be registered with the Iowa Department of Agriculture each year by January 1, if any changes are made in the feed a label must be submitted to the department immediately, which will keep your files current and avoid unnecessary violations. There is no charge to register your products.

No person shall distribute an adulterated feed, and no person shall distribute a misbranded feed. Therefore, it is the duty of the Secretary to authorize agents to inspect, sample, and make analysis by testing commercial feed. To determine whether such feeds are in compliance with the Iowa Feed Law. Following are the types of tests used to determine these violations used in the Laboratory:

Crude Protein Min	Vitamin A U.S.P.
Equiv. Protein from	Riboflavin Mg/lb
Crude Fat Min	Niacin Mg/lb
Crude Fiber Max.	d-Pantothenic Acid Mg/lb
Calcium (Ca) Min.	Chlortetracycline gm/ton
Calcium (Ca) Max.	Oxytetracycline gm/ton
Phosphorus (P) Min.	Pencillin gm/ton
Iodine (I) Min.	Tylosin gm/ton
Salt (NaCl) Max. and Min.	Amprolium
Copper (Cu) Min.	Arsanilic Acid
Colbalt (Co) Min.	Diethylstilbestrol
Iron (Fe) Min.	Furazolidone
Magnesium (Mg) Min.	Nitrofurazone
Manganese (Mn) Min.	Piperazine Base
Zinc (Zn) Min.	Roxarsone
Potassium (K) Min.	Sulfamethazine
	Zoalene
	Sodium Arsanilate
	Microscopy Report

Your label is required to guarantee all feeds for minimum crude protein minimum crude fat and maximum crude fiber except on mineral, vitamin and drug products in which these items are not significant.

Stock Tonics shall be labeled in accordance with the rules and regulations prescribed by the United States Food and Drug Administration, this label must include the name and percentage of the active drug ingredients, list all other ingredients, and present directions for use and warnings against misuse, and state the quantity of contents of the package in which sold or distributed.

The following chart shows the Licensed, Registrations, Samples and Determinations for 1971:

IOWA DEPARTMENT OF AGRICULTURE

Feed Manufacturers Licensed	2,076
Product Registration	14,420
Stock Tonic Registration	275
Feed Samples	6,169
Determinations	31,372

DISTRIBUTION OF COMMERCIAL FEEDS

IN IOWA

Year	Tonnage of Mixed Feeds	Tonnage of Ingredients	Total
1955	1,505,484	951,853	2,457,337
1960	2,356,204	1,523,981	3,880,185
1965	2,586,362	2,238,068	4,824,430
1966	2,812,466	2,420,826	5,233,292
1967	3,044,824	2,481,576	5,526,400
1968	3,127,427	2,620,669	5,748,096
1969	3,186,379	2,697,673	5,884,052
1970	3,584,938	3,079,753	6,664,691
1971	3,231,244	2,993,752	6,224,996

TONNAGE TAX REMAINS AT .08¢

CHANGES IN THE IOWA COMMERCIAL FEED LAW OF 1964
BY THE 64 GENERAL ASSEMBLY

198.7 INSPECTION FEE

1. There shall be paid by the first distributor of a commercial feed in this state to the secretary for all commercial feeds distributed in this state an inspection fee to be fixed annually by the secretary at not more than ten cents per ton; provided, however, that the following are hereby exempted:

First Session 64 General Assembly, Chapter 147

DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA
JULY THRU DECEMBER 1971

<u>TONNAGE OF MIXED FEEDS</u>		<u>TONS OF FEED</u>
1. Broiler Feeds	Complete	2,333.41
	Supplement	2,305.16
2. Turkey Feeds	Complete	24,492.46
	Supplement	15,563.15
3. Starter Grower (Egg-Type)	Complete	9,473.99
	Supplement	4,593.09
4. Layer Breeder (Egg-Type)	Complete	24,125.11
	Supplement	52,185.48
5. Beef Feeds	Complete	75,706.17
	Supplement	285,201.63
6. Dairy Feeds	Complete	19,974.75
	Supplement	51,976.78
7. Swine Feeds	Complete	259,231.38
	Supplement	612,226.56
8. Sheep Feeds	Complete	2,707.50
	Supplement	1,940.41
9. Mineral Feeds		65,491.54
10. Pet Foods		29,957.98
11. OTHER Mixed Feeds		<u>64,586.20</u>
<u>TOTAL TONNAGE OF MIXED FEEDS</u>		<u>1,604,072.75</u>

<u>TONNAGE OF INGREDIENT FEEDS</u>		
12. Alfalfa Products		108,567.70
13. Animal Products		142,791.01
14. Barley Products		1,629.00
15. Brewery Products		2,030.47
16. Corn Products		26,753.99
17. Cottonseed Products		3,264.49
18. Distillers Products		8,616.21
19. Fats & Oils		12,525.44
20. Fish Products		10,577.57
21. Linseed & Flax Products		31,312.15
22. Milk Products		12,979.60
23. Molasses (All Types)		134,847.76
24. Oat Products		24,457.74
25. Phosphate Ingredients		50,288.44
26. Salt & Other Minerals		19,942.02
27. Soybean Products		587,151.26
28. Urea Or Other NPN Feeds		4,099.07
29. Vitamins & Drugs		21,854.86
30. Wheat Products		108,427.25
31. Other Ingredient Feeds		<u>288,883.40</u>
<u>TOTAL TONNAGE OF INGREDIENT FEEDS</u>		<u>1,540,999.43</u>

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State of Iowa

IOWA DEPARTMENT OF AGRICULTURE

Des Moines, Iowa 50319

Report of

COMMERCIAL FEED DIVISION

1973

Robert H. Lounsberry, *Secretary of Agriculture*

IOWA DEPARTMENT OF AGRICULTURE

1973

COMMERCIAL FEED REPORT

The objective of this report is to present as accurately as possible a picture of the scope of the commercial feed industry in Iowa.

This includes the total of commercial feed production in the State as well as a summary of total feed utilization which reflects the States dependence on feeds and feed materials. This information has been compiled from confidential reports submitted by licensed Feed Manufacturers selling feeds in Iowa.

During the calendar year of 1972, there were 3,586,552 tons of commercial feed distributed in the State of Iowa. This represents an increase of one percent over 1971. Page 2, and Page 3, show the tonnage distributed in the State of Iowa by classification and types of commercial feed.

The Agricultural Products Inspectors, working in assigned areas throughout the State, obtain official feed samples which are submitted to the State Chemical Laboratory for analyses. These official samples are not only commercial feeds, custom mixed feeds; but also ingredients since commercial feed manufacturers claim they are having difficulty in obtaining quality ingredients especially animal products and soybean products.

This report includes the results and summary of all such analyses made during the year of July 1, 1972 to June 30, 1973. During this period 5,963 official samples were collected in which 29,398 analytical determinations were made.

In 1973, there were 1,821 Feed Manufacturers licensed. The license is issued to the Feed Manufacturers by the Secretary of Agriculture.

In 1973, there were 14,880 commercial feed products registered and 439 stock tonics registered. Five hundred three commercial feed manufacturers registered medicated feeds.

DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA
JANUARY THRU JUNE 1972

Page 2.

<u>TONNAGE OF MIXED FEEDS</u>		<u>TONS OF FEED</u>
1. Broiler Feeds	Complete	2,783.00
	Supplement	1,320.00
2. Turkey Feeds	Complete	16,702.00
	Supplement	16,921.00
3. Starter-Grower (Egg Type)	Complete	11,284.00
	Supplement	8,685.00
4. Layer-Breeder (Egg Type)	Complete	24,910.00
	Supplement	47,108.00
5. Beef Feeds	Complete	58,367.00
	Supplement	375,402.00
6. Dairy Feeds	Complete	23,511.00
	Supplement	64,641.00
7. Swine Feeds	Complete	273,920.00
	Supplement	631,566.00
8. Sheep Feeds	Complete	2,794.00
	Supplement	2,217.00
9. Mineral Feeds		78,983.00
10. Pet Foods		41,158.00
11. (a) Other Mixed Feeds		116,588.00
(b) Liquid Feeds		
TOTAL TONNAGE OF MIXED FEEDS		1,798,860.00

TONNAGE OF INGREDIENT FEEDS

12. Alfalfa Products	119,351.00	
13. Animal Products	160,231.00	
14. Barley Products	4,670.00	
15. Brewery Products	1,888.00	
16. Corn Products	41,521.00	
17. Cottonseed Products	23,108.00	
18. Distillers Products	10,717.00	
19. Fats & Oils	10,633.00	
20. Fish Products	20,465.00	
21. Linseed & Flax Products	29,502.00	
22. Milk Products	17,548.00	
23. Molasses (All Types)	158,655.00	
24. Oat Products	19,124.00	
25. Phosphate Ingredients	58,926.00	
26. Salt & Other Minerals	71,783.00	
27. Soybean Products	833,333.00	
28. Urea Or Other NPN Feeds	47,272.00	
29. Vitamins & Drugs	12,941.00	
30. Wheat Products	159,271.00	
31. Other Ingredient Feeds	95,834.00	
TOTAL TONNAGE OF INGREDIENT FEEDS		1,896,773.00

DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA
JULY THRU DECEMBER 1972

Page 3.

<u>TONNAGE OF MIXED FEEDS</u>		<u>TONS OF FEED</u>
1. Broiler Feeds	Complete	4,479.00
	Supplement	2,442.00
2. Turkey Feeds	Complete	43,632.00
	Supplement	13,697.00
3. Starter-Grower(Egg Type)	Complete	11,237.00
	Supplement	2,819.00
4. Layer-Breeder(Egg Type)	Complete	26,250.00
	Supplement	47,491.00
5. Beef Feeds	Complete	86,905.00
	Supplement	317,051.00
6. Dairy Feeds	Complete	26,881.00
	Supplement	64,385.00
7. Swine Feeds	Complete	148,406.00
	Supplement	701,740.00
8. Sheep Feeds	Complete	2,933.00
	Supplement	2,213.00
9. Mineral Feeds		72,906.00
10. Pet Foods		33,967.00
11. (a) Other Mixed Feeds		178,258.00
(b) Liquid Feeds		
TOTAL TONNAGE OF MIXED FEEDS		1,787,692.00

<u>TONNAGE OF INGREDIENT FEEDS</u>		
12. Alfalfa Products		177,208.00
13. Animal Products		161,772.00
14. Barley Products		1,601.00
15. Brewery Products		1,975.00
16. Corn Products		31,248.00
17. Cottonseed Products		10,617.00
18. Distillers Products		10,761.00
19. Fats & Oils		8,445.00
20. Fish Products		17,691.00
21. Linseed & Flax Products		57,508.00
22. Milk Products		16,172.00
23. Molasses (All Types)		137,331.00
24. Oat Products		22,665.00
25. Phosphate Ingredients		33,051.00
26. Salt & Other Minerals		37,748.00
27. Soybean Products		648,482.00
28. Urea Or Other NPN Feeds		44,029.00
29. Vitamins & Drugs		11,363.00
30. Wheat Products		75,658.00
31. Other Ingredient Feeds		121,363.00
TOTAL TONNAGE OF INGREDIENT FEEDS		1,626,688.00

DETERMINATIONS MADE ON
SAMPLES ASSAYED

1972 July - December
1973 January - June

	1972						1973						TOTAL
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	
Straight Feeds	1889	1876	1217	1527	197	351	674	741	1008	315		254	10,049
Mineral Feeds	737	987	1229	853	106	546	1339	1404	1194	304		376	9,075
All Mineral	51	53	25	69	6	12	81	39	22	17		3	378
Collaborative Cks.		38	12	13	13	10	10		10	20			126
Urea	143	167	110	111		39	92	84	127	11		26	910
Arsenic	67	86	62	34	13	33	66	49	61	5		11	487
Microscopic	91	155	44	116	50	17	157	193	102			91	1,016
Meat Products	161	58	45	35	16	21	16	72	197	62		10	693
Atomic Absorption	267	317	278	390	142	115	332	252	230	44			2,367
Sulfamethazine	221	231	231	317	26	131	227	182	256	38		56	1,916
Vitamin	45	35	39	56	24	9	83	37	33	33		31	392
Antibiotics	134	170	135	159	99	85	140	119	145	78			1,264
Nitrofurazone	18	25	15	12	6	5	32	14	11	4			142
Piperazine	8	5	10	4	2		4	7	17				57
DES	1	2							4				7
Zoalene	5	3	4	1				2	3				18
Amprolium	10	18	5	2	2	4	15						56
Microscopic (only)			16	48	62	65	41		52	135		26	445
Total	3848	4226	3477	3747	764	1443	3309	3195	3472	1064		853	29,398

Iowa Department of Agriculture

R. H. LOUNSBERRY
SECRETARY OF AGRICULTURE

THATCHER JOHNSON
DEPUTY SECRETARY OF AGRICULTURE



STATE CAPITOL
DES MOINES, IOWA 50319

November 2, 1973

Gentlemen:

In compliance with the requirements of the Iowa Commercial Feed Law, Chapter 198.7-3, 1973 Code of Iowa, we make the following report:

COMMERCIAL FEED TRUST ACCOUNT JULY 1, 1972 TO END OF 1973 FISCAL YEAR, JUNE 30, 1973.

Balance forwarded July 1, 1972 \$225,954.31

RECEIPTS

Fees and Tonnage Tax	\$305,672.11	
Miscellaneous Receipts	<u>20.00</u>	<u>305,692.11</u>

TOTAL FUNDS AVAILABLE 531,646.42

*DISBURSEMENTS

Salaries	301,057.92	
Travel	20,175.43	
Support & Maintenance	25,281.66	
Equipment	<u>2,216.59</u>	<u>348,731.60</u>

BALANCE AS OF THE END OF THE 1973
FISCAL YEAR, JUNE 30, 1973 \$182,914.82

*This report differs from previous ones which included disbursements from July 1 thru June 30. This report also includes obligations made prior to June 30 which were paid by October 31 this year.

Robert H. Lounsberry
Robert H. Lounsberry
Secretary of Agriculture

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State of Iowa

IOWA DEPARTMENT OF AGRICULTURE

Des Moines, Iowa 50319

Report of

COMMERCIAL FEED DIVISION

1973

Robert H. Lounsberry, *Secretary of Agriculture*

IOWA DEPARTMENT OF AGRICULTURE

1973

COMMERCIAL FEED REPORT

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DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA
JANUARY THRU JUNE 1972

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1. Broiler Feeds	Complete	2,783.00
	Supplement	1,320.00
2. Turkey Feeds	Complete	16,702.00
	Supplement	16,921.00
3. Starter-Grower (Egg Type)	Complete	11,284.00
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4. Layer-Breeder (Egg Type)	Complete	24,910.00
	Supplement	47,108.00
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	Supplement	375,402.00
6. Dairy Feeds	Complete	23,511.00
	Supplement	64,641.00
7. Swine Feeds	Complete	273,920.00
	Supplement	631,566.00
8. Sheep Feeds	Complete	2,794.00
	Supplement	2,217.00
9. Mineral Feeds		78,983.00
10. Pet Foods		41,158.00
11. (a) Other Mixed Feeds		116,588.00
(b) Liquid Feeds		
TOTAL TONNAGE OF MIXED FEEDS		<u>1,798,860.00</u>

<u>TONNAGE OF INGREDIENT FEEDS</u>		
12. Alfalfa Products		119,351.00
13. Animal Products		160,231.00
14. Barley Products		4,670.00
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16. Corn Products		41,521.00
17. Cottonseed Products		23,108.00
18. Distillers Products		10,717.00
19. Fats & Oils		10,633.00
20. Fish Products		20,465.00
21. Linseed & Flax Products		29,502.00
22. Milk Products		17,548.00
23. Molasses (All Types)		158,655.00
24. Oat Products		19,124.00
25. Phosphate Ingredients		58,926.00
26. Salt & Other Minerals		71,783.00
27. Soybean Products		833,333.00
28. Urea Or Other NPN Feeds		47,272.00
29. Vitamins & Drugs		12,941.00
30. Wheat Products		159,271.00
31. Other Ingredient Feeds		<u>95,834.00</u>
TOTAL TONNAGE OF INGREDIENT FEEDS		<u>1,896,773.00</u>

DISTRIBUTION OF COMMERCIAL FEEDS IN IOWA
JULY THRU DECEMBER 1972

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	Supplement	2,819.00
4. Layer-Breeder(Egg Type)	Complete	26,250.00
	Supplement	47,491.00
5. Beef Feeds	Complete	86,905.00
	Supplement	317,051.00
6. Dairy Feeds	Complete	26,881.00
	Supplement	64,385.00
7. Swine Feeds	Complete	148,406.00
	Supplement	701,740.00
8. Sheep Feeds	Complete	2,933.00
	Supplement	2,213.00
9. Mineral Feeds		72,906.00
10. Pet Foods		33,967.00
11. (a) Other Mixed Feeds		178,258.00
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TOTAL TONNAGE OF MIXED FEEDS		1,787,692.00 <hr/>

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13. Animal Products		161,772.00
14. Barley Products		1,601.00
15. Brewery Products		1,975.00
16. Corn Products		31,248.00
17. Cottonseed Products		10,617.00
18. Distillers Products		10,761.00
19. Fats & Oils		8,445.00
20. Fish Products		17,691.00
21. Linseed & Flax Products		57,508.00
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28. Urea Or Other NPN Feeds		44,029.00
29. Vitamins & Drugs		11,363.00
30. Wheat Products		75,658.00
31. Other Ingredient Feeds		121,363.00 <hr/>
TOTAL TONNAGE OF INGREDIENT FEEDS		1,626,688.00 <hr/>

DETERMINATIONS MADE ON
SAMPLES ASSAYED

1972 July - December
1973 January - June

	1972						1973						TOTAL
	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	
Straight Feeds	1889	1876	1217	1527	197	351	674	741	1008	315		254	10,049
Mineral Feeds	737	987	1229	853	106	546	1339	1404	1194	304		376	9,075
All Mineral	51	53	25	69	6	12	81	39	22	17		3	378
Collaborative Cks.		38	12	13	13	10	10		10	20			126
Urea	143	167	110	111		39	92	84	127	11		26	910
Arsenic	67	86	62	34	13	33	66	49	61	5		11	487
Microscopic	91	155	44	116	50	17	157	193	102			91	1,016
Meat Products	161	58	45	35	16	21	16	72	197	62		10	693
Atomic Absorption	267	317	278	390	142	115	332	252	230	44			2,367
Sulfamethazine	221	231	231	317	26	131	227	182	256	38		56	1,916
Vitamin	45	35	39	56	24	9	83	37	33	33		31	392
Antibiotics	134	170	135	159	99	85	140	119	145	78			1,264
Nitrofurazone	18	25	15	12	6	5	32	14	11	4			142
Piperazine	8	5	10	4	2		4	7	17				57
DES	1	2							4				7
Zoalene	5	3	4	1				2	3				18
Amprolium	10	18	5	2	2	4	15						56
Microscopic (only)			16	48	62	65	41		52	135		26	445
Total	3848	4226	3477	3747	764	1443	3309	3195	3472	1064		853	29,398

Iowa Department of Agriculture

R. H. LOUNSBERRY
SECRETARY OF AGRICULTURE

THATCHER JOHNSON
DEPUTY SECRETARY OF AGRICULTURE



STATE CAPITOL
DES MOINES, IOWA 50319

November 2, 1973

Gentlemen:

In compliance with the requirements of the Iowa Commercial Feed Law, Chapter 198.7-3, 1973 Code of Iowa, we make the following report:

COMMERCIAL FEED TRUST ACCOUNT JULY 1, 1972 TO END OF 1973 FISCAL YEAR, JUNE 30, 1973.

Balance forwarded July 1, 1972 \$225,954.31

RECEIPTS

Fees and Tonnage Tax	\$305,672.11	
Miscellaneous Receipts	<u>20.00</u>	<u>305,692.11</u>

TOTAL FUNDS AVAILABLE 531,646.42

*DISBURSEMENTS

Salaries	301,057.92	
Travel	20,175.43	
Support & Maintenance	25,281.66	
Equipment	<u>2,216.59</u>	<u>348,731.60</u>

BALANCE AS OF THE END OF THE 1973
FISCAL YEAR, JUNE 30, 1973 \$182,914.82

*This report differs from previous ones which included disbursements from July 1 thru June 30. This report also includes obligations made prior to June 30 which were paid by October 31 this year.

Robert H. Lounsberry
Robert H. Lounsberry
Secretary of Agriculture

kjl

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