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1966

JOB VACANCIES
in
IOWA MANUFACTURING
ESTABLISHMENTS

as Reported for the Period
March through August 1966

Volume I, Number 1

331.1
Job

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JOB VACANCIES IN IOWA MANUFACTURING ESTABLISHMENTS

MARCH-AUGUST 1966

Chapter I. Purpose of Survey

Training for What?

This survey was initiated as a pilot project to provide a measure of the nature and extent of job vacancies in Iowa manufacturing establishments. An immediate and critical need for occupational employment data emerged with the development of Iowa's Area Vocational Schools and Community Colleges. Program and curriculum planners at the state and local level were handicapped by a lack of current data in reaching decisions on such critical questions as:

- (1) What specific occupations ought to be considered for training purposes in our Area Vocational Schools?
- (2) Is there a substantial demand for workers in occupations and skills under consideration by area schools for training purposes?
- (3) Is there likely to develop a glut on the labor market for certain skills while others continue to be in short supply?
- (4) In general, can an on-going procedure be developed for immediate "feedback" of industry's most critical

manpower shortages to educators involved in developing curriculum and training programs?

Occupational Information Needs for Area Vocational Schools

The Area Vocational Schools will involve a significant investment of Iowa's financial and teaching resources. To avoid the pitfalls of teaching "yesterday's" skills to "tomorrow's" labor force, an urgent need was felt to involve both university research talent and administrators from state and local action-agencies to develop low-cost efficient procedures for estimating manpower needs of industry and most importantly to assist the youth of the state in preparing for careers in Iowa.

Statewide On-the-Job Training Program

In addition to job information requirements of Area Vocational Schools, the job vacancy survey was designed to meet occupational employment data needs of other training organizations.

In 1966 the Iowa State Manpower Development Council inaugurated a statewide on-the-job training program for many of Iowa's hard-core unemployed workers. Inasmuch as

this program was designed primarily to meet the needs of small-business firms, and workers experiencing difficulty in locating training and jobs, hard data on job vacancies was a critical need for the efficient matching of job opportunities with this particular source of labor supply.

MDTA Training - OJT Program

In addition to the needs of Iowa's Area Vocational Schools and the Manpower Development Council's OJT Program, information on job vacancy data was deemed useful for institutional training programs under the Manpower Development and Training Act. In 1966 this program provided for coupling institutional classroom training with on-the-job training, and eventual placement in industry. This change increased the investment of training funds per student, and made the need for accurate job information more critical.

Multi-Purpose Nature of the Job Vacancy Survey Series

It is anticipated that the job vacancy survey series will be of assistance to a wide range of groups interested in manpower information for planning purposes. State agencies such as Vocational Rehabilitation, Employment

Security, the Bureau of Labor, the Industrial Commission, and various educational institutions should find job vacancy data a useful supplement in guidance and counseling for career development in the world of work.

It will also enable employers to tap a wider range of the state's trained labor force, and to participate in the formulation of training programs through continuous feedback of information on industry's skilled manpower requirements.

Job Vacancy Survey as a Supplement of Other Studies

The job vacancy survey is designed as an efficient means for obtaining highly-useful and up-to-date occupational employment information. It is intended to supplement long-run forecasts of manpower trends which are related to changes in technology, population distribution, and industrial structure.

Complete information on occupational employment data trends requires both types of approaches. Long-run forecasts, however, take time to develop and though valid for some future period, are subject to often rapid short-run variations. Job vacancy data, though short-run in nature, has an advantage in providing an immediate and highly sensitive measure of employer skill requirements.

Periodic reporting of job vacancy data on a quarterly basis (as envisioned in this project for the future) also provides a measure of the validity of long-run forecasting models.

Chapter II. Scope of Coverage

Response Rate

The job vacancy questionnaire was mailed to approximately 4,000 manufacturing firms listed in the 1965 edition of the Directory of Iowa Manufacturers published by the Iowa Development Commission. The questionnaires requested job vacancy and starting wage rate data for the six month period March through August 1966.

Completed questionnaires were received from 656 firms representing a response rate of approximately 16.4 percent. The resulting data has been analyzed by occupational groups, industry classification, county and multi-county areas.

Explanation of Classifications

In order to facilitate the utilization of this data, standard classifications were used as much as possible. Thus, the occupational groups used came from the Dictionary of Occupational Titles¹ (D.O.T.) while the industry groups

1. U. S. Department of Labor, Bureau of Employment Security, Dictionary of Occupational Titles, Volumes I and II (Washington, D. C. 1965)

came from the Standard Industrial Classification (S.I.C.) established by the U. S. Bureau of the Budget.²

Table I-A in the Appendix contains each of the occupational groups for which job vacancies were reported in Iowa along with the appropriate D.O.T. number. Table II-A contains the industry groups in Iowa which reported job vacancies; however, since abbreviations were used in Table II-A the following table is provided with the abbreviated industry group name and its appropriate S.I.C. number.

Table I: Iowa Industry Groups by Standard Industrial Classification

S.I.C. NUMBER	NAME	S.I.C. NUMBER	NAME
20	Food & Rel.	31	Leather & Rel.
23	Apparel	32	Stone, Clay & Glass
24	Lumber & Wood	33	Primary Metal Indus.
25	Furniture & Fixtures	34	Fabricated Metal
26	Paper & Rel.	35	Machinery (Except Elec.)
27	Printing, Publishing & Rel	36	Elec. Machinery
28	Chemicals & Rel.	37	Transportation Equip
29	Petroleum Refining & Rel	38	Control Instru; Photo Goods; Time Instru.
30	Rubber & Plastic	39	Misc. Mfg.

In addition to the occupational groups, Appendix Table I-A represents job vacancy data by multi-county sub-areas. These sub-areas were obtained by combining the 99 Iowa counties into 16 groups. Map 1 shows Iowa with the 16

multi-county sub-areas designated. These sub-areas are
2. See Iowa Development Commission, Directory of Iowa
Manufacturers (Des Moines, 1965).

Areas of the Iowa Employment Security Council, Inc. This is

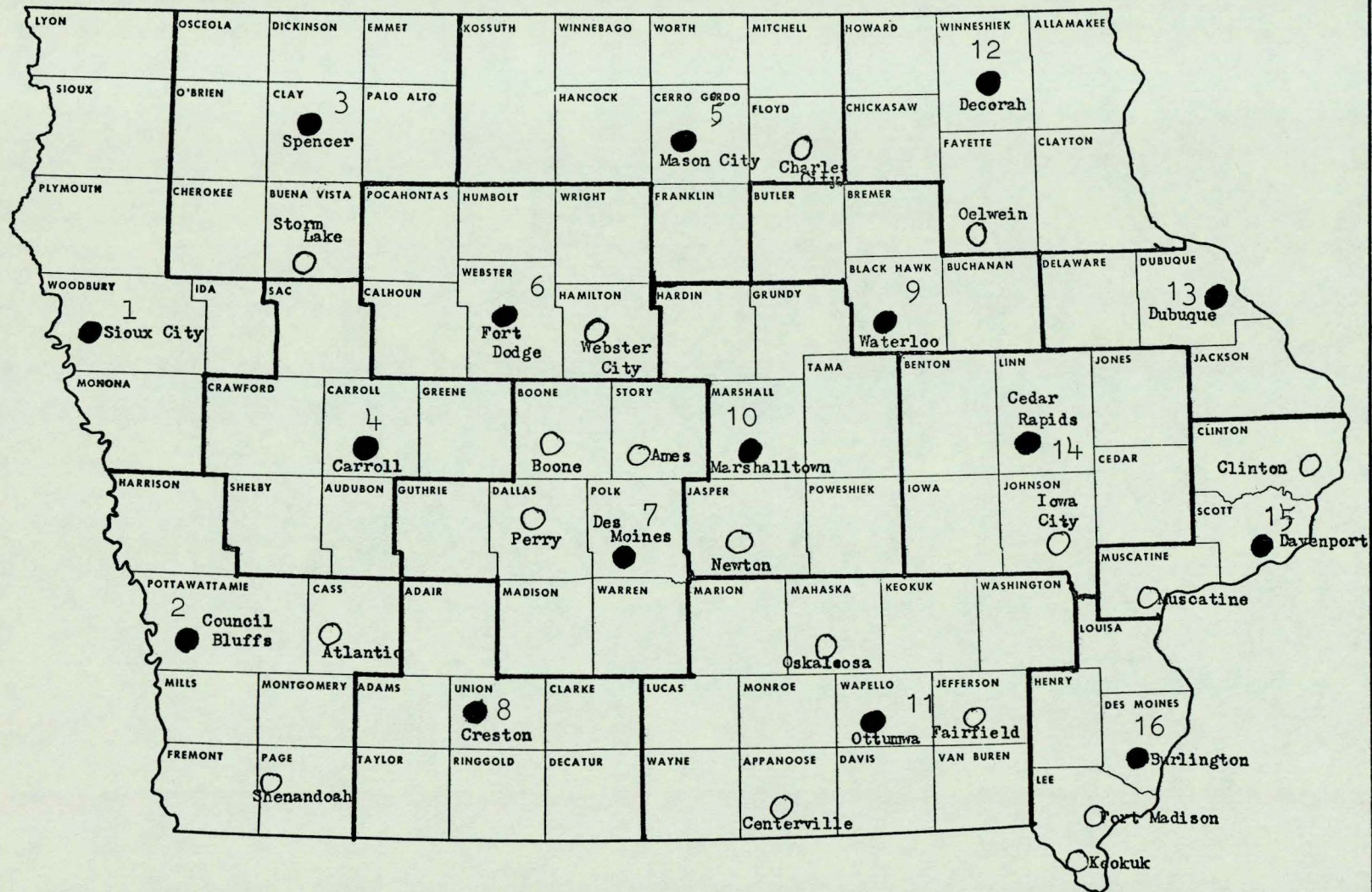
multi-county sub-areas designated. These sub-areas were created to coincide with the 16 Local Coordinating Committee Areas of the Iowa Employment Security Commission. Thus, it is possible to identify each of the 16 multi-county sub-areas with the name of the city which the Employment Security Commission uses to identify their coordinating areas. Examination of Map 2 (Iowa's Area Community Colleges and Area Vocational Schools) in conjunction with Map 1 will show the close geographical similarity between these Area Schools and the 16 multi-county sub-areas used to analyze the job vacancy data in this publication.

Finally, two points should be noted here. In the Appendix, the A tables refer to full-time permanent job vacancies. Thus for the purpose of training future workers the data in the A tables are the most useful. Moreover, the wage data reported in Appendix Tables III-A and III-B are average hourly wage data. So when a firm reported a monthly wage rate this was converted to an hourly wage rate by assuming a 40 hour week.

IOWA MULTI-COUNTY SUB-AREAS AND
 LOCAL COORDINATING COMMITTEE AREAS

MAP 1

- 9 -

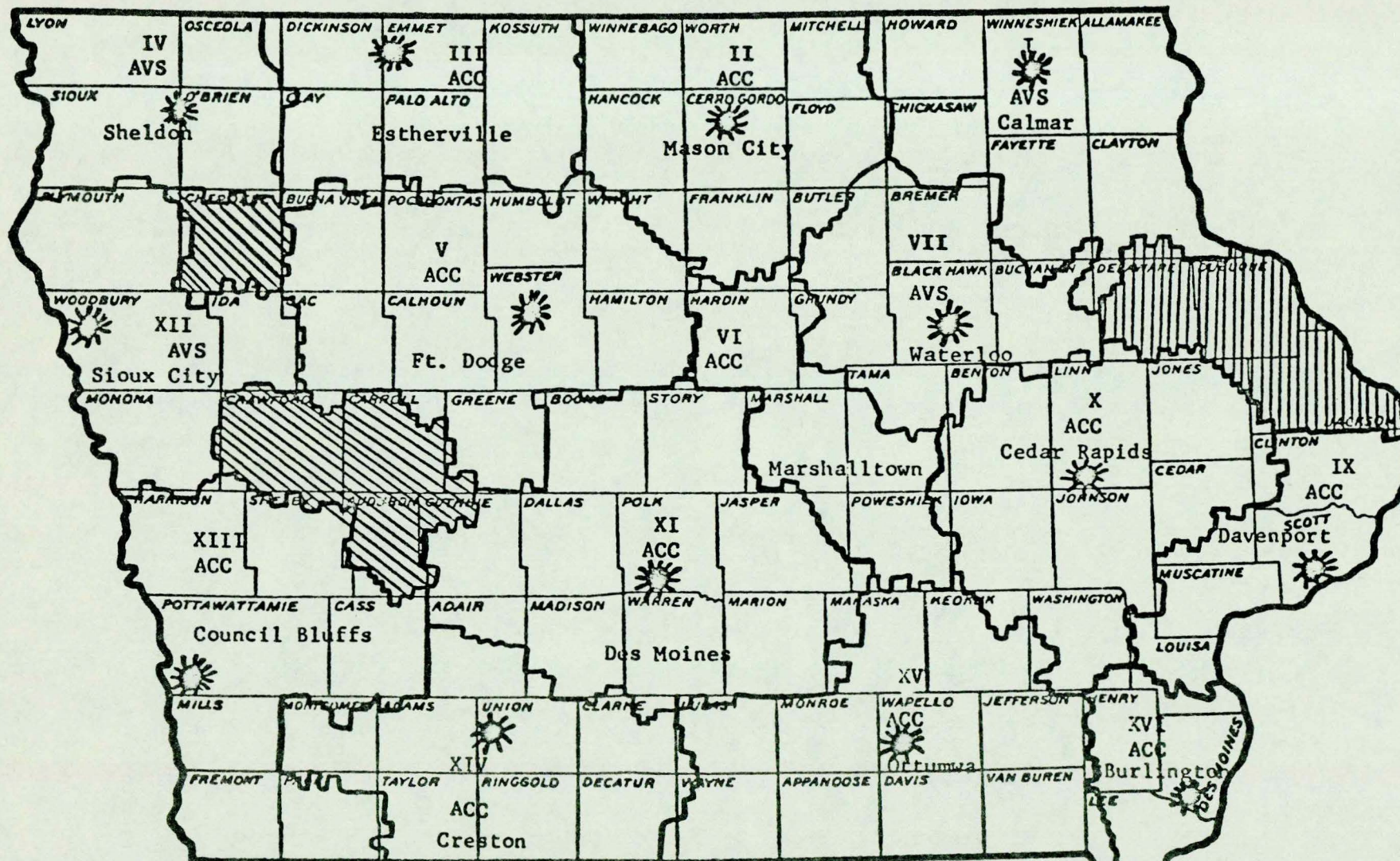


Iowa Employment Security Commission
 ○ Circles indicate Employment Service office -- solid circles indicate coordinating teams ●

ADMINISTRATIVE CENTERS AND MERGED AREAS FOR
 AREA COMMUNITY COLLEGES (ACC) AND AREA VOCATIONAL SCHOOLS (AVS)

January 1, 1967

MAP 2- - 10 -



Unattached Counties



Administrative Center



Not currently approved

Chapter III

An Overview: Structure of Job Vacancies in Iowa Manufacturing

Demand for Skilled Workers

The March-August, 1966 survey of Iowa manufacturing firms uncovered 10,186 full-time job vacancies. These vacancies ranged from electrical engineering to welders to file clerks. As would be expected the Professional, Technical and Managerial Occupational Group had relatively few vacancies -- 244 or about 2.4% of the total vacancies, due to the fact that only manufacturing firms were interviewed. Some of the most active detailed occupational groups (three digit D.O.T. number) within the Professional, Technical and Managerial group uncovered by the survey are mechanical engineering (with 54 vacancies in 1966), electrical engineering (48 vacancies), draftsmen (26 vacancies), manufacturing industry management (15 vacancies), industrial engineering (16 vacancies), and accountants and auditors (13 vacancies).¹

The largest number of vacancies are in the Processing Occupations. These occupations had 3,371 unfilled jobs at

1. The D.O.T. number for each of these occupational titles is given in Table I-A of this publication.

The fourth largest number of job vacancies are in the Bench Work Occupations. These include assembly and repair of electrical appliances and fixtures occupations (365 vacancies), metal unit assemblers and adjusters occupations (325 vacancies), sewing machine operators - nongarment occupations (174 vacancies), assembly and repair of electronic components (158 vacancies), assembly and repair of electronic equipment (132 vacancies), and fabrication and repair of assorted materials occupations (61 vacancies). The total number of vacancies in this major occupational group is 1,369.

The Miscellaneous Occupations group has 388 vacancies with over one-third of them in the heavy truck drivers group with 132 vacancies. In addition there are 70 vacancies in the materials moving and storing occupations, and 54 vacancies in the hand compositors, typesetters and related occupations.

Geographical and Industry Profile

A close examination of Table I-A will reveal the geographical location of the job vacancies uncovered by the 1966 survey as well as the occupational groups within which these vacancies were uncovered. For example, the Professional, Technical and Managerial vacancies were concentrated in multi-county sub-area

7 (Des Moines area), 9 (Waterloo), 11 (Ottumwa), 15 (Davenport) and 16 (Burlington).

The Processing Occupations vacancies concentrated in eight of the sixteen sub-areas. These were sub-areas 16 (Burlington), 15 (Davenport), 14 (Cedar Rapids), 10 (Marshalltown), 9 (Waterloo), 6 (Fort Dodge), 4 (Carroll) and 2 (Council Bluffs).

Looking at the machinists and related occupations, metal machining occupations, welding occupations, and heavy truck drivers occupations, distinct geographical concentrations emerge. Sub-areas 5 (Mason City), 7 (Des Moines), 9 (Waterloo), and 15 (Davenport) emerge as areas with a high demand for machinists and related. Sub-areas 7 (Des Moines), 9 (Waterloo), 10 (Marshalltown), and 16 (Burlington) have a relatively high demand for metal machining workers. The welding vacancies from the 1966 survey are concentrated in sub-areas 15 (Davenport), 13 (Dubuque), 9 (Waterloo), 7 (Des Moines) and 1 (Sioux City); while the heavy truck drivers vacancies concentrate in sub-areas 3 (Spencer), 6 (Fort Dodge), 7 (Des Moines), 9 (Waterloo), 12 (Decorah) and 15 (Davenport).

Turning to Table II-A, an industry profile of Iowa manufacturing job vacancies for 1966 emerges. The Machinery (Except Electric) industry group has the greatest number of full-time job vacancies with 2,699 and these are concentrated in the Machine Trades (1,418), Structural Work (510) and Processing (426) occupations.

The Food and Related, and Electrical Machinery industry groups are the next two in number of vacancies. The former industry has 1,915 job vacancies almost entirely concentrated in the Processing jobs (1,561); while the latter industry has 1,133 vacancies almost entirely concentrated in Structural (561) and Bench Work (494) occupations.

There are 915 vacancies in the Chemicals and Related industry and 828 vacancies in the Fabricated Metal Products industry. Most of the Chemicals and Related job vacancies (783) are in Processing occupations, and the Fabricated Metal Products vacancies are concentrated in the Machine Trades (437) and Structural (292) occupations.

The above-mentioned five industry groups (two-digit S.I.C. number) had 7,490 job vacancies or about 74 percent of the total full-time vacancies reported by Iowa manufacturing firms for the March-August 1966 time period.

Implications For Training

One of the best uses for the data reported in Tables I, II, and III will be to facilitate the proper selection of occupations for training purposes in Iowa's Area Vocational Schools. It should be mentioned here that one possible development would be the specialization of training among Iowa's schools. Thus, while the demand for machinists may be spread throughout many

Iowa counties, the training could be limited to just a few schools (perhaps located in the sub-areas with high demand for machinists). This could help meet the state need for machinists, and do it at the lowest cost possible by bringing in the economics of scale usually associated with specialization.

Of course this example is only one of many possible uses for this type of data, and the machinist occupation is only one of many possible occupations for which specialization of training facilities may be found to be economically feasible.

TABLE I-A.

NUMBER OF JOB VACANCIES,
BY MAJOR AND DETAILED OCCUPATIONAL GROUP
IOWA AND MULTI-COUNTY SUB-AREAS, MARCH-AUGUST, 1966
(FULL-TIME)

DETAILED OCCUPATIONAL GROUP		MULTI-COUNTY SUB-AREAS																
DOT NO.	TITLE	1 Sioux City	2 Council Bluffs	3 Spencer	4 Carroll	5 Mason City	6 Ft. Dodge	7 Des Moines	8 Creston	9 Waterloo	10 Marshalltown	11 Ottumwa	12 Decorah	13 Dubuque	14 Cedar Rapids	15 Davenport	16 Burlington	IOWA TOTAL
(1) Professional Technical & Managerial Occ.																		
003	Electrical Engineering							1		1		14				13	19	48
005	Civil Engineering		1															1
007	Mechanical Engineering							10		7		10		1		20	6	54
008	Chemical Engineering															1	1	2
011	Metallurgy & Metallurgical Engineering						1			1								2
012	Industrial Engineering					1				1			1			9	4	16
017	Draftsmen							4	1	4	4		2			8	3	26
020	Mathematics	2					2	4								8		16
022	Chemistry							2										2
029	Mathematics & Physical Sciences			1														1
040	Agricultural Sciences														1			1
041	Biological Sciences					9	2	1										12
071	Osteopaths							2										2
077	Dietitians			1														1
100	Librarians					1												1
132	Writers & Editors, Publications			2						7	2	1		1			1	14
141	Commercial Artists										4	1						5
143	Photography			1								2					1	4
160	Accountants & Auditors						2	1								10		13

DETAILED OCCUPATIONAL GROUP		MULTI-COUNTY SUB-AREAS																
DOT NO.	TITLE	1 Sioux City	2 Council Bluffs	3 Spencer	4 Carroll	5 Des Moines	6 Ft. Dodge	7 Des Moines	8 Creston	9 Waterloo	10 Marshalltown	11 Ottumwa	12 Decorah	13 Dubuque	14 Cedar Rapids	15 Davenport	16 Burlington	IOWA TOTAL
266	Saleswork, Chemicals & Drug Preparations					4												4
273	Saleswork, Metal & Metal Products															1		1
275	Saleswork, Hotel & Rest. Equip & Supplies			1										1				2
276	Saleswork, Ind. Const. Mining, Drill Eqpt							1										1
277	Saleswork, Farm & Garden Equip & Supplies				9		1	1				10						21
281	Saleswork, Bus & Comm Mach, Equip & Spls		1															1
292	Routemen							1		3	4							8
(3) Service Occupations																		
363	Pressing Service											1						1
382	Janitors					1						1						2
(4) Farming, Fishery Forestry & Rel. Occ.																		
401	Grain Farming											143						143
405	Crop Specialty Farming															12		12
406	Horticultural Specialty Work										3							3
409	Plant Farming				6		6	2			4		2		3			23
412	Poultry Farming											2						2
413	Livestock Farming											2						2
419	Animal Farming		1	2										3				6
424	Farm Machinery Operators												1					1
429	Misc. Farming & Related.		1		2						2		2					7
(5) Processing Occupations																		
502	Melting, Pouring, Casting & Rel.								5			2						7
503	Pickling, Cleaning, Degreasing & Rel.										60	2						62
509	Metal Processing	20						30			26	13		25			15	129
512	Melting										1							1

DETAILED OCCUPATIONAL GROUP		MULTI-COUNTY SUB-AREAS																
DOT NO.	TITLE	1 Sioux City	2 Council Bluffs	3 Spencer	4 Carroll	5 Mason City	6 Ft. Dodge	7 Des Moines	8 Creston	9 Waterloo	10 Marshalltown	11 Ottumwa	12 Decorah	13 Dubuque	14 Cedar Rapids	15 Davenport	16 Burlington	IOWA TOTAL
615	Punching & Shearing						1	3									2	58
616	Fabricating Machine Work	9						71		50				2	10	9		151
617	Metal Forming						2	2			5	1			6	20		36
619	Misc. Metalworking	3					8	25		115	7	4			25	7	15	209
620	Motorized Vehicle & Eng Equip Repair				1			3		2	6					6		18
625	Engine, Power Trans & Rel Equip Repair														1			1
626	Metalworking Machinery Repairing							3										3
638	Misc. Machine Installation & Repair										1		2		3			6
642	Paper Sewing																	4
643	Corrugating Work				4			1			6				100			107
649	Paperworking							3										3
650	Typesetters & Composing	1	2				1			2	1		4					11
651	Printing Press Work						1	2		2	3			15			1	24
652	Printing Machine Work					1									4			5
659	Printing Work														1			1
660	Cabinetmakers					3		7			3			4	4	6	4	31
661	Patternmakers									2								2
667	Sawing		3												1			4
669	Wood Machining							2						2			4	8
676	Boring & Punching																2	2
690	Plastics, Synthetics, Rubber & Leather														1			1
691	Insulating Wire & Cable Fabricating																20	20
693	Modelmakers, Patternmakers, & Rel.									3								3
(7) Bench Work Occupations																		
701	Fab. Assembly, Repair Tools & Rel.										10						1	11
705	Filing, Grind, Buff, Clean & Polishing					1	1					5				5		12

DETAILED OCCUPATIONAL GROUP		MULTI-COUNTY SUB-AREAS																
DOT NO.	TITLE	1 Sioux City	2 Council Bluffs	3 Spencer	4 Carroll	5 Mason City	6 Ft. Dodge	7 Des Moines	8 Creston	9 Waterloo	10 Marshalltown	11 Ottumwa	12 Decorah	13 Dubuque	14 Cedar Rapids	15 Davenport	16 Burlington	IOWA TOTAL
812	Combination Arc & Gas Welders	31	1	3	20	1	6	41		57	17	7	11	110	5	3	53	366
813	Resistance Welders															125		125
819	Welders, Flame Cutters & Related							3				3						6
824	Lighting Equip Building Wiring & Rpr							1		1		2			4	4	2	14
827	Large Hsld Appl & Comm & Ind Equip														201		300	502
829	Assembly Instl & Rpr Electrical Prod.							3										3
840	Construction & Mntnc Painting & Rel.															2		2
844	Cement & Concrete Finishing & Rel.				45					1								46
850	Excavating Grading & Related						2	1										3
851	Drainage & Related														1			1
852	Concrete Paving												12					12
853	Asphalt Paving						9								2	2		13
859	Excavating Grading Paving & Related	1					2	2							4			9
860	Carpenters & Related	5			2			50	8	1	13		2	11	20	104	10	226
861	Brick & Stone Masons & Tile Setters							15							13			28
862	Plumbers Gasfitters Steamfitters & Rel.						4									6		10
865	Glaziers & Related			2										1				3
869	Misc. Construction Work						1		6						1		1	9
891	Structural Maintenance															1		1
892	Hoisting & Conveying														2		2	4
899	Misc. Structural Work					1			3		5			1			8	18
(9) Miscellaneous Occupations																		
902	Dump Truck Drivers																14	14
905	Truck Drivers, Heavy	8	2	10	5	7	11	23	1	16	7	2	20		3	11		132
906	Truck Drivers, Light	2	1	1	7	1		9							3		6	24

DETAILED OCCUPATIONAL GROUP		MULTI-COUNTY SUB-AREAS																
DOT NO.	TITLE	1 Sioux City	2 Council Bluffs	3 Spencer	4 Carroll	5 Mason City	6 Ft. Dodge	7 Des Moines	8 Creston	9 Waterloo	10 Marshalltown	11 Ottumwa	12 Decorah	13 Dubuque	14 Cedar Rapids	15 Davenport	16 Burlington	IOWA TOTAL
920	Packaging		3	2		1		3								3	1	13
921	Hoisting & Conveying														2			2
922	Materials Moving & Storing	9		4	3	2		4			2		1		5	31	9	70
929	Packaging & Materials Handling					5		2		4	2	2	2		4	10	1	32
930	Boring, Drilling, Cutting & Related	1																1
932	Loading & Conveying						4	1									2	7
940	Timber Cutting & Related														1			1
941	Log Inspecting, Grading, Scaling & Rel.															1		1
949	Logging																1	1
970	Art Work, Brush, Spray or Pen						1			1								2
972	Lithographers & Related	1																1
973	Hand Compositors, Typesetters & Rel.	1	1	2				1		21	9	9	1		5	3	1	54
976	Darkroom Work	1																1
977	Bookbinders & Related							6		13		1			1			21
979	Graphic Art Work									1	10							11

TABLE II-A

NUMBER OF JOB VACANCIES,
BY INDUSTRY AND MAJOR OCCUPATIONAL GROUP,
IOWA, MARCH-AUGUST, 1966. (FULL-TIME)

INDUSTRY GROUP	MAJOR OCCUPATIONAL GROUP									
	Professional, Techn & Managerial	Clerical & Sales	Service	Farming, Fishery, Forestry & Rel.	Processing	Machine Trades	Bench Work	Structural	Miscellaneous	TOTAL-IOWA
Food & Rel.	31	48		172	1561	28		9	66	1915
Apparel					3		109		1	113
Lumber & Wood					16	31	2	93	8	150
Furniture & Fixtures	1	5				22	40	129	12	209
Paper & Rel.		20				121	62			203
Printing, Publishing & Rel.	21	37	2			37		15	81	193
Chemicals & Rel.	14	31		12	783	31	7	7	30	915
Petroleum Refining & Rel.								9	7	16
Rubber & Plastic	10					45	61			116
Leather & Rel.					10		28			38
Stone, Clay & Glass	3	4		12	205	10	1	127	112	474
Primary Metal Indus.	4	4			335	45	29	25	5	447
Fabricated Metal	11	11			30	437	30	292	17	828
Machinery (Except Elec.)	48	18		3	426	1418	241	510	35	2699
Elec. Machinery	32					45	494	561	1	1133
Transportation		2				49	2	131		184
Control Instru,; Photo Goods; Time Instru.	57	2				106	241	2		408
Misc. Mfg.	12	19	1		2	46	22	30	13	145
TOTAL	244	201	3	199	3371	2471	1369	940	388	10186

TABLE II-B

NUMBER OF JOB VACANCIES,
BY INDUSTRY AND MAJOR OCCUPATIONAL GROUP,
IOWA, MARCH-AUGUST, 1966. (PART-TIME)

INDUSTRY GROUP	MAJOR OCCUPATIONAL GROUP									
	Professional, Techn. & Managerial	Clerical & Sales	Service	Farming, Fishery, Forestry & Rel.	Processing	Machine Trades	Bench Work	Structural	Miscellaneous	TOTAL - IOWA
Food & Rel.				1491	17				4	1512
Apparel							1			1
Printing, Publishing & Rel.	1	16				75			2	94
Chemicals & Rel.				1	50					51
Petroleum Refining & Rel.								8		8
Primary Metal Indus.					25					25
Machinery (Except Elec.)							2		1	3
Control Instru,; Photo Goods; Time Instru.							80			80
TOTAL	1	16		1492	92	75	83	8	7	1774

TABLE III-A

NUMBER OF JOB VACANCIES AND AVERAGE HOURLY WAGE RATES OFFERED,
BY DETAILED OCCUPATIONAL GROUP,
99 COUNTIES. MARCH-AUGUST 1966. (FULL-TIME)

SUB-AREA 1

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE^{1/}</u>
Ida	Typesetters & Composers	1	2.00
	Fabrication & Repair of Misc. Plastic Prod.	10	1.60
	Hand Compositors, Typesetters & Related	1	2.24
	Darkroom Work	1	1.88
Lyon	Mixing, Compounding, Blending & Rel.	1	1.25
	Machinists & Related	1	--
	Comb. Arc and Gas Welders	2	--
Sioux	Processing, nonmetallic Minerals & Rel.	7	1.30
	Excavating, Grading, Paving & Rel.	1	--
	Carpenters & Related	5	1.49
	Truck Drivers, Heavy	8	1.25
	Boring, Drilling, Cutting, & Rel.	1	--
Woodbury	Mathematics	2	--
	Purchasing Management	2	--
	Computing and Account-Recording	5	2.00
	Metal Processing	20	2.03
	Cooking and Baking	2	1.12
	Machinists and Related	4	2.20
	Metal Machining	32	1.83
	Fabricating Machine Work	9	2.26
	Misc. Metalworking	3	1.50
	Fitting, Bolting, Screwing & Rel.	5	2.00
	Misc. Metal Fabricating	5	--
	Comb. Arc and Gas Welders	29	2.08
	Truck Drivers, Light	2	1.25
	Materials Moving & Storing	9	2.51
Lithographers and Related	1	1.25	

SUB-AREA 2

Cass	Processing, Food & Related	2	2.00
	Metal Unit Assemblers & Adjusters	1	--
	Comb. Arc and Gas Welders	1	--
Harrison	Forming	6	1.25
Montgomery	Misc. Farming & Related	1	1.40
	Crushing, Grinding & Mixing	1	1.40
	Truck Drivers, Heavy	2	1.40

^{1/} Employers reported beginning wage rate.
Dash indicates wage data not reported.

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Page	Sawing	3	2.50
	Cooperage	1	2.50
	Truck Drivers, Light	1	2.50
	Packaging	3	1.32
Pottawat- tamie	Civil Engineering	1	5.00
	Manufacturing Industry Management	1	3.75
	Service Industry Management	1	3.75
	Stenography, Typing, Filing & Rel.	1	2.79
	Saleswork, Foodstuffs, Beverages & Tobacco	1	2.00
	Saleswork Paper & Paper Products	1	2.79
	Saleswork, Business & Commercial Machines	1	2.79
	Animal Farming	1	1.50
	Molders, Coremakers & Rel.	1	3.00
	Separating, Crushing, Milling	2	1.58
	Slaughtering, Breaking, Curing & Rel.	1	1.50
	Processing Food & Related	250	1.35
	Machinists & Rel.	3	2.15
	Typesetters & Composers	2	1.25
	Hand Sewers, Menders	1	1.45
Hand Compositors, Typesetters & Related	1	1.25	
<u>SUB-AREA 3</u>			
Buena Vista	Slaughtering, Breaking, Curing & Rel.	1	1.45
Cherokee	Writers & Editors, Publications	1	2.50
	Photography	1	2.50
	Heating, Rendering, Melting	2	1.60
	Metal Machining	20	1.50
	Truck Drivers, Heavy	10	1.50
	Truck Drivers, Light	1	2.50
	Packaging	2	1.25
Emmet	Mathematics & Physical Science	1	1.50
	Dietitians	1	3.50
	Writers & Editors, Publications	1	--
	Typists	7	1.50
	Saleswork, Foodstuffs, Beverages & Tobacco	3	3.00
	Processing, Food & Related	31	2.66
	Turning	2	1.75
	Comb. Arc & Gas Welders	1	1.75
O'Brien	Animal Farming	2	1.25
	Sewing Machine Operators, Nongarment	15	1.38
	Hand Compositors, Typesetters & Rel.	2	1.90
Osceola	Saleswork, Hotel & Restaurant Equip & Spl.	1	--
	Glaziers & Related	2	1.63

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Palo Alto	Machinists and related	2	1.80
	Metal Unit Assemblers and Adjusters	7	1.32
	Painters, Spray	2	1.60
	Comb. Arc & Gas Welders	2	1.70
	Materials Moving and Storing	4	1.40
<u>SUB-AREA 4</u>			
Audubon	Metal Machining	10	1.40
	Comb. Arc & Gas Welders	5	1.85
Carroll	Misc. Farming and Related	2	1.50
	Carpenters and Related	1	--
	Truck Drivers, Heavy	1	--
Crawford	Typists	1	--
	Saleswork, Farm & Garden Equip & Supplies	1	1.75
	Plant Farming	6	--
	Slaughtering, Breaking, Curing & Rel.	300	2.70
	Materials Moving & Storing	3	1.35
Greene	Saleswork, Farm & Garden Equip & Supplies	4	3.00
	Mixing, Compounding, Blending	2	1.80
	Crushing, Grinding & Mixing	2	1.30
	Truck Drivers, Heavy	4	1.30
	Comb. Arc & Gas Welders	11	2.13
Sac	Cooking and Baking	1	--
	Processing, Food & Related	1	--
	Cement & Concrete Finishing & Rel.	45	2.07
	Truck Drivers, Light	7	2.38
Shelby	Saleswork, Farm & Garden Equip & Supplies	4	3.44
	Motorized Vehicle & Eng Equip Repair	1	1.75
	Assembler of Wood Products	2	1.35
	Comb. Arc & Gas Welders	4	1.82
	Carpenters & Related	1	1.35
<u>SUB-AREA 5</u>			
Cerro Gordo	Manufacturing Industry Management	1	2.00
	Secretaries	1	1.25
	Salesmen, Real Estate & Insurance	1	--
	Saleswork, Chemicals & Drug Preparations	4	5.63
	Processing, Food & Related	4	2.05
	Forming	4	2.50
	Processing Leather & Textiles	3	1.35
	Cabinet Makers	3	1.90
	Fabrication & Repair Misc. Plastic Prod.	6	1.80

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Cerro Gordo (cont.)	Sewing Machine Operators, Nongarment	1	1.35
	Truck Drivers, Heavy	2	1.85
	Materials Moving & Storing	1	1.35
	Packaging & Materials Handling	1	1.85
Floyd	Industrial Engineers	1	4.35
	Biological Sciences	9	5.63
	Librarians	1	4.50
	Machinists & Related	127	2.24
	Toolmakers & Related	5	1.65
	Paper Sewing	4	1.60
	Filing, Grinding, Buffing	1	1.50
	Comb. Arc & Gas Welders	1	1.75
	Materials Moving & Storing	1	1.60
	Packaging & Materials Handling	4	1.60
Franklin	Processing, Nonmetallic Minerals & Rel.	3	1.90
Hancock	Printing Press	1	2.50
Kossuth	Manufacturing Industry Management	1	1.90
	Duplicating-Machine Operators	2	1.25
	Misc. Office Machine Operators	1	1.25
	Janitors	1	1.25
	Turning	3	2.00
	Milling & Planing	1	2.13
	Assembly & Repair of Elec Equip	2	2.24
	Painters, Spray	8	1.89
Mitchell	Truck Drivers, Heavy	5	1.60
Winnebago	Assembly & Repair of Elec Equip	5	1.25
	Fabrication & Repair of Prod. Assorted Mat.	2	1.25
	Fabrication & Repair of Furniture	1	1.50
	Misc. Structural Work	1	1.75
	Truck Drivers, Light	1	1.88
	Packaging	1	1.25
Worth	Sewing Machine Operators Nongarment	25	1.32
<u>SUB-AREA 6</u>			
Calhoun	Comb. Arc & Gas Welders	1	1.35
Hamilton	Plant Farming	6	1.75
	Slaughtering, Breaking Curing & Rel.	90	1.39
	Cooking and Baking	2	--
	Typesetters & Composers	1	1.65
	Printing Press	1	1.65
	Filing, Grinding, Buffing	1	1.75

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Hamilton (cont.)	Painters, Spray	3	2.05
	Misc. Metal Fabricating	52	2.05
	Arc Welders	5	2.15
Humbolt	Separating, Crushing, Milling	5	1.65
	Metal Machining	5	1.70
	Comb. Arc & Gas Welders	5	1.80
	Excavating, Grading & Rel.	2	1.90
	Asphalt Paving	3	--
	Truck Drivers, Heavy	6	1.65
	Loading and Conveying	4	2.15
Webster	Metallurgy and Metallurgical Eng.	1	2.16
	Mathematics	2	4.25
	Biological Sciences	2	4.25
	Accountants and Auditors	2	2.30
	Manufacturing Industry Management	3	--
	Typists	6	1.56
	Personnel Clerks	1	--
	Saleswork, Farm & Garden Equip & Spl.	1	--
	Separating, Crushing, Milling	3	2.41
	Processing, Food & Rel.	15	2.19
	Processing, Chemicals & Rel.	15	2.15
	Crushing, Grinding & Mixing	28	1.83
	Forming	4	1.83
	Processing, Nonmetallic Minerals & Rel.	13	1.88
	Machinists & Rel.	4	2.60
	Metal Machining	5	2.31
	Punching & Shearing	1	2.75
	Metal Forming	2	3.55
	Misc. Metalworking	8	2.42
	Assembly & Repair Elec Components & Acc.	100	1.62
	Fitting, Bolting, Screwing & Rel.	25	2.15
	Arc Welders	10	2.79
	Asphalt Paving	6	1.83
	Excavating, Grading, Paving & Rel.	2	1.85
	Plumbers, Gas Fitters, Steam Fitters & Rel.	4	1.75
	Misc. Construction Work	1	2.50
	Truck Drivers, Heavy	5	1.75
Art Work, Brush, Spary or Pen	1	3.00	
Wright	Processing, Chemicals & Rel.	3	1.95
<u>SUB-AREA 7</u>			
Boone	Mechanical Engineers	1	--
	Draftsmen	2	--
	Osteopaths	2	--
	Manufacturing Industry Management	1	--
	Typists	1	--

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Boone (cont.)	Saleswork, Farm & Garden Equip & Spl.	1	3.00
	Machinists	1	--
	Metal Machining	8	1.80
	Painters, Spray	2	2.78
	Fitting, Bolting, Screwing & Rel.	4	--
	Tinsmiths, Coppermiths & Sheet Metal	4	2.83
	Misc. Metal Fabricating	6	2.15
	Comb. Arc & Gas Welders	4	2.78
Dallas	Plant Farming	2	1.75
	Machinists and Rel.	2	--
	Comb. Arc & Gas Welders	2	3.50
Guthrie	Bookkeepers	1	--
	Mixing, Compounding, Blending	1	1.42
	Processing, Nonmettalic Minerals & Rel.	2	1.50
	Motorized Vehicle & Eng. Equip. Repair	1	1.50
	Excavating, Grading, & Rel.	1	1.75
	Excavating, Grading, Paving & Rel.	2	1.75
	Carpenters & Related	2	2.50
	Truck Drivers, Heavy	13	1.49
Madison	Punching & Shearing	1	1.80
	Cabinetmakers	3	2.00
	Tinsmiths, Coppermiths & Sheet Metal	3	2.00
	Comb. Arc & Gas Welders	2	1.80
	Truck Drivers, Heavy	1	1.35
	Materials Moving & Storing	1	1.35
Polk	Mechanical Engineers	4	2.40
	Draftsmen	2	2.40
	Mathematics	4	3.00
	Accountants and Auditors	1	--
	Administrative Specialties	1	--
	Misc. Managerial Work	1	1.82
	Typists	1	1.88
	Shipping and Receiving Clerks	10	2.18
	Messenger & Related	1	2.50
	Saleswork, Foodstuffs, Beverages & Tobacco	2	--
	Saleswork, Industrial, Const, Mining & Drilling	1	--
	Routemen	1	2.70
	Metal Processing	30	2.10
	Processing, Food & Rel.	8	2.28
	Mixing and Blending	15	1.58
	Processing, Nonmettalic Minerals & Rel.	25	1.80
	Machinists & Rel.	302	2.50
	Toolmakers & Rel.	6	3.00
	Punching & Shearing	2	2.47
	Metal Machining	47	2.56
Fabricating Machine Work	71	2.03	

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>	
Polk (cont.)	Metal Forming	2	2.35	
	Misc. Metal Working	25	2.30	
	Motorized Vehicle & Eng. Equip. Repair	1	2.05	
	Metalworking Machinery Repair	3	1.25	
	Corrugating	1	1.50	
	Paperworking	3	1.45	
	Cabinetmakers	4	3.38	
	Wood Machining	2	1.50	
	Metal Unit Assemblers & Adjusters	112	2.39	
	Fabrication & Repair Assorted Materials	2	1.79	
	Tinsmiths, Coppersmiths & Sheet Metal	7	2.36	
	Misc. Metal Fabricating	30	2.36	
	Arc Welders	60	--	
	Comb. Arc & Gas Welders	22	2.48	
	Lighting Equip & Bldg Wiring Assembly etc.	1	--	
	Carpenters and Rel.	2	1.60	
	Truck Drivers, Heavy	6	1.79	
	Packaging	3	2.20	
	Materials Moving & Storing	3	2.07	
	Packaging and Materials Handling	2	2.09	
	Loading and Conveying	1	2.05	
	Bookbinders & Rel.	6	1.50	
	Story	Electrical Engineering	1	--
		Mechanical Engineering	5	2.85
		Chemistry	2	--
		Biological Sciences	1	--
		Manufacturing Industry Management	3	1.50
		Processing, Food & Rel.	5	1.25
Machinists & Related		10	3.24	
Toolmakers & Related		6	3.40	
Turning		1	2.25	
Metal Machining		25	1.65	
Motorized Vehicle & Eng Equip Repair		1	1.80	
Assembly & Repair Elec Appliances & Fixtures		300	1.40	
Assembly & Repair Electronic Components & Acc.		5	2.85	
Painters, Spray		2	1.58	
Fabrication & Repair Sand, Stone, Clay Prod.		5	3.80	
Sewing Machine Operators, Nongarment		30	1.65	
Gas Welders		2	2.30	
Comb Arc & Gas Welders		11	2.13	
Welders, Flame Cutters & Rel		3	2.14	
Assembly, Installation & Repair Elec Prod.		3	2.25	
Carpenters & Rel.		46	2.24	
Brick & Stone Masons & Tilesetters		15	2.50	
Truck Drivers, Heavy		3	2.13	
Truck Drivers, Light	7	1.80		
Warren	Printing Press	2	1.25	
	Hand Compositors, Typesetters & Related	1	2.00	

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
<u>SUB-AREA 8</u>			
Adair	Carpenters & Rel.	8	2.00
	Misc. Construction Work	6	--
Adams	Processing, Food & Rel.	3	1.50
	Truck Drivers, Heavy	1	2.75
Decatur	Typists	2	1.25
	Processing, Chemicals & Rel.	4	1.25
Union	Draftsmen	1	1.50
	Salesmen, Real Estate & Insurance	1	6.75
	Melting, Pouring, Casting & Rel.	5	--
	Molders, Coremakers & Rel.	10	--
	Ore Refining & Foundry	100	--
	Heating, Rendering, Melting	1	1.60
	Processing, Food & Rel.	1	1.35
	Metal Machining	1	1.40
	Misc. Structural Work	3	--
<u>SUB-AREA 9</u>			
Black Hawk	Electrical Engineering	1	3.36
	Mechanical Engineering	7	3.77
	Metallurgy & Metallurgical Engineering	1	2.66
	Industrial Engineering	1	2.66
	Draftsmen	4	2.15
	Writers & Editors, Publications	6	--
	Typists	6	1.75
	Personnel Clerks	1	3.36
	Stenography, Typing, Filing & Rel.	6	1.79
	Automatic Data-Processing Equip Operators	1	1.86
	Computing and Account Recording	4	1.50
	Shipping & Receiving Clerks	1	2.08
	Salesmen, Printing & Advertising	6	2.87
	Routemen	3	3.13
	Molders, Coremakers & Rel.	1	2.60
	Ore Refining & Foundry	410	2.93
	Processing, Nonmetallic Minerals & Rel.	20	2.20
	Machinists & Rel.	110	3.25
	Toolmakers & Rel.	10	3.41
	Turning	21	2.96
	Metal Machining	260	2.36
	Fabricating Machine Work	50	2.06
	Misc. Metalworking	115	2.98
	Motorized Vehicle & Eng. Equip Repair	2	2.80
	Typesetters & Composers	1	2.60
	Printing Press	2	2.62
Patternmakers	2	4.65	
Modelmaking, Patternmaking & Rel.	3	4.65	

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Black Hawk (cont.)	Metal Unit Assemblers	4	2.07
	Painters, Spray	3	2.33
	Upholstering & Mattress & Bedspring Fab & Rpr	2	2.50
	Tailors & Dressmakers	1	1.50
	Tinsmiths, Coppermiths & Sheet Metal	26	2.41
	Arc Welders	3	2.10
	Comb. Arc & Gas Welders	45	2.59
	Lighting Equip & Bldg Wiring Assembly etc.	1	2.80
	Large Household Appl & Comm & Ind Equip	1	2.00
	Cement & Concrete Finishing & Rel.	1	2.50
	Carpenters & Rel.	1	2.80
	Truck Drivers, Heavy	11	2.96
	Packaging & Materials Handling	4	1.75
	Art Work, Brush, Spray or Pen	1	2.41
	Hand Compositors, Typesetters & Rel.	16	2.87
	Bookbinders & Rel.	12	2.00
	Graphic Art Work	1	2.00
Bremer	Writers & Editors, Publications	1	1.50
	Manufacturing Industry Management	1	2.00
	Typists	4	1.50
	Separating, Crushing, Milling	6	1.25
	Processing, Food & Rel.	6	1.55
	Processing, Chemicals & Rel.	19	1.43
	Toolmakers & Rel.	20	2.91
	Metal Machining	20	2.84
	Metal Unit Assemblers & Adjusters	10	2.91
	Comb. Arc & Gas Welders	10	2.91
Hand Compositors, Typesetters & Rel.	3	1.89	
Bookbinders & Related	1	1.30	
Buchanan	Manufacturing Industry Management	2	--
	Processing, Food & Rel.	2	--
	Machinists & Rel.	2	2.13
	Comb. Arc & Gas Welders	2	2.13
Butler	Processing, Nonmetallic Minerals & Rel.	25	1.75
	Typesetters & Composers	1	2.25
	Truck Drivers, Heavy	5	1.75
	Hand Compositors, Typesetters & Rel.	2	2.00
<u>SUB-AREA 10</u>			
Grundy	Processing, Food & Rel.	225	1.25
	Comb. Arc & Gas Welders	15	--
	Hand Compositors, Typesetters, & Rel.	2	2.75
Hardin	Writers & Editors, Publications	1	2.25
	Purchasing Management	1	3.00
	Administrative Specialties	1	3.60
	Manufacturing Industry Management	2	3.45
	Misc. Farming & Rel.	2	2.50

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Black Hawk (cont.)	Metal Unit Assemblers	4	2.07
	Painters, Spray	3	2.33
	Upholstering & Mattress & Bedspring Fab & Rpr	2	2.50
	Tailors & Dressmakers	1	1.50
	Tinsmiths, Coppermiths & Sheet Metal	26	2.41
	Arc Welders	3	2.10
	Comb. Arc & Gas Welders	45	2.59
	Lighting Equip & Bldg Wiring Assembly etc.	1	2.80
	Large Household Appl & Comm & Ind Equip	1	2.00
	Cement & Concrete Finishing & Rel.	1	2.50
	Carpenters & Rel.	1	2.80
	Truck Drivers, Heavy	11	2.96
	Packaging & Materials Handling	4	1.75
	Art Work, Brush, Spray or Pen	1	2.41
	Hand Compositors, Typesetters & Rel.	16	2.87
	Bookbinders & Rel.	12	2.00
	Graphic Art Work	1	2.00
Bremer	Writers & Editors, Publications	1	1.50
	Manufacturing Industry Management	1	2.00
	Typists	4	1.50
	Separating, Crushing, Milling	6	1.25
	Processing, Food & Rel.	6	1.55
	Processing, Chemicals & Rel.	19	1.43
	Toolmakers & Rel.	20	2.91
	Metal Machining	20	2.84
	Metal Unit Assemblers & Adjusters	10	2.91
	Comb. Arc & Gas Welders	10	2.91
Hand Compositors, Typesetters & Rel.	3	1.89	
Bookbinders & Related	1	1.30	
Buchanan	Manufacturing Industry Management	2	--
	Processing, Food & Rel.	2	--
	Machinists & Rel.	2	2.13
	Comb. Arc & Gas Welders	2	2.13
Butler	Processing, Nonmetallic Minerals & Rel.	25	1.75
	Typesetters & Composers	1	2.25
	Truck Drivers, Heavy	5	1.75
	Hand Compositors, Typesetters & Rel.	2	2.00
<u>SUB-AREA 10</u>			
Grundy	Processing, Food & Rel.	225	1.25
	Comb. Arc & Gas Welders	15	--
	Hand Compositors, Typesetters, & Rel.	2	2.75
Hardin	Writers & Editors, Publications	1	2.25
	Purchasing Management	1	3.00
	Administrative Specialties	1	3.60
	Manufacturing Industry Management	2	3.45
	Misc. Farming & Rel.	2	2.50

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Hardin (cont.)	Separating, Crushing, Milling	4	1.75
	Crushing, Grinding, Mixing	21	1.50
	Processing, Leather & Textiles	2	1.63
	Turning	6	--
	Tailors & Dressmakers	3	--
	Carpenters & Rel.	8	2.19
	Truck Drivers, Heavy	1	1.40
	Packaging & Materials Handling	1	2.10
	Hand Compositors, Typesetters & Rel.	1	2.50
Jasper	Draftsmen	4	2.25
	Commercial Artists	4	2.45
	Secretaries	2	2.13
	File Clerks	10	1.55
	Melting	1	1.77
	Molders, Coremakers & Rel.	4	1.73
	Misc. Metalworking	4	2.80
	Misc. Machine Installation & Repair	1	2.80
	Corrugating	6	1.97
	Printing Press	2	1.95
	Fabrication & Repair Prod Assorted Materials	4	1.96
	Misc. Metal Fabricating	6	1.69
	Arc Welders	8	2.80
	Materials Moving & Storing	2	2.12
Graphic Art Work	10	2.00	
Marshall	Writers & Editors, Publications	1	2.00
	Stenographers	1	1.50
	Typists	1	1.30
	Routemen	4	2.66
	Pickling, Cleaning, Degreasing & Rel.	60	2.18
	Metal Processing	26	2.13
	Slaughtering, Breaking, Curing & Rel.	30	2.30
	Cooking & Baking	20	1.96
	Processing, Food & Rel.	10	2.82
	Machinists & Rel.	15	--
	Toolmakers & Rel.	2	3.40
	Turning	60	2.40
	Boring	12	2.40
	Metal Machining	74	2.17
	Forming (Metal)	5	1.60
	Motorized Vehicle & Eng. Equip Repair	6	2.25
	Printing Press	1	3.00
	Fabrication, Assembly & Repair Tools & Rel.	10	2.36
	Metal Unit Assemblers & Adjusters	5	1.60
	Fabrication & Repair Prod Assorted Materials	5	2.25
	Carpenters & Rel.	2	2.25
	Misc. Structural Work	5	3.50
	Truck Drivers, Heavy	1	1.65
	Packaging & Materials Handling	1	1.50
Hand Compositors, Typesetters & Rel.	5	2.36	
Processing Chemicals & Rel.	1	2.25	

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Poweshiek	Salesmen, Real Estate & Insurance	1	7.50
	Salesmen, Printing & Advertising	1	1.17
	Saleswork, Foodstuffs, Beverages & Tobacco	4	5.00
	Horticultural Specialty	3	1.25
	Plant Farming	4	1.38
	Misc. Metalworking	3	2.10
	Typesetters & Composers	1	2.05
	Cabinet Makers	3	2.00
	Comb. Arc & Gas Welders	2	2.30
	Carpenters & Rel.	3	1.50
	Truck Drivers, Heavy	4	1.25
	Hand Compositors, Typesetters & Rel.	1	2.05
	Tama	Truck Drivers, Heavy	1
<u>SUB-AREA 11</u>			
Appanoose	Writers & Editors, Publications	1	1.69
	Metal Machining	3	1.30
	Comb. Arc & Gas Welders	2	1.35
Davis	Melting, Pouring, Casting & Rel.	2	--
	Pickling, Cleaning, Degreasing & Rel.	2	1.67
	Metal Processing	5	1.55
Jefferson	Electrical Engineering	8	--
	Mechanical Engineering	10	--
	Typists	1	--
	Stenography, Typing, Filing & Rel.	2	1.49
	Metal Processing	8	2.50
	Toolmakers & Rel.	25	1.96
	Sewing Machine Operator, Nongarment	63	1.35
	Fitting, Bolting, Screwing & Rel.	30	2.00
	Hand Compositors, Typesetters & Rel.	9	2.00
Bookbinders & Rel.	1	--	
Mahaska	Commercial Artists	1	--
	Photography	2	2.00
	Advertising Management	1	2.00
	Salesmen, Printing & Advertising	2	2.00
	Janitors	1	2.00
Marion	Misc. Metal Fabricating	50	--
Monroe	Pressing Service	1	1.25
	Hand Sewers, Menders & Rel.	8	1.25
	Fabrication & Repair Hats, Caps, Gloves & Rel.	4	1.25
	Fabrication & Repair Textile, Leather & Rel.	1	1.25

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Wapello	Saleswork, Farm & Garden Equip & Spls.	10	--
	Cooking & Baking	1	1.50
	Toolmaking & Rel.	2	3.00
	Turning	1	2.59
	Milling & Planing	1	2.16
	Metal Machining	1	2.16
	Metal Forming	1	2.16
	Misc. Metalworking	1	2.53
	Filing, Grinding, Buffing	5	--
	Comb. Gas & Arc Welding	5	2.25
	Welding, Flame Cutting & Rel	3	1.80
	Packaging & Materials Handling	2	1.75
Washington	Electrical Engineering	6	2.60
	Saleswork, Foodstuffs, Beverages & Tobacco	2	2.50
	Grain Farming	143	1.06
	Poultry Farming	2	2.40
	Livestock Farming	2	2.40
	Separating, Crushing, Milling	2	1.70
	Processing, Nonmetallic Minerals & Rel.	5	1.65
	Machinists & Rel.	4	2.90
	Misc. Metal Working	3	1.75
	Lighting Equip & Bldg Wiring Assembly, etc.	2	2.75
	Truck Drivers, Heavy	2	1.65
Wayne	Fabrication & Repair of Sporting Goods	1	1.25
<u>SUB-AREA 12</u>			
Allamakee	Carpenters & Rel.	2	1.25
Chickasaw	Draftsmen	2	2.75
	Machinists & Rel.	6	2.43
	Metal Machining	11	1.98
	Comb. Arc & Gas Welders	11	2.25
Clayton	Typists	2	1.50
	Misc. Farming & Rel.	2	1.50
	Wood Preserving & Related	3	1.75
	Truck Drivers, Heavy	8	1.50
Fayette	Industrial Engineering	1	4.50
	Saleswork, Foodstuffs, Beverages & Tobacco	1	3.00
	Mixing, Compounding, Blending	1	1.25
	Separating, Crushing, Milling	1	1.25
	Processing, Chemicals & Rel.	6	--
	Typesetters & Composers	4	2.50
	Metal Unit Assemblers & Adjusters	6	2.23
	Materials Moving & Storing	1	2.40
	Hand Compositors, Typesetters & Rel.	1	2.50

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Howard	Plant Farming	2	1.25
	Farm Machinery Operators	1	1.25
	Process, Food & Rel.	2	1.45
	Processing, Chemicals & Rel.	4	1.35
	Misc. Processing	2	1.25
	Misc. Machine Installation & Repair	2	1.40
	Fabrication & Repair of Prod Assorted Material	5	1.70
Packaging & Materials Handling	2	1.35	
Winneshiek	Pouring & Casting	23	1.55
	Metal Machining	5	1.68
	Metal Unit Assemblers & Adjusters	24	1.25
	Concrete Paving	12	2.00
	Truck Drivers, Heavy	12	2.20
<u>SUB-AREA 13</u>			
Delaware	Molders, Coremakers & Rel	3	2.30
	Processing, Leather & Textiles	10	1.73
	Fabricating Machine Work	2	2.25
Dubuque	Mechanical Engineering	1	--
	Automatic Data-Processing Equip Operators	2	1.44
	Saleswork, Hotel & Restaurant Equip & Spl	1	3.00
	Slaughtering, Breaking, Curing & Rel.	75	2.75
	Wood Preserving & Rel.	13	1.77
	Machinists & Rel.	14	2.94
	Toolmakers & Rel.	25	2.89
	Turning	8	2.31
	Metal Machining	10	2.20
	Printing Press Work	15	1.81
	Cabinetmakers	4	2.04
	Wood Machining	2	1.92
	Sewing Machine Operators, Nongarment	25	1.62
	Fitting, Bolting Screwing & Rel.	6	2.40
	Comb. Gas & Arc Welders	110	2.87
	Carpenters & Rel.	11	1.75
	Glaziers & Rel.	1	4.25
Misc. Structural Work	1	2.51	
Jackson	Writers & Editors, Publications	1	3.25
	Animal Farming	3	--
<u>SUB-AREA 14</u>			
Benton	Agricultural Sciences	1	--
	Crushing, Grinding & Mixing	2	1.30
	Brick & Stone Masons & Tilesetters	13	2.00
Cedar	Separating, Crushing, Milling	2	2.50
	Processing, Food & Rel.	3	2.10

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Iowa	Cabinetmakers	4	1.80
	Large Household Appl & Comm & Ind Equip	200	2.30
	Hand Compositors, Typesetters & Rel.	1	--
Johnson	Stock Clerks & Rel.	1	2.08
	Plant Farming	3	1.50
	Processing, Chemicals & Rel	150	1.72
	Metal Forming	6	2.27
	Misc. Metalworking	25	1.55
	Printing Machine Work	4	2.27
	Painters, Spray	1	2.40
	Large Household Appl & Comm & Ind Equip	1	1.71
	Truck Drivers, Heavy	3	1.50
	Materials Moving & Storing	4	1.76
	Hand Compositors, Typesetters & Rel.	3	1.92
Jones	Processing Nonmetallic Minerals & Rel.	30	2.18
	Printing	1	2.95
	Sawing	1	2.00
	Hoisting & Conveying	2	1.58
	Timber Cutting & Rel.	1	--
	Logging	1	1.75
Linn	Typists	20	3.00
	Pouring & Casting	2	2.54
	Cooking & Baking	1	2.13
	Processing, Chemicals & Rel.	7	2.07
	Baking, Drying & Heat-Treating	1	2.50
	Machinists & Rel.	5	2.10
	Toolmakers & Rel.	4	1.75
	Fabricating Machine Work	10	--
	Engine, Power Transmission & Rel Equip Repair	1	2.70
	Misc. Machine Installation & Repair	3	2.30
	Corrugating	100	2.60
	Plastics, Synthetics, Rubber & Leather Working	1	3.08
	Metal Unit Assemblers & Adjusters	4	2.44
	Painters, Spray	1	2.00
	Fabrication of Paper Products	35	2.21
	Fitting, Bolting, Screwing & Rel.	4	2.00
	Misc. Metal Fabricating	9	2.54
	Comb Arc & Gas Welders	5	2.01
	Lighting Equip & Bldg Wiring Assembly etc.	4	2.25
	Drainage & Rel.	1	2.50
	Excavating, Grading, & Rel.,	2	1.88
	Asphalt Paving	2	2.50
	Excavating, Grading Paving & Rel.	2	2.50
	Carpenters & Rel.	20	2.00
	Misc. Construction Work	1	4.35
	Hoisting & Conveying	2	2.25
	Truck Drivers, Light	3	1.88

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Linn (cont.)	Materials Moving and Storing	1	2.50
	Packaging and Materials Handling	4	--
	Handcompositors, Typesetters & Rel.	1	1.50
	Bookbinders and Rel.	1	3.00
<u>SUB-AREA 15</u>			
Clinton	Mechanical Engineering	6	--
	Shipping & Receiving Clerks	1	2.49
	Processing, Food & Rel.	100	1.35
	Processing, Chemicals & Rel.	25	--
	Machinists and Rel.	6	3.00
	Metal Machining	6	2.53
	Cabinetmakers	6	1.82
	Fabrication of Paper Products	10	2.02
	Tinsmiths, Coppermiths & Sheet Metal	7	4.38
	Misc. Metal Fabricating	39	2.07
	Arc Welders	40	3.03
	Resistance Welders	125	1.81
	Asphalt Paving	2	2.35
	Carpenters and Related	10	1.71
	Truck Drivers, Heavy	7	2.38
	Packaging	3	1.35
	Materials Moving & Storing	9	1.48
	Log Inspecting, Grading etc.	1	1.50
Muscatine	Culturing, Melting, Fermenting, etc.	2	1.70
	Slaughtering, Breaking, Curing & Rel.	100	1.85
	Processing, Chemicals & Rel.	200	2.48
	Forming	4	1.65
	Turning	2	2.67
	Boring	6	2.26
	Fabricating Machine Work	4	3.00
	Fabrication & Repair Prod from Assorted Mat.	25	2.20
	Arc Welders	14	2.25
	Materials Moving & Storing	10	2.11
Scott	Electrical Engineering	13	3.35
	Mechanical Engineering	14	--
	Chemical Engineering	1	--
	Industrial Engineering	9	4.64
	Draftsmen	8	2.39
	Mathematics	8	1.42
	Accountants and Auditors	10	--
	Typists	14	2.13
	Stenography, Typing, Filing & Rel.	3	2.05
	Bookkeepers	1	1.80
	Computing and Account Recording	2	2.29
	Shipping & Receiving Clerks	4	2.47
Saleswork, Metal & Metal Products	1	--	

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Scott (cont.)	Crop Specialty Farming	12	--
	Ore Refining & Foundry	10	--
	Processing, Nonmetallic Minerals & Rel.	4	2.37
	Machinists & Rel.	103	3.18
	Toolmakers & Rel.	20	3.57
	Turning	8	2.82
	Boring	11	2.38
	Metal Machining	34	2.18
	Punching and Shearing	52	2.52
	Fabricating Machine Work	5	2.75
	Metal Forming	20	2.20
	Motorized Vehicle & Eng Equip Repair	6	3.37
	Fabrication & Repair of Tools & Rel.	1	3.40
	Filing, Grinding, Buffing, etc.	5	1.83
	Metal Unit Assemblers & Adjusters	127	2.40
	Assembly & Repair Elec Appliances & Fixtures	65	3.05
	Winding & Assembly of Coils, Magnets, Arm. & Rel.	1	2.05
	Assembly & Repair of Elec Comp. & Acc.	15	2.05
	Sewing Machine Operators Nongarment	15	1.25
	Arc Welders	6	2.47
	Comb. Arc & Gas Welders	3	2.47
	Lighting Equip & Bldg Wiring Assembly, Instl.	4	3.67
	Construction & Maintenance Painting & Rel.	2	2.05
	Carpenters & Rel.	94	1.89
	Plumbers, Gas Fitters, Steam Fitters & Rel.	2	2.05
	Structural Maintenance	1	--
	Truck Drivers, Heavy	4	2.40
	Materials Moving & Storing	12	2.23
	Packaging & Materials Handling	10	2.70
	Hand Compositors, Typesetters & Rel.	3	2.00
	<u>SUB-AREA 16</u>		
Des Moines	Electrical Engineering	15	4.50
	Industrial Engineering	4	1.98
	Writers & Editors, Publications	1	2.38
	Photography	1	--
	Duplicating Machine Operators	1	--
	Salesmen, Printing & Advertising	1	2.38
	Processing, Chemicals & Rel.	22	1.94
	Machinists & Rel.	40	2.68
	Toolmakers & Rel.	10	2.82
	Metal Machining	120	2.17
	Misc. Metalworking	15	2.15
	Printing Press	1	3.18
	Cabinetmakers	4	2.55
	Wood Machining	4	2.50
	Metal Unit Assemblers & Adjusters	25	2.50
	Assembly & Repair Elec Comp & Acc.	38	1.47
Fabrication of Paper Products	4	1.80	

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
Des Moines (cont.)	Assembly & Repair Elec. Equip	40	1.61
	Fabrication & Repair Prod from Assort. Mat.	2	1.25
	Misc. Metal Fabricating	15	2.50
	Comb. Arc & Gas Welders	38	2.59
	Lighting Equip & Bldg Wiring Instl, Assembly	2	3.65
	Large Household Appl & Ind & Comm Equip Assembly	300	1.90
	Carpenters & Rel.	10	1.80
	Misc. Construction Work	1	3.45
	Hoisting & Conveying	2	2.50
	Misc. Structural Work	8	2.64
	Dump Truck Drivers	8	1.70
	Truck Drivers, Heavy	3	2.50
	Materials Moving & Storing	5	1.54
	Loading & Conveying	1	2.00
Henry	Electrical Engineering	4	--
	Mixing, Compounding, Blending, etc.	1	2.13
	Metal Machining	20	1.65
	Assembly & Repair Elec. Equip	85	1.62
	Fabrication & Repair Prod from Assort. Mat.	16	1.64
	Transportation Equip Assembling & Rel.	40	1.95
	Misc. Metal Fabricating	16	1.64
	Comb. Arc & Gas Welders	15	1.70
	Truck Drivers, Heavy	1	2.13
	Packaging	1	1.50
	Packaging & Materials Handling	1	1.70
	Hand Compositors, Typesetters & Rel.	1	1.93
Lee	Mechanical Engineers	6	--
	Chemical Engineering	1	--
	Draftsmen	3	--
	Production Clerks	2	2.20
	Shipping & Receiving Clerks	2	1.98
	Metal Processing	15	2.21
	Pouring & Casting	3	1.65
	Ore Refining & Foundry	25	2.42
	Separating, Crushing, Milling	12	2.57
	Processing, Chemicals & Rel.	527	2.28
	Toolmakers & Rel.	6	2.75
	Forging	1	1.60
	Punching & Shearing	2	2.20
	Boring & Punching	2	1.85
	Insulated Wire & Cable Fabricating	20	1.80
	Fabrication of Paper Products	13	2.23
	Misc. Metal Fabricating	2	2.45
	Dump Truck Drivers	6	1.70
	Materials Moving & Storing	4	1.60
	Loading & Conveying	1	2.10
Truck Drivers, Heavy	2	2.40	

TABLE III-B

NUMBER OF JOB VACANCIES AND AVERAGE HOURLY WAGE RATES OFFERED,
 BY DETAILED OCCUPATIONAL GROUP,
 99 COUNTIES. MARCH-AUGUST 1966. (PART-TIME)

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
<u>SUB-AREA 2</u>			
Harrison	Hand Compositors, Typesetters & Rel.	1	--
Pottawattamie	Processing, Food & Rel.	2	1.25
<u>SUB-AREA 3</u>			
Cherokee	Processing, Food & Related	1	1.50
Dickinson	Grain Farming	5	1.30
	Mixing, Compounding, Blending etc.	6	1.30
	Truck Drivers, Heavy	4	1.30
<u>SUB-AREA 5</u>			
Cerro Gordo	Crushing, Grinding & Mixing	5	1.50
Kossuth	Crushing, Grinding & Mixing	2	1.50
<u>SUB-AREA 6</u>			
Hamilton	Ore Refining & Foundry	10	1.96
	Processing, Food & Rel.	5	--
Humboldt	Grain Farming	1484	1.02
Webster	Processing, Chemicals & Rel.	6	2.20
<u>SUB-AREA 7</u>			
Boone	Grain Farming	2	1.70
Polk	Commercial Artists	1	4.50
	Stenography, Typing, Filing & Rel.	1	1.90
	Separating, Crushing, Milling	1	1.20
	Corrugating	75	1.25
<u>SUB-AREA 9</u>			
Black Hawk	Messengers & Rel.	15	1.25
	Truck Drivers, Light	1	--
<u>SUB-AREA 10</u>			
Marshall	Assembly & Repair of Elec. Equip.	80	1.51

<u>COUNTY</u>	<u>OCCUPATION</u>	<u>NUMBER OF VACANCIES</u>	<u>WAGE</u>
	<u>SUB-AREA 12</u>		
Howard	Metal Unit Assembling & Adjusting	2	1.25
	<u>SUB-AREA 14</u>		
Iowa	Mixing, Compounding, Blending etc.	2	--
Linn	Asphalt Paving	8	--
	<u>SUB-AREA 15</u>		
Clinton	Farm Machinery Operators	1	1.75
	Crushing, Grinding & Mixing	7	1.25
	Fabrication & Repair Textile, Leather & Rel.	1	1.80
Scott	Packaging & Materials Handling	1	--
	<u>SUB-AREA 16</u>		
Lee	Metal Processing	15	2.21
	Processing, Chemicals & Rel.	30	2.43

