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ABSTRACT

The eighth annual study of occupational opportunities in Nebraska is based on a 5 percent random sample of employers in each of the six Technical Community College Areas in the State. A computerized straight line projection technique was used to project total employment, need over the next 12 months, reason for need, and need over the next two years. Table 1 summarizes total projected employment and future need by occupational category. Tables 2 through 11 provide total projected employment figures at the State level and list future need and appropriate Vocational Instructional Training Programs for each occupation within the 10 occupational categories for each of the Technical Community College Areas. Tables 12 through 21 provide total projected employment figures for the State and projected need from expansion or turnover over the next 12 months for the broad occupational divisions within the 10 occupational categories for each of the Technical Community College Areas. Tables 22 through 29 project employment figures over the next 12 months and the next two years for the seven major instructional areas of vocational education. Table 30 similarly projects employment figures for all other occupations not covered by Vocational Instructional Training Programs or Dictionary of Occupational Title numbers.

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OCCUPATIONAL OPPORTUNITIES IN NEBRASKA

1975 REPORT

NEBRASKA RESEARCH COORDINATING UNIT FOR VOCATIONAL EDUCATION

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From
**STATE-WIDE COMPUTERIZED MODEL FOR DETERMINING
OCCUPATIONAL OPPORTUNITIES IN NEBRASKA**

June, 1975

By
**NEBRASKA RESEARCH COORDINATING UNIT
FOR VOCATIONAL EDUCATION
University of Nebraska
In Cooperation With
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The Nebraska State Department of Education, Division of Vocational Education
The Department of Labor, Division of Employment
The Nebraska State Advisory Council for Vocational Education

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REPORT OF STATE-WIDE MODEL FOR DETERMINING OCCUPATIONAL OPPORTUNITIES IN NEBRASKA

SUMMARY

INTRODUCTION

This was the eighth annual study to identify occupational opportunities in the state of Nebraska. The reflection of occupational changes makes the study useable by a larger segment of educational planners throughout the state. The data were gathered by survey workers from the employer as in previous years. The five percent sample was generated once for each of the six Technical Community College Areas to insure a more representative sample by area.

The emphasis of this study was to determine manpower needs and trends through asking employers to list the number of persons employed, job duties of persons employed (job description), and to project future needs according to these job descriptions.

The data supplied by employers as job descriptions were coded by job title and number using the *Dictionary of Occupational Titles*¹ and related corresponding vocational instructional training program and number according to *Vocational Education and Occupations*.² Both documents are necessary references when using the *1975 Occupational Opportunities Report* as a program planning base. Use of the *Dictionary of Occupational Titles* as the primary coding system allowed for identification of many professional level occupations that did not have training programs listed under vocational education. This facet of the study should promote an overall perspective of occupations in Nebraska.

DELIMITATIONS

Fluctuations of employer listings within the master file were a delimiting factor to the study. Since employers move in and out of business throughout the state, there is a continuous change in the total number within the employer master file. Partial up-dating was possible through the removal of extinct businesses.

No allowance was made for the seasonal labor "peaks" and "lows" common in work areas. All part-time and seasonal employees were equated in terms of full-time equivalents.

The fluctuations caused by small sampling accounts for variations in certain vocational instructional training areas from one year to another. This variation was evident when comparing all previous yearly studies.

A delimitation common to all the studies was that the data has been obtained exclusively from employers. Employers tend to over- or under-estimate, depending on labor and economic trends.

Self-employed persons were not accounted for within this study with the exception of self-employed farmers. This number was predicted by using the number of identified farm units³ and the projected need was derived from a study of estimated farmer replacement opportunities.⁴

No attempt has been made within the study to align Vocational Instructional Training Programs with actual training programs offered within the state. The training programs listed were the programs designated for identified job titles by the U.S. Office of Education Classification System identified in *Vocational Education and Occupations*.

Each year additional job titles were added to the already identified list of titles from previous years. Since many job titles require similar training programs these job titles have been combined and placed into Occupational Groups with like programs for the *1975 Report*.

PROCEDURE

The original master list was compiled from the following sources: (1) a listing of firms employing one or more persons; (2) a listing of persons employing domestic help; (3) a listing of farmers and ranchers employing hired labor; (4) a listing of out-of-state firms with in-state locations; (5) a listing of federal, state, and local tax exempt agencies; and (6) the State Business Master file.

A yearly update of the master list was done by deleting firms no longer in existence and adding new firms from the ES202 listing provided by the Division of Employment of the Nebraska Department of Labor. Additional firms were dropped from the master list each year when identified by interviewers as "dead" firms.

The updated master list was sorted by postal zip codes into the six Technical Community College Areas and assigned a consecutive number. A five percent random sample was generated for each of the six areas (Appendix A). Each employer was interviewed to determine the number of persons employed, job duties (job description) of each employee, number of persons

¹U.S. Department of Labor, *Dictionary of Occupational Titles* (Vol. 1, Third Edition), (Washington: U.S. Government Printing Office, 1965).

²U.S. Office of Education, *Vocational Education and Occupations* OE-80061, (Washington: U.S. Government Printing Office, 1969).

³Nebraska Department of Agriculture, *Nebraska Agricultural Statistics*, Annual Report 1973, Preliminary 1974, (Lincoln: State-Federal Division of Agricultural Statistics, June, 1975).

⁴Douglas Genereaux, *Annual Estimated Replacement Farmer Opportunities in Nebraska*, Agricultural Education Department Report 3, (Lincoln: University of Nebraska, March, 1967), p. 6 (Mimeographed).

needed for the next twelve months, reason for need (expansion or turnover) and persons needed the following two years. Data supplied by employers as job descriptions were coded by job title and number using the *Dictionary of Occupational Titles*. Vocational Instructional Training Programs for D.O.T. titles were identified through Part II of the U.S. Office of Education publication, *Vocational Education and Occupations*.

A computerized straight line projection technique was used to project: total employed, need next twelve months, reason for need, and need for the following two years.

EXPLANATION OF TABLES

Table 1, "Summary by Occupational Category," lists the total projected employment and need as classified by the *Dictionary of Occupational Titles*. Included in Table 1 is a breakdown of Occupational Categories by percent of the total employment and future need. Tables 2 through 11, Occupational Divisions and Groups, show projected employment and future need for the State and by Technical Community College Area. These Tables show the Vocational Instructional Training Programs included in each Occupational Group as listed in *Vocational Education and Occupations*. Projected employment data for job titles with like programs are combined into Occupational Groups. An asterisk appears in the Vocational Instructional Training Program column when there is no vocational program listed for those job titles included in a specific Occupational Group.

Tables 12 through 21 reflect future employment opportunities determined from employer interview and reason for need as related to *expansion* and *turnover*. The Occupational Categories are grouped in Occupational Divisions showing need for the State and by Technical Community College Area. Projected need for the twelve month period and the following two years is based on employer estimates. The State total two year need is reflected in Tables 2 through 11 by Occupational Groups with like Vocational Instructional Training Programs.

All data, Tables 1 through 30, are composite (average) figures from the 1973, 1974, and 1975 employer interviews. Combining the yearly figures minimizes fluctuations found in single year sample data. The procedure allows data application to a larger group of job titles and program classifications. An additional 329 job titles were added from the 1975 employer interviews.

Subtotals are listed following each Occupational Division and totals are listed for each Occupational Category.

SUMMARY BY OCCUPATIONAL CATEGORIES

Data presented in Table 1 indicated projected employment by Occupational Categories as compiled from the Occupational Groups and Divisions (Tables 2 through 11). The following breakdown lists totals by Occupational Categories in order of size for the 1975 Report.

Clerical and Sales Occupations, the largest Occupational Category with 177,927 persons now employed, re-

presents 26.8 percent of the total projected present employment. The Clerical and Sales Occupations encompassed 341 job titles (combined for the 3 years), 7 different Vocational-Technical Areas, 312 job titles with Vocational Instructional Training Programs identified in Part II of the *Vocational Education and Occupations* document, and 29 job titles with no identified Vocational Instructional Training Programs.

Professional, Technical, and Managerial Occupations, the second largest Occupational Category with 125,421 persons now employed, represents 18.9 percent of the total projected present employment. This area of 408 job titles involves 7 different Vocational Technical Areas, 196 job titles with Vocational Instructional Training Programs, and 212 job titles with no identified Vocational Instructional Training Programs.

Service Occupations, the third largest Occupational Category with 86,993 persons now employed, represent 13.1 percent of the total projected present employment. This area of 151 job titles involves 5 Vocational Technical Areas, 117 job titles with Vocational Instructional Training Programs, and 34 job titles with no identified Vocational Instructional Training Programs.

Farming, Fishery, Forestry and Related Occupations, the fourth largest Occupational Category with 86,319 persons now employed, represents 13.0 percent of the total projected present employment. This area of 72 job titles involves 1 Vocational Technical Area, 61 job titles with Vocational Instructional Training Programs, and 11 job titles with no Vocational Instructional Training Programs.

Structural Work Occupations, the fifth largest Occupational Category with 62,060 persons now employed, represents 9.4 percent of the total projected present employment. This area of 189 job titles involves 2 Vocational Technical Areas, 140 job titles with Vocational Instructional Training Programs, and 49 job titles with no Vocational Instructional Training Programs.

Miscellaneous Occupations, the sixth largest Occupational Category with 52,207 persons now employed, represents 7.9 percent of the total projected present employment. This area of 136 job titles involves 4 Vocational Technical Areas, 67 job titles with Vocational Instructional Training Programs, and 69 job titles with no Vocational Instructional Training Programs.

Machine Trades Occupations, the seventh largest Occupational Category with 37,400 persons now employed, represents 5.6 percent of the total projected present employment. This area of 170 job titles involves 4 Vocational Technical Areas, 122 job titles with Vocational Instructional Training Programs, and 48 job titles with no Vocational Instructional Training Programs.

Processing Occupations, the eighth largest Occupational Category with 19,047 now employed, represents 2.9 percent of the total projected present employment. This area of 103 job titles involves 2 Vocational Technical Areas, 38 job titles with Vocational Instructional Training Programs, and 65 job titles with no Vocational Instructional Training Programs.

Bench Work Occupations, the ninth largest Occupational Category with 13,547 Persons now employed, represents 2.1 percent of the total projected present employment. This area of 109 job titles involves 4

Vocational Technical Areas, 65 job titles with Vocational Instructional Training Programs, and 44 job titles with no Vocational Instructional Training Programs.

Occupations with no D.O.T. Numbers, the tenth

largest Occupational Category with 1,973 persons now employed, represents 0.3 percent of the total projected present employment. This area is composed of 8 job titles with no Vocational Technical Areas nor Vocational Instructional Training Programs.

**TABLE 1
SUMMARY BY OCCUPATIONAL CATEGORIES**

OCCUPATIONAL CATEGORIES	Projected Employment		Projected Future Needs			
	Number	Percentage of Total	Next 12 Months		Following 2 Years	
			Number	Percentage of Total	Number	Percentage of Total
Professional, Technical, and Managerial Occupations	125,421	18.9	12,782	10.9	18,058	12.6
Clerical and Sales Occupations	177,927	26.8	28,438	24.3	28,920	20.2
Service Occupations	86,993	13.1	22,546	19.3	31,719	22.2
Farming, Fishing, Forestry, and Related Occupations	86,319 ^a	13.0	9,409 ^b	8.1	9,029 ^b	6.3
Processing Occupations	19,047	2.9	4,339	3.7	6,148	4.3
Machine Trades Occupations	37,400	5.6	6,640	5.7	8,213	5.7
Bench Work Occupations	13,547	2.1	2,620	2.2	3,967	2.8
Structural Work Occupations	62,060	9.4	14,765	12.6	17,111	12.0
Miscellaneous Occupations	52,207	7.9	14,966	12.8	19,641	13.7
Occupations with no DOT Number	1,973	.3	493	.4	407	.2
Total	662,894		116,998		143,213	

^aIncludes self-employed farmers, Nebraska Department of Agriculture, *Nebraska Agricultural Statistics Annual Report 1973, Preliminary 1974* (Lincoln: State-Federal Division of Agricultural Statistics, June, 1975).

^bDouglas Genereaux, *Annual Estimated Replacement Farmer Opportunities in Nebraska*, Agricultural Education Department Report No. 3, (Lincoln: University of Nebraska, March, 1967), p. 6 (Mimeographed).

**TABLE 2
PROFESSIONAL, TECHNICAL, AND MANAGERIAL OCCUPATIONS**

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	H.E.W. Number	Program
Occupations in Architecture and Engineering															
001	Architectural Engineering	7	0	33	7	20	0	133	7	646	53	13	*	17.13	Drafting
003	Electrical Engineering	13	7	27	0	40	7	67	0	560	80	53	*	17.13	Drafting
		13	0	7	0	47	0	348	33	286	0	713	*	17.13	Drafting
		—	—	—	—	—	—	46	0	133	0	240	*	16.0107	Electrical Technology
		6	7	13	0	0	7	27	0	27	7	0	*	16.0108	Electronic Technology
005	Civil Engineering	33	0	—	—	—	—	47	20	—	—	20	*	16.0112	Instrumentation Tech.
		54	—	—	—	—	—	600	93	980	113	626	*	17.13	Drafting
007	Mechanical Engineering	54	27	—	7	26	0	439	80	586	127	500	*	16.0113	Mechanical Technology
		—	—	—	—	33	0	167	0	1,000	20	753	*	17.13	Drafting
		—	—	—	—	20	0	300	20	221	107	240	*	16.0116	Petroleum Technology
008	Chemical Engineering	—	—	7	6	7	0	107	7	500	20	247	*	16.0113	Mechanical Technology
010	Mining and Petroleum Engineering	7	0	—	—	—	—	7	0	60	0	0	*	17.13	Drafting
011	Metallurgy & Metallurgical Engineering	7	0	—	—	—	—	—	—	200	0	0	*	16.0116	Petroleum Technology
012	Industrial Engineering	—	—	—	—	—	—	—	—	600	100	133	*	16.0111	Industrial Technology
		7	—	40	0	7	0	67	0	7	0	0	*	14.0204	Systems Analysts
		128	—	—	—	—	—	100	13	67	7	7	*	16.0111	Industrial Technology
		174	—	—	—	—	—	53	13	7	0	27	*	17.13	Drafting
017	Drafting & Related Work	—	—	—	—	—	—	—	—	7	0	0	*	16.0106	Structural Technology
		7	—	—	—	—	—	33	0	86	0	94	*	16.0113	Mechanical Technology
018	Surveying & Related Work	60	26	—	13	33	0	206	80	—	—	47	*	16.0499	Office Related Tech.
019	Architecture & Engineering Other	53	—	—	—	7	0	7	0	186	66	0	*	16.0105	Chemical Technology
		7	—	—	—	—	—	—	—	—	—	0	*	16.0699	Miscellaneous Technical Education, Other
		219	—	—	—	26	7	7	0	—	—	7	*	16.0203	Food Processing Tech.
		13	—	—	—	—	—	13	0	—	—	0	*	16.0105	Chemical Technology
		9,773	67	127	13	293	87	2,820	373	6,187	700	3,733			
Subtotal															
Occupations in Mathematics and Physical Sciences															
020	Mathematics	—	—	—	—	—	—	—	—	147	0	26	*	14.02	Business Data Processing Systems Occupations
		280	—	—	—	—	—	7	0	—	—	0	*	14.0203	Programming
022	Chemistry	—	—	7	7	40	7	213	20	207	0	20	*	16.0105	Chemical Technology
		467	—	—	—	—	—	—	—	120	0	6	*	16.0105	Chemical Technology
023	Physics	127	—	—	—	—	—	—	—	227	0	0	*	16.0105	Chemical Technology
024	Geology	227	—	—	—	—	—	—	—	7	0	0	*	16.0105	Chemical Technology
025	Meteorology	7	—	—	—	—	—	—	—	20	13	7	*	16.0105	Chemical Technology
		73	7	—	—	—	—	—	—	—	—	0	*	16.0105	Chemical Technology
		33	6	—	—	—	—	—	—	—	—	0	*	16.0105	Chemical Technology
029	Mathematics & Physical Sciences, Other	—	—	—	—	—	—	—	—	—	—	0	*	16.0105	Chemical Technology
		106	—	73	60	20	0	40	0	33	0	60	*	16.0203	Food Processing Tech.
		73	—	—	—	—	—	—	—	13	0	7	*	16.0203	Food Processing Tech.
		1,407	40	80	67	60	7	460	47	760	13	133			
Subtotal															

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
Occupations in Life Sciences																	
040	Agricultural Sciences	139	—	—	—	—	—	33	0	13	0	53	0	40	0	*	
		307	80	0	7	0	20	67	0	53	0	73	0	27	0	01.0603	Soil
		7	—	—	—	—	—	—	—	—	—	—	—	7	0	01.04*	Agricultural Products
041	Biological Sciences	348	—	—	7	0	—	—	—	—	—	194	0	147	7	*	
045	Psychology	572	47	0	19	0	0	107	0	300	20	300	20	99	13	*	
	Subtotal	1,373	127	0	33	0	100	173	0	620	20	620	20	320	20		
Occupations in Social Sciences																	
050	Economics	361	—	—	7	0	—	—	—	—	—	340	47	7	0	*	
		20	—	—	—	—	—	—	—	—	—	—	—	20	7	04.01	Advertising Services
054	Sociology	7	—	—	—	—	—	—	—	—	—	—	—	—	—	*	
	Subtotal	388	—	—	7	0	—	—	—	—	—	347	47	27	7		
Occupations in Medicine and Health																	
070	Medicine and Surgery	3,142	74	0	266	20	227	13	308	27	640	61	1,627	333	706	*	
071	Osteopathy	7	—	—	7	0	—	—	—	—	—	—	—	—	0	*	
072	Dentistry	1,307	27	7	133	0	87	7	207	0	326	0	527	40	53	*	
073	Veterinary Medicine & Surgery	592	113	0	40	7	73	0	193	0	80	7	93	0	27	*	
		127	20	0	7	0	40	20	40	0	7	0	13	0	20	01.0299	Agricultural Supplies and Services, Other
		7	—	—	—	—	—	—	—	—	—	—	—	—	0	01.0401	Food Products
074	Pharmacy	1,427	67	7	167	0	120	13	153	13	560	33	360	53	80	*	
075	Nursing	260	13	0	47	0	21	0	86	0	40	0	53	7	7	*	
		10,041	560	20	1,161	200	647	40	1,340	113	940	20	5,393	1,646	2,953	07.0801	Nursing
077	Dietetic Work	312	27	13	33	0	53	0	60	0	26	0	113	7	33	*	
078	Medical and Dental/Tech.	13	—	—	—	—	—	—	—	—	13	0	—	—	0	*	
		193	—	—	7	6	—	—	13	7	73	33	100	13	33	07.0102	Dental Hygiene
		40	—	—	—	—	—	—	—	—	40	0	—	—	0	07.0201	Cytology (Cytotechnology)
		67	—	—	—	—	—	—	—	—	47	0	—	—	0	07.0202	Histology
		2,853	20	0	87	0	93	7	193	0	1,167	207	1,293	233	434	07.0203	Medical Lab. Assisting
		87	—	—	—	—	—	—	—	—	80	7	7	0	7	07.0204	Hematology
		20	—	—	—	—	—	—	—	—	—	—	—	0	0	07.0403	Prosthetics
		13	—	—	—	—	—	—	—	—	—	—	—	0	0	07.0404	Orthotics
		987	27	0	113	7	33	0	47	0	160	33	607	107	193	07.0501	Radiologic Technology (X-Ray)
		73	—	—	—	—	—	—	—	—	13	0	53	0	7	07.0503	Nuclear Medical Tech.
		54	—	—	—	—	—	—	7	0	—	—	47	7	7	07.0901	Electroencephalograph Technology
		100	—	—	7	6	—	—	13	0	20	0	60	13	13	07.0902	Electrocardiograph Tech.

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
079	Medicine and Health, Other	113	7	125	7	20	0	153	7	148	19	273	21	41	*	
		33	6	120	7	107	20	260	33	353	20	487	87	133	07.0101	Dental Assisting
		766	20	573	153	266	80	593	47	207	7	1,900	593	1,253	07.0302	Practical (Vocational) Nursing
		93	0	7	0	-	-	7	0	-	-	7	7	0	07.0305	Surgical Technicians
		33	-	-	-	-	-	33	0	-	-	-	-	0	07.0602	Orthoptics
		61	7	7	0	-	-	47	0	-	-	-	-	33	07.0401	Occupational Therapy
		220	40	13	0	-	-	20	0	-	-	147	47	7	07.0903	Inhalation Therapy
		572	33	33	7	20	0	33	6	213	20	240	13	47	07.0904	Medical Asst., Physician's Office
	Subtotal	29,219	2,033	80	420	1,807	200	3,813	253	5,153	467	13,453	3,227	6,087		
	Occupations in Education	1,047	-	80	0	-	-	-	-	534	0	433	100	0	*	
090	College & University Education	9,863	1,433	1,820	200	1,347	107	2,013	213	1,840	160	1,400	207	900	*	
091	Secondary School Education															
092	Primary School and Kindergarten Education	8,720	1,107	60	140	1,207	100	1,907	107	1,393	107	1,620	180	866	*	
094	Education of the Handicapped	440	73	7	7	73	0	100	0	180	40	7	0	0	*	
096	Home Economics, Agriculture, and Related Education	46	-	7	0	-	-	26	0	13	0	-	-	0	*	
097	Vocational Education	233	-	40	6	20	0	160	13	13	0	-	-	7	01.02	Ag. Supplies & Services
099	Education, Other	167	27	-	-	80	13	-	0	7	0	-	-	0	*	
	Subtotal	20,580	2,687	187	353	2,727	220	4,226	333	4,013	307	3,487	487	1,793	*	
	Occupations in Museum, Library, and Archival Sciences	519	53	107	7	33	7	113	7	100	13	113	13	93	*	
100	Library Work	519	53	107	7	33	7	113	7	100	13	113	13	93	*	
	Subtotal															
	Occupations in Law and Jurisprudence	3,806	220	173	13	173	0	360	13	960	67	1,900	133	447	*	
110	Legal Work	46	-	33	7	-	-	13	0	-	-	-	-	0	*	
111	Judicial Work	694	47	34	0	20	0	33	0	233	46	327	93	240	*	
119	Law and Jurisprudence, Other	4,546	267	240	20	193	0	406	13	1,213	113	2,227	226	687	*	
	Subtotal															
	Occupations in Religion and Theology	799	67	93	0	93	7	133	20	113	13	300	13	46	*	
120	Ministerial Work	53	6	-	-	7	0	-	-	-	-	40	0	7	*	
129	Religion and Theology, Other	852	73	93	0	100	7	133	20	113	13	340	13	53	*	
	Subtotal															
	Occupations in Writing	7	-	-	-	-	-	-	-	-	-	7	0	13	*	
130	Freelance Writing	73	-	-	-	-	-	13	0	40	0	20	0	0	*	
131	Writing & Editing, Motion Pictures, Radio & Television	1,773	140	187	7	100	0	133	0	1,120	113	93	0	121	*	
132	Writing and Editing, Publications	114	47	0	-	-	-	-	-	40	0	27	7	13	04.01	Advertising Services

OCCUPATIONAL DIVISION		INSTRUCTIONAL TRAINING PROGRAM																
D.O.T. Number	Occupational Group	Total State Projected Employment		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	H.E.W. Number	Program
		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need			
139	Writing, Other	13	0	0	0	0	0	0	0	0	0	13	0	0	0	0	*	
	Subtotal	1,980	187	100	0	187	7	100	0	146	0	1,213	113	147	7	147		
	Occupations in Art	47	0	0	0	7	0	0	0	27	7	0	0	13	0	7	*	Advertising Services
141	Commercial Art	239	33	0	0	0	0	0	0	0	0	153	7	53	0	7	04.01	Commercial Art, Occu.
		167	0	0	0	7	0	0	0	0	0	53	7	107	0	7	17.07	Advertising Services
142	Designing	40	0	0	0	0	0	0	0	0	0	20	0	20	0	0	04.01	Advertising Services
		553	0	67	7	0	0	67	7	53	0	220	27	213	7	66	04.05	Floristry
		20	0	0	0	0	0	0	0	0	0	7	0	13	0	6	17.07	Commercial Art, Occu.
143	Photography	293	0	0	0	13	0	0	0	20	0	107	7	153	27	27	17.0701	Interior Decorating
		80	60	0	0	0	0	0	0	7	0	80	5	53	13	7	17.0703	Product Design
144	Painting & Related Work	160	7	13	0	13	0	46	0	40	0	73	13	40	0	20	*	Personal Services
148	Sculpturing & Related Work	199	0	0	0	0	0	0	0	0	0	7	0	0	0	0	*	
149	Art Work, Other	7	0	0	0	0	0	0	0	0	0	0	0	47	0	0	*	
	Subtotal	1,859	107	113	7	40	0	113	7	147	7	720	67	732	53	353		
	Occupations in Entertainment and Recreation	13	0	0	0	0	0	0	0	0	0	0	0	13	7	7	*	
151	Dancing	579	40	20	0	40	0	20	0	120	7	126	7	233	7	13	*	
152	Music	335	34	107	13	14	0	107	13	7	0	20	0	153	0	40	*	
153	Athletics and Sports	6	0	0	0	0	0	0	0	6	0	0	0	0	0	0	01.0101	Animal Science
159	Entertainment & Recreation, Other	292	26	33	0	13	0	33	0	100	20	87	0	33	333	747	*	
	Subtotal	1,225	100	160	13	67	0	160	13	233	27	233	7	432	347	807		
	Occupations in Administrative Specializations	3,746	167	40	0	113	7	40	0	486	7	1,627	173	1,313	73	380	*	Accountants
160	Accounting and Auditing	353	0	0	0	13	0	0	0	20	0	140	20	180	0	53	14.0101	Budget Management Analysts
161	Budget & management Analysis	388	20	47	0	53	13	47	0	27	0	94	7	147	13	7	14.0802	Budget Management Analysts
162	Purchasing Management	133	13	0	0	0	0	0	0	13	0	93	0	14	0	7	*	Food Products
		627	133	40	0	7	0	40	0	93	0	54	0	300	40	67	01.0401	Food Products
		7	0	0	0	0	0	0	0	0	0	7	0	0	0	9	04.01	Advertising Services
		94	7	0	0	0	0	0	0	0	0	67	0	20	0	0	04.04	Finance & Credit
		114	13	0	0	0	0	27	0	7	0	47	0	33	0	7	04.06	Food Distribution
		520	13	7	0	80	0	7	0	40	0	53	0	327	0	7	04.08	General Merchandise
		13	0	0	0	0	0	0	0	0	0	0	0	13	0	0	14.0899	Supv., & Admin. Manage.
		366	13	20	0	20	0	20	0	27	0	133	7	153	0	40	04.99	Occupations, Other
																		Distributive Ed., Other

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2-Year Need	INSTRUCTIONAL TRAINING PROGRAM
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number Program
163	Sales & Distribution Management	53	0	60	0	114	13	54	0	333	7	847	33	120	04.12 Industrial Marketing
164	Advertising Management	7	0	34	0	20	0	—	—	93	0	167	0	0	04.16 Petroleum
165	Public Relations Management	7	—	—	—	—	—	—	—	7	0	—	—	6	04.01 Advertising Services
166	Personnel & Training Administration	13	0	—	—	—	—	33	0	107	7	133	0	13	04.01 Advertising Services
		67	—	—	—	7	0	—	—	73	0	53	13	13	04.13 Insurance
		27	—	—	—	—	—	7	0	20	0	—	—	0	14.0601 Ed. Asst. & Training Specialists
		320	0	27	0	—	—	7	0	73	47	193	160	147	14.0602 Interviewers & Test Technicians
168	Inspecting & Investigating, Managerial & Public Service	519	—	53	0	13	0	33	0	194	7	226	61	100	14.0603 Personnel Assistants
		93	—	—	—	—	—	—	—	33	7	60	0	14	*
		7	—	—	—	—	—	—	—	7	0	—	—	0	04.16 Petroleum
		313	0	7	0	—	—	—	—	233	53	53	0	53	14.0899 Supv. & Admin. Manage. Occupations, Other
		33	—	—	—	—	—	—	—	20	0	13	0	7	16.02 Agricultural Related Tech.
		27	0	—	—	—	—	—	—	20	0	—	—	0	17.2899 Public Service. Occu., Other
		61	—	—	—	—	—	7	0	27	0	27	100	0	14.0602 Interviewers & Test Technicians
169	Administrative Specialities, Other	13	—	—	—	—	—	—	—	6	0	7	0	0	*
		7	—	—	—	—	—	—	—	7	0	—	—	0	01.0602 Recreation
		927	—	—	—	—	—	46	0	380	13	501	47	107	04.13 Insurance
		120	—	—	—	—	—	—	—	93	0	27	0	46	14.02 Business Data Processing Systems
		27	—	—	—	—	—	—	—	27	0	—	—	0	14.0602 Interviewers & Test Technicians
		13	—	—	—	—	—	—	—	13	0	—	—	0	14.0699 Personnel Training Occupations, Other
		526	7	7	0	6	0	93	0	226	13	187	0	13	14.0701 Executive Secretary
		825	—	33	0	73	0	60	6	426	33	233	33	40	14.0801 Administrative Assts.
		4,432	120	340	7	406	0	293	0	1,340	106	1,933	147	219	14.0805 Office Managers
		47	—	—	—	—	—	7	0	—	—	40	0	7	14.0899 Supv. & Admin. Manage. Occupations, Other
		16,913	613	847	27	820	13	1,353	13	6,080	500	7,200	720	1,493	
	Subtotal														
	Managers and Officials	13	—	—	—	—	—	—	—	13	0	—	—	0	01.01 Agriculture Production
180	Agriculture, Forestry, and Fishing Management	7	—	—	—	—	—	7	0	—	—	—	—	0	01.0102 Plant Science
		306	13	53	0	33	0	20	0	40	0	147	0	7	01.0104 Farm Business Management
181	Mining Management	147	—	20	0	33	0	20	0	47	0	27	0	0	04.16 Petroleum
182	Construction Management	1,673	94	133	0	27	0	294	0	226	7	899	46	7	*
183	Manufacturing Industry Management	1,693	27	47	0	80	0	199	60	380	40	860	60	120	*
		20	—	—	—	—	—	—	—	7	0	13	0	0	01.0401 Food Products
		53	—	—	—	—	—	7	0	33	7	13	0	6	04.12 Industrial Marketing

OCCUPATIONAL DIVISION		INSTRUCTIONAL TRAINING PROGRAM														
D.O.T. Number	Occupational Group	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2-Year Need	H.E.W. Number	Program
		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need			
184	Transportation, Communication and Utilities Management	221	0	13	0	27	0	54	7	80	0	27	0	0	*	Transportation
185	Wholesale and Retail Trade Management	228	—	14	0	7	0	46	0	100	0	61	0	7	04.19	
		13	—	—	—	—	—	—	—	13	0	—	—	0	*	
		852	73	0	113	0	66	13	163	0	167	13	280	33	04.03	Automotive
		274	7	0	106	0	40	7	7	0	107	0	7	0	04.06	Food Distribution
		13	—	—	—	—	—	—	—	—	—	—	—	0	04.07	Food Services
		6,987	500	0	1,067	47	680	7	1,220	1,627	53	1,893	67	220	04.08	General Merchandise
		34	7	—	—	7	0	13	0	—	—	7	0	0	04.16	Petroleum
		27	—	—	—	—	—	—	—	—	—	27	0	0	04.17	Real Estate
		566	33	7	6	—	—	34	0	146	0	347	40	60	04.31	Wholesale Trade, Other
		268	—	7	0	7	0	7	0	120	0	127	0	0	*	Finance and Credit
		4,121	160	6	394	26	407	0	547	1,773	307	840	79	640	04.04	Insurance
		1,219	40	0	33	0	27	0	60	320	27	739	27	80	04.13	Petroleum
		7	7	0	—	—	—	—	—	—	—	—	—	0	04.16	Real Estate
		715	40	0	61	0	80	7	33	167	7	334	13	13	04.17	Office Managers
		54	—	—	—	—	—	—	—	20	20	7	0	0	14.0805	
		1,499	147	0	247	19	240	19	240	313	26	312	33	120	*	Automotive
		114	—	—	—	—	—	—	—	27	0	87	13	40	04.03	Food Services
		2,634	240	0	127	14	294	13	553	726	107	694	7	266	04.07	Hdw., Bldg. Materials, Farm & Garden Sup. & Eq.
		33	7	0	—	—	—	—	—	13	0	13	0	0	04.09	Hotel and Lodging
		607	126	0	80	14	20	174	0	87	0	120	7	61	04.11	Personal Services
		628	40	7	54	0	40	7	154	188	13	152	0	20	04.15	Real Estate
		40	7	0	7	0	—	13	0	13	0	—	—	0	04.17	Recreation and Tourism
		126	7	0	—	—	—	26	13	60	7	20	0	13	09.0203	Food Mgt., Production and Services
		367	47	0	233	0	—	13	0	27	0	47	0	0	09.0205	Inst. Home Mgt. and Supportive Services
		253	7	0	60	0	—	6	0	73	20	107	7	7	*	Finance and Credit
		1,518	79	0	185	33	233	7	293	708	53	20	0	80	*	General Merchandise
		1,132	26	0	13	0	—	40	0	554	53	499	7	66	04.04	Industrial Marketing
		27	—	—	—	6	—	14	0	—	—	7	0	0	04.08	
		100	—	—	—	—	—	20	0	33	7	47	7	7	04.12	
		3,465	253	6	107	0	153	0	353	926	53	1,673	87	220		
		31,954	2,007	33	3,180	153	73	4,647	147	9,134	820	10,453	520	2,093		
	Subtotal															
	Miscellaneous Professional, Technical, and Managerial Occupations	147	—	—	—	—	—	—	—	27	0	120	13	13	*	Finance and Credit
	191 Business Relations Work	20	—	—	—	—	—	—	—	—	—	20	0	7	04.04	Real Estate
		147	—	—	—	—	—	20	0	80	20	40	7	33	04.17	Recreation and Tourism
		54	—	—	—	—	—	7	0	13	0	34	0	0	04.18	

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		INSTRUCTIONAL TRAINING PROGRAM		
D.O.T. Number	Occupational Group	12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		Total State Projected 2 Year Need	H.E.W. Number	Program
		Now	12	Now	12	Now	12	Now	12	Now	12					
194	Sound Recording, Transcribing and Reproducing	6	—	—	—	—	—	—	—	—	—	—	—	0	*	
195	Social and Welfare Work	2,053	40	27	—	47	287	13	727	6	27	666	120	419	*	
196	Airplane Piloting and Navigation	74	7	—	—	—	—	—	—	—	—	67	0	0	*	04.18 Recreation and Tourism
199	Miscellaneous Professional, Technical, and Managerial Work	173	33	0	—	0	47	13	7	—	—	33	0	41	*	16.0601 Commercial Pilot Training
	Subtotal	120	13	0	—	—	13	7	20	—	—	87	0	13	*	17.2002 Radiography
		26	—	—	—	—	—	—	—	—	—	—	—	0		
		13	—	—	—	—	—	—	—	—	—	13	0	0		
		2,833	93	27	—	47	380	40	890	193	193	1,080	140	526		
	Total—Professional, Technical, and Managerial Occupations	125,421	8,580	500	11,468	1,041	9,193	694	16,123	954	33,099	3,100	46,958	6,493	18,058	

*No Vocational Instructional Training Program Listed.

TABLE 3
CLERICAL AND SALES OCCUPATIONS

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		INSTRUCTIONAL TRAINING PROGRAM		
D.O.T. Number	Occupational Group	12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		Total State Projected 2 Year Need	H.E.W. Number	Program
		Now	12	Now	12	Now	12	Now	12	Now	12					
201	Secretarial Work	20,675	994	107	1,220	60	1,393	100	1,787	134	5,440	486	9,841	3,160	14.0702	Secretaries
202	Stenography	873	13	0	13	0	7	0	100	6	340	40	400	333	14.0703	Stenographers
203	Typing	3,307	27	0	200	20	20	0	187	27	960	200	1,913	746	14.0902	Typists
204	Correspondence Work	73	13	0	—	—	—	—	—	—	27	7	33	14	14.0402	Correspondence Clerks
205	Personnel Work	67	—	—	40	0	—	—	—	—	—	—	27	0	*	
206	Filing	115	—	—	7	0	—	—	7	0	41	0	60	14	14.0603	Personnel Assistants
207	Duplicating Machine Work	2,305	—	—	26	6	13	0	13	0	400	99	1,853	1,067	14.0302	File Clerk
208	Miscellaneous Office Machine Work	106	—	—	6	0	—	—	13	0	40	27	47	7	14.0301	Duplicating Mach. Operators
209	Stenography, Typing, Filing, and Related Work, Other	285	—	—	66	0	—	—	—	—	40	7	179	86	14.0399	Filing, Office Machines & Gen. Office Cler., Other
		21	7	0	—	—	7	0	7	0	—	—	—	0	*	
		60	—	—	—	—	—	—	—	—	7	0	55	7	04.08	General Merchandise
		11,001	73	14	155	7	254	27	846	40	1,046	121	8,627	526	14.0399	Filing, Office Machines & Gen. Office Cler., Other
		47	—	—	—	—	—	—	—	—	47	0	—	0	14.0502	Quality-Control Clerks
		1,278	33	6	80	0	213	0	66	—	773	153	113	180	14.0901	Clerk-Typists
	Subtotal	40,213	1,160	127	1,813	93	1,907	127	3,026	207	9,161	1,140	23,146	6,160		

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number Program
Computing and Account-Recording Occupations															
210	Bookkeeping	1,107	33	1,493	53	1,007	40	2,000	127	3,275	220	4,700	319	1,000	14.0102 Bookkeepers
211	Cashiering	7	0	40	7	40	7	27	13	460	187	446	200	887	04.06 Food Distribution
		53	13	127	20	146	7	127	0	33	7	7	0	27	04.11 Hotel and Lodging
212	Teller Service	167	20	126	6	280	20	420	27	1,107	226	407	40	120	04.18 Recreation and Tourism
213	Automatic Data Processing	7	0	20	7	7	0	60	0	860	100	987	100	373	14.0103 Cashiers
		60	0	47	0	67	6	40	0	560	120	1,173	154	473	14.0105 Tellers
214	Billing-Machine Work	44	0	7	0	0	0	13	13	227	7	127	0	20	14.0201 Computers & Console Oper.
215	Bookkeeping-Machine Work	27	0	7	0	0	0	7	6	13	7	7	0	40	14.0104 Machine Operators
216	Computing-Machine Work	7	0	7	0	0	0	7	7	13	7	0	7	7	* 14.0104 Machine Operators
		27	0	7	0	0	0	7	6	0	0	0	6	6	04.07 Food Services
217	Account-Recording-Machine Work	27	0	0	0	20	0	7	0	0	0	0	0	7	14.0104 Machine Operators
219	Computing and Account Recording-Other	7	0	13	0	0	0	0	0	47	0	53	6	7	14.0104 Machine Operators
		34	0	7	0	7	0	0	0	13	0	7	0	0	04.04 Finance and Credit
		16,637	7	873	60	892	120	1,139	74	4,020	680	9,274	1,668	4,246	14.0199 Accounting and Computing Occupations, Other
	Subtotal	1,787	73	2,760	153	2,480	200	3,907	280	10,900	1,607	17,607	2,520	7,407	14.0303 General Office Clerks
Material and Production Occupations															
221	Clerical Work, Production and Receiving	66	26	107	20	60	0	67	0	260	27	973	173	327	17.1999 Graphic Arts, Other
222	Clerical Work, Shipping and Receiving	27	7	153	13	227	53	346	60	286	47	1,187	267	473	14.0501 Planning & Production Clerks
223	Stock Checking and Related Work	7	0	7	0	0	0	0	0	0	0	0	0	0	01.0401 Food Products
		481	53	67	7	27	7	7	0	0	0	26	0	0	14.0503 Shipping & Receiving Clerks
		361	60	60	7	7	0	7	0	127	0	160	13	60	14.0505 Traffic, Rate, & Trans. Clerks
224	Weighing	7	0	20	0	53	0	33	0	7	13	40	7	27	* 14.0505 Traffic, Rate, & Trans. Clerks
		13	0	13	0	0	0	0	0	0	0	0	0	0	04.06 Food Distribution
		40	0	7	0	0	0	0	0	0	0	0	0	0	07.0905 Central Supply Technician
229	Material and Production Recording, Other	7	0	0	0	0	0	0	0	0	0	0	0	0	14.0504 Stock & Inventory Clerks
	Subtotal	167	33	427	47	447	60	460	60	960	93	2,820	527	1,027	* 14.0599 Material Support Occupations, Other
Information and Message Distribution Occupations															
280	Messenger and Related Work	0	0	47	13	13	0	0	0	40	26	53	13	67	14.0405 Messengers, Office Boys and Girls

OCCUPATIONAL DIVISION		Total State Projected Employment		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need		INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	H.E.W. Number	Program		
231	Mail Sorting, Stamping, Recording, Routing and Related Work	13	0	53	7	0	0	33	0	1,347	80	20	0	166	14.0403	Mail & Postal Clerks			
232	Clerical Work, Post Office	40	7	67	0	113	7	66	0	447	0	13	0	7	14.0403	Mail & Postal Clerks			
233	Mail Delivery	134	0	93	0	107	6	80	0	1,853	0	20	0	40	14.0403	Mail & Postal Clerks			
234	Mail-Preparing and Mail-Handling-Machine Work	—	—	—	—	—	—	—	—	20	0	—	—	0	14.0404	Mail-Preparing and Mail-Handling Mach. Operators			
235	Telephone Work	7	0	40	7	0	0	67	6	580	93	3,221	2,347	287	14.0401	Communications Systems Clerks and Operators			
237	Reception and Information Dispensing Work	—	—	—	—	—	—	—	—	—	—	—	—	67	04.18	Recreation & Tourism			
239	Information and Message Distribution, Other	139	6	480	33	146	14	593	13	1,227	140	2,327	220	400	14.0406	Reception and Information Clerks			
	Subtotal	333	13	780	60	393	27	846	33	5,600	359	5,860	2,607	1,047	04.99	Distributive Ed., Other			
		—	—	—	—	—	—	—	—	—	—	—	—	13	14.0499	Information, Communications, Occupations, Other			
		—	—	—	—	—	—	—	—	—	—	—	—	20	04.08	General Merchandise			
		—	—	—	—	—	—	—	—	—	—	—	—	6	14.99	Office Occupations, Other			
		—	—	—	—	—	—	—	—	—	—	—	—	0	04.08	General Merchandise			
		—	—	—	—	—	—	—	—	—	—	—	—	86	04.13	Insurance			
		—	—	—	—	—	—	—	—	—	—	—	—	0	14.99	Office Occupations, Other			
		—	—	—	—	—	—	—	—	—	—	—	—	13	04.11	Hotel and Lodging			
		—	—	—	—	—	—	—	—	—	—	—	—	0	14.99	Office Occupations, Other			
		—	—	—	—	—	—	—	—	—	—	—	—	0	*				
		—	—	—	—	—	—	—	—	—	—	—	—	0	04.04	Finance and Credit			
		—	—	—	—	—	—	—	—	—	—	—	—	20	04.08	General Merchandise			
		—	—	—	—	—	—	—	—	—	—	—	—	100	04.13	Insurance			
		—	—	—	—	—	—	—	—	—	—	—	—	7	14.0499	Information, Communications Occu. Other			
		—	—	—	—	—	—	—	—	—	—	—	—	188	14.99	Office Occupations, Other			
		—	—	—	—	—	—	—	—	—	—	—	—	0	16.0136	Civil Technology			
		—	—	—	—	—	—	—	—	—	—	—	—	13	04.01	Advertising Services			
	Subtotal.	153	27	120	27	47	0	167	7	2,387	113	2,207	640	453					
		80	27	74	27	7	0	67	0	600	27	452	40	188					
		20	0	—	—	—	—	—	—	—	—	—	—	0					
		—	—	—	—	—	—	—	—	—	—	—	—	—					
		153	27	120	27	47	0	167	7	2,387	113	2,207	640	453					
	Sales Workers, Services and Insurance	—	—	—	—	—	—	—	—	—	—	—	—	—	0	04.04	Finance and Credit		
		—	—	—	—	—	—	—	—	—	—	—	—	—	0	*			
		233	20	187	20	347	66	360	13	700	140	1,493	113	353	04.13	Insurance			
		113	20	93	0	53	7	307	0	1,566	180	2,647	587	1,213	04.17	Real Estate			
		13	0	—	—	—	—	—	—	—	—	—	—	7	04.04	Finance and Credit			
		7	0	—	—	—	—	—	—	—	—	—	—	0	04.04	Finance and Credit			
		7	0	13	0	7	7	40	0	460	180	273	0	27	04.12	Industrial Marketing			
		7	0	7	0	—	—	33	0	60	20	20	7	20	04.01	Advertising Services			

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
			Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
D.O.T. Number	Occupational Group																
254	Saleswork, Hotel Services	34													0	04.11	Hotel and Lodging
255	Saleswork, Transportation Services	7													0	04.19	Transportation
256	Saleswork, Maintenance and Repair Services	7													0	04.07	Food Services
257	Saleswork, Utilities	20													0	04.10	Home Furnishings
258	Saleswork, Printing and Advertising Services	552	13	0	7	0	0	0	0	0	0	0	0	0	7	04.99	Distributive Ed., Other
259	Saleswork, Services, Other	327	7	0	33	0	0	0	0	0	0	0	0	0	60	04.01	Advertising Services
	Subtotal	59	13	0	26	13	0	0	0	0	0	0	0	0	40	04.12	Industrial Marketing
		10,666	413	53	393	27	467	93	20	820	560	3,573	20	720	1,740	04.99	Distributive Ed., Other
Sales Workers and Salespersons, Commodities																	
260	Saleswork, Horticultural and Nursery Products	434	7	0	60	0	67	13	27	27	0	180	0	93	40	04.05	Floristry
261	Saleswork, Agricultural Products, Other	227	46	0	14	0						20	0	147	7	04.06	Food Distribution
262	Saleswork, Foodstuffs, Beverages, and Tobacco	894	33	0	127	20	260	40	133	27	6	234	6	47	73	01.0202	Feeds
263	Saleswork, Textiles, Textile Products, and Apparel	1,467	6	0	33	7	27	13	147	20	267	47	987	93	187	04.06	Food Distribution
264	Saleswork, Paper and Paper Products	6,045	220	27	740	73	273	20	752	40	1,601	406	2,459	468	1,652	04.02	Apparel & Accessories
265	Saleswork, Chemicals and Drug Preparation	273	7	0	33	0	26	0	47	0	100	13	60	0	27	04.08	General Merchandise
266	Saleswork, Fuel and Petroleum Products	7													0	04.12	Industrial Marketing
267	Saleswork, Plastics Products	340													40	04.12	Industrial Marketing
268	Saleswork, Metal and Metal Products	1,466													33	*	General Merchandise
269	Saleswork, Housefurnishing	107	7	0											0	04.08	General Merchandise
270	Saleswork, Industrial, Construction, Mining, and Drilling Equipment & Supplies	93													20	04.12	Industrial Marketing
271	Saleswork, Farm and Garden Equipment and Supplies	127													20	04.31	Wholesale Trade, Other
272	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	7													0	*	Wholesale Trade, Other
273	Saleswork, Industrial, Construction, Mining, and Drilling Equipment & Supplies	20													0	04.12	Industrial Marketing
274	Saleswork, Farm and Garden Equipment and Supplies	46													0	04.12	Industrial Marketing
275	Saleswork, Industrial, Construction, Mining, and Drilling Equipment & Supplies	120	20	0	27	13	27	0	294	27	13	394	0	60	13	04.08	General Merchandise
276	Saleswork, Industrial, Construction, Mining, and Drilling Equipment & Supplies	1,969	54	0	227	7	120	7	294	27	34	880	206	880	441	04.10	Home Furnishings
277	Saleswork, Farm and Garden Equipment and Supplies	3,621	421	47	347	40	287	40	593	46	1,053	54	920	79	466	04.09	Hdwe., Bldg. Materials, Farm & Garden Sup. & Eqp.
278	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	426													53	04.12	Industrial Marketing
279	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	27	27	0											0	04.16	Petroleum
280	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	74	27	0											0	01.0301	Agricultural Power and Machinery
281	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	2,419	106	27	214	21	340	27	873	140	499	33	387	60	374	04.09	Hdwe.; Bldg. Materials, Farm & Garden Sup. & Eqp.
282	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	860	34	7	100	13	60	13	153	20	294	47	219	46	87	04.10	Home Furnishings
283	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	7													0	04.12	Industrial Marketing
284	Saleswork, Household Appliances and Electrical Machinery, Equipment, and Supplies	13													0	09.0204	Home Furnishings, Eqp. & Services

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM		
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	H.E.W. Number	Program		
280	Saleswork, Transportation Equipment	286	47	586	66	426	33	574	47	1,434	146	1,486	220	04.03	Automotive	553	
				27	0					13	0	107	0	04.19	Transportation	0	
281	Saleswork, Business and Commercial Machines, Eqp. & Supp.	20				13	0		7				0	*		0	
		79				13	0	53	7				0	04.07	Food Services	0	
282	Saleswork, Medical and Dental Eqp., Sup., & Appliances	20	0	93	7	13	0	7	0	180	33	193	7	04.12	Industrial Marketing	67	
		130								27	7	20	7	*		20	
283	Saleswork, Jewelry & Silverware	13	0	7	0					7	0	93	7	01.0299	Ag. Supplies/Services, Other	20	
		140						20	0	33	13	87	7	04.12	Industrial Marketing	20	
285	Saleswork, Photographic Equip. and Supplies	20	0	80	7	40	7	113	6	67	7	287	40	04.02	Apparel & Accessories	113	
		13										13	0	04.08	General Merchandise	0	
286	Saleswork, Amusement and Sporting Goods	33	6	60	6	40	0	54	7	166	60	173	47	04.18	Recreation & Tourism	107	
		180						47	0	86	7	20	0	04.18	Recreation & Tourism	33	
287	Saleswork, Music and Musical Instruments	26	0	40	13	27	7	113	20	80	13	47	0	*		27	
		1,374		207	20	114	13	293	13	287	47	287	33	04.03	Automotive	187	
289	Saleswork, Commodities, Other	34								34	0			04.05	Floristry	0	
		13,806		613	46	300	13	820	100	2,013	186	9,753	1,053	04.08	General Merchandise	2,553	
		514		20	7	7	0	7	0	187	20	253	20	04.12	Industrial Marketing	106	
		726		7	7					432	47	234	7	04.18	Recreation & Tourism	67	
		4,353		13	7							4,333	1,900	04.20	Retail Trade, Other	0	
		647		20	0	20	0	40	0	173	13	367	20	04.31	Wholesale Trade, Other	47	
	Subtotal	2,060	307	3,840	387	2,513	246	5,307	527	11,580	1,420	24,760	4,413			7,453	
	Merchandising Occupations, except Sales Workers																
290	Sales Clerking	234	0	173	0	353	33	600	113	446	47	674	107	04.06	Food Distribution	407	
		746		133	27	53	7	27	0	87	13	253	26	04.08	General Merchandise	153	
291	Peddling	100		7	0			20	0	53	0	20	0	04.15	Personal Services	0	
		41				7	0			27	0			04.06	Food Distribution	7	
		86						73	26			6	0	*		33	
292	Route Work	233								233	80			*		67	
		2,041		100	7	20	0	554	27	607	107	687	80	04.06	Food Distribution	186	
293	Canvassing and Soliciting	68		7	0			7	0	54	33			*		13	
		46								13	0	33	0	04.20	Retail Trade, Other	0	
294	Auctioneering	307		67	0	80	0	100	0	40	0			04.08	General Merchandise	0	
296	Shopping	33								33	0			04.08	General Merchandise	0	
297	Demonstrating and Modeling	53								53	7			*		7	
298	Display Work	53		40	0				0					04.01	Advertising Services	0	

**TABLE 4
SERVICE OCCUPATIONS**

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2-Year Need	INSTRUCTIONAL TRAINING PROGRAM	
			Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
299	Miscellaneous Merchandising Work, Other	787	80	20	127	266	20	60	20	40	27	460	280	1,153	*	04.02	Apparel & Accessories
		20										20	7	20		04.06	Food Distribution
		4,526	173	13	540	67	527	933	180	760	120	1,593	407	1,121		04.08	General Merchandise
		1,073			33	0	7	26	0	140	0	867	73	133		04.10	Home Furnishings
		13			6	0						7	0	0		07.0601	Ophthalmic Dispensing
		87			27	6		20	0	20	0	20	0	20		17.1099	Construction & Maintenance
		580	40	0	47	0	80	7	147	33	253	153	313	313			
	Subtotal	13,373	820	53	1,307	373	1,087	100	2,513	467	4,893	1,133	3,633	3,633			
	Total—Clerical and Sales Occupations	177,927	6,893	686	11,440	1,167	9,341	853	17,046	5,759	86,293	18,466	28,920	28,920			

*No Vocational Instructional Training Program Listed.

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2-Year Need	INSTRUCTIONAL TRAINING PROGRAM	
			Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
302	Laundry Work, Private Family	14	7	0										0		09.0202	Clothing Mgt., Production & Services
303	Housekeeping, Private Family	6								6	0			0	*		
		281	7	7	7	0	27	7	40	67	7	133	7	13		09.0205	Inst. Home Mgt., and Supporting Services
305	Domestic Cooking	27					7	6				20	0	7		09.0203	Food Mgt., Production and Services
306	Housework, Domestic	372	53	0	13	0	26	0	80	87	13	113	13	7		09.0205	Inst. Home Mgt. and Supporting Services
307	Nursemaid Work	60	0	6					7	33	33	20	0	80		09.0201	Care & Guidance of Children
309	Domestic Services, Other	7								7	7			6		09.0201	Care & Guidance of Children
	Subtotal	767	67	13	20	0	60	13	127	200	60	293	20	113			
	Food and Beverage Preparation and Service Occupations	600	33	0	47	0	7	27	33	280	80	200	73	387		04.07	Food Services
	310 Food and Beverage Service, except Ship Stewards	47	7	0						40	0			20		09.0203	Food Mgt., Production and Services

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
311	Food Serving	18,141	1,594	593	2,360	453	1,287	647	2,740	840	2,540	6,026	4,134	1,640	8,241	17.2904	Waiter/Waitress
312	Barbending	4,926	533	87	300	33	533	120	780	113	1,227	1,227	1,553	747	2,240	*	
313	Cooking, Large Hotels and Restaurants	281	27	0	13	0	40	0	27	0	27	27	147	27	13	09.0203	Food Mgt., Production and Services
314	Cooking, Small Hotels and Restaurants	607	40	7	60	0	53	7	67	27	293	293	94	0	447	17.2901	Baker
315	Miscellaneous Cooking, Except Domestic	8,288	560	53	1,153	120	987	153	1,414	93	1,887	214	2,287	393	1,547	17.2902	Cook/Chef
316	Miscellaneous Cooking, Except Meatcutting, Except in Slaughtering and Packing Houses	2,485	113	33	366	20	180	33	346	86	800	800	680	158	1,073	17.2902	Cook/Chef
317	Miscellaneous Food and Beverage Preparation	1,639	67	7	400	33	140	13	266	13	0	13	753	200	226	17.2902	Cook/Chef
318	Meatcutting, Except in Slaughtering and Packing Houses	1,239	100	0	207	27	113	7	193	20	200	200	426	153	373	17.2903	Meatcutters
319	Miscellaneous Food and Beverage Preparation, Other	1,793	186	27	327	40	53	27	261	54	513	513	453	80	840	17.2902	Cook/Chef
320	Food and Beverage Preparation, Other	3,720	293	53	334	160	167	180	480	87	1,113	447	1,333	660	2,540	*	
321	Food and Beverage Preparation, Other	233	60	13	27	7	40	0	13	0	80	80	13	0	40	09.0203	Food Mgt., Production and Services
Subtotal		601	27	0	—	—	60	13	40	0	274	140	200	147	473	17.2904	Waiter/Waitress
		44,600	3,640	873	5,594	893	3,660	1,227	6,660	1,333	12,773	4,480	12,273	4,273	18,460		
	Lodging and Related Service Occupations																
320	Boardinghouse and Lodging-house Keeping	367	20	0	147	0	13	0	60	0	100	0	27	0	0	04.11	Hotel and Lodging
321	Housekeeping, Hotels and Institutions	1,841	67	13	360	100	154	27	220	0	153	0	887	547	1,187	09.0205	Inst. Home Mgt. and Supporting Services
323	Maid and Related Services, Hotel, Restaurants, and Related Establishments	53	—	—	7	0	—	—	—	—	33	0	13	0	0	*	
324	Bellman and Related Services	2,691	266	73	146	53	53	33	420	120	613	113	1,193	313	693	09.0205	Inst. Home Mgt. and Supporting Services
329	Lodging and Related Services, Other	68	—	—	—	—	—	—	—	—	28	7	40	0	107	04.11	Hotel and Lodging
Subtotal		7	—	—	—	—	—	—	—	—	—	—	7	0	0	04.11	Hotel and Lodging
		5,027	353	86	660	153	220	60	700	120	927	120	2,167	860	1,987		
	Barbering, Cosmetology, and Related Service Occupations																
330	Barbering and Related Services	613	40	0	20	7	53	0	100	13	260	40	140	13	40	17.2601	Barbering
331	Manicuring	40	—	—	—	—	—	—	—	—	7	0	33	0	0	17.2602	Cosmetology
332	Beautician Services	2,806	273	100	253	20	253	40	547	54	660	113	820	27	366	17.2602	Cosmetology
334	Masseur and Related Services	20	—	—	—	—	—	—	—	—	—	—	20	6	20	17.2699	Personal Services, Other
338	Embalming	121	—	—	7	0	7	0	20	0	60	0	27	20	47	07.0909	Mortuary Science

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
339	Barbering, Cosmetology, and Related Services, Other	20	—	—	—	—	—	—	—	—	—	20	0	0	*	17.2699 Personal Services, Other
	Subtotal	7	—	—	—	—	—	—	—	—	—	7	0	0		
		3,627	100	280	27	313	40	667	67	987	153	1,067	73	473		
Amusement and Recreation Services Occupations																
340	Bowling Alley and Billiard Parlor Services	27	—	—	—	—	—	—	—	20	100	7	7	53	*	
341	Golf Course, Tennis Court, Skating Rink & Related Services	186	—	46	0	27	0	40	0	33	13	40	0	127	04.18	Recreation and Tourism
342	Amusement Device and Concession Work	13	—	27	7	13	13	—	—	—	—	33	7	13	*	
344	Ushering	86	—	33	13	27	13	200	133	187	0	27	13	154	04.18	Recreation and Tourism
	Subtotal	474	—	33	13	27	13	200	133	187	0	27	13	154	*	
		47	—	—	—	27	7	—	—	20	7	—	—	20	*	
		833	13	106	20	107	33	240	133	260	120	107	27	380		
Miscellaneous Personal Service Occupations																
353	Guide Service, Except Hunting and Fishing	13	0	—	—	—	—	—	—	—	—	—	—	0	*	
354	Unlicensed Midwife and Practical Nurses	46	—	—	—	33	0	13	7	—	—	7	0	0	07.0302	Practical (Vocational) Nursing
355	Attendant Work, Hospitals, Morgues, and Related Health Services	7	—	—	—	—	—	—	—	—	—	14	0	33	07.0307	Home Health Aide
		80	—	—	—	—	—	66	0	—	—	4,240	1,567	4,173	07.0303	Nursing Assistants
		11,120	673	1,420	440	1,180	220	2,020	440	1,587	180	4,240	33	33	04.0402	Physical Therapy
		134	7	7	0	—	—	—	—	7	0	113	—	—	07.0907	Medical Emergency Tech.
		87	—	60	13	33	0	40	—	—	—	40	—	27	09.0201	Care & Guidance of Children
		93	—	—	—	—	—	—	—	—	—	—	—	0	07.0304	Psychiatric Aide
		1,540	—	—	—	—	—	1,540	153	—	—	—	—	0	*	
		93	—	—	—	—	—	87	6	0	7	6	0	0	01.0299	Ag. Supplies & Services, Other
		280	47	13	7	100	7	53	0	27	6	40	40	7	01.199	Agriculture; Other
		326	7	13	7	—	—	20	7	60	13	226	47	120	*	
		34	—	—	—	—	—	7	0	27	7	—	—	7	*	
356	Animal Care, Other	199	0	7	0	20	0	27	0	72	0	60	0	0	*	
358	Checkroom, Locker Room, and Restroom Service	181	—	47	13	27	0	—	—	20	0	87	0	13	09.0201	Care & Guidance of Children
	Subtotal	14,233	760	1,574	480	1,393	227	3,873	613	1,800	213	4,833	1,687	4,413		
Apparel and Furnishings Service Occupations																
361	Laundry Service	1,407	107	207	20	299	40	381	7	147	7	266	113	260	17.1602	Laundrying
362	Dry Cleaning Service	247	—	13	7	87	13	120	13	7	0	20	0	40	*	
		174	—	20	0	33	0	47	13	60	0	14	0	7	17.1601	Drycleaning
		27	7	—	—	—	—	—	—	—	—	20	13	33	17.1602	Laundrying



OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
			Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
D.O.T. Number	Occupational Group																
363	Pressing Service	278	12	0	7	0	27	0	86	0	93	20	60	34	66	17.16	Fabric Maintenance Services
		7	—	—	7	0	—	—	—	—	—	—	—	—	0	17.1601	Drycleaning
365	Shoe and Luggage Repair and Related Services	73	—	—	13	0	7	—	—	—	33	0	20	0	27	17.3402	Shoe Repair
366	Shoe Shining and Related Services	13	7	0	—	—	—	6	0	—	—	—	—	—	0	*	
369	Apparel and Furnishings Services, Other	253	6	0	—	—	107	20	53	0	40	0	47	27	67	04.15	Personal Services
		120	27	13	—	—	7	0	13	0	27	0	46	0	113	17.16	Fabric Maintenance Services
		27	7	0	—	—	—	—	7	0	13	13	—	—	0	17.1601	Drycleaning
		240	—	—	—	—	—	—	—	—	—	—	240	80	0	17.1602	Laundering
		7	—	—	—	—	—	—	—	—	—	—	7	0	0	17.1699	Fabric Maintenance Services, Other
	Subtotal	2,873	173	33	260	27	567	80	713	33	420	40	740	267	613		
	Protective Service Occupations	3,267	13	0	0	40	114	0	67	0	80	0	2,993	1,427	2,820	*	
372	Guard and Related Services	607	27	0	73	33	60	7	253	7	160	13	34	0	60	17.2802	Law Enforcement Training
376	Police and Related Work, Except in Public Service	73	—	—	33	7	—	—	—	—	33	33	7	0	33	17.2802	Law Enforcement Training
377	Law Enforcement Work, Other	200	—	—	93	7	100	33	—	—	7	0	—	—	66	17.2802	Law Enforcement Training
379	Protective Services, Other	353	—	—	47	0	53	27	53	0	167	27	33	0	54	*	
	Subtotal	4,500	40	0	246	87	327	67	373	7	447	73	3,067	1,427	3,033		
	Building and Related Service Occupations	368	47	7	7	0	21	0	27	13	79	7	187	133	273	17.11	Custodial Services
381	Cleaning and Related Services	9,886	614	40	1,120	120	813	87	1,240	54	2,993	633	3,106	573	1,880	17.11	Custodial Services
388	Elevator Service	53	—	—	—	—	—	26	0	0	27	7	—	—	0	*	
389	Building and Related Services, Other	159	—	—	6	7	—	26	0	0	7	0	120	14	87	*	
		27	—	—	—	—	—	7	0	0	13	0	7	0	7	01.0201	Agricultural Chemicals
		40	—	—	—	—	—	—	—	—	7	0	33	0	0	17.11	Custodial Services
	Subtotal	10,533	661	47	1,133	127	834	87	1,326	67	3,126	647	3,453	720	2,247		
	Total—Service Occupations	86,993	6,020	1,258	9,873	1,814	18,834	14,679	23,380	20,940	5,906	28,000	9,354	31,719			

*No Vocational Instruction Training Program Listed.

**TABLE 5.
FARMING, FISHING, FORESTRY AND RELATED OCCUPATIONS**

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2-Year Need		INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Total	H.E.W. Number	Program	
Plant Farming Occupations																	
401	Grain Farming	60	73	47	0	27	173	120	107	—	—	486	667	1,700	01.0102	Plant Science	
403	Vegetable Farming	1,039	1,627	106	0	—	—	—	—	—	—	—	—	207	01.0102	Plant Science	
404	Fruit and Nut Farming	7	0	7	0	—	—	—	—	—	—	13	0	0	01.0299	Ag. Supplies & Services, Other	
405	Crop Specialty Farming	—	—	—	—	13	0	—	—	—	—	—	—	0	01.0102	Plant Science	
406	Horticultural Specialty Work	7	0	13	0	—	—	6	0	—	—	—	—	0	*		
407	Gardening and Groundskeeping	—	—	—	—	7	7	—	—	93	27	73	20	67	01.0102	Plant Science	
		7	0	40	0	34	27	33	33	533	452	333	200	566	01.0502	Floriculture	
		—	—	—	—	—	—	—	—	67	0	34	0	60	01.0505	Nursery Operation & Mgt.	
		—	—	—	—	—	—	13	0	—	—	—	—	0	01.0501	Arboriculture	
		67	27	53	67	33	13	200	20	394	147	394	86	307	01.0504	Landscaping	
		47	40	7	0	20	0	27	0	67	67	0	80	200	01.0506	Turf Management	
		—	—	—	—	—	—	14	13	7	0	26	0	0	01.0602	Recreation	
		33	7	—	—	33	13	13	7	33	0	—	—	7	*		
		80	6	88	6	53	0	113	7	66	0	347	33	0	01.0104	Farm Business Management	
		60	113	93	60	60	40	147	53	153	27	7	40	473	01.0301	Agricultural Power & Machinery	
		—	—	—	—	—	—	14	13	13	20	—	—	40	01.0501	Arboriculture	
		1,407	1,893	507	133	280	273	727	260	1,426	740	1,713	1,126	3,627			
	Subtotal																
Animal Farming Occupations																	
411	Dairy Farming	40	0	73	13	40	0	100	19	33	0	—	—	14	01.0101	Animal Science	
412	Poultry Farming	—	—	—	—	—	—	—	—	—	—	33	7	0	*		
		—	—	7	0	187	273	47	40	347	46	20	0	373	01.0101	Animal Science	
		—	—	34	0	—	—	—	—	—	—	—	—	0	01.0299	Ag. Supplies & Services, Other	
413	Livestock Farming	—	—	13	0	7	0	—	—	113	0	—	—	7	01.0401	Food Products	
		2,847	453	1,473	247	1,173	147	947	94	180	33	40	0	899	01.0101	Animal Science	
419	Animal Farming, Other	13	0	—	—	—	—	—	—	—	—	—	—	0	01.0401	Food Products	
		—	—	13	0	—	—	106	40	7	7	13	0	20	01.0101	Animal Science	
		—	—	—	—	—	—	—	—	7	7	—	—	7	01.99	Agriculture, Other	
		2,900	453	1,613	260	1,407	420	1,200	193	687	93	106	7	1,320			
	Subtotal																
Miscellaneous Farming and Related Occupations																	
421	General Farming	2,846	507	3,040	174	3,094	280	4,806	527	3,800	513	594	53	1,747	01.01	Agricultural Production	
422	Farm Irrigation	27	80	0	7	60	20	0	13	60	27	—	—	26	01.0304	Water Management	
423	Farm Couples	—	—	0	13	—	—	—	—	—	—	—	—	0	*		
424	Farm Machinery Operating, Other	—	—	13	6	—	—	60	13	—	—	13	0	13	*		
		—	—	—	—	—	—	20	47	—	—	40	7	0	01.0301	Agricultural Power & Machinery	
429	Miscellaneous Farming and Related Work, Other	13	0	—	—	—	—	—	—	—	—	—	—	0	01.01	Agricultural Production	
		—	—	—	—	—	—	7	0	—	—	—	—	80	01.0102	Plant Science	
		227	—	—	—	—	—	—	—	—	—	—	—	—			

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		INSTRUCTIONAL TRAINING PROGRAM		
D.O.T. Number	Occupational Group	12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		Total State Projected 2 Year Need	H.E.W. Number	Program
		Now	Month	Now	Month	Now	Month	Now	Month	Now	Month	Now	Month			
	Subtotal	7	587	2,886	200	3,167	300	600	7	3,867	540	127	1,873	01.99	Agriculture, Other	
	Fishery and Related Occupations															
	436 Marine Life Cultivation and Related Work	13												01.0607	Fish (Including Farms and Hatcheries)	
	Subtotal	13														
	Agricultural Service Occupations															
	465 Blight and Pest Control and Bindweed Eradication	81	7	14	0	40	0	0	27	27	0		53	01.0201	Agricultural Chemicals	
	466 Animal Care	1,346	140	0	300	480	133	240	33	26	0	160	254	01.0401	Food Products	
	467 Animal Husbandry Services	33										33	0	01.0299	Ag. Supplies & Services, Other	
	469 Agricultural Services, Other	20	20	0									0	*		
	Subtotal	1,480	160	7	314	480	133	280	33	53	27	193	307			
	Self-Employed Farmers	52,120 ^a	3,271 ^a	83 ^b	5,201 ^a	110 ^b	12,223 ^a	215 ^b	15,433 ^a	273 ^b	13,380 ^a	225 ^b	1,902 ^b			
Total—Farming, Fishery, Forestry, and Related Occupations.		86,319	10,624	3,023	10,688	756	17,557	1,341	22,533	1,359	19,413	1,625	5,504	1,305	9,029	

*No Vocational Instructional Training Program Listed.
^aNebraska Department of Agriculture, 1974 Nebraska Agriculture Statistics, loc. cit.
^bDouglas Genereaux, loc. cit.

TABLE 6
PROCESSING OCCUPATIONS

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		INSTRUCTIONAL TRAINING PROGRAM		
D.O.T. Number	Occupational Group	12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		12 Month Need		Total State Projected 2 Year Need	H.E.W. Number	Program
		Now	Month	Now	Month	Now	Month	Now	Month	Now	Month	Now	Month			
	Occupations in Processing of Metal															
	500 Electroplating	67								67	7			7	*	
	501 Dip Plating	20												0	17.2399	Metalworking, Other
	Subtotal	53												0	17.2399	Metalworking, Other

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
503	Pickling, Cleaning, Degreasing, and Related Work	100												0	*	
504	Heat Treating	20												0	17.24 Metallurgy	
505	Metal Spraying, Coating, and Related Work	133												13	17.2399 Metalworking, Other	
509	Metal Processing, Other	74	67	13			7	0						67	*	
	Subtotal	467	67	13		7	0				200	20	193	0	87	
	Ore Refining and Foundry Occupations															
519	Ore Refining and Foundry Work, Other	1,334							467	100	867	80			80	
	Subtotal	1,334							467	100	867	80			80	
	Occupations in Processing of Food, Tobacco, and Related Products															
520	Mixing, Compounding, Blending, Kneading, Shaping, and Related Work	393				14	0		20	0			359	40	*	
		939	13	26		193	13		100	13		67	220	33	01.0202 Feeds	
		107										40	7	0	17.2901 Baker	
521	Separating, Crushing, Milling, Chopping, Grinding, and Related Work	674										33	613	27	*	
		1,134	107	47		67	14		233	40		20	167	0	01.0202 Feeds	
		514	7	0		440	500		33	7		0	7	0	01.0401 Food Products	
522	Culturing, Melting, Fermenting, Distilling, Saturating, Pickling, Aging, and Related Work	87							27	0		0	7	0	01.0401 Food Products	
		273							47	13			153	0	*	
523	Heating, Rendering, Melting, Drying, Cooling, Freezing, and Related Work	101				47	46		7	0			47	0	01.0401 Food Products	
		46													*	
524	Coating, Icing, Decorating, and Related Work	41	7	0		13	0		7	7			27	0	17.2901 Baker	
525	Slaughtering, Breaking, Curing and Related Work	2,681	647	240					7	0		26	380	13	*	
		65	8	0		120	0		347	287		113	1,427	307	01.0401 Food Products	
526	Cooking and Baking, Other	666	73	7					393	20		13	46	7	*	
		220										100	20	0	17.2901 Baker	
		1,554							13	0		494	20	186	17.2999 Quantity Food Occupations, Other	
529	Processing, Food and Related Products, Other	866	100	7		86	0		193	0		327	53	0	*	
		1,053	80	0		300	240		86	0		400	87	0	01.0202 Feeds	
		11,913	1,093	407		1,500	1,033		1,513	387		2,413	4,667	613	01.0401 Food Products	
	Subtotal														4,040	

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
	Occupations in Processing of Paper and Related Materials															
	539 Processing, Paper and Related Materials, Other	180							13	7			167	0	7	*
	Subtotal	180						13	7			167	0	7		
	Occupations in Processing of Petroleum, Coal, Natural and Manufactured Gas, and Related Products															
	540 Mixing and Blending	113											113	53	53	*
	Subtotal	113										113	53	53		
	Occupations in Processing of Chemicals, Plastics, Synthetics, Rubber, Paint, and Related Products															
	550 Mixing and Blending	175							20	7	41	0	114	47	213	*
	554 Coating, Calendaring, Laminating, and Finishing	887									887	33			20	*
	556 Casting and Molding, Other	133									33	14	100	0	14	17.27
	558 Reacting, Other	213											213	0	0	*
	559 Processing, Chemicals and Related Products, Other	805						40	13	26	206	26	446	0	100	*
	Subtotal	2,213					40	13	113	33	1,167	73	873	47	347	
	Occupations in Processing of Wood and Wood Products															
	563 Saturating and Related Work, Other	7						7	7						0	*
	Subtotal	7					7	7							0	
	Occupations in Processing of Stone, Clay, Glass, and Related Products															
	570 Crushing, Grinding, and Mixing	274							20	13	194	0	40	0	0	*
	573 Baking, Drying, and Heat Treating	53									53	14			27	*
	574 Impregnating, Coating, and Glazing	13													0	*
	575 Forming	186									180	80	6	0	167	*
	579 Processing, Nonmetallic Minerals and Related Products, Other	1,887							127	60	1,533	653	187	20	1,246	*
	Subtotal	2,413						160	73	747	1,960	747	233	20	1,440	*

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
Occupations in Processing of Leather, Textiles, and Related Products		207													0	*
582	Washing, Steaming, and Saturating												207			
589	Processing, Leather and Textiles, Other	60						60	13						27	
	Subtotal	267						60	13				207		27	
Processing Occupations, Other		140			13	0	67	67					60	0	67	*
599	Miscellaneous Processing, Other	140			13	0	67	67					60	0	67	
	Subtotal	19,047	1,160	420	800	213	1,621	1,120	2,346	613	1,233	6,607	6,513	740	6,148	

*No Vocational Instructional Training Program Listed.

TABLE 7
MACHINE TRADES OCCUPATIONS

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
Metal Machining Occupations		3,873	53	7	220	40	47	33	540	67	1,180	467	1,833	787	1,854	17.2302 Machine Shop
600	Machining and Related Work	1,587							53	0	774	133	760	186	547	17.2307 Tool-and-Die Making
601	Toolmaking and Related Work	114											114	0	0	*
603	Abrading	27											27	0	0	17.2303 Machine Tool Operation
604	Turning	40											40	0	0	17.2303 Machine Tool Operation
605	Milling and Planing	53											53	0	0	17.2303 Machine Tool Operation
606	Boring	100							14	0	46	0	40	0	0	17.2303 Machine Tool Operation
607	Sawing	7							7	0			40	0	0	17.2303 Machine Tool Operation
609	Metal Machining, Other	340									340	7			6	
	Subtotal	1,586			120	53			13	0	1,453	220			306	17.2302 Machine Shop
		7,727	53	7	340	93	47	33	627	67	3,793	827	2,867	980	2,713	
Metalworking Occupations, Other		13			40	0	20	0	7	0			6	0	0	17.2399 Metalworking, Other
610	Hammer Forging	13			40	0	20	0	7	0			6	0	0	17.2399 Metalworking, Other
611	Press Forging	1,333									1,333	40			40	
612	Forging, Other	7			7	0									0	

OCCUPATIONAL DIVISION		INSTRUCTIONAL TRAINING PROGRAM															
D.O.T. Number	Occupational Group	Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	H.E.V. Number	Program
			Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need			
615	Punching and Shearing	380	-	-	-	-	-	-	-	-	333	33	47	0	33	17.2303	Machine Tool Operation
616	Fabricating Machine Work	1,120	-	-	-	-	73	27	280	67	133	33	767	60	107	17.2304	Metal Trades, Combined
617	Metal Forming, Other	160	-	-	7	-	-	-	133	-	-	33	20	0	0	17.2305	Sheet Metal
619	Miscellaneous Metalworking, Other	80	-	-	-	-	-	-	-	-	-	-	80	7	7	17.2304	Metal Trades, Combined
	Other	20	-	-	-	-	-	-	-	-	-	-	20	0	0	17.2303	Machine Tool Operation
	Subtotal	1,240	-	-	20	6	6	0	307	0	307	0	907	206	200	17.2304	Metal Trades, Combined
		4,413	-	47	0	47	0	86	27	2,386	173	1,847	273	387			
	Mechanics and Machinery Repairers																
620	Motorized Vehicle and Engineering Equipment Repairing	140	13	0	-	-	46	0	67	0	14	0	0	0	0	*	
		227	-	-	33	6	27	7	167	67	-	-	-	-	67	01.0301	Agricultural Power and Machinery
		20	-	-	7	0	-	-	13	0	-	-	-	-	0	17.03	Automotive Services
		7,639	473	74	866	113	1,067	160	1,893	346	2,520	400	1,574	1,574	17.0302	Mechanics	
		219	47	0	40	13	26	0	33	20	67	0	60	60	17.0303	Specialization, Other	
		2,150	60	27	73	33	206	33	192	20	1,613	180	274	274	17.1003	Heavy Equipment (Const.)	
		87	-	-	-	-	47	13	33	13	-	-	27	27	17.31	Small Engine Repair, Internal Combustion	
621	Aircraft Repairing	26	-	-	-	-	-	-	-	13	0	13	0	0	0	04.03	Automotive
		226	-	-	13	7	0	7	0	7	213	13	13	13	17.0401	Aircraft Maintenance	
		7	-	-	-	-	-	-	-	-	-	-	7	0	0	17.0402	Aircraft Operations
623	Marine Equipment Repairing	20	-	-	-	-	-	-	-	-	-	-	-	-	0	17.32	Marine Occupations
624	Farm Machinery Repairing	2,641	193	33	307	133	801	147	800	154	193	40	354	354	01.0301	Agricultural Power & Machinery	
		425	33	26	-	26	7	0	93	13	273	20	106	106	17.12	Diesel Mechanics	
		147	-	-	20	0	-	-	87	27	40	20	53	53	17.31	Small Engine Repair, Internal Combustion	
626	Metalworking Machinery Repairing	33	-	-	-	20	13	0	-	-	-	-	0	0	*		
627	Printing and Publishing Machinery Repairing	54	-	-	7	0	-	-	-	27	0	20	0	0	*		
629	Special Industry Machinery Repairing	68	7	0	7	0	20	0	20	0	20	7	0	0	*		
630	General Industry Machinery Repairing	61	7	0	7	0	-	-	7	0	27	0	0	0	*		
632	Ordinance and Accessory Repairing	33	-	-	7	0	-	-	-	-	7	0	13	13	0	17.1003	Heavy Equipment (Const.)
		14	-	-	7	0	-	-	-	-	7	0	-	-	0	*	
633	Business and Commercial Machine Repairing	13	-	-	-	-	-	-	-	-	-	-	13	0	0	*	
		333	-	-	73	7	27	0	140	13	73	0	33	0	33	17.06	Business Mach. Maintenance
637	Utility Equipment Repairing	54	-	-	7	-	-	-	40	7	7	0	12	12	17.01	Air Conditioning	
		168	-	-	-	-	7	0	34	13	127	20	13	13	17.0101	Cooling	
		480	80	0	20	54	33	0	73	7	220	40	107	107	17.0202	Gas Appliances	

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
638	Miscellaneous Machine Installation and Repair	773	0	7	6	0	0	20	0	253	33	167	20	327	7	* 16.0113 Mechanical Technology
		7										7				* 17.1099 Construction and Maintenance Trades, Other
		27														*
639	Mechanical Repairing, Other	396			20	7	6	7	7	154	7	120	0	104	20	*
	Subtotal	16,487	913	167	1,493	240	1,400	187	2,847	420	4,033	727	6,001	773	2,753	*
	Paperworking Occupations	27							27						27	*
640	Paper Cutting, Winding, and Related Work	13									13	0			0	*
641	Folding, Creasing, Scoring, and Gluing	1,900							13	0	1,667	180	220	153	480	*
643	Paper Corrugating	173							107	0	33	0	33	0	0	*
649	Paperworking, Other	2,113							147	27	1,713	180	253	153	507	*
	Subtotal	186	100	13	20	0			13	13	20	7	33	0	20	17.1901 Composition, Make-Up and Typesetting
	Printing Occupations	3,000	127	0	80	7	13	0	67	20	1,313	113	1,400	434	961	17.1902 Printing Press Occupations
650	Typesetting and Composing	232							186	7	20	13	26	0	40	*
651	Printing Press Work	254	13	0	14	0			7	0	100	20	120	33	106	17.1906 Bookbinding
652	Printing Machine Work	0										47			13	*
653	Bookbinding and Related Work	67									40	0	27	0	0	17.1919 Graphic Arts Occupations
659	Printing, Other	7						7							0	17.1906 Bookbinding
	Subtotal	7											7		0	17.1999 Graphic Arts, Other
		3,753	240	13	114	7	20	0	273	40	1,493	200	1,612	467	1,140	
	Wood Machining Occupations	321	54	13							140	40	127	33	80	17.3601 Millwork and Cabinetmaking
660	Cabinetmaking	40									13	0			13	17.3601 Millwork and Cabinetmaking
665	Milling and Planing	12			6	0	6	0							0	*
666	Boring	60									47	0	13	13	20	17.3601 Millwork and Cabinetmaking
667	Sawing	20											20	0	0	17.3699 Woodworking, Other
668	Chipping	20													0	17.3699 Woodworking, Other
669	Wood Machining, Other	40											40	7	13	*
	Subtotal	440	200	27	33	13	26	13			7	0	233	20	47	17.3601 Millwork and Cabinetmaking
		963	254	40	40	13	26	13			207	40	433	73	173	

OCCUPATIONAL DIVISION	Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
D.O.T. Occupational Group															
Occupations in Machining Stone, Clay, Glass, and Related Materials															
677 Chipping, Cutting, Sawing, and Related Work	14													0	*
Subtotal	14													0	
Textile Occupations															
681 Twisting, Beaming, Warping, and Related Work	107						107	7						67	17-3389 Textile Production & Fabrication, Other
683 Weaving and Related Work	93						93	13						20	*
	974						307	66						153	17-3399 Textile Production & Fabrication, Other
689 Textile Machine Work, Other	406						406	107						200	*
Subtotal	1,580						913	193						440	
Machine Trades Occupations, Other															
690 Plastics, Synthetics, Rubber, and Leather Working	60									60	13			13	*
692 Fabrication of Products from Assorted Materials	33								26	7	7			20	*
699 Miscellaneous Machine Work, Other	267									207	33			67	*
Subtotal	360									274	53			100	
Total—Machine Trades Occupations	37,400	1,460	227	2,027	353	1,540	4,739	774	2,327	13,054	2,726			8,213	
*No Vocational Instructional Training Program Listed.															

**TABLE 8
BENCH WORK OCCUPATIONS**

OCCUPATIONAL DIVISION	Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need				
D.O.T. Occupational Group															
Occupations in Fabrication, Assembly, and Repair of Metal Products, Other															
700 Fabrication, Assembly, and Repair of Jewelry, Silverware, and Related Products	206													0	*
701 Fabrication, Assembly, and Repair of Tools and Related Products	7									7	0			0	*
704 Engraving, Etching, and Related Work	87													0	*
														0	17-2399 Metalworking, Other

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
705	Filing, Grinding, Buffing, Cleaning, and Polishing, Other Metal Unit Assembling and Adjusting, Other	13	—	—	—	—	—	—	—	—	—	13	0	0	17.2899	Metalworking, Other
706	Metal Unit Assembling and Adjusting, Other	3,233	—	100	0	13	0	2,413	107	707	367	827				
709	Fabrication, Assembly, and Repair of Metal Products, Other	67	—	—	—	—	—	14	0	53	0	6				
	Subtotal	3,620	—	13	0	53	0	2,514	107	920	367	833				
Occupations in Fabrication and Repair of Scientific and Medical Apparatus, Photographic and Optical Goods, Watches and Clocks, and Related Products																
710	Fabrication and Repair of Instruments for Measuring, Controlling, and Indicating Physical Characteristics	7	—	—	—	—	—	—	—	—	—	—	—	0	*	
711	Fabrication and Repair of Optical Instruments and Lenses	73	—	40	0	13	0	—	—	20	0	—	0	0	17.2101	Instruments, Other Than Watches and Clocks
712	Fabrication and Repair of Surgical, Medical, and Dental Instruments and Supplies	280	—	—	—	—	—	—	—	—	—	—	—	0	*	
713	Fabrication and Repair of Ophthalmic Goods	20	—	—	—	—	—	—	—	—	—	—	—	0	*	
714	Fabrication and Repair of Photographic Equipment and Supplies	113	—	—	—	—	—	—	—	—	—	—	—	0	*	
715	Fabrication and Repair of Watches, Clocks, and Parts	134	—	—	—	—	—	—	—	—	—	—	—	0	*	
	Subtotal	53	—	—	—	—	—	—	—	—	—	—	—	0		
Occupations in Assembly and Repair of Electrical Equipment																
720	Assembly and Repair of Radio and Television Receiving Sets and Phonographs	40	—	—	—	—	—	—	—	—	—	—	—	0	*	
721	Assembly and Repair of Motors, Generators, and Related Products	280	—	—	—	—	—	—	—	—	—	—	—	0	*	
722	Communications Equipment Assembly and Repair	7	—	—	—	—	—	—	—	—	—	—	—	0	*	
723	Assembly and Repair of Electrical Appliances and Fixtures	165	—	—	—	—	—	—	—	—	—	—	—	0	*	
	Subtotal	20	—	—	—	—	—	—	—	—	—	—	—	0		
Occupations in Assembly and Repair of Electrical Equipment																
720	Assembly and Repair of Radio and Television Receiving Sets and Phonographs	33	—	—	—	—	—	—	—	—	—	—	—	0	*	
721	Assembly and Repair of Motors, Generators, and Related Products	535	—	—	—	—	—	—	—	—	—	—	—	0	*	
722	Communications Equipment Assembly and Repair	13	—	—	—	—	—	—	—	—	—	—	—	0	*	
723	Assembly and Repair of Electrical Appliances and Fixtures	165	—	—	—	—	—	—	—	—	—	—	—	0	*	
	Subtotal	1,093	—	—	—	—	—	—	—	—	—	—	—	0		
Occupations in Assembly and Repair of Electrical Equipment																
720	Assembly and Repair of Radio and Television Receiving Sets and Phonographs	85	—	—	—	—	—	—	—	—	—	—	—	0	*	
721	Assembly and Repair of Motors, Generators, and Related Products	1,093	—	—	—	—	—	—	—	—	—	—	—	0	*	
722	Communications Equipment Assembly and Repair	33	—	—	—	—	—	—	—	—	—	—	—	0	*	
723	Assembly and Repair of Electrical Appliances and Fixtures	535	—	—	—	—	—	—	—	—	—	—	—	0	*	
	Subtotal	1,713	—	—	—	—	—	—	—	—	—	—	—	0		



OCCUPATIONAL DIVISION		INSTRUCTIONAL TRAINING PROGRAM														
D.O.T. Number	Occupational Group	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	I.E.W. Number	Program
		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need			
724	Winding and Assembly of Coils, Magnets, Armatures, and Related Products	27	7	—	—	—	—	—	—	—	—	—	—	14	*	17.1403 Motor Repairers
		33	7	—	—	—	—	—	—	—	—	—	—	14	*	17.1502 Industrial Electronics
726	Assembly and Repair of Electronic Components and Accessories, Other	87	13	—	—	—	—	—	—	—	—	—	—	0	*	17.15 Electronics Occupations
727	Storage Battery Assembly	—	—	—	—	—	—	7	0	—	—	—	—	0	*	
728	Fabrication of Electrical Wires and Cable	—	—	—	—	—	—	—	—	127	0	—	—	0	*	
729	Assembly and Repair of Electrical Equipment, Other	—	—	—	—	—	—	—	—	—	—	—	—	0	*	
	Subtotal	120	33	20	7	20	20	200	20	553	33	627	113	340	*	16.0108 Electronic Technology 17.1401 Industrial Electricians
Occupations in Fabrication and Repair of Products Made From Assorted Materials		114	0	—	—	—	—	27	7	40	0	—	—	7	*	
730	Fabrication and Repair of Musical Instruments and Goods	—	—	—	—	—	—	—	—	—	—	—	—	0	*	
732	Fabrication and Repair of Sporting Goods	—	—	—	—	—	—	—	—	—	—	33	0	0	*	
735	Fabrication and Repair of Jewelry, Other	—	—	—	—	—	—	—	—	—	—	13	0	0	*	
737	Fabrication of Ammunition; Fireworks, Explosives, and Related Products	—	—	—	—	—	—	—	—	—	—	333	167	333	*	
739	Fabrication and Repair of Products Made From Assorted Materials, Other	200	33	360	40	—	—	—	20	87	13	27	6	146	*	17.3601 Millwork and Cabinetmaking 17.3699 Woodworking, Other 17.3999 Textile Production and Fabrication, Other
	Subtotal	40	33	386	53	26	13	60	27	127	13	420	173	27	*	
Painting, Decorating, and Related Occupations		34	7	73	13	—	—	67	13	27	0	193	7	173	*	
741	Spray Painting	34	7	73	13	—	—	67	13	27	0	193	7	173	*	
	Subtotal	—	—	—	—	—	—	20	0	—	—	—	—	0	*	
Occupations in Fabrication and Repair of Plastics, Synthetics, Rubber, and Related Products		33	—	—	—	—	—	—	—	—	—	—	—	0	*	
750	Fabrication and Repair of Tires, Tubes, Tire Treads, and Related Products	—	—	—	—	—	—	—	—	—	—	—	—	0	*	

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number Program
752	Fitting, Shaping, Cementing, Finishing, and Related Work, Other	60	0											27	*
754	Fabrication and Repair of Miscellaneous Plastic Products											80	47	47	*
	Subtotal	60	0			20	0					80	47	74	
Occupations in Fabrication and Repair of Wood Products															
761	Laying Out, Cutting, Carving, Shaping, and Sanding Wood Products, Other											7	0	0	*
762	Assembly of Wood Products, Other	7										7	0	0	
763	Fabrication and Repair of Furniture, Other	113		13	0							100	33	40	*
769	Fabrication and Repair of Wood Products, Other	13										260	67	140	*
	Subtotal	7		7	20							13	40	74	*
		407		20	20							387	140	287	17.3601 Millwork and Cabinetmaking
Occupations in Fabrication and Repair of Sand, Stone, Clay, and Glass Products															
771	Stone Cutting and Carving	87	13			20	27	7	0	26	0	27	0	20	*
774	Fabrication and Repair of Pottery and Porcelain Work	13										13	13	14	*
775	Grinding, Filing, Polishing; Frosting, Etching, Cleaning, and Related Work, Other	13										13	7	0	*
779	Fabrication and Repair of Sand, Stone, Clay, and Glass Products, Other	7													
	Subtotal	120	13	20	27	7	27	7	0	33	0	53	20	34	17.27 Plastics Occupations
Occupations in Fabrication and Repair of Textile, Leather, and Related Products															
780	Upholstering and Mattress and Bedspring Fabrication and Repair	486		13	0							473	267	533	*
781	Laying Out, Marking, Cutting, and Punching, Other	273	0									253	133	267	17.34 Leatherworking
782	Handsewing, Mending, Embroidering, Knitting, and Related Work, Other	627		47	0	7	0			40	20	533	100	186	17.35 Upholstery
		200						67	20	133	27			20	17.3399 Textile Production and Fabrication, Other
		88	0	7	0			40	0	7	0	7	0	0	17.16 Fabric Maintenance Services
		20										20	0	0	17.3399 Textile Production and Fabrication, Other

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need		INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	H.E.W. Number	Program	Total State Projected 2 Year Need	
785	Tailoring and Dressmaking	—	—	6	0	7	0	—	—	—	—	—	—	09.0202	Clothing Mgt., Production, and Services	0	
53		—	—	7	0	6	0	—	—	7	7	33	0	17.3301	Dressmaking	0	
248		20	0	7	0	14	0	—	—	93	13	41	6	17.3302	Tailoring	40	
840		—	—	—	—	—	—	—	—	733	0	107	14	17.3399	Textile Production and Fabrication, Other	7	
787	Machine Sewing, Nongarment	—	—	—	0	—	—	—	—	73	20	—	—	09.0204	Home Furnishings, Equip. and Services	20	
786		—	—	—	0	—	—	—	—	400	140	253	33	17.3399	Textile Production and Fabrication, Other	140	
789	Fabrication and Repair of Textile, Leather, and Related Products, Other	—	—	—	—	—	—	—	—	33	0	—	—	*		0	
14	Subtotal	—	—	—	—	—	—	—	—	14	0	—	—			0	
3,000		67	0	27	0	267	73	1,556	227	1,720	553	1,213		17.34	Leatherworking	0	
934	Bench Work Occupations, Other	—	—	—	—	—	—	—	—	—	—	—	—			413	
934	Subtotal	—	—	—	—	—	—	—	—	—	—	—	—			413	
13,547	Total—Bench Work Occupations	328	87	686	100	1,387	240	4,873	393	5,534	1,680	3,967					

*No Vocational Instructional Training Program Listed.

**TABLE 9
STRUCTURAL WORK OCCUPATIONS**

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need		INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	H.E.W. Number	Program	Total State Projected 2 Year Need	
	Occupations in Metal Fabricating, Other	—	—	—	—	—	—	—	—	—	—	—	—				
801	Fitting, Bolting, Screwing, and Related Work	53	33	40	0	66	13	234	67	460	54	173		17.1099	Construction & Maintenance Trades, Other	173	
804	Sheet Metal Work	—	—	—	—	7	0	507	900	1,333	0	1,800		17.3304	Metal Trades, Combined	1,800	
805	Boilermaking and Related Work	13	7	80	54	307	87	313	13	2,347	120	260		17.3305	Sheet Metal Construction & Maintenance Trades, Other	260	
253		—	—	—	—	—	—	253	113	—	—	113		17.1099	Construction & Maintenance Trades, Other	113	

OCCUPATIONAL DIVISION			INSTRUCTIONAL TRAINING PROGRAM													
D.O.T. Number	Occupational Group	Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	H.E.W. Number - Program
			Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
806	Transportation Equipment Assembling and Related Work	40	40	60	—	—	—	—	—	—	—	—	—	—	200	* 17.03 Automotive Services
		173	20	20	13	33	7	20	0	73	0	27	6	120	17.0303 Specialization, Other	
		60	—	—	—	—	—	—	—	47	14	13	0	27	17.0401 Aircraft Maintenance	
		53	—	—	—	—	—	—	—	—	—	53	26	40	17.3601 Millwork and Cabinetmaking	
		267	—	—	—	—	—	267	133	—	—	—	—	133	* 17.0301 Body and Fender	
807	Body Work, Transportation Equipment	74	74	93	—	—	—	—	—	—	—	—	—	347	17.0401 Aircraft Maintenance	
		1,613	140	287	33	93	13	193	13	340	113	580	67	400	17.0303 Specialization, Other	
		7	—	—	—	—	—	—	—	—	—	7	0	0		
		26	—	—	—	—	—	—	—	—	—	26	7	20		
809	Miscellaneous Metal Fabricating, Other	300	—	—	—	—	—	—	—	—	—	—	—	0	*	
	Subtotal	8,646	340	240	400	120	20	1,000	246	1,793	1,220	4,980	280	3,633		
	Welders, Flame Cutters, and Related Occupations															
810	Arc Welding	1,399	146	160	233	13	6	173	40	107	13	687	160	747	17.2306 Welding and Cutting	
812	Combination Arc and Gas Welding	2,853	27	0	94	13	107	533	133	593	60	1,393	226	386	17.2306 Welding and Cutting	
815	Lead Burning	7	—	—	—	—	—	7	0	—	—	—	—	0	*	
816	Flame and Arc Cutting	7	—	—	—	—	—	7	0	—	—	—	—	0	17.2306 Welding and Cutting	
819	Welding, Flame Cutting, and Related Work, Other	7	—	—	—	—	—	—	—	—	—	—	—	0		
	Subtotal	4,273	173	160	327	26	113	720	173	707	73	2,080	386	1,133		
	Electrical Assembling, Installing, and Repairing Occupations															
820	Generator, Motor, and Related Powerplant Equipment Assembly, Installation, and Repair	33	—	—	—	—	—	—	—	—	—	—	—	0	17.1401 Industrial Electricians	
821	Transmission and Distribution Line and Circuit Assembly, Installation, and Repair	27	—	—	—	—	—	—	—	27	0	—	—	0	*	
		1,027	14	0	127	53	13	207	47	213	13	293	173	127	17.1402 Line Installers	
822	Wire Communication, Detection, and Signaling Equipment Assembly, Installation, and Repair	27	—	—	—	—	—	—	—	—	—	—	—	0	*	
		114	67	6	14	0	—	—	—	20	0	—	—	7	17.1402 Line Installers	
		314	27	0	73	0	13	67	7	114	0	20	0	20	17.1501 Communications	
823	Electronic Communication, Detection, and Signaling Equipment Assembly, Installation and Repair	107	—	—	0	6	—	—	—	—	—	107	7	13	*	
824	Lighting Equipment and Building Wiring-Assembly, Installation and Repair-Other	2,173	20	20	147	13	26	213	33	193	27	1,434	133	227	17.1002 Electricity	

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM	
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		H.E.W. Number	Program
825	Transportation and Materials Handling Equipment Assembly, Installation and Repair, Other	7	7	—	—	—	—	—	—	—	—	—	—	0	17.0303	Specialization, Other
827	Large Household Appliance and Similar Commercial and Industrial Equipment Assembly, Installation, and Repair	—	—	—	—	—	—	—	—	—	—	—	—	0	17.0401	Aircraft Maintenance
828	Electrical and Electronic Product Fabrication, Installation, and Repair, Other	13	13	20	7	—	—	—	—	—	—	—	—	6	*	
829	Assembly, Installation, and Repair of Electrical Products, Other	13	13	20	0	—	—	—	—	—	—	—	—	47	17.0101	Cooling
		33	33	100	0	27	0	67	20	60	6	26	7	33	17.02	Appliance Repair
		7	7	—	—	—	—	19	0	80	20	20	0	20	17.0201	Electrical Appliances
		26	0	—	—	—	—	—	—	73	0	60	7	7	16.0108	Electronic Technology
		13	0	40	—	—	—	—	—	—	—	—	—	0	*	
		3,413	—	—	—	—	—	13	7	3,372	407	7	—	20	17.1002	Electricity
		87	—	27	0	13	0	20	0	20	0	20	0	13	17.14	Electrical Occupations
		954	—	—	—	—	—	—	—	947	333	—	—	13	17.1401	Industrial Electricians
		9,373	240	595	86	406	39	646	120	973	120	6,513	1,100	553	17.1402	Line Installer
	Subtotal	47	7	60	7	107	13	107	47	173	73	313	93	260	17.1005	Painting & Decorating
840	Construction and Maintenance Painting and Related Work	—	—	—	—	—	—	—	—	—	—	—	—	27	17.1008	Drywall Installation
841	Paperhanging	7	0	—	—	—	—	—	—	6	13	73	13	7	17.1005	Painting & Decorating
842	Plastering and Related Work	13	0	33	0	13	0	—	—	54	0	107	13	26	17.1006	Plastering
843	Waterproofing and Related Work	—	—	193	47	—	—	33	20	133	60	314	40	213	17.1008	Drywall Installation
844	Cement and Concrete Finishing and Related Work	—	—	—	—	—	—	—	—	7	20	13	0	0	17.1005	Painting & Decorating
845	Transportation Equipment Painting and Related Work	7	0	20	0	13	0	13	0	660	127	1,587	400	440	17.1099	Construction & Maintenance Trades, Other
849	Painting, Plastering, Waterproofing, Cementing, and Related Work, Other	—	—	—	—	—	—	—	—	—	—	—	—	13	*	
		220	73	346	80	240	33	260	67	1,053	300	2,627	580	1,013	17.0301	Body and Fender
	Subtotal	113	—	—	—	—	—	—	—	20	7	93	0	0	*	
		4,746	220	346	80	240	33	260	67	1,053	300	2,627	580	1,013		
	Excavating, Grading, Paving, and Related Occupations	747	—	—	—	—	—	—	—	—	—	—	—	187	*	
850	Excavating, Grading, and Related Work	1,966	60	80	46	147	0	533	173	499	327	647	193	794	17.1003	Heavy Equipment (Const.)
851	Drainage and Related Work	1,620	—	393	0	267	0	720	207	20	7	220	20	313	17.1003	Heavy Equipment (Const.)
852	Concrete Paving	147	—	47	13	—	—	73	33	73	33	27	27	53	17.1007	Plumbing and Pipefitting
		433	—	—	—	—	—	433	200	—	—	—	—	266	*	
		127	—	—	—	—	—	67	0	—	—	60	32	40	17.1003	Heavy Equipment (Const.)
		0	—	—	—	—	—	—	—	—	—	0	40	80	17.1099	Construction & Maintenance Trades, Other



OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
853	Asphalt Paving	440	—	—	—	—	—	—	440	207	—	—	—	—	267	* 17.1003 Heavy Equipment (Const.)
		280	—	—	—	—	—	—	187	0	67	13	26	13		
859	Excavating, Grading, Paving, and Related Work, Other	46	—	—	—	—	—	—	13	0	13	0	0	0	0	* 17.1003 Heavy Equipment (Const.)
		1,064	26	0	133	0	306	113	286	99	60	13	253	27	140	17.1004 Masonry
	Subtotal	33	—	—	—	—	33	0	—	—	—	—	—	—	13	
		6,903	106	7	880	126	1,146	113	2,746	986	739	393	1,286	366	2,166	
	Construction Occupations, Other	10,445	400	246	400	93	799	166	1,393	133	2,827	886	4,626	993	2,820	17.1001 Carpentry
860	Carpentry and Related Work	315	20	0	80	60	14	7	40	13	47	0	114	46	161	*
861	Brick and Stone Masonry and Tile Setting	1,366	26	0	47	33	40	0	260	26	493	120	500	120	341	17.1004 Masonry
862	Plumbing, Gas Fitting, and Steam, Fitting, and Related Work	616	47	0	80	0	61	20	120	40	147	381	161	33	452	*
		106	—	—	—	—	—	—	—	—	20	0	86	7	0	17.0102 Heating
863	Asbestos and Insulation Work	2,547	280	20	200	20	300	7	354	73	515	507	900	47	874	17.1007 Plumbing and Pipefitting
		520	13	0	—	—	—	—	—	—	40	14	467	100	26	17.1099 Construction & Maintenance Trades, Other
864	Floor Laying and Finishing Work	7	—	0	7	0	—	—	—	7	87	0	—	—	0	*
		240	20	0	—	—	—	—	13	7	—	0	120	13	20	17.1099 Construction & Maintenance Trades, Other
865	Glass Setting and Related Work	347	—	—	40	0	—	—	67	7	53	0	187	47	0	17.1009 Glazing
866	Roofing and Related Work	910	113	7	13	0	33	0	79	27	119	26	553	207	440	17.1010 Roofing
869	Miscellaneous Construction Work, Other	6,113	60	13	420	254	53	7	1,100	260	460	146	4,020	1,313	2,867	*
		234	14	14	20	0	20	0	33	0	7	0	140	0	39	17.0102 Heating
		246	—	—	—	—	—	—	87	7	73	0	86	0	0	17.1010 Construction & Maintenance Trades
		107	—	—	—	—	—	—	—	—	107	0	—	—	0	17.1003 Heavy Equipment (Const.)
		34	—	—	—	—	—	—	—	—	34	20	—	—	13	17.1007 Plumbing & Pipefitting
		53	—	—	6	0	—	—	—	—	20	40	27	0	0	17.1099 Construction & Maintenance Trades, Other
	Subtotal	24,206	993	300	1,313	460	1,320	207	3,546	593	5,047	2,140	11,987	2,926	8,053	
	Structural Work Occupations, Other	100	—	—	20	7	—	—	7	0	13	0	60	0	14	*
891	Structural Maintenance, Other	7	—	—	—	—	—	—	—	—	—	—	—	—	0	*
892	Hoisting and Conveying, Other	1,240	27	0	47	14	26	7	579	0	221	0	340	59	119	*
899	Miscellaneous Structural Work, Other	2,566	266	7	180	26	180	93	420	0	793	107	727	107	427	17.10 Construction & Maintenance Trades
	Subtotal	3,913	293	7	247	47	213	100	1,006	0	1,027	107	1,127	166	560	
	Total—Structural Work Occupations	62,000	2,365	853	4,108	945	3,724	625	9,924	2,185	11,339	4,353	30,600	5,804	17,111	

*No Vocational Instructional Training Program Listed.

**TABLE 10
MISCELLANEOUS OCCUPATIONS**

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM I.E.W. Number Program
			Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
Motor Freight Occupations		900														
900 Concrete-Mixing-Truck Driving		721														*
902 Dump-Truck Driving		1,667														*
903 Truck Driving, Inflammables		2,013														*
904 Trailer-Truck Driving		7,647														*
905 Heavy Truck Driving		2,394														*
906 Light Truck Driving		2,125														*
909 Motor Freight Transportation Other		213														04.19 Transportation
Subtotal		17,680	760	423	1,400	200	1,967	247	2,420	473	3,640	813	7,493	1,920	5,173	
Transportation Occupations, Other		13														
910 Railroad Transportation		119														*
912 Air Transportation		20														*
913 Passenger Transportation Other		181														04.19 Transportation 17.0403 Ground Operations
914 Pumping and Pipeline Transportation		4,234														*
915 Parking Lot and Related Service Work		53														04.19 Transportation 17.3202 Pumping Plants
919 Miscellaneous Transportation Work, Other		594														*
		127														04.03 Automotive 04.16 Petroleum
		6,959														*
		2,293														*
		33														04.03 Automotive 04.03 General Merchandise 04.19 Transportation 14.0505 Traffic, Rate, and Transportation Clerks
		46														*
		107														*
Subtotal		14,900	1,060	187	1,740	127	2,600	413	2,593	513	3,327	600	5,227	11,187		
Packaging and Materials Handling Occupations		3,653														
920 Packaging		593														*
921 Hoisting and Conveying		573														04.06 Food Distribution
922 Materials Moving and Storing, Other		534														*
		13														17.1003 Heavy Equipment (Const.)
929 Packaging and Materials Handling, Other		3,673														04.19 Transportation 04.20 Retail Trade, Other
		633														*
		951														04.09 Hdwe., Bldg. Mat., Farm & Garden Sup. & Eqp. Transportation
Subtotal		2,954	53	26	7	0			747	66	1,140	27	1,007	133	320	
		14,647	340	120	620	120	960	553	2,020	280	3,874	1,207	6,833	793	2,567	

OCCUPATIONAL DIVISION		Area I		Area II		Area III		Area IV		Area V		Area VI		INSTRUCTIONAL TRAINING PROGRAM		
D.O.T. Number	Occupational Group	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Total State Projected 2 Year Need	H.E.W. Number	Program
	Occupations in Extraction of Minerals															
930	Boring, Drilling, Cutting, and Related Work	267	100			27	13					60	13	147	*	
932	Loading and Conveying							13	60					0	*	
939	Extraction of Minerals, Other									140	0			0	*	
	Subtotal	267	100	27	13	13	60	140	140	60	13	60	13	147		
	Occupations in Logging															
940	Timber Cutting and Related Work											7	0	0	*	
	Subtotal											7	0	0		
	Occupations in Production and Distribution of Utilities															
950	Stationary Engineering							6	0					0	*	
								67	7	20	0	7	0	0	17.30	Refrigeration
								47	0	67	0	60	0	0	17.32	Stationary Energy Sources, Other
												33	7	0	17.0103	Ventilating (Filtering and Humidification)
951	Firing and Related Work													7	17.32	Stationary Energy Sources, Other
														0	17.32	Stationary Energy Sources, Other
952	Generation, Transmission, and Distribution of Electric Light and Power							20	6	40	0			0	17.3201	Electric Power Generating Plants
								47	0	53	0			0	17.3202	Pumping Plants
								27	20	7	0			27	16.0108	Electronic Technology
954	Filtration, Purification, and Distribution of Water							60	7					0	*	
955	Refuse and Sewage Disposal	7	0	27	20	140	20	260	20	113	20	7	0	73	17.3202	Pumping Plants
								40	13	13	0			20	*	
957	Transmission of Communication, Other									17	0			0	*	
												27	0	0		
	Subtotal	7	0	273	53	193	40	507	47	313	20	147	7	127		
	Amusement, Recreation, and Motion Picture Occupations, Other															
960	Motion Picture Projecting	6	0	7	0			13	0	27	7	13	0	7	*	
969	Miscellaneous Amusement, Recreation, and Motion Picture Work, Other													0	*	
	Subtotal	6	0	7	0			13	0	27	7	13	0	7		
												67	0	0		
												80	0	7		

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
D.O.T. Number	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
Occupations in Graphic Art Work 970 Art Work, Brush, Spray, or Pen		20 0	—	—	—	—	7	7	—	—	13	0	—	—	0	* 04.01 Advertising Services 17.07 Commercial Art Occupations 17.0901 Photographic Lab. and Darkroom Occupations
971 Photoengraving		61	—	14	0	13	0	—	—	—	34	0	—	—	0	17.1904 Photoengraving
972 Lithography and Related Work		87	—	—	—	—	—	—	20	0	47	0	20	0	0	17.1901 Composition, Make-Up, and Typesetting
973 Hand Composition, Typesetting, and Related Work		27	—	—	—	—	—	—	7	0	7	0	13	0	0	17.1903 Lithography, Photography, and Platemaking
976 Darkroom Work, Other		1,465	113	13	206	27	107	13	160	13	679	67	200	33	167	17.1901 Composition, Make-Up and Typesetting
977 Bookbinding and Related Work		361	—	—	—	—	7	0	13	0	201	20	140	40	53	17.0901 Photographic Lab. and Darkroom Occupations
979 Graphic Art Work, Other		301	7	20	7	0	—	—	13	0	200	20	74	20	66	*
		187	—	—	—	—	—	—	—	—	80	13	107	7	20	*
		99	—	—	—	—	—	—	—	—	46	26	53	0	40	17.0901 Photographic Lab. and Darkroom Occupations
		65	—	—	13	0	6	0	20	0	13	0	13	0	0	17.19 Graphic Arts Occupations
		33	—	—	20	0	—	—	—	—	13	0	—	—	0	17.1901 Composition, Make-Up, and Typesetting
		27	—	—	—	—	—	—	—	—	—	—	27	0	0	17.1905 Silk Screen Making and Printing
Subtotal		2,893	133	33	267	27	140	20	233	20	1,340	153	780	133	433	
Total—Miscellaneous Occupations		52,207	2,573	867	4,307	527	5,887	1,286	7,799	1,393	12,661	2,800	18,980	8,093	19,641	

*No Vocational Instructional Training Program Listed.

TABLE 11
OCCUPATIONS WITH NO D.O.T. NUMBER

OCCUPATIONAL DIVISION		Total State Projected Employment	Area I		Area II		Area III		Area IV		Area V		Area VI		Total State Projected 2 Year Need	INSTRUCTIONAL TRAINING PROGRAM H.E.W. Number Program
Job Titles	Occupational Group		Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need		
Teacher's Aide		1,094	167	27	207	0	180	53	80	0	353	120	107	60	173	*
Car Washer		594	66	0	87	13	7	0	47	7	60	27	327	153	213	*
Pulmonary Technician		26	—	—	13	0	—	—	—	—	—	—	13	0	0	*

OCCUPATIONAL DIVISION	Job Titles	Total State Projected Employment		Area I		Area II		Area III		Area IV		Area V		Area VI		INSTRUCTIONAL TRAINING PROGRAM	
		Projected	Next 12 Months	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Now	12 Month Need	Total State Projected 2 Year Need	H.E.W. Number
	Agriculture Stabilization and Conservation Service Employee	205	6	33	0	60	0	26	0	53	0	53	0	—	7	•	
	Boatle Sorter	7	7	—	—	—	—	—	—	—	—	—	—	—	0	•	
	City Dump Manager	7	—	—	—	—	—	—	—	—	—	—	—	—	0	•	
	Drug Rehabilitation Technician	20	—	—	—	—	—	—	—	—	—	—	—	—	0	•	
	Fetal Dialysis Technician	20	—	—	—	—	—	—	—	—	—	—	—	—	0	•	
	Total—Occupations with no D.O.T. Number	1,973	273	340	13	247	53	153	7	473	147	487	233	407			53

*No Vocational Instructional Training Program Listed.

TABLE 12
PROFESSIONAL, TECHNICAL, AND MANAGERIAL OCCUPATIONS

OCCUPATIONAL DIVISIONS	STATE	AREA I		AREA II		AREA III		AREA IV		AREA V		AREA VI		Reason for Need	Turn over
		Projected Need Next 12 Months	Reason for Need	Projected Need Next 12 Months	Reason for Need	Projected Need Next 12 Months	Reason for Need	Projected Need Next 12 Months	Reason for Need	Projected Need Next 12 Months	Reason for Need	Projected Need Next 12 Months	Reason for Need		
Occupations in Architecture and Engineering	1,267	67	60	27	0	13	87	7	80	7	373	200	173	520	180
Occupations in Mathematics and Physical Sciences	147	13	0	—	—	67	7	7	7	0	47	7	40	13	0
Occupations in Life Sciences	67	—	—	—	—	27	—	—	—	—	20	13	7	20	13
Occupations in Social Sciences	54	—	—	—	—	—	—	—	—	—	47	20	27	7	0
Occupations in Medicine and Health	4,647	80	54	420	134	87	253	80	173	467	467	107	360	193	3,034
Occupations in Education	1,897	187	13	353	20	220	333	6	327	307	307	67	240	87	400
Occupations in Museum, Library, and Archival Sciences	47	—	—	7	0	7	7	7	7	0	13	6	7	7	6
Occupations in Law and Jurisprudence	379	7	7	20	13	—	13	7	7	6	113	67	46	93	133
Occupations in Religion and Theology	66	13	6	7	7	7	20	20	0	0	13	13	0	7	6
Occupations in Writing	127	—	—	7	—	—	—	—	—	—	113	27	86	7	7
Occupations in Art	187	53	53	—	—	7	7	7	7	0	67	40	27	53	6
Occupations in Entertainment and Recreation	421	27	0	—	—	13	27	0	0	27	7	0	7	14	333
Occupations in Administrative Specializations	1,280	7	7	27	7	13	13	7	7	6	500	153	347	474	246

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OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI		
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Managers and Officials, Other Miscellaneous Professional, Technical, and Managerial Occupations	1,746	33	13	20	153	53	100	73	27	46	147	93	54	247	573	520	213	307	
Total Need—Professional, Technical, and Managerial Occupations	460	13	13	0	27	0	27	47	34	13	40	20	20	127	66	140	34	106	
	12,782	500	226	274	1,041	261	780	694	309	385	954	334	620	1,094	2,006	6,493	1,716	4,777	

TABLE 13
CLERICAL AND SALES OCCUPATIONS

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI		
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Stenography, Typing, Filing, and Related Occupations	7,600	127	60	67	93	33	60	127	73	54	207	73	134	313	827	5,906	480	5,426	
Computing and Account- Recording Occupations	4,833	73	27	46	153	53	100	200	73	127	280	113	167	267	1,340	2,520	340	2,180	
Material and Production Recording Occupations	820	33	20	13	47	14	33	60	0	60	60	13	47	33	60	527	47	480	
Information and Message Distribution Occupations	3,099	13	0	13	60	20	40	27	7	20	33	7	26	53	306	2,607	80	2,527	
Miscellaneous Clerical Occupations	814	27	0	27	27	0	27	0	0	0	7	7	0	0	113	640	53	587	
Sales Workers, Services Sales Workers and Salespersons, Commodities Merchandising Occupations	1,473	53	46	7	27	13	14	93	93	0	20	20	0	327	233	720	100	620	
Except Sales Workers	7,300	307	120	187	387	174	213	246	120	126	527	227	300	413	1,007	4,413	1,546	2,867	
Total Need—Clerical and Sales Occupations	2,499	53	27	26	373	73	300	100	20	80	373	60	313	47	420	1,133	80	1,053	
	28,438	686	300	386	1,167	380	787	853	386	467	1,507	520	987	1,453	4,306	18,466	2,726	15,740	



**TABLE 14
SERVICE OCCUPATIONS**

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI		
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Domestic Service Occupations	113	13	0	13	0	0	0	13	0	13	7	0	7	60	20	40	20	13	7
Food and Beverage Preparation and Service Occupations	13,079	873	180	693	126	767	1,227	140	1,087	1,333	207	1,126	4,480	727	3,753	4,273	313	3,960	
Lodging and Related Service Occupations	1,399	86	40	46	27	126	60	47	13	120	73	47	73	0	120	860	0	860	
Barbering, Cosmetology, and Related Service Occupations	460	100	73	27	13	14	40	40	0	67	20	47	13	100	53	73	26	47	
Amusement and Recreation Service Occupations	346	13	0	13	7	13	33	0	33	133	0	133	120	13	107	27	20	7	
Miscellaneous Personal Service Occupations	3,313	93	67	26	140	340	227	73	154	613	13	600	213	20	193	1,687	0	1,687	
Apparel and Furnishings Service Occupations	480	33	13	20	7	20	80	14	66	33	26	7	40	7	33	267	7	260	
Protective Service Occupations	1,661	0	0	0	33	54	67	33	34	7	0	7	73	13	60	1,427	0	1,427	
Building and Related Service Occupations	1,695	47	14	33	14	113	87	54	33	67	14	53	647	73	574	720	93	627	
Total Need—Service Occupations	22,546	1,258	387	871	1,614	1,447	1,894	401	1,493	2,380	327	2,053	5,906	973	4,933	9,354	472	8,882	

**TABLE 15
FARMING, FISHERY, FORESTRY, AND RELATED OCCUPATIONS**

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI		
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Plant Farming Occupations	4,425	1,893	993	900	133	100	273	233	40	260	60	200	740	420	320	1,126	213	913	
Animal Farming Occupations	1,426	453	166	287	100	160	420	287	133	193	73	120	93	13	80	7	7	0	
Miscellaneous Farming and Related Occupations	2,354	587	347	240	87	113	300	173	127	600	240	360	540	127	413	127	20	107	
Fishery and Related Occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Agricultural Service Occupations	253	7	7	0	53	46	133	0	133	33	0	33	27	0	27	0	0	0	
Self-Employed Farmers	951	83	—	—	110	—	215	—	—	273	—	—	225	—	—	45	—	—	
Total Need—Farming, Fishery, Forestry, and Related Occupations	9,409	3,023	1,513	1,427	756	227	1,341	693	433	1,359	373	713	1,625	560	840	1,305	240	1,020	

**TABLE 16
PROCESSING OCCUPATIONS**

OCCUPATIONAL DIVISIONS	AREA I		AREA II		AREA III		AREA IV		AREA V		AREA VI	
	Projected Total State Need	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Occupations in Processing of Metal	33	13	0	-	-	-	-	-	0	20	-	-
Ore Refining and Foundry Occupations	180	-	-	-	100	0	100	0	0	80	-	-
Occupations in Processing of Food, Tobacco, and Related Products	2,966	407	306	213	40	173	387	33	27	286	7	606
Occupations in Processing of Paper and Related Materials	7	-	-	-	-	-	7	0	-	-	-	-
Occupations in Processing of Petroleum, Coal, Natural and Manufactured Gas, and Related Products	53	-	-	-	-	-	-	-	-	-	53	0
Occupations in Processing of Chemicals, Plastics, Synthetics, Rubber, Paint, and Related Products	166	-	-	-	-	13	33	7	7	66	47	0
Occupations in Processing of Wood and Wood Products	7	-	-	-	-	7	-	-	-	-	-	-
Occupations in Processing of Stone, Clay, Glass, and Related Products	840	-	-	-	-	-	73	20	340	407	20	20
Occupations in Processing of Leather, Textiles, and Related Products	20	-	-	-	-	-	13	0	-	-	7	0
Processing Occupations, Other	67	-	-	-	-	67	-	-	-	-	-	-
Total Need—Processing Occupations	4,339	420	319	213	40	173	613	60	374	859	740	54

**TABLE 17
MACHINE TRADES OCCUPATIONS**

OCCUPATIONAL DIVISIONS	AREA I		AREA II		AREA III		AREA IV		AREA V		AREA VI	
	Projected Total State Need	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Metal Machining Occupations	2,007	7	7	93	33	60	67	0	67	827	160	667
Metalworking Occupations, Other	473	-	-	-	-	-	27	0	0	173	273	113

**TABLE 18
BENCH WORK OCCUPATIONS**

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI			
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over	Expan- sion
Mechanics and Machinery	2,514	167	147	20	240	127	113	67	187	120	67	420	233	187	727	373	354	773	200	573
Repairs	360	—	—	—	—	—	—	—	—	—	—	27	13	—	180	7	173	153	0	153
Paperworking Occupations	727	13	13	0	7	0	7	—	—	—	—	40	27	—	200	50	120	467	7	460
Printing Occupations	179	40	20	20	13	13	0	13	13	13	0	—	—	—	40	40	0	73	46	27
Wood Machining Occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Occupations in Machining	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stone, Clay, Glass, and Related Materials	320	—	—	—	—	—	—	—	—	—	—	193	7	—	127	107	20	—	—	—
Textile Occupations	60	—	—	—	—	—	—	—	—	—	—	—	—	—	53	20	33	7	0	7
Machine Trades Occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Other	6,640	227	187	40	353	173	180	73	233	160	73	774	280	494	2,327	787	1,540	2,726	533	2,193
Total Need—Machine Trades Occupations	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI			
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over	Expan- sion
Occupations in Fabrication, Assembly, and Repair of Metal Products, Other Occupations in Fabrication and Repair of Scientific and Medical Apparatus, Photographic and Optical Goods, Watches and Clocks, and Related Products	474	—	—	—	—	—	—	—	—	—	—	—	—	—	107	33	74	367	187	180
Occupations in Assembly and Repair of Electrical Equipment	120	—	—	—	7	0	7	—	—	—	—	13	13	0	13	13	0	87	20	67
Occupations in Fabrication and Repair of Products Made from Assorted Materials	273	47	7	40	53	33	20	7	7	0	7	20	20	0	33	27	6	113	27	86
Painting, Decorating, and Related Occupations	299	—	—	—	33	33	0	53	53	53	0	27	14	13	13	13	0	173	6	167
Other	67	27	27	0	7	0	7	13	13	13	0	13	0	13	—	—	—	7	7	0

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I		AREA II		AREA III		AREA IV		AREA V		AREA VI	
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Occupations in Fabrication and Repair of Plastics, Synthetics, Rubber, and Related Products	47	-	-	-	-	-	-	-	-	-	-	47	47
Occupations in Fabrication and Repair of Wood Products	160	-	7	-	13	-	7	-	-	-	-	140	60
Occupations in Fabrication and Repair of Sand, Stone, Clay and Glass Products	60	13	6	7	-	27	0	27	-	-	-	20	7
Occupations in Fabrication and Repair of Textile, Leather, and Related Products	853	-	-	-	-	-	-	-	73	20	53	553	100
Bench Work Occupations, Other	267	-	-	-	-	-	-	-	94	60	34	173	0
Total Need—Bench Work Occupations	2,620	87	40	47	120	100	66	34	240	127	113	1,660	461

**TABLE 19
STRUCTURAL WORK OCCUPATIONS**

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I		AREA II		AREA III		AREA IV		AREA V		AREA VI	
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Occupations in Metal Fabricating, Other	2,126	240	40	120	67	53	20	20	246	153	93	1,220	180
Welders, Flame Cutters, and Related Occupations	931	160	153	26	6	20	113	0	173	133	40	73	7
Electrical Assembling, Installing, and Repairing Occupations	1,531	66	53	86	53	33	39	13	120	34	86	120	113
Painting, Plastering, Waterproofing, Cementing, and Related Occupation	1,133	73	27	80	13	67	33	7	67	67	0	300	153
Excavating, Grading, Paving, and Related Occupations	1,991	7	0	126	66	60	113	66	986	159	827	393	340
Construction Occupations, Other	6,626	300	100	460	253	207	107	100	593	213	380	2,140	1,373
Structural Work Occupations, Other	427	7	7	47	0	47	100	53	-	-	-	107	27
Total Need—Structural Work Occupations	14,765	853	540	945	458	487	625	398	2,185	759	1,426	4,353	2,193

**TABLE 20
MISCELLANEOUS OCCUPATIONS**

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI		
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
Motor Freight Occupations, Transportation Occupations, Other	4,080	427	173	254	200	66	134	247	133	114	473	173	300	813	413	400	1,920	147	1,773
Packaging and Materials Handling Occupations	7,067	187	33	154	127	60	67	413	100	313	513	73	440	600	113	487	5,227	53	5,174
Occupations in Extraction of Minerals	3,073	120	47	73	120	87	33	553	233	320	280	93	187	1,207	580	627	793	140	653
Occupations in Logging, Occupations in Production and Distribution of Utilities and Amusement, Recreation, and Motion Picture Occupations, Other	186	100	0	100	—	—	—	13	13	0	60	60	0	—	—	—	13	0	13
Occupations in Graphic Art Work	167	—	—	—	53	47	6	40	13	27	47	13	34	20	20	0	7	7	0
Total Need—Miscellaneous Occupations	14,966	867	260	607	527	260	267	1,286	499	787	1,383	425	968	2,800	1,166	1,634	8,093	360	7,733

**TABLE 21
OCCUPATIONS WITH NO D.O.T. NUMBER**

OCCUPATIONAL DIVISIONS	STATE Projected Total State Need	AREA I			AREA II			AREA III			AREA IV			AREA V			AREA VI		
		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need		Projected Need Next 12 Months	Reason for Need	
			Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over		Expan- sion	Turn over
No. D.O.T. Number	493	40	7	33	13	0	13	53	33	20	7	7	0	147	87	60	233	20	213
Total Need—Occupations with No D.O.T. Number	493	40	7	33	13	0	13	53	33	20	7	7	0	147	87	60	233	20	213

PROJECTIONS BY VOCATIONAL INSTRUCTIONAL TRAINING PROGRAMS

Tables 22 through 29 show data by the seven major areas of Vocational Education and lists data only for those vocational instructional training programs for which job titles have been identified in Section One of this study.

Grouping of Vocational Instructional Training Programs enables the vocational program planner to identify instructional components common to the seven major areas of Vocational Education.

Several Vocational Instructional Training Programs may overlap in preparing persons for employment in an Occupational Group, thus, making it necessary for the planner to become familiar with the detailed descriptions of both occupational titles and vocational instructional training programs.

The data for each vocational instructional training

program are a composite of 1973, 1974, and 1975 job titles with corresponding vocational instructional training programs as identified in *Vocational Education and Occupations*. Only the totals for projected employment, projected need next 12 months, and projected need following 2 years have been presented in this section. Reason for need related to expansion and turnover can be identified for vocational programs, by locating the major division that includes the desired program in section one (Tables 2 through 11) and checking the reason for need in section two (Tables 12 through 21) of this study.

Table 30 lists all other occupations for which there are no Vocational Instructional Training Programs and Other Occupations for which there are no D.O.T. Numbers nor Vocational Instructional Training Programs.

TABLE 22 SUMMARY BY MAJOR VOCATIONAL TECHNICAL AREA

	Now Employed		Projected Future Needs			
			Projected Next 12 Months		Projected Following 2 Years	
	Number	Percent of Total	Number	Percent of Total	Number	Percent of Total
Agricultural Occupations	99,497 ^a	19.1	12,282 ^b	13.5	10,862 ^b	10.3
Distributive Occupations	124,206	23.8	21,107	23.2	27,413	26.1
Health Occupations	35,343	6.8	7,171	7.9	9,580	9.1
Home Economics Occupations	6,867	1.3	1,625	1.8	2,233	2.1
Office Occupations	104,684	20.1	16,373	18.0	14,913	14.2
Technology Occupations	2,460	.5	455	.5	587	.6
Trade and Industrial Occupations	147,998	28.4	31,859	35.1	39,453	37.6
Totals	521,055		90,872		105,041	

^aIncludes self-employed farmers, Nebraska Department of Agriculture; *Nebraska Agricultural Statistics*, loc. cit.

^bDouglas Genereaux, loc. cit.

TABLE 23 PROJECTIONS FOR AGRICULTURAL OCCUPATIONS

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
01.0100 Agricultural Production	18,206	2,054	1,747
01.0101 Animal Science	7,699	1,412	1,313
01.0102 Plant Science	2,152	2,714	573
01.0104 Farm Business Management	1,053	52	6
01.0200 Agricultural Supplies/Services	233	19	7
01.0201 Agricultural Chemicals	108	34	60
01.0202 Feeds	3,773	492	486
01.0203 Seeds	—	—	—
01.0299 Agricultural Supplies/Services, Other	621	87	47
01.0301 Agricultural Power & Machinery	3,535	947	893
01.0304 Water Management	147	147	27

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
01.0400 Agricultural Products (Processing, Inspection and Marketing).....	7	0	0
01.0401 Food Products	6,655	1,940	2,460
01.0402 Nonfood Products	—	—	—
01.0501 Arboriculture	40	33	40
01.0502 Floriculture	173	54	67
01.0504 Landscaping	1,141	360	307
01.0505 Nursery Operation and Management	899	685	567
01.0506 Turf Management	168	187	200
01.0600 Agricultural Resources (Conservation, Utilization & Services)	—	—	—
01.0601 Forests	—	—	—
01.0602 Recreation	107	13	0
01.0603 Soil	307	20	27
01.0604 Wildlife (Including Game Farms and Hunting Areas)	—	—	—
01.0605 Water	—	—	—
01.0607 Fish (Including Farms & Hatcheries)	13	0	0
01.0703 Logging (Harvesting & Transporting)	—	—	—
01.0706 Special Products	—	—	—
01.9900 Agriculture, Other	340	81	133
Self-Employed	52,120 ^a	951 ^b	1,902 ^b
TOTAL	99,497	12,282	10,862

^aNebraska Department of Agriculture, *Nebraska Agricultural Statistics*, loc. cit.

^bDouglas, Genereaux, loc. cit.

TABLE 24
PROJECTIONS FOR DISTRIBUTIVE OCCUPATIONS

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
04.0100 Advertising Services	1,872	155	146
04.0200 Apparel and Accessories	6,672	1,108	1,787
04.0300 Automotive	7,318	823	867
04.0400 Finance and Credit	5,029	451	660
04.0500 Floristry	1,021	148	107
04.0600 Food Distribution	11,816	1,766	2,147
04.0700 Food Services	3,340	348	687
04.0800 General Merchandise	26,039	2,759	4,080
04.0900 Hardware, Building Materials, Farm & Garden Supplies and Equipment	7,034	815	980
04.1000 Home Furnishings	2,849	427	527
04.1100 Hotel and Lodging	1,450	61	107
04.1200 Industrial Marketing	8,205	646	713
04.1300 Insurance	7,501	645	740
04.1400 International Trade	—	—	—
04.1500 Personal Services	1,180	93	120

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
04.1600 Petroleum	7,188	1,546	1,033
04.1700 Real Estate	5,708	848	1,253
04.1800 Recreation & Tourism	2,225	336	440
04.1900 Transportation	7,862	5,358	10,073
04.2000 Retail Trade, Other	8,072	2,674	780
04.3100 Wholesale Trade, Other	1,340	80	106
04.9900 Distributive Education, Other	485	20	60
TOTAL	124,206	21,107	27,413

**TABLE 25
PROJECTIONS FOR HEALTH OCCUPATIONS**

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
07.0101 Dental Assisting	1,360	173	133
07.0102 Dental Hygiene (Associate Degree)	193	59	33
07.0103 Dental Laboratory Technology	280	13	27
07.0201 Cytology (Cytotechnology)	40	0	0
07.0202 Histology	67	0	0
07.0203 Medical Laboratory Assisting	2,853	447	434
07.0204 Hematology	87	7	7
07.0301 Nursing (Associate Degree)	10,041	2,039	2,953
07.0302 Practical (Vocational) Nursing	4,351	907	1,253
07.0303 Nursing Assistance (Aid)	11,120	2,940	4,173
07.0304 Psychiatric Aid	1,540	153	0
07.0305 Surgical Technician (Operating Room Technician)	114	7	0
07.0306 Obstetrical Technician	—	—	—
07.0307 Home Health Aid	7	0	0
07.0401 Occupational Therapy	61	0	7
07.0402 Physical Therapy	134	33	33
07.0403 Prosthetics	20	0	0
07.0404 Orthotics	126	13	27
07.0501 Radiologic Technology (X-Ray)	987	147	193
07.0503 Nuclear Medical Technology	73	0	7
07.0601 Ophthalmic Dispensing	221	13	40
07.0602 Orthoptics	33	0	0
07.0702 Radiological Health Technician	—	—	—
07.0703 Sanitarian Assistant	—	—	—
07.0901 Electroencephalography Technician	54	7	7
07.0902 Electrocardiography Technician	100	19	13
07.0903 Inhalation Therapy	220	47	33
07.0904 Medical Assistant (Assistant In Physician's Office)	572	46	47
07.0905 Central Supply Technician	481	81	113
07.0907 Medical Emergency Technician	87	0	0
07.0909 Mortuary Science	121	20	47
TOTAL	35,343	7,171	9,580

TABLE 26
PROJECTIONS FOR HOME ECONOMICS OCCUPATIONS

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
09.0201 Care and Guidance of Children	341	72	126
09.0202 Clothing Management, Production and Service	27	0	0
09.0203 Food Management, Production and Services	955	53	80
09.0204 Home Furnishings, Equipment and Services	106	20	20
09.0205 Institutional and Home Management and and Supporting Services	5,438	1,480	2,007
TOTAL	6,867	1,625	2,233

TABLE 27
PROJECTIONS FOR OFFICE OCCUPATIONS

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
14.0101 Accountants	353	20	53
14.0102 Bookkeepers	13,580	792	1,000
14.0103 Cashiers	880	127	120
14.0104 Machine Operators: Billing, Bookkeeping, and Computing	581	20	66
14.0105 Tellers	2,507	339	373
14.0199 Accounting and Computing Occupations, Other	34	0	0
14.0200 Business Data Processing Systems Occupations	127	0	47
14.0201 Computers and Console Operators	1,941	207	193
14.0202 Peripheral Equipment Operators	1,827	280	473
14.0203 Programmers	467	34	20
14.0204 Systems Analysts	174	20	7
14.0301 Duplicating Machine Operators	106	40	7
14.0302 File Clerks	2,305	1,105	1,067
14.0303 General Office Clerks	16,637	2,609	4,247
14.0399 Filing, Office Machines, and General Office Clerical Occupations, Other	11,286	3,242	613
14.0401 Communication Systems Clerks and Operators	3,922	2,453	287
14.0402 Correspondence Clerks	73	7	13
14.0403 Mail and Postal Clerks	4,506	114	213
14.0404 Mail-Preparing and Mail-Handling Machine Operators	20	0	0
14.0405 Messengers and Office Boys and Girls	153	52	67
14.0406 Receptionists and Information Clerks	4,912	426	400
14.0499 Information Communications Occupations, Other	638	54	27
14.0501 Planning and Production Clerks	326	6	27
14.0502 Quality Control Clerks	47	0	0
14.0503 Shipping and Receiving Clerks	1,533	246	327
14.0504 Stock and Inventory Clerks	361	20	60
14.0505 Traffic, Rate and Transportation Clerks	114	0	0
14.0599 Materials Support Occupations (Transporting, Storing, Recording) Other	34	0	0
14.0601 Educational Assistants and Training Specialists	27	0	0

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
14.0602 Interviewers & Test Technicians	408	307	147
14.0603 Personnel Assistants	634	75	113
14.0699 Personnel, Training, and Related Occupations, Other	13	0	0
14.0701 Executive Secretary	526	13	13
14.0702 Secretaries	20,675	2,307	3,160
14.0703 Stenographers	873	119	333
14.0801 Administrative Assistants	825	72	40
14.0802 Budget Management Analysts	388	33	7
14.0804 Data-Methods and System-Procedures Analysts	—	—	—
14.0805 Office Managers and Chief Clerks	4,486	287	220
14.0899 Supervisory and Administrative Management Occupations, Other	373	53	60
14.0901 Clerk-Typists	1,278	179	180
14.0902 Typists	3,307	587	746
14.9900 Office Occupations, Other	1,427	128	187
TOTAL	104,684	16,373	14,913

**TABLE 28
PROJECTIONS FOR TECHNOLOGY OCCUPATIONS**

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
16.0101 Aeronautical Technology	—	—	—
16.0103 Architectural Technology (Building Construction)	—	—	—
16.0104 Automotive Technology	—	—	—
16.0105 Chemical Technology	333	60	60
16.0106 Civil Technology	27	0	0
16.0107 Electrical Technology	67	14	0
16.0108 Electronic Technology	273	35	27
16.0109 Electromechanical Technology	—	—	—
16.0111 Industrial Technology	60	13	27
16.0112 Instrumentation Technology	54	20	20
16.0113 Mechanical Technology	767	200	286
16.0114 Metallurgical Technology	—	—	—
16.0115 Nuclear Technology	—	—	—
16.0116 Petroleum Technology	607	100	133
16.0117 Scientific Data Processing	—	—	—
16.0199 Engineering-Related Technology, Other	—	—	—
16.0200 Agricultural-Related Technology	33	0	7
16.0203 Food Processing Technology	73	0	7
16.0499 Office-Related Technology, Other	13	0	0
16.0601 Commercial Pilot Training	120	7	13
16.0602 Fire and Fire Safety Technology	—	—	—
16.0699 Miscellaneous Technical Education, Other	33	6	7
TOTAL	2,460	455	587

TABLE 29
PROJECTIONS FOR TRADE AND INDUSTRIAL OCCUPATIONS

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
17.0100 Air Conditioning	54	14	13
17.0101 Cooling	354	65	60
17.0102 Heating	340	21	40
17.0103 Ventilating (Filtering and Humidification)	33	7	0
17.0200 Appliance Repair	293	33	33
17.0201 Electrical Appliances	473	140	193
17.0202 Gas Appliances	480	54	107
17.0300 Automotive Services	193	66	120
17.0301 Body and Fender	1,760	273	427
17.0302 Mechanics	7,639	1,160	1,573
17.0303 Specialization, Other	312	61	107
17.0401 Aircraft Maintenance	306	60	53
17.0402 Aircraft Operations	7	0	0
17.0403 Ground Operations	60	7	0
17.0600 Business Machine Maintenance	333	20	33
17.0700 Commercial Art Occupations	327	40	93
17.0701 Interior Decorating	293	34	27
17.0702 Window Display	—	—	—
17.0703 Product Design	80	46	207
17.0800 Commercial Fishery Occupations	—	—	—
17.0801 Seamanship	—	—	—
17.0802 Ship and Boat Operation and Maintenance	—	—	—
17.0899 Commercial Fishery Occupations, Other	—	—	—
17.0901 Photographic Laboratory and Darkroom Occupations	480	93	100
17.1000 Construction and Maintenance Trades	2,812	347	427
17.1001 Carpentry	10,445	2,517	2,820
17.1002 Electricity	2,399	319	247
17.1003 Heavy Equipment	7,881	1,617	1,567
17.1004 Masonry	1,399	299	353
17.1005 Painting and Decorating	840	273	267
17.1006 Plastering	220	13	27
17.1007 Plumbing and Pipefitting	2,728	767	940
17.1008 Dry-Wall Installation	746	180	240
17.1009 Glazing	347	54	0
17.1010 Roofing	910	267	440
17.1099 Construction and Maintenance Trades, Other	5,173	1,326	1,180
17.1100 Custodial Services	10,294	1,667	2,153
17.1200 Diesel Mechanic	425	79	107
17.1300 Drafting	2,738	434	1,040
17.1400 Electrical Occupations	3,413	421	0
17.1401 Industrial Electrician	126	0	13
17.1402 Lineman	2,095	638	147
17.1403 Motor Repairman	198	14	27
17.1500 Electronics Occupations	233	53	53
17.1501 Communications	314	7	20
17.1502 Industrial Electronics	53	0	0
17.1503 Radio/Television	535	92	73
17.1600 Fabric Maintenance Services	486	67	100
17.1601 Drycleaning	208	26	7

INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
17.1602 Laundering	1,674	300	373
17.1699 Fabric Maintenance Services, Other	7	0	0
17.1900 Graphic Arts Occupations	132	0	0
17.1901 Composition, Makeup, and Typesetting	1,771	199	187
17.1902 Printing Press Occupations	3,000	574	960
17.1903 Lithography, Photography and Platemaking	27	0	0
17.1904 Photoengraving	61	0	0
17.1905 Silk Screen Making and Printing	27	0	0
17.1906 Bookbinding	261	53	107
17.1999 Graphic Arts, Other	14	0	0
17.2001 Installation, Operation, and Maintenance of Reactors	—	—	—
17.2002 Radiography	13	0	0
17.2003 Industrial Uses of Radioisotopes	—	—	—
17.2099 Industrial Atomic Energy, Other	—	—	—
17.2100 Instrument Maintenance and Repair	—	—	—
17.2101 Instruments (Other Than Watches and Clocks)	446	74	13
17.2102 Watchmaking and Repair	86	13	0
17.2200 Maritime Occupations	20	0	0
17.2300 Metalworking	—	—	—
17.2301 Foundry	1,334	180	80
17.2302 Machine Shop	5,459	1,674	2,160
17.2303 Machine Tool Operation	627	40	33
17.2304 Metal Trades, Combined	4,287	1,267	2,113
17.2305 Sheet Metal	3,240	314	260
17.2306 Welding and Cutting	4,266	931	1,133
17.2307 Tool and Die Making	1,587	319	547
17.2308 Die Sinking	—	—	—
17.2309 Metal Patternmaking	—	—	—
17.2399 Metalworking, Other	1,719	53	53
17.2400 Metallurgy	20	0	0
17.2601 Barbering	613	73	40
17.2602 Cosmetology	2,846	354	367
17.2699 Personal Services, Other	27	13	20
17.2700 Plastics Occupations	140	14	13
17.2801 Fireman Training	—	—	—
17.2802 Law Enforcement Training	880	140	160
17.2899 Public Service Occupation, Other	27	0	0
17.2900 Quantity Food Occupations	—	—	—
17.2901 Baker	1,421	361	873
17.2902 Cook/Chef	14,205	2,458	3,687
17.2903 Meat Cutter	1,239	220	373
17.2904 Waiter/Waitress	18,742	7,013	8,713
17.2999 Quantity Food Occupations, Other	220	220	220
17.3000 Refrigeration	94	7	0
17.3100 Small Engine Repair, Internal Combustion	234	73	80
17.3200 Stationary Energy Sources Occupations	286	6	7
17.3201 Electric Power Generating Plants	127	0	0
17.3202 Pumping Plants	247	67	47
17.3300 Textile Production and Fabrication	—	—	—
17.3301 Dressmaking	53	7	0
17.3302 Tailoring	248	19	40

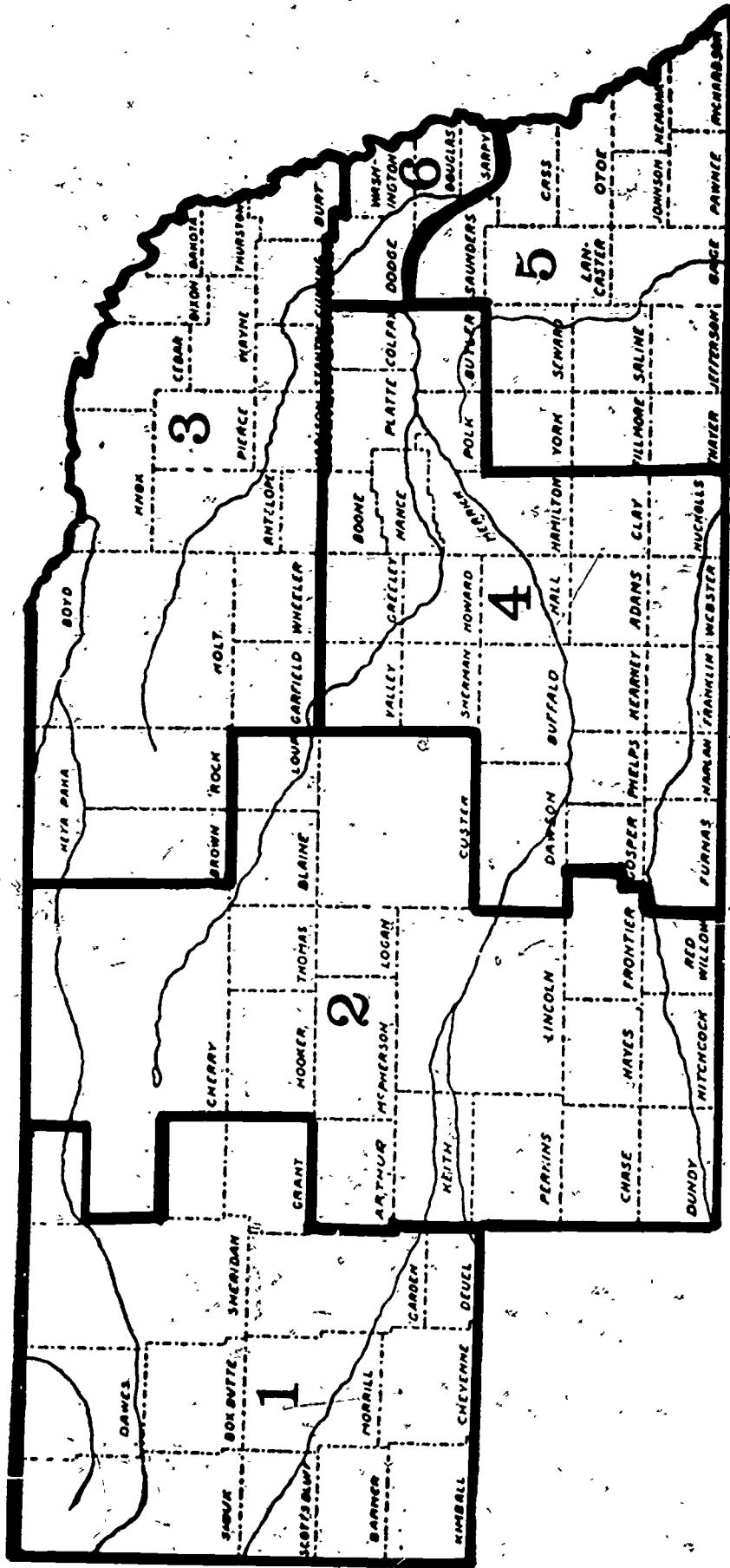
INSTRUCTIONAL TRAINING AREA	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
17.3399 Textile Production and Fabrication, Other	2,927	487	413
17.3400 Leatherworking	287	133	0
17.3401 Shoe Manufacturing	—	—	—
17.3402 Shoe Repair	73	7	27
17.3500 Upholstering	627	120	453
17.3601 Millwork and Cabinet Making	1,409	379	467
17.3699 Woodworking, Other	73	26	0
TOTAL	147,998	31,859	39,453

**TABLE 30
PROJECTIONS FOR ALL OTHER OCCUPATIONS**

	Projected Employment	Projected Future Needs	
		Next 12 Months	Following 2 Years
* Total of all Other Occupations for which there were no Vocational Instructional Training Programs	139,866	25,633	37,765
**Total of all Other Occupations for which there were no D.O.T. Numbers nor Vocational Instructional Training Programs	1,973	493	407
Total	141,839	26,126	38,172

= Occupational Divisions identified by * in Section 1 of this Report.
 **Individual job titles identified in Table 11 of Section 1 of this Report.

APPENDIX A TECHNICAL COMMUNITY COLLEGE AREAS



1. WESTERN NEBRASKA TECHNICAL COMMUNITY COLLEGE AREA
2. MID-PLAINS NEBRASKA TECHNICAL COMMUNITY COLLEGE AREA
3. NORTHEAST NEBRASKA TECHNICAL COMMUNITY COLLEGE AREA
4. CENTRAL NEBRASKA TECHNICAL COMMUNITY COLLEGE AREA
5. SOUTHEASTERN NEBRASKA TECHNICAL COMMUNITY COLLEGE AREA
6. METROPOLITAN NEBRASKA TECHNICAL COMMUNITY COLLEGE AREA

