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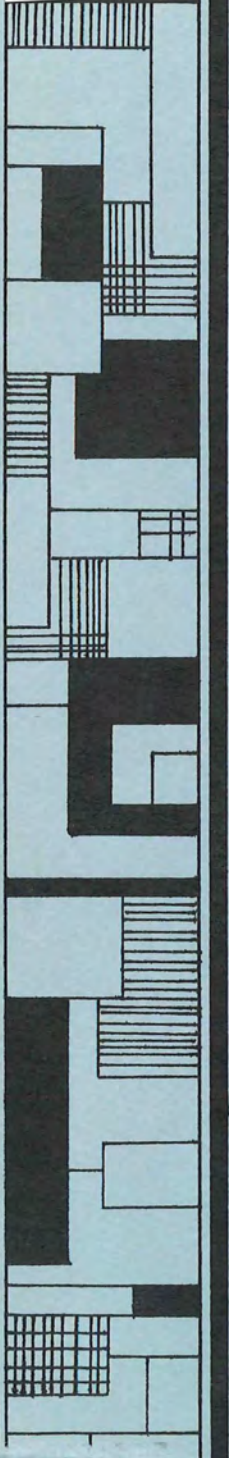


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A Report On . . .

Permanent
Mass
Layoffs and
Plant
Closings
in Minnesota



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MINNESOTA DEPARTMENT OF
Jobs and Training

Research and Statistics Office
July 1988

P M L P C

Report on
Permanent Mass Layoffs and
Plant Closings
in Minnesota

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MINNESOTA
PERMANENT MASS LAYOFF AND PLANT CLOSING Project

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MINNESOTA
PERMANENT MASS LAYOFF AND PLANT CLOSING Project

INTRODUCTION

This presentation is the first major compilation of information obtained through the Permanent Mass Layoff and Plant Closing (PMLPC) project in Minnesota. Included are all major permanent layoffs which occurred in Minnesota from July of 1986 through December of 1987.

Minnesota's PMLPC project emerged from the Job Training Partnership Act of 1982 (JTPA). Since the late 1970s, the United States has experienced job losses in a number of industries resulting primarily from technological change, world competition, and worldwide supply/demand imbalances. These factors have led not only to large scale layoffs in basic industries such as petroleum, primary metals production, textiles, and other manufacturing, but also to declines and bankruptcies in related industries. As a result, large numbers of experienced workers have lost not only their jobs, but also the prospects of reemployment in the industries where they have worked for most of their lives. Section 462(e) of the Act directed the Secretary of Labor to develop and maintain statistical data related to plant closings and other permanent layoffs. Under this authority, agreements with the Bureau of Labor Statistics (BLS) were signed by most of the states to implement a system to provide this information.

Minnesota's PMLPC program, administered by the Minnesota Department of Jobs and Training, is an automated approach to identifying and describing the impact of major permanent job cutbacks. Data from the Unemployment Insurance Program initial claims and benefit history files are the primary sources, along with information gathered through direct telephone contact with the employers involved.

In the PMLPC project, the computer system identifies major layoffs and plant closings in Minnesota, producing a weekly printout of all employers against whom 50 or more initial claims have been filed during the most recent three week period. Since almost 95 percent of Minnesota's employers have fewer than 50 employees,^{1/} this study is limited to the 6,400 larger Minnesota firms.^{1/} The employers on this weekly list are contacted to ascertain the reason for the layoff, its anticipated duration, and the number of workers involved.

^{1/} See Appendix B for further information on Minnesota Employment by size of firm.

Based on this information, the layoff is initially classified as either temporary or permanent. If through subsequent contacts it is determined that the layoff was temporary, with the employees returning to work for that employer, that firm and the related claims are deleted from the "active file."

If the workers are found to have been laid off permanently, the system continues to track their claims activity until they are no longer unemployed or discontinue claiming benefits for some other reason. The data compiled during each calendar quarter is transmitted to the BLS, while the computer files created in this process can provide valuable tools for State UI administration and for economic analysis.

Information gathered through the PMLPC system, combined with data from other sources, is used for identifying claimants eligible for special government programs such as Additional Unemployment Benefits (AB), Job training, and related assistance. Other target groups requiring special assistance can also be identified more easily through the PMLPC program. The demographic information contained in the files facilitates the identification and analysis of the available experienced labor pool. As the program progresses, it is anticipated that greater resources can be directed to more effective labor market analysis and application of the information, rather than the current concentration on development, debugging, and verifying the accuracy of the data produced by the system. In the future, studies could be conducted to determine the effect of mass layoffs on claimants' earnings.^{2/} This would be accomplished by comparing claimants' wages prior to the layoff with their earnings after securing other employment.

Only the 5,460 Minnesota residents involved in permanent mass layoffs are included in this report. The 217 claimants who filed their claims against Minnesota, but live in other states, are excluded. The "Summary of Findings" section of this report presents some very general statistics, and briefly addresses some of the relationships. Following this discussion is a series of tables providing more detailed information on the characteristics of the workers involved in the PMLPC study. This report touches only minimally upon the industries from which the claimants in the PMLPC program have been laid off. The preservation of data privacy precludes extensive industrial analysis with such a limited number of firms involved in this study. However, transferability of skills is dependent primarily upon the worker's occupation, rather than

^{2/} Recent Minnesota legislation changed the state from a "Wage Request" state, with wage information requested from employers when the worker is laid off and files a claim, to a "Wage Detail" state. Under this wage detail system employers provide quarterly wage information to the Department on all their workers.

on the industry in which he was employed.

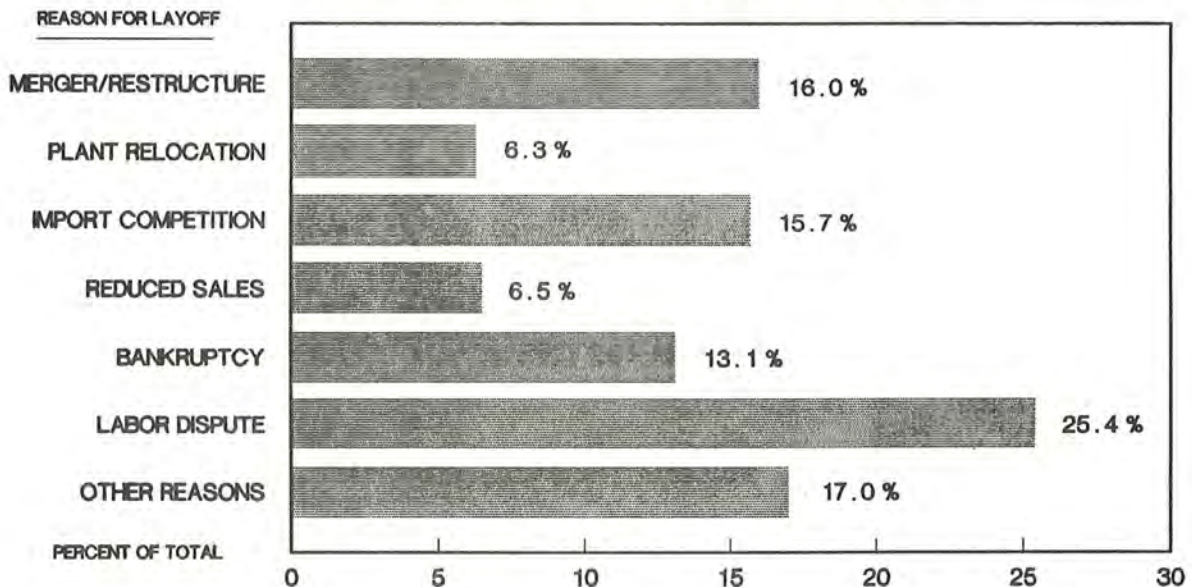
In any study of a sizable data set, the purpose of the inquiry will determine the analytic approach and which variables will be considered most important. For example, an economist investigating shifts in the distribution of industrial employment in the state might be concerned with tracking PMLPC data by industry. Another analyst, seeking a suitable site to locate a firm, would be more interested in the occupations and skills of the available labor force in a specific geographic area. In either case, the researcher must also consider relevant data from other sources along with the PMLPC information. Such an integrated in-depth study is beyond the scope of this report. This report is intended to present more of a general picture of mass layoff activity in Minnesota.

**MINNESOTA
PERMANENT MASS LAYOFF AND PLANT CLOSING Project**

SUMMARY OF FINDINGS

During the summer of 1986, the PMLPC Project became sufficiently developed to produce reliable data. From July of 1986 through December of 1987 a total of 5,677 workers from 31 employers were identified as casualties of mass layoffs with no expectation of recall. Included among those with more than 50 permanent layoffs are firms from mining, manufacturing, transportation, wholesale and retail trade, and the services industries. The 5,460 Minnesota claimants in the PMLPC project range in age from under 20 to over 60 years, and in education from those with less than high school to those with college degrees and postgraduate studies. All occupational categories are represented.

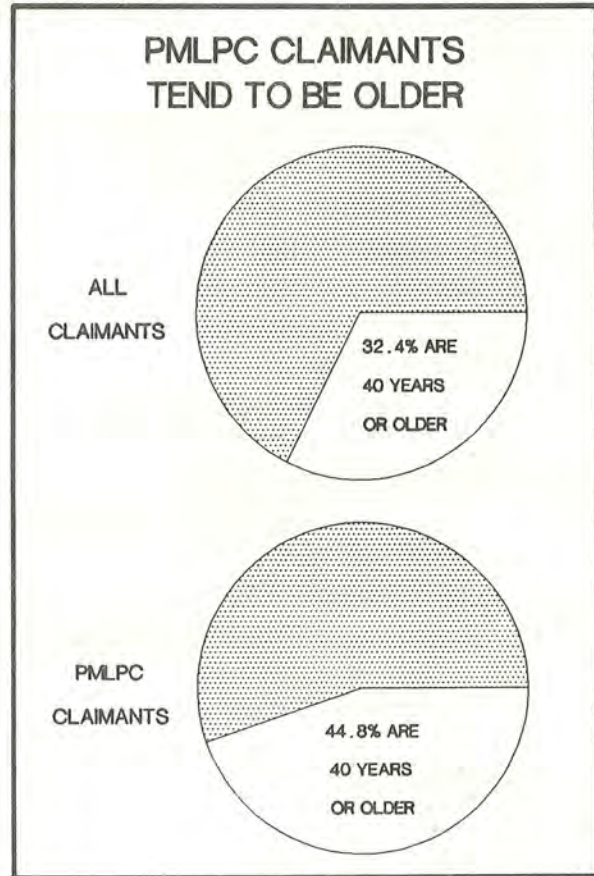
**OVER ONE-FOURTH OF MINNESOTA'S PMLPC CLAIMANTS
WERE INVOLVED IN LABOR DISPUTES**



There are a variety of reasons for mass layoffs occurring during relatively stable economic conditions. Almost 900 of the PMLPC claimants were caught in organizational restructuring, mainly resulting from mergers. Plant relocation caused the layoffs of another 345 manufacturing workers, 70 of them because the company moved the operation overseas. Import competition was reported as the cause of 857 of the layoffs, with slow sales accounting for another 356. Bankruptcies, from almost all major industry groups, resulted in 716

layoffs, while nearly 1400 workers were involved in labor disputes which resulted in permanent separations. The remaining 900 PMLPC claimants were laid off when plants closed for a variety of reasons, such as selling the land, not wishing to expend the capital to modernize, or for other reasons.

In comparing the PMLPC Claimants to Minnesota's total claimant population^{3/}, many similarities can be found, but also some notable differences. Claimants involved in mass layoffs were slightly better educated than the total claimant population. While only 10.9 percent of PMLPC claimants lacked high school diplomas, 13.5 percent of the total claimant population had less than 12 years of education. The 35.6 percent of the PMLPC claimants with more than 12 years of education was not significantly different from the total claimant population's 35.3 percent. Only 28.4 percent of the PMLPC claimants were women, compared to 30.8 percent of all claimants. Because small layoffs tend to affect those with less seniority on the job, while mass layoffs are more likely to affect all seniority levels, PMLPC claimants tended to be older, with 44.8 percent over 39 years of age, compared to only 32.4 percent of the total claimant population.

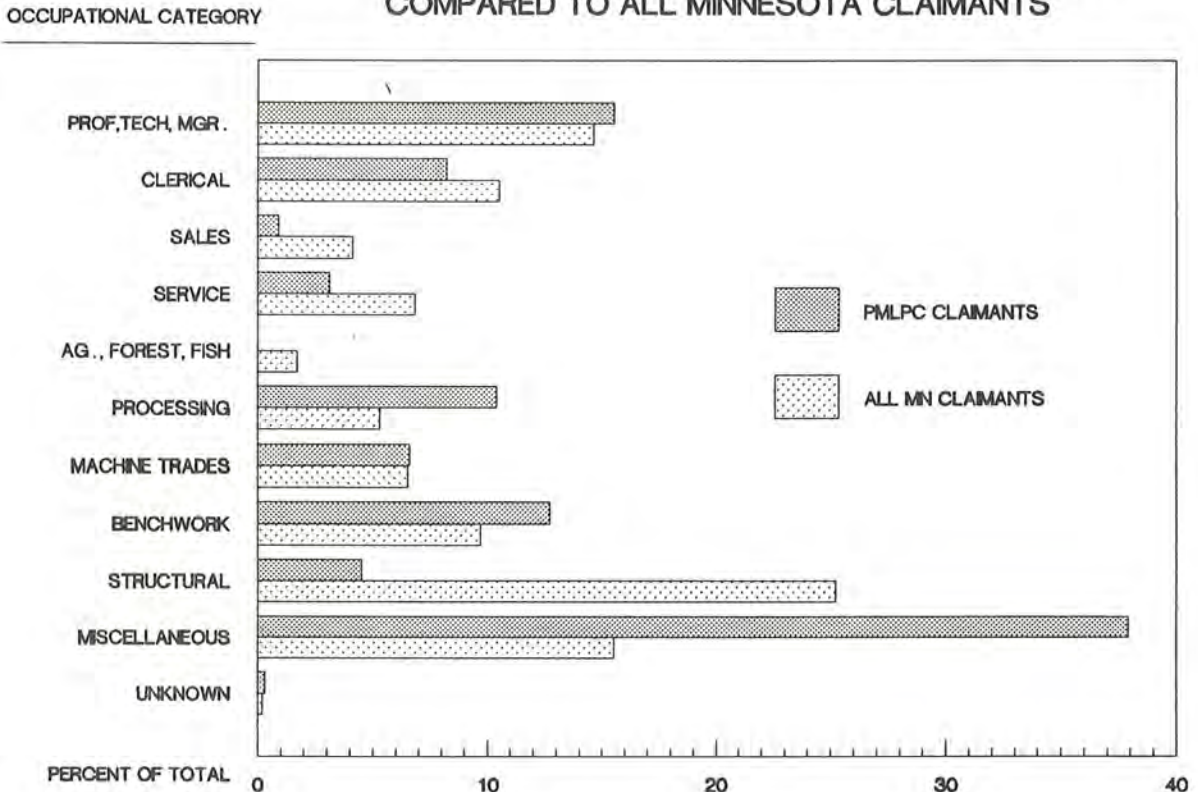


There were significant differences in the occupations of claimants involved in mass layoffs as compared to the general claimant population. Since a mass layoff of 50 or more workers can only affect a relatively large firm, some occupations most frequently found in small establishments tend to be absent from PMLPC data. Other occupations tend to be found in only large firms. Construction workers tend to work for small firms, often obtaining their employment through union hiring procedures. As displayed below, the percentage of workers in

^{3/} The total claimant population referred to represents all persons with an active claim at any time during the twelve month period ending June 30, 1987.

structural occupations is much lower among the PMLPC claimants than in the total Minnesota claimant population. No establishments from the construction industry, where many of the workers in structural work occupations are employed, met the criteria to be classified as experiencing a permanent mass layoff. On the other hand, mining workers, who fall into the "miscellaneous" occupational category, comprise a significant portion of the PMLPC claimants.

OCCUPATIONAL DISTRIBUTION OF PMLPC CLAIMANTS COMPARED TO ALL MINNESOTA CLAIMANTS



Over two-thirds of the original 5,460 Minnesota workers laid off returned to work, or for other reasons discontinued claiming Unemployment Benefits, before their benefits had been exhausted. These 3,711 workers tended to be the better educated and younger claimants. Those with no post-secondary education or over 40 years of age were slightly under-represented in this group. The 1,406 claimants in the PMLPC program who exhausted their Unemployment Benefits tended to be older and less educated. A total of 343 claimants who were involved in more recent mass layoffs still had active claims as of December 31, 1987, the end of the period covered in this report.

Over 40 percent of the Minnesota claimants involved in this study reside in the Twin Cities Area (Economic Region 11). The Arrowhead Region (Region 3) contains 39.5 percent of the claimants, most of them in Saint Louis County. As can be seen in Table 2A beginning on page 28, almost two-thirds of the military veterans in the PMLPC study live in the Arrowhead Region. Almost 10 percent of the PMLPC claimants live in Region 9 in South Central Minnesota, primarily in Martin County.

Almost 90 percent of those still claiming benefits reside in the Twin Cities Area. However, this is a function of the timing of the layoffs, rather than an indication of economic conditions.

SUMMARY OF PMLPC CLAIMANTS BY ECONOMIC REGION AND CLAIM STATUS						
ECONOMIC REGION	TOTAL PMLPC CLAIMANTS	DISTRI- BUTION	NUMBER THAT EXHAUSTED BENEFITS	NUMBER THAT STOPPED CLAIMING	NUMBER STILL ACTIVE 12/31/87	
Region 1	2	0.0%	1	1	0	
Region 2	1	0.0%	0	1	0	
Region 3	2,157	39.5%	617	1,536	4	
Region 4	4	0.1%	1	2	1	
Region 5	5	0.1%	3	0	2	
Region 6E	8	0.1%	2	5	1	
Region 6W	33	0.6%	5	28	0	
Region 7E	47	0.9%	8	32	7	
Region 7W	52	1.0%	19	31	2	
Region 8	149	2.7%	68	79	2	
Region 9	537	9.8%	105	419	13	
Region 10	206	3.8%	55	148	3	
Region 11	2,259	41.4%	522	1,429	308	
	-----	-----	-----	-----	-----	
STATE TOTAL	5,460	100.0%	1,406	3,711	343	

In examining the characteristics of PMLPC claimants, several significant differences among the economic regions become apparent. While 96 percent of the PMLPC claimants in Region 3 are male, only 57 percent in Region 11 are male. On the chart on the next page, we can see that the variances in other regions are even more extreme, although the numbers of claimants involved are smaller. The educational levels also differ. Approximately 90 percent of the claimants in both Regions 3 and 11 are high school graduates. However, while over 45 percent of the claimants in Region 11 have some post-secondary education, only 29 percent of the Region 3 claimants have more than 12 years. Iron Range residents generally went to work in the mining industry after High School graduation, and remained in that employment until permanently laid off. The Twin Cities Area, with 41 percent of the PMLPC claimants, has more than two-thirds of the college graduates.

**SUMMARY OF PMLPC CLAIMANTS
BY ECONOMIC REGION AND CHARACTERISTICS**

ECONOMIC REGION	Total PMLPC Claimants	Female	***** AGE BREAKOUT *****					***** EDUCATION *****			
			Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
Region 1	2	0	0	0	0	2	0	0	1	1	0
Region 2	1	0	0	0	0	0	1	0	1	0	0
Region 3	2,157	75	110	869	541	583	54	214	1,318	474	151
Region 4	4	1	0	2	1	0	1	0	3	1	0
Region 5	5	3	0	2	3	0	0	1	3	1	0
Region 6E	8	4	1	3	1	2	1	2	4	2	0
Region 6W	33	13	20	8	2	2	1	6	18	8	1
Region 7E	47	18	6	18	13	9	1	7	31	9	0
Region 7W	52	23	9	26	13	4	0	2	30	18	2
Region 8	149	98	51	46	22	23	7	22	90	33	4
Region 9	537	281	181	176	89	64	27	69	317	124	27
Region 10	206	53	47	77	41	29	12	35	109	44	18
Region 11	2,259	979	654	710	514	304	77	236	999	585	439
TOTAL STATE	5,460	1,548	1,079	1,937	1,240	1,022	182	594	2,924	1,300	642

A review of the occupational codes of the workers reveals that they tend to be clustered within the major occupational categories. ^{4/} Almost 300 of the 846 claimants in the Professional, Technical, and Managerial category are in engineering occupations, half of them in electrical engineering (D.O.T. code 003). Over 90 percent of the 567 claimants in the Processing Occupations category are involved in food processing (codes 520-529). As referred to earlier, 1,457 of the 2,068 workers coded in the Miscellaneous Occupations category are mining workers (code 939), while over 100 of the remaining 611 in the Miscellaneous category are drivers of trucks or other commercial vehicles (codes 904-913).

Study of the characteristics of all PMLPC claimants, whether by place of residence or by occupation, provides a general picture of changes in the available labor supply, namely, the workers displaced by permanent mass layoffs. However, comparing those who have exhausted their benefits with the claimants who have discontinued claiming, presumably because they have returned to work, can furnish information about what types of people are more likely to be in need of special services. For example, over 35 percent of the

^{4/} Unemployment Insurance claimants are assigned occupational codes according to the Dictionary of Occupational Titles. See Appendix A for a summary of the job titles associated with the numeric codes.

claimants in the benchwork occupational category exhausted their benefits, almost 10 percent above the average for all occupations. In addition, only 61.2 percent discontinued claiming prior to exhaustion, almost 7 percent below the average. This high exhaustion rate and a low percentage of those who stopped claiming UI benefits indicates that workers in the benchwork occupational category appear to have had the most difficulty finding new employment, regardless of age, education, or gender. For the most part, examination of the data produced from the PMLPC program confirms expectations, but there are anomalies explainable only by further study of the circumstances of the layoff, its location within the state, and the characteristics of the workers involved.

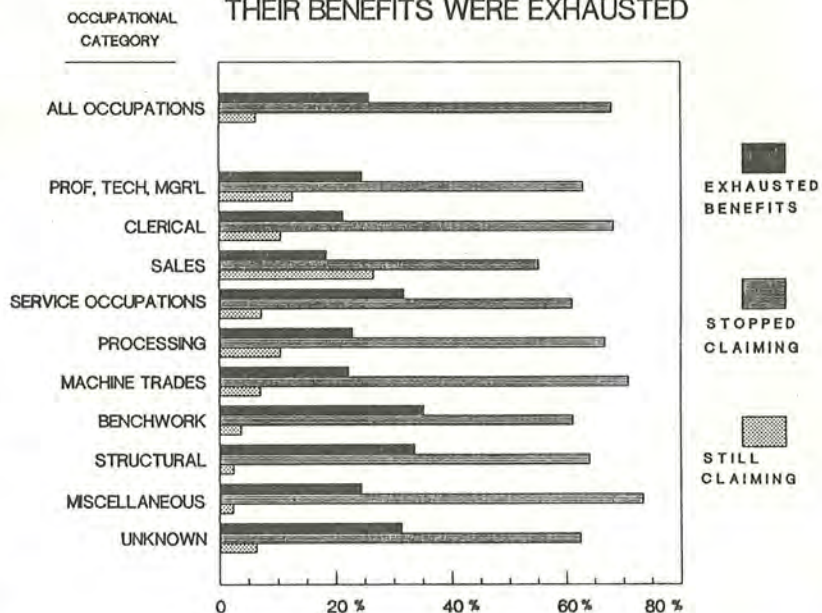
Structural and service occupations seemed particularly inconsistent, although this may be due in part to the smaller numbers of workers

involved. In most occupational categories, as the level of education increased, the percentage of claimants exhausting their benefits declined, while the percentage that discontinued claiming increased. Presumably, the more educated claimants discontinued claiming benefits because they had obtained employment.

In structural occupations, however, the high school dropouts and the college graduates appeared to have fared the best, while those with some post-secondary education appeared to have experienced the most difficulty securing other employment.

Service occupations exhibited a different pattern. In this occupational category, workers with post-secondary education, including college graduates, appear to have had the most difficulty. As a group, male workers from service occupations fared the poorest, with the highest exhaustion rate and the lowest percentage of workers who discontinued claiming benefits. On the other hand, female workers from service occupations fared close to the best. The men in this

OVER TWO-THIRDS OF PMLPC CLAIMANTS STOPPED CLAIMING BEFORE THEIR BENEFITS WERE EXHAUSTED



occupational category were concentrated in food preparation occupations, while the women were more in custodial types of jobs.

The PMLPC claimant population cannot be considered as a representative sample of the Total UI Claimant population, much less of all unemployed workers. Nevertheless, the program has begun to yield valuable information in Minnesota as well as other states concerning a facet of the United States and the Minnesota economies where little data was previously available. As the program continues to develop and expand, it is anticipated that the broadening base of data, both from the larger numbers of firms and claimants, as well as from the ability of the PMLPC program to track those claimants through their entire spell of insured unemployment, will facilitate identification of target populations for special assistance programs and enhance labor market analysis.

MINNESOTA
PERMANENT MASS LAYOFF AND PLANT CLOSING Project

- - - TABLES - - -

Table 1A provides information about the characteristics of all the PMLPC claimants residing in Minnesota. It shows a summary by Occupational Category, followed by a more detailed breakout by occupational codes (which are explained in Appendix A).

Table 1B is a parallel report providing information about the PMLPC claimants who exhausted their Unemployment Benefits.

Table 1C is a summary by Occupational Category showing the percentage of claimants who discontinued claiming benefits, who exhausted their benefits, or who still had active claims as of December 31, 1987. The sums of the percentages will not always equal 100 because of rounding.

Table 2A also provides information about the characteristics of all the PMLPC claimants residing in Minnesota. It shows a summary by Economic Development Region, followed by a more detailed breakout by county within Economic Region.

Table 2B parallels Table 2A, providing information about the PMLPC claimants who exhausted their Unemployment Benefits.

CHARACTERISTICS OF PMLPC CLAIMANTS BY OCCUPATION

TABLE 1A SUMMARY
Page 1

OCCUPATIONAL CATEGORY	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits	AGE BREAKOUT			EDUCATION								
			Veterans	Minority	Female	Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
Prof, Tech, Mgr	846	207	238	23	212	157	313	220	125	31	6	132	289	419
Clerical	448	95	27	12	358	147	139	93	53	16	6	220	173	49
Sales	49	9	15	2	13	7	21	10	5	6	2	18	21	8
Service Occupations	167	53	25	28	61	54	55	30	23	5	36	95	29	7
Ag.	1	1	0	0	0	1	0	0	0	0	0	1	0	0
Processing	567	129	89	53	220	185	188	94	77	23	107	353	95	12
Machine Trades	358	79	98	45	65	104	88	85	71	10	71	205	63	19
Benchwork	695	244	43	60	494	233	216	140	77	29	106	454	123	12
Structural	245	82	102	6	15	43	66	79	50	7	33	143	59	10
Miscellaneous	2,068	502	944	19	104	144	846	485	540	53	226	1,294	444	104
Unknown	16	5	4	0	6	4	5	4	1	2	1	9	4	2
MINNESOTA TOTAL	5,460	1,406	1,585	248	1,548	1,079	1,937	1,240	1,022	182	594	2,924	1,300	642

TABLE 1A

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits	Veterans	Minority	Female	AGE BREAKOUT					EDUCATION			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
001	17	5	4			4	6	6	1			1	2	14
002	2	2	2	1			1		1			1	1	
003	154	47	45	2	13	53	56	26	16	3		19	80	55
005	15	2	6	1		3	5	1	5	1		1	4	10
007	86	17	26	3	12	21	37	18	9	1	1	14	36	35
008	2		1	1		1		1					1	1
010	15	10	3		1	4	7	4					1	14
011	3						1		2			1		2
012	48	12	21	3	4	11	18	10	7	2		8	19	21
013	1						1							1
017	2		1					2				1	1	
018	2		1				1		1				2	
019	3	1	2				2			1			2	1
020	41	10	10	3	9	6	16	16	1	2		8	11	22
022	2	1	1				1		1					2
024	2		1		1		1	1						2
029	2		1				1			1		1		1
041	2				1		1	1				2		
045	2		1				1			1				2
050	3	2	1		2		1	1	1				1	2
070	1		1				1							1
075	25			1	25	2	10	9	3	1			17	8
077	3	1			3	1		2				1		2
078	10		2		8		2	4	4			1	1	8
079	7				6	1	4	1	1				6	1

CHARACTERISTICS OF PMLPC CLAIMANTS BY OCCUPATION

TABLE 1A
Page 2

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits				* * * * * AGE BREAKOUT * * * *					* * * * * EDUCATION * * * * *			
			Veterans	Minority	Female	Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
097	1				1				1					1
100	1				1							1		
110	5	1	2					2	1			1		4
131	11	4	1		8	2		4	2			1	3	7
132	4	1			2	1		3				1		3
139	1				1					1				1
141	1									1				
142	1				1	1						1		
144	2					1		1						2
149	1				1	1							1	
153	1				1	1								1
160	66	18	17	2	15	13	29	17	5	2	3	9	19	35
161	2				2		2							2
162	24	5	9		9	2	9	5	5	3		11	9	4
163	13	3	3		3		6	4	3			3	1	9
164	3		2				1	2					1	2
165	1				1			1						1
166	10	4	2	1	5	3	3		2	2		1	3	6
168	3	2			1		1	1		1			2	1
169	127	35	32	4	48	17	34	50	21	5		18	34	75
181	12	4	5				1	5	6		1	6	2	3
183	35	11	18		5	1	13	9	12			8	10	17
184	8	3	2		1		5	3			1	2	4	1
185	3		1		1	1	1		1			1		2
186	9	1	1		3	1	4	3	1			1	1	7
187	4	1	1		2			2				1	1	2
188	1							2						1
189	33	3	12	1	5	2	14	7	7	3		6	8	19
191	1	1			1			1				1		
193	1							1					1	
195	3				3	1	1	1						3
196	1				1	1								1
199	7				5	1	1	2	2	1		1	2	4
Total Prof, Tech. Mgr-->	846	207	238	23	212	157	313	220	125	31	6	132	289	419
201	104	24	2		103	31	34	25	11	3		53	44	7
202	2				2	1	1						2	
203	40	12		1	35	12	11	12	4	1		23	14	3
205	3	2			3	2	1						2	1
206	1		1						1				1	

CHARACTERISTICS OF PMLPC CLAIMANTS BY OCCUPATION

TABLE 1A
Page 3

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits	Demographics			***** AGE BREAKOUT ****					***** EDUCATION ****				
			Veterans	Minority	Female	Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years	
208	2			1	1	2						1		1	
209	43	9		2	41	18	13	8	3	1			25	16	2
210	10	1			8	5	3	1		1			3	5	2
211	4	1	1	1	4	1	2	1					3	1	
213	31	8	3	1	18	11	13	3	4		1	8	16	6	
214	10	1	3		6	1	2	2	4	1			7	2	1
215	7	3	1		6	1	1	3	1	1			5	2	
216	63	8		1	54	27	15	8	10	3	1	30	20	12	
219	40	9	3	2	33	11	11	7	7	4	2	19	14	5	
220	1		1				1								1
221	8	2	2		6	3	4	1				6	1	1	
222	44	6	7	2	14	11	15	12	5	1	1	25	16	2	
236	1		1					1					1		
237	9	4			9	3	1	5				6	3		
238	2				1	1	1						1	1	
239	2				1		2							1	1
241	5			1	4	1	3	1				2	3		
247	1				1		1								1
248	1					1								1	
249	14	5	2		8	4	4	3	3			5	6	3	
Total Clerical ----->	448	95	27	12	358	147	139	93	53	16	6	220	173	49	
250	1		1											1	
251	5	2	1		2	1		4						4	1
252	4						3		1				4		
260	3		1				2		1			2	1		
261	2	1			1	1	1						1	1	
275	1		1				1								1
279	14		6		3	3	5	1	1	4		4	6	4	
290	2	1			2		2					1	1		
292	9	1	3	1		2	4	3			1	5	2	1	
299	8	4	2	1	5		3	2	2	1	1	6	1		
Total Sales ----->	49	9	15	2	13	7	21	10	5	6	2	18	21	8	
305	1				1							1			
310	1					1							1		
311	3	2	1		2	1				2		3			
313	12	8	1	2	6	4	4	2	2		1	6	4	1	
315	1		1						1						

CHARACTERISTICS OF PMLPC CLAIMANTS BY OCCUPATION

TABLE 1A
Page 4

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits	***** AGE BREAKOUT ****					***** EDUCATION ****						
			Veterans	Minority	Female	Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
316	34	18	6	3	1	6	16	7	5		10	18	4	2
317	5				2	2	1	1				3	1	1
318	25	12	2	13	11	11	8	3	3		9	10	6	
319	1		1					1				1		
321	7				6	1	2	3	1		2	5		
323	4	1		1	4	2	1	1				4		
352	2				2		1		1			1		1
355	5			1	5	1	2	1	1		1	3		
357	1					1							1	
359	3		3	2				1	2			3		
361	1				1				1		1			
363	1	1							1		1			
372	2	1			1			1				1		1
379	1						1							1
381	4	1	2			2		2				2	2	
382	53	9	8	6	19	22	18	7	5	1	9	34	9	1
Service Occupations-->	167	53	25	28	61	54	55	30	23	5	36	95	29	7
410	1	1				1						1		
Ag., Forest, Fish---->	1	1	0	0	0	1	0	0	0	0	0	1	0	0
509	9	6	4				1	5	2	1	2	7		
510	1	1					1						1	
511	1		1						1			1		
512	1		1						1			1		
515	4		1					1	3		1	3		
519	5	3	5					2	3		1	4		
521	94	37	8	22	19	48	27	13	5	1	29	54	10	1
525	20	11	3	5	2	5	6	3	5	1	10	8	2	
526	62	1	9	19	14	16	23	11	10	2	10	38	13	1
529	357	66	56	7	181	111	126	56	46	18	52	231	65	9
543	1								1		1			
556	7	3			2	3	2	2			1	4	1	1
570	2	1	1			1	1					1	1	
579	1				1			1				1		
589	2				1	1	1						2	
Total Processing ---->	567	129	89	53	220	185	188	94	77	23	107	353	95	12

CHARACTERISTICS OF PMLPC CLAIMANTS BY OCCUPATION

TABLE 1A
Page 5

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits	Demographics			***** AGE BREAKOUT ***					***** EDUCATION *****			
			Veterans	Minority	Female	Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
600	34	9	5	4	5	10	9	10	5		4	24	4	2
601	9	1	4		1	2	4	3				1	6	2
602	1			1			1					1		
603	1		1					1					1	
609	59	15	6	31	14	28	14	7	7	3	27	23	7	2
610	1							1				1		
612	1								1		1			
615	3				2			1		1	1	2		
616	26	8	2	3	9	7	5	10	4		8	13	5	
617	1	1	1					1				1		
619	16	3	2	2	4	6	4	3	3		1	9	3	3
620	21	3	8			6	4	6	5		4	11	6	
621	2		1	1		2					3	18	1	1
625	25	3	13			3	4	6	12		1	5	4	
626	10	3	6			1	4	3	2		1	5	3	1
630	2	1						1	1		1	1		
632	2			1	1		2					2		
633	1					1							1	
637	3	3			3		1		2			1	2	
638	68	24	35		1	3	13	25	24	3	9	46	9	4
639	1	1	1					1				1		
651	1				1		1						1	
652	2		2					1				1	1	
660	61	4	9	1	24	33	19	3	4	2	10	42	7	2
662	1					1						1		
689	2						1		1				1	1
690	1		1					1				1		
692	1		1					1			1			
699	2			1		1	1					1		1
Machine Trades----->	358	79	98	45	65	104	88	85	71	10	71	205	63	19
701	1	1	1				1						1	
702	1					1						1		
706	467	182	21	50	343	160	133	91	59	24	76	309	77	5
709	2	2			1		1	1				2		
710	4	2	1		2		1	2	1			2	2	

CHARACTERISTICS OF PMLPC CLAIMANTS BY OCCUPATION

TABLE 1A
Page 6

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits	AGE BREAKOUT			EDUCATION								
			Veterans	Minority	Female	Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
720	2	1			1	2						1	1	
721	3		1		1	1	2						2	1
722	4	1	1		1	2	1	1				3	1	
723	86	22	3	5	77	25	29	23	8	1	10	63	11	2
725	1						1						1	
726	27	9	2		17	7	11	5	3	1	5	9	12	1
727	1						1						1	
728	1				1			1				1		
729	29	10	1	3	22	14	10	5			4	19	4	2
737	1					1						1		
739	4			1	3	1	3					3	1	
741	4					1	3					2	2	
761	1				1		1					1		
762	35	8	6	1	18	13	11	5	4	2	8	22	4	1
769	2		2				2					2		
771	1		1					1			1			
780	17	6	3		5	5	5	5	1	1	2	12	3	
786	1				1			1				1		
Total Benchwork	695	244	43	60	494	233	216	140	77	29	106	454	123	12
801	1	1							1					1
804	3	1	2					3			1	1	1	
805	10	3	4			3	2	2	2	1	1	8	1	
806	2	1		1	1	1	1					2		
807	1	1		1		1						1		
809	2	2	1					1	1			1	1	
810	26	5	13			4	2	12	6	2	4	17	5	
811	2					1	1					1	1	
812	1	1					1					1		
813	5	2		1	4		2	1	2		2	3		
819	43	12	13	2	1	7	19	10	6	1	9	23	10	1
821	1	1			1		1					1		
822	1		1				1						1	
823	3	2				3						1	2	
824	9	1	5			2	1	4	2			3	6	
825	2	1				1		1					1	1
826	2		1		1		1	1				1		1
827	1					1					1			
828	18	10	10		1	5	3	7	3			7	9	2
829	12	5	6		2	1	2	7	2		1	4	5	2
840	6	1	5				1	4	1			5	1	
841	1	1						1				1		
850	17	4	11				2	5	10			14	2	1
859	21	10	9				7	9	4	1	7	14		
860	2		2				1			1		1	1	

CHARACTERISTICS OF PMLPC CLAIMANTS BY OCCUPATION

TABLE 1A
Page 7

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Number That Exhausted Benefits	***** AGE BREAKOUT ****					***** EDUCATION ****						
			Veterans	Minority	Female	AGE BREAKOUT					Less than 12 Years	High School Grad	13-15 Years	16 or more Years
						Under 30	30-39	40-49	50-59	60-69				
862	9	4	4			1	4	2	2		2	5	2	
869	18	2	5	1	4	7	6		4	1	3	12	3	
891	6	2	2				4	2				4	1	1
899	20	9	8			5	4	7	4		2	12	5	1
Structural Work----->	245	82	102	6	15	43	66	79	50	7	33	143	59	10
904	38	4	23	1		1	6	9	20	2	10	24	4	
905	73	10	42			2	8	31	30	2	13	54	5	1
906	6		2			1	1	3	1		1	5		
909	1	1	1					1			1			
910	9	2	3			2	3	1	2	1	1	6	2	
911	2		1					1	1		1	1		
912	3	1			1	1		2				2		1
913	1				1									1
914	1						1	1						1
915	1						1					1		
916	1		1						1			1		
919	9	1	7		1	1	1	3	4		4	3	1	1
920	11	2	1		6	3	3	3	2		1	8	2	
921	21	8	10			6	5	5	5		5	14	2	
922	87	12	23	4	22	31	26	20	9	1	9	57	14	7
929	325	93	159	13	24	41	39	64	165	16	80	208	30	7
930	4	1	2			1	1		2			4		
931	2	1	1				1		1		1		1	
932	4	1	3				1		2	1		4		
934	1	1	1						1		1			
939	1,457	363	659	1	47	53	745	339	291	29	96	898	378	85
950	4		3				2	1	1		1	1	2	
951	1	1	1					1				1		
952	4		1		1		1		2	1	1	2	1	
971	1						1						1	
979	1				1	1							1	
Total Miscellaneous-->	2,068	502	944	19	104	144	846	485	540	53	226	1,294	444	104
Occupation Unknown	16	5	4	0	6	4	5	4	1	2	1	9	4	2
GRAND TOTAL	5,460	1,406	1,585	248	1,548	1,079	1,937	1,240	1,022	182	594	2,924	1,300	642

**CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS**

TABLE 1B SUMMARY
Page 1

OCCUPATIONAL CATEGORY	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	***** AGE BREAKOUT ***					***** EDUCATION *****			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
Prof, Tech, Mgr	846	207	77	9	46	24	78	60	34	11	3	37	81	86
Clerical	448	95	5	2	79	29	24	20	16	6	1	53	33	8
Sales	49	9	3	0	5	1	3	3	1	1	1	3	4	1
Service Occupations	167	53	8	14	12	19	14	8	9	3	14	21	15	3
Ag.	1	1	0	0	0	1	0	0	0	0	0	1	0	0
Processing	567	129	18	14	50	40	44	23	17	5	29	80	17	3
Machine Trades	358	79	27	5	18	19	19	19	17	5	15	47	13	4
Benchwork	695	244	15	23	184	85	67	40	37	15	45	160	36	3
Structural	245	82	33	4	4	15	24	32	11	0	7	49	24	2
Miscellaneous	2,068	502	243	5	20	26	143	143	180	10	69	332	87	14
Unknown	16	5	1	0	3	0	4	1	0	0	0	4	1	0
MINNESOTA TOTAL	5,460	1,406	430	76	421	259	420	349	322	56	184	787	311	124

CHARACTERISTICS OF PMLPC CLAIMANTS WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS

TABLE 1B

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	***** AGE BREAKOUT ***					***** EDUCATION *****			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
001	17	5	2				3	1	1				1	4
002	2	2	2	1			1		1			1	1	
003	154	47	21	1	4	7	21	10	7	2		7	28	12
005	15	2	1					1	1					2
007	86	17	6		2	4	8	2	2	1	1	5	6	5
008	2													
010	15	10	1		1	3	5	2					1	9
011	3													
012	48	12	6	1	3	2	4	2	3	1		4	5	3
013	1													
017	2													
018	2													
019	3	1	1				1						1	
020	41	10	5	2	1	1	3	6				1	5	4
022	2	1	1						1					1
024	2													
029	2													
041	2													
045	2													
050	3	2	1		1			1	1				1	1
070	1													
075	25													
077	3	1			1	1						1		
078	10													
079	7													

**CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS**

TABLE 1B
Page 2

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	* * * * * AGE BREAKOUT * * * *					* * * * * EDUCATION * * * *			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
097	1													
100	1													
110	5	1	1						1					1
131	11	4	1		2	1		1	2				1	3
132	4	1			1		1						1	
139	1													
141	1													
142	1													
144	2													
149	1													
153	1													
160	66	18	7		3	2	7	7	2		2	3	9	4
161	2													
162	24	5	1		1		4			1		2	3	
163	13	3	1		1		1	1	1			1		2
164	3													
165	1													
166	10	4	1	1	3	1	1						2	2
168	3	2			1			1					1	1
169	127	35	9	3	17	2	9	17	5	2		4	9	22
181	12	4	1					1	2	1		1	1	2
183	35	11	5		2		3	3	5			3	2	6
184	8	3					2	1					3	
185	3													
186	9	1			1		1							1
187	4	1						1				1		
188	1													
189	33	3	3											
191	1	1			1		1	1				2		1
193	1											1		
195	3													
196	1													
199	7													
Total Prof,Tech.Mgr-->	846	207	77	9	46	24	78	60	34	11	3	37	81	86
201	104	24			24	7	7	5	5			13	9	2
202	2													
203	40	12		1	11	5	2	3	1	1		7	5	
205	3	2			2	1	1						2	
206	1													

**CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS**

TABLE 1B
Page 3

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	***** AGE BREAKOUT ****					***** EDUCATION ****				
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years	
208	2														
209	43	9		1	8	3	3	2	1				5	3	1
210	10	1			1	1								1	
211	4	1			1		1							1	
213	31	8			4	3	4	1					3	3	2
214	10	1	1										1		
215	7	3	1		2			1	1	1			3		
216	63	8			7	2	2	1	2	1			5		3
219	40	9	2		7	2	1	2	2	2			3	6	
220	1														
221	8	2	1		1	1		1					1	1	
222	44	6			3		2	1	3			1	5		
236	1														
237	9	4			4	1		3					4		
238	2														
239	2														
241	5														
247	1														
248	1														
249	14	5			4	3	1		1				3	2	
Total Clerical	448	95	5	2	79	29	24	20	16	6	0	1	53	33	8
250	1														
251	5	2	1		1			2						2	
252	4														
260	3														
261	2	1			1		1							1	
275	1														
279	14														
290	2	1			1		1						1		
292	9	1				1									1
299	8	4	2		2		1	1	1	1		1	2	1	
Total Sales	49	9	3	0	5	1	3	3	1	1		1	3	4	1
305	1														
310	1														
311	3	2	1		1					2			2		
313	12	8	1	2	3	4	1	1	2			1	4	3	
315	1														

**CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS**

TABLE 1B
Page 4

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	* * * * * AGE BREAKOUT * * * *					* * * * * EDUCATION * * * * *			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
316	34	18	3	2		3	7	4	4		5	8	3	2
317	5													
318	25	12	1	8	6	6	3	2	1		3	4	5	
319	1													
321	7													
323	4	1			1		1					1		
352	2													
355	5													
357	1													
359	3													
361	1													
363	1	1							1		1			
372	2	1						1						1
379	1													
381	4	1	1					1					1	
382	53	9	1	2	1	6	1		1	1	4	2	3	
Service Occupations-->	167	53	8	14	12	19	14	8	9	3	14	21	15	3
410	1	1				1						1		
Ag., Forest, Fish-->	1	1	0	0	0	1	0	0	0	0	0	1	0	0
509	9	6	1				1	3	2		1	5	1	
510	1	1					1							
511	1													
512	1													
515	4													
519	5	3	3					2	1			3		
521	94	37	3	12	5	19	12	3	3		13	18	5	1
525	20	11	2	2	1	4	1	2	3	1	6	4	1	
526	62	1					1						1	
529	357	66	8		43	15	27	12	8	4	8	48	8	2
543	1													
556	7	3			1	2		1			1	2		
570	2	1	1				1						1	
579	1													
589	2													
Processing ----->	567	129	18	14	50	40	44	23	17	5	29	80	17	3

**CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS**

TABLE 1B
Page 5

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	***** AGE BREAKOUT ***					***** EDUCATION *****			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
600	34	9	2		2	3	2	1	3		1	7		1
601	9	1	1				1							1
602	1													
603	1													
609	59	15	2	5	7	7	3	1	1	3	7	8		
610	1													
612	1													
615	3													
616	26	8			3	3	3	2			1	5	2	
617	1	1	1					1					1	
619	16	3	1			1	2					1	1	1
620	21	3					1	1	1			3		
621	2													
625	25	3	1				1	1	1		1	1	1	
626	10	3	1				1	1	1		1	1	1	
630	2	1							1			1		
632	2													
633	1													
637	3	3			3		1		2			1	2	
638	68	24	17			1	4	9	8	2	3	15	5	1
639	1	1	1					1				1		
651	1													
652	2													
660	61	4			3	4					1	3		
662	1													
689	2													
690	1													
692	1													
699	2													
Machine Trades----->	358	79	27	5	18	19	19	19	17	5	15	47	13	4
701	1	1	1					1						1
702	1													
706	467	182	7	18	143	63	46	28	32	13	35	118	28	1
709	2	2			1		1	1				2		
710	4	2			1		1	1				1	1	

**CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS**

TABLE 1B
Page 6

OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	***** AGE BREAKOUT ***					***** EDUCATION *****			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
720	2	1			1	1						1		
721	3													
722	4	1	1			1							1	
723	86	22	1	2	20	10	8	3	1		1	20		1
725	1													
726	27	9			8	1	2	3	2	1	3	3	3	
727	1													
728	1													
729	29	10		2	7	3	4	3			3	6		1
737	1													
739	4													
741	4													
761	1													
762	35	8	3	1	1	4	1		2	1	2	5	1	
769	2													
771	1													
780	17	6	2		2	2	3	1			1	4	1	
786	1													
Benchmark----->	695	244	15	23	184	85	67	40	37	15	45	160	36	3
801	1	1												1
804	3	1	1					1						1
805	10	3	1			1	1	1			1	2		
806	2	1		1			1					1		
807	1	1		1		1						1		
809	2	2	1					1	1			1	1	
810	26	5	1			2	1	1	1		2	3		
811	2													
812	1	1						1				1		
813	5	2		1	2		1	1				2		
819	43	12	5	1		4	5	2	1		1	6	4	1
821	1	1			1		1					1		
822	1													
823	3	2				2						1	1	
824	9	1	1							1			1	
825	2	1						1					1	
826	2													
827	1													
828	18	10	6			2	3	4	1			4	5	1
829	12	5	3		1	1	1	3				3	2	
840	6	1	1					1				1		
841	1	1						1				1		
850	17	4	2					3	1			4		
859	21	10	2				3	6	1		2	8		
860	2													

CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS

TABLE 1B
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OCCUPATIONAL CODE	Total Minnesota PMLPC Claimants	Total Who Exhausted Benefits	Military Veterans	Minority	Female	* * * * * AGE BREAKOUT * * * *					* * * * * EDUCATION * * * * *			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
862	9	4	2			1	2	1				3	1	
869	18	2	2			1			1			1	1	
891	6	2	1				1	1				2		
899	20	9	4				3	4	2		1	3	5	
Structural Work----->	245	82	33	4	4	15	24	32	11	0	7	49	24	2
904	38	4	2					1	3		2	2		
905	73	10	4					1	8	1	2	8		
906	6													
909	1	1	1								1			
910	9	2						1	1			1	1	
911	2													
912	3	1										1		
913	1													
914	1													
915	1													
916	1													
919	9	1	1								1			
920	11	2			1			1	1			2		
921	21	8	3			3	1	1	2		3	4	1	
922	87	12	1		3	4	4	2	2		1	7	4	
929	325	93	44	3	6	11	11	27	43	1	22	59	12	
930	4	1					1					1		
931	2	1						1					1	
932	4	1						1				1		
934	1	1	1						1		1			
939	1,457	363	185	2	10	8	122	98	126	9	36	245	68	14
950	4													
951	1	1	1						1			1		
952	4													
971	1													
979	1													
Total Miscellaneous-->	2,068	502	243	5	20	26	143	143	180	10	69	332	87	14
Occupation Unknown	16	5	1	0	3		4	1				4	1	
GRAND TOTAL	5,460	1,406	430	76	421	259	420	349	322	56	184	787	311	124

SUMMARY REPORT OF CLAIMANTS' STATUS BY OCCUPATIONAL CATEGORY

TABLE 1C

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OCCUPATIONAL CATEGORY	STATUS CATEGORY	TOTAL	MALE	FEMALE	* * * * * AGE BREAKOUT * * * * *					* * * * * EDUCATION * * * * *			
					Under 30 Years	30-39 Years	40-49 Years	50-59 Years	60-69 Years	Under 12 Years	High School Grad	13-15 Years	16+ Years
PROF, TECH, MANAGERIAL	# Claimants	846	634	212	157	313	220	125	31	6	132	289	419
	% Exhausted	24.5%	25.4%	21.7%	15.3%	24.9%	27.3%	27.2%	35.5%	50.0%	28.0%	28.0%	20.5%
	% Stopped	63.0%	62.6%	64.2%	73.2%	60.7%	61.4%	63.2%	45.2%	33.3%	56.8%	58.5%	68.5%
	% Active	12.5%	12.0%	14.2%	11.5%	14.4%	11.4%	9.6%	19.4%	16.7%	15.2%	13.5%	11.0%
CLERICAL	# Claimants	448	90	358	147	139	93	53	16	6	220	173	49
	% Exhausted	21.2%	17.8%	22.1%	19.7%	17.3%	21.5%	30.2%	37.5%	16.7%	24.1%	19.1%	16.3%
	% Stopped	68.3%	67.8%	68.4%	72.8%	69.1%	67.7%	60.4%	50.0%	83.3%	63.2%	71.7%	77.6%
	% Active	10.5%	14.4%	9.5%	7.5%	13.7%	10.8%	9.4%	12.5%	-0.0%	12.7%	9.2%	6.1%
SALES	# Claimants	49	36	13	7	21	10	5	6	2	18	21	8
	% Exhausted	18.4%	11.1%	38.5%	14.3%	14.3%	30.0%	20.0%	16.7%	50.0%	16.7%	19.0%	12.5%
	% Stopped	55.1%	58.3%	46.2%	71.4%	52.4%	50.0%	60.0%	50.0%	0.0%	55.6%	52.4%	75.0%
	% Active	26.5%	30.6%	15.4%	14.3%	33.3%	20.0%	20.0%	33.3%	50.0%	27.8%	28.6%	12.5%
SERVICE	# Claimants	167	106	61	54	55	30	23	5	36	95	29	7
	% Exhausted	31.7%	38.7%	19.7%	35.2%	25.5%	26.7%	39.1%	60.0%	38.9%	22.1%	51.7%	42.9%
	% Stopped	61.1%	52.8%	75.4%	61.1%	67.3%	66.7%	47.8%	20.0%	55.6%	70.5%	41.4%	42.9%
	% Active	7.2%	8.5%	4.9%	3.7%	7.3%	6.7%	13.0%	20.0%	5.6%	7.4%	6.9%	14.3%
AG, FOREST, FISHERY	# Claimants	1	1	0	1	0	0	0	0	0	1	0	0
	% Exhausted	100.0%	100.0%		100.0%						100.0%		
	% Stopped	0.0%	0.0%		0.0%						0.0%		
	% Active	0.0%	0.0%		0.0%						0.0%		
PROCESSING	# Claimants	567	347	220	185	188	94	77	23	107	353	95	12
	% Exhausted	22.8%	22.8%	22.7%	21.6%	23.4%	24.5%	22.1%	21.7%	27.1%	22.7%	17.9%	25.0%
	% Stopped	66.8%	66.0%	68.2%	69.7%	65.4%	64.9%	64.9%	69.6%	63.6%	66.6%	70.5%	75.0%
	% Active	10.4%	11.2%	9.1%	8.6%	11.2%	10.6%	13.0%	8.7%	9.3%	10.8%	11.6%	0.0%

Note: "% Exhausted" refers to claimants who exhausted all their benefits.
"% Stopped" refers to claimants who discontinued claiming, even though they were entitled to more benefits. It is presumed that most of these stopped claiming benefits because they had obtained employment.
"% Active" refers to claimants still claiming unemployment benefits as of December 31, 1987.

SUMMARY REPORT OF CLAIMANTS' STATUS BY OCCUPATIONAL CATEGORY

TABLE 1C
Page 2

		***** AGE BREAKOUT *****								***** EDUCATION *****			
OCCUPATIONAL CATEGORY	STATUS CATEGORY	TOTAL	MALE	FEMALE	Under					Under	High	13-15 Years	16+ Years
					30 Years	30-39 Years	40-49 Years	50-59 Years	60-69 Years	12 Years	School Grad		
MACHINE TRADES	# Claimants	358	293	65	104	88	85	71	10	71	205	63	19
	% Exhausted	22.1%	20.8%	27.7%	18.3%	21.6%	22.4%	23.9%	50.0%	21.1%	22.9%	20.6%	21.1%
	% Stopped	70.9%	71.7%	67.7%	73.1%	73.9%	69.4%	69.0%	50.0%	69.0%	73.2%	66.7%	68.4%
	% Active	7.0%	7.5%	4.6%	8.7%	4.5%	8.2%	7.0%	0.0%	9.9%	3.9%	12.7%	10.5%
BENCHWORK	# Claimants	695	201	494	233	216	140	77	29	106	454	123	12
	% Exhausted	35.1%	29.9%	37.2%	36.5%	31.0%	28.6%	48.1%	51.7%	42.5%	35.2%	29.3%	25.0%
	% Stopped	61.2%	65.7%	59.3%	60.9%	67.1%	65.0%	45.5%	41.4%	51.9%	61.7%	65.9%	75.0%
	% Active	3.7%	4.5%	3.4%	2.6%	1.9%	6.4%	6.5%	6.9%	5.7%	3.1%	4.9%	0.0%
STRUCTURAL WORK	# Claimants	245	230	15	43	66	79	50	7	33	143	59	10
	% Exhausted	33.5%	33.9%	26.7%	34.9%	36.4%	40.5%	22.0%	0.0%	21.2%	34.3%	40.7%	20.0%
	% Stopped	64.1%	63.5%	73.3%	65.1%	59.1%	59.5%	72.0%	100.0%	75.8%	62.9%	57.6%	80.0%
	% Active	2.4%	2.6%	0.0%	-0.0%	4.5%	0.0%	6.0%	0.0%	3.0%	2.8%	1.7%	-0.0%
MISC.	# Claimants	2,068	1,964	104	144	846	485	540	53	226	1,294	444	104
	% Exhausted	24.3%	24.5%	19.2%	18.1%	16.9%	29.5%	33.3%	18.9%	30.5%	25.7%	19.6%	13.5%
	% Stopped	73.4%	73.2%	77.9%	79.2%	80.5%	67.4%	65.6%	79.2%	67.3%	71.8%	79.3%	81.7%
	% Active	2.3%	2.3%	2.9%	2.8%	2.6%	3.1%	1.1%	1.9%	2.2%	2.6%	1.1%	4.8%
UNKNOWN	# Claimants	16	10	6	4	5	4	1	2	1	9	4	2
	% Exhausted	31.3%	20.0%	50.0%	0.0%	80.0%	25.0%	0.0%	0.0%	0.0%	44.4%	25.0%	0.0%
	% Stopped	62.5%	70.0%	50.0%	100.0%	0.0%	75.0%	100.0%	100.0%	100.0%	44.4%	75.0%	100.0%
	% Active	6.3%	10.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	11.1%	0.0%	0.0%
TOTAL: ALL OCCUPATIONS	# Claimants	5,460	3,912	1,548	1,079	1,937	1,240	1,022	182	594	2,924	1,300	642
	% Exhausted	25.8%	25.2%	27.2%	24.0%	21.7%	28.1%	31.5%	30.8%	31.0%	26.9%	23.9%	19.3%
	% Stopped	68.0%	68.9%	65.6%	69.8%	71.6%	65.4%	63.6%	60.4%	63.5%	67.7%	68.8%	71.7%
	% Active	6.3%	5.9%	7.2%	6.2%	6.7%	6.5%	4.9%	8.8%	5.6%	5.4%	7.2%	9.0%

=====
 Note: "% Exhausted" refers to claimants who exhausted all their benefits.
 "% Stopped" refers to claimants who discontinued claiming, even though they were entitled to more benefits.
 It is presumed that most of these stopped claiming benefits because they had obtained employment.
 "% Active" refers to claimants still claiming unemployment benefits as of December 31, 1987.

TABLE 2A
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CHARACTERISTICS OF PMLPC CLAIMANTS
BY ECONOMIC REGION AND COUNTY

SUMMARY

	TOTAL CLAIMANTS	TOTAL VETERANS	TOTAL MINORITY	MALE FEMALE		***** AGE BREAKOUT ****					***** EDUCATION ****			
						Under 30	30-39 Years	40-49 Years	50-59 Years	60-69 Years	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
TOTAL STATE	5,460	1,585	248	3,912	1,548	1,079	1,937	1,240	1,022	182	594	2,924	1,300	642
REGION 1	2	2	0	2	0	0	0	0	2	0	0	1	1	0
REGION 2	1	0	0	1	0	0	0	0	0	1	0	1	0	0
REGION 3	2,157	1,009	8	2,082	75	110	869	541	583	54	214	1,318	474	151
REGION 4	4	1	0	3	1	0	2	1	0	1	0	3	1	0
REGION 5	5	1	0	2	3	0	2	3	0	0	1	3	1	0
REGION 6E	8	1	0	4	4	1	3	1	2	1	2	4	2	0
REGION 6W	33	3	3	20	13	20	8	2	2	1	6	18	8	1
REGION 7E	47	15	0	29	18	6	18	13	9	1	7	31	9	0
REGION 7W	52	10	2	29	23	9	26	13	4	0	2	30	18	2
REGION 8	149	16	2	51	98	51	46	22	23	7	22	90	33	4
REGION 9	537	79	8	256	281	181	176	89	64	27	69	317	124	27
REGION 10	206	43	1	153	53	47	77	41	29	12	35	109	44	18
REGION 11	2,259	405	224	1,280	979	654	710	514	304	77	236	999	585	439

COUNTY BREAKOUT	TOTAL CLAIMANTS	TOTAL VETERANS	TOTAL MINORITY	MALE FEMALE		***** AGE BREAKOUT ****					***** EDUCATION ****			
						Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
TOTAL STATE	5,460	1,585	248	3,912	1,548	1,079	1,937	1,240	1,022	182	594	2,924	1,300	642
REGION 1 TOTAL	2	2	0	2	0	0	0	0	2	0	0	1	1	0
069 KITTSO	0													
089 MARSHALL	0													
107 NORMAN	0													
113 PENNINGTON	1	1		1					1			1		
119 POLK	0													
125 RED LAKE	1	1		1					1				1	
135 ROSEAU	0													
REGION 2 TOTAL	1	0	0	1	0	0	0	0	0	1	0	1	0	0
007 BELTRAMI	1			1						1		1		
029 CLEARWATER	0													
057 HUBBARD	0													
077 LAKE OF THE WOODS	0													
087 MAHNOMEN	0													
REGION 3 TOTAL	2,157	1,009	8	2,082	75	110	869	541	583	54	214	1,318	474	151
001 AITKIN	3	1		2	1		2		1			2	1	
017 CARLTON	22	6	1	21	1	11	5	5	1		3	11	8	
031 COOK	10	4		10		3		3	3	1		9	1	
061 ITASCA	34	18		34		2	19	9	4		2	23	9	
071 KOOCHICHING	1			1		1								1
075 LAKE	387	217	3	376	11	3	36	122	205	21	90	245	34	18
137 SAINT LOUIS	1,700	763	4	1,638	62	90	807	402	369	32	119	1028	421	132

TABLE 2A
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CHARACTERISTICS OF PMLPC CLAIMANTS
BY ECONOMIC REGION AND COUNTY

	TOTAL CLAIMANTS	TOTAL VETERANS	TOTAL MINORITY	MALE	FEMALE	***** AGE BREAKOUT ****					***** EDUCATION ****			
						Under 30	30-39 Years	40-49 Years	50-59 Years	60-69 Years	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
REGION 4 TOTAL	4	1	0	3	1	0	2	1	0	1	0	3	1	0
005 BECKER	0													
027 CLAY	1			1			1					1		
041 DOUGLAS	2			1	1			1				2		
051 GRANT	0													
111 OTTER TAIL	1	1		1			1						1	
121 POPE	0													
149 STEVENS	0													
155 TRAVERSE	0													
167 WILKIN	0													
REGION 5 TOTAL	5	1	0	2	3	0	2	3	0	0	1	3	1	0
021 CASS	1				1			1				1		
035 CROW WING	0													
097 MORRISON	4	1		2	2		2	2			1	2	1	
153 TODD	0													
159 WADENA	0													
REGION 6E TOTAL	8	1	0	4	4	1	3	1	2	1	2	4	2	0
067 KANDIYOHI	2	1		1	1				2		1	1	1	
085 McLEOD	2				2		2					1	1	
093 MEEKER	0													
129 RENVILLE	4			3	1	1	1	1		1	1	3		
REGION 6W TOTAL	33	3	3	20	13	20	8	2	2	1	6	18	8	1
011 BIG STONE	1			1		1					1			
023 CHIPPEWA	2	1		1	1		2					2		
073 LAC QUI PARLE	1		1	1				1			1			
151 SWIFT	0													
173 YELLOW MEDICINE	29	2	2	17	12	19	6	1	2	1	4	16	8	1
REGION 7E TOTAL	47	15	0	29	18	6	18	13	9	1	7	31	9	0
025 CHISAGO	19	6		14	5	4	8	4	3		2	10	7	
059 ISANTI	18	4		7	11	1	7	7	2	1	2	15	1	
065 KANABEC	1				1		1					1		
095 MILLE LACS	4	3		4			1		3		2	2		
115 PINE	5	2		4	1	1	1	2	1		1	3	1	
REGION 7W TOTAL	52	10	2	29	23	9	26	13	4	0	2	30	18	2
009 BENTON	1			1			1					1		
141 SHERBURNE	14	3		9	5	5	7	2				5	9	
145 STEARNS	5	1	1	4	1	1		3	1		2	2		1
171 WRIGHT	32	6	1	15	17	3	18	8	3			22	9	1

TABLE 2A
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CHARACTERISTICS OF PMLPC CLAIMANTS
BY ECONOMIC REGION AND COUNTY

	TOTAL CLAIMANTS	TOTAL VETERANS	TOTAL MINORITY	SEX		AGE BREAKOUT					EDUCATION			
				MALE	FEMALE	Under 30	30-39 Years	40-49 Years	50-59 Years	60-69 Years	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
REGION 8 TOTAL	149	16	2	51	98	51	46	22	23	7	22	90	33	4
033 COTTONWOOD	16			3	13	2	7	5	1	1	2	11	3	
063 JACKSON	75	6		13	62	18	22	13	19	3	10	41	21	3
081 LINCOLN	1			1		1					1			
083 LYON	41	9	1	25	16	20	15	2	2	2	8	25	7	1
101 MURRAY	0													
105 NOBLES	2				2	1		1				1	1	
117 PIPESTONE	1				1								1	
127 REDWOOD	12	1		8	4	8	2	1	1	1		12		
133 ROCK	1		1	1		1					1			
REGION 9 TOTAL	537	79	8	256	281	181	176	89	64	27	69	317	124	27
013 BLUE EARTH	11	1		5	6	7	3	1			1	2	6	2
015 BROWN	3			2	1	2	1						2	1
043 FARIBAULT	22	7	1	14	8	6	4	8	4		6	12	4	
079 LE SUEUR	18	3		7	11	9	3	2	2	2	3	9	5	1
091 MARTIN	378	57	7	182	196	112	133	61	50	22	53	236	74	15
103 NICOLLET	1			1		1						1		
143 SIBLEY	0													
161 WASECA	99	8		41	58	43	29	17	8	2	5	54	33	7
165 WATONWAN	5	3		4	1	1	3			1	1	3		1
REGION 10 TOTAL	206	43	1	153	53	47	77	41	29	12	35	109	44	18
039 DODGE	12	7		12		2	3	4	1	2	2	6	2	2
045 FILLMORE	0													
047 FREEBORN	10	3		8	2	3	3	2	1	1	1	5	2	2
049 GOODHUE	16	4		9	7	2	7	3	4		4	7	5	
055 HOUSTON	0													
099 MOWER	7	1		5	2	4	2			1		2	5	
109 OLMSTED	6	2		5	1	2	2		2			5		1
131 RICE	35	5		22	13	5	15	9	6		7	20	5	3
147 STEELE	117	20	1	90	27	28	44	22	15	8	21	63	24	9
157 WABASHA	1				1			1					1	
169 WINONA	2	1		2		1	1					1		1
REGION 11 TOTAL	2,259	405	224	1,280	979	654	710	514	304	77	236	999	585	439
003 ANOKA	295	74	7	166	129	77	94	82	37	5	32	161	57	45
019 CARVER	13			7	6	4	2	6	1		1	4	7	1
037 DAKOTA	397	60	19	206	191	118	123	94	48	14	50	185	93	69
053 HENNEPIN	743	138	77	443	300	211	252	158	91	31	45	300	213	185
123 RAMSEY	646	110	117	380	266	196	183	128	115	24	91	263	174	118
139 SCOTT	34	6	2	12	22	10	8	10	4	2	2	17	9	6
163 WASHINGTON	131	17	2	66	65	38	48	36	8	1	15	69	32	15

TABLE 2B
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CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS
BY COUNTY AND ECONOMIC REGION

SUMMARY

	TOTAL PMLPC CLAIMANTS	TOTAL WHO EXHAUSTED BENEFITS	VETERANS	MINORITY	MALE	FEMALE	***** AGE BREAKOUT ***					***** EDUCATION *****			
							Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
TOTAL STATE	5,460	1,406	430	76	985	421	259	420	349	322	56	184	787	311	124
REGION 1	2	1	1	0	1	0	0	0	0	1	0	0	1	0	0
REGION 2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
REGION 3	2,157	617	300	6	590	27	35	185	187	197	13	70	391	116	40
REGION 4	4	1	0	0	0	1	0	0	0	0	1	0	1	0	0
REGION 5	5	3	0	0	1	2	0	2	1	0	0	1	1	1	0
REGION 6E	8	2	1	0	1	1	0	0	1	1	0	1	1	0	0
REGION 6W	33	5	0	0	3	2	4	0	0	0	1	2	3	0	0
REGION 7E	47	8	2	0	2	6	1	4	1	2	0	1	6	1	0
REGION 7W	52	19	3	1	12	7	2	10	4	3	0	2	12	4	1
REGION 8	149	68	5	1	10	58	17	16	12	19	4	12	38	16	2
REGION 9	537	105	12	0	40	65	21	36	25	15	8	17	66	19	3
REGION 10	206	55	17	0	47	8	16	17	8	9	5	15	27	7	6
REGION 11	2,259	522	89	68	278	244	163	150	110	75	24	63	240	147	72

COUNTY
BREAKOUT

	TOTAL PMLPC CLAIMANTS	TOTAL WHO EXHAUSTED BENEFITS	VETERANS	MINORITY	MALE	FEMALE	***** AGE BREAKOUT ***					***** EDUCATION *****			
							Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
TOTAL STATE	5,460	1,406	430	76	985	421	259	420	349	322	56	184	787	311	124
REGION 1 TOTAL	2	1	1	0	1	0	0	0	0	1	0	0	1	0	0
069 KITTSON	0	0													
089 MARSHALL	0	0													
107 NORMAN	0	0													
113 PENNINGTON	1	1	1		1					1			1		
119 POLK	0	0													
125 RED LAKE	1	0													
135 ROSEAU	0	0													
REGION 2 TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
007 BELTRAMI	1	0													
029 CLEARWATER	0	0													
057 HUBBARD	0	0													
077 LAKE OF THE WOODS	0	0													
087 MAHONOMEN	0	0													
REGION 3 TOTAL	2,157	617	300	6	590	27	35	185	187	197	13	70	391	116	40
001 AITKIN	3	1				1		1					1		
017 CARLTON	22	10	3	1	9	1	5	2	2	1			5	5	
031 COOK	10	1	1		1					1			1		
061 ITASCA	34	7	4		7			4	3			1	6		
071 KOOCHICHING	1	0													
075 LAKE	387	128	74	1	122	6	2	16	53	54	3	23	85	15	5
137 SAINT LOUIS	1,700	470	218	4	451	19	28	162	129	141	10	46	293	96	35

TABLE 2B
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CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS
BY COUNTY AND ECONOMIC REGION

	TOTAL PMLPC CLAIMANTS	TOTAL WHO EXHAUSTED BENEFITS	VETERANS	MINORITY	MALE	FEMALE	***** AGE BREAKOUT ****					***** EDUCATION *****			
							Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
REGION 4 TOTAL	4	1	0	0	0	1	0	0	0	0	1	0	1	0	0
005 BECKER	0	0													
027 CLAY	1	0													
041 DOUGLAS	2	1				1							1		
051 GRANT	0	0													
111 OTTER TAIL	1	0													
121 POPE	0	0													
149 STEVENS	0	0													
155 TRAVERSE	0	0													
167 WILKIN	0	0													
REGION 5 TOTAL	5	3	0	0	1	2	0	2	1	0	0	1	1	1	0
021 CASS	1	0													
035 CROW WING	0	0													
097 MORRISON	4	3			1	2		2	1			1	1	1	
153 TODD	0	0													
159 WADENA	0	0													
REGION 6E TOTAL	8	2	1	0	1	1	0	0	1	1	0	1	1	0	0
067 KANDIYOHI	2	1	1		1					1		1			
085 MCLEOD	2	0													
093 MEEKER	0	0													
129 RENVILLE	4	1				1			1				1		
REGION 6W TOTAL	33	5	0	0	3	2	4	0	0	0	1	2	3	0	0
011 BIG STONE	1	1			1		1					1			
023 CHIPPEWA	2	0													
073 LAC QUI PARLE	1	0													
151 SWIFT	0	0													
173 YELLOW MEDICINE	29	4			2	2	3				1	1	3		
REGION 7E TOTAL	47	8	2	0	2	6	1	4	1	2	0	1	6	1	0
025 CHISAGO	19	4	1		1	3	1	1	1	1		1	2	1	
059 ISANTI	18	3				3			3				3		
065 KANABEC	1	0													
095 MILLE LACS	4	1	1		1					1			1		
115 PINE	5	0													
REGION 7W TOTAL	52	19	3	1	12	7	2	10	4	3	0	2	12	4	1
009 BENTON	1	1			1			1					1		
141 SHERBURNE	14	4			3	1	1	3					2	2	
145 STEARNS	5	3	1	1	3				2	1		2	1		
171 WRIGHT	32	11	2		5	6	1	6	2	2			8	2	1

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TABLE 2B
Page 3

CHARACTERISTICS OF PMLPC CLAIMANTS
WHO EXHAUSTED THEIR UNEMPLOYMENT BENEFITS
BY COUNTY AND ECONOMIC REGION

	TOTAL PMLPC CLAIMANTS	TOTAL WHO EXHAUSTED BENEFITS	VETERANS	MINORITY	MALE	FEMALE	***** AGE BREAKOUT ****					***** EDUCATION *****			
							Under 30	30-39	40-49	50-59	60-69	Less than 12 Years	High School Grad	13-15 Years	16 or more Years
REGION 8 TOTAL	149	68	5	1	10	58	17	16	12	19	4	12	38	16	2
033 COTTONWOOD	16	13			2	11	2	5	4	1	1	1	10	2	
063 JACKSON	75	50	4		6	44	12	11	8	17	2	9	27	12	2
081 LINCOLN	1	0													
083 LYON	41	1				1	1					1			
101 MURRAY	0	0													
105 NOBLES	2	1				1	1							1	
117 PIPESTONE	1	1				1					1			1	
127 REDWOOD	12	1	1		1					1			1		
133 ROCK	1	1		1	1		1					1			
REGION 9 TOTAL	537	105	12	0	40	65	21	36	25	15	8	17	66	19	3
013 BLUE EARTH	11	1			1		1							1	
015 BROWN	3	1			1		1							1	
043 FARIBAULT	22	6			2	4		3	3				6		
079 LE SUEUR	18	2	1		2		1			1		1	1		
091 MARTIN	378	77	8		24	53	15	29	15	12	6	14	50	11	2
103 NICOLLET	1	0													
143 SIBLEY	0	0													
161 WASECA	99	17	3		10	7	3	4	7	2	1	1	9	6	1
165 WATONWAN	5	1				1					1	1			
REGION 10 TOTAL	206	55	17	0	47	8	16	17	8	9	5	15	27	7	6
039 DODGE	12	5	4		5		2		2		1	1	1	2	1
045 FILLMORE	0	0													
047 FREEBORN	10	5	3		5		1	2	1		1		3		2
049 GOODHUE	16	1			1		1					1			
055 HOUSTON	0	0													
099 MOWER	7	1			1						1		1		
109 OLMSTED	6	0													
131 RICE	35	14	1		9	5	3	6	2	3		3	6	4	1
147 STEELE	117	27	8		24	3	8	8	3	6	2	10	15	1	1
157 WABASHA	1	0													
169 WINONA	2	2	1		2		1	1					1		1
REGION 11 TOTAL	2,259	522	89	68	278	244	163	150	110	75	24	63	240	147	72
003 ANOKA	295	54	9	2	21	33	23	11	11	7	2	3	39	8	4
019 CARVER	13	3			1	2	2		1			1	1	1	
037 DAKOTA	397	108	18	2	51	57	31	31	26	16	4	19	52	17	20
053 HENNEPIN	743	185	38	27	112	73	44	64	45	24	8	14	69	71	31
123 RAMSEY	646	139	23	36	85	54	48	35	21	27	8	23	63	39	14
139 SCOTT	34	13		1	2	11	6	3	2		2		7	6	
163 WASHINGTON	131	20	1		6	14	9	6	4	1		3	9	5	3

MINNESOTA
PERMANENT MASS LAYOFF AND PLANT CLOSING Project

Appendix A

**Dictionary of Occupational Titles (DOT)
Classification**

With the exception of Master and Term title definitions, each occupational definition contained in the Dictionary of Occupational Titles has been assigned a unique nine-digit code. Each set of three digits in the nine-digit code has a meaning or purpose. This reference provides a summary listing of the first, second and third digits of the DOT codes which are utilized to indicate occupational categories, divisions and groups, respectively. The following is an explanation of the meaning and hierarchical arrangement of these codes extracted from pages xvi-xvii of the Dictionary of Occupational Titles.

The first three digits identify a particular occupational group. All occupations are clustered into one of nine broad "categories" (first digit), such as professional, technical, and managerial; or clerical and sales occupations. These categories break up into 82 occupationally specific "divisions" (first two digits), such as occupations in architecture and engineering within the professional category, or stenography, typing, filing and related occupations in the clerical and sales category. Divisions, in turn, separate into small, homogeneous "groups" (first three digits) - 559 such groups are identified in the DOT. The nine primary occupational categories are listed below:

- 0/1 Professional, Technical, and Managerial Occupations
- 2 Clerical and Sales Occupations
- 3 Service Occupations
- 4 Agricultural, Fishery, Forestry, and Related Occupations
- 5 Processing Occupations
- 6 Machine Trades Occupations
- 7 Bench Work Occupations
- 8 Structural Work Occupations
- 9 Miscellaneous Occupations

In the DOT code 652-382-010 Cloth Printer, for example, the first digit (6) indicates the category, "Machine Trades Occupations."

The second digit refers to a division within the category. The divisions within the "Machine Trades Occupations" category are as follows:

- 60 Metal Machining Occupations
- 61 Metalworking Occupations, n.e.c.*
- 62/63 Mechanics and Machinery Repairers
- 64 Paperworking Occupations
- 65 Printing Occupations
- 66 Wood Machining Occupations
- 67 Occupations in Machining Stone, Clay, Glass and Related Materials
- 68 Textile Occupations
- 69 Machine Trades Occupations, n.e.c.*

The second digit (5) locates the occupation in the "Printing Occupations" division.

The third digit defines the occupational group within the division. The groups within the "Printing Occupations" division are as follows:

- 650 Typesetters and Composers
- 651 Printing Press Occupations
- 652 Printing Machine Occupations
- 653 Bookbinding-Machine Operators and Related Occupations
- 654 Typesetters and Related Occupations
- 659 Printing Occupations, n.e.c.*

The third digit in the example (2) locates the occupation in the "Printing Machine Occupations" group.

As is indicated in the example, the levels of specificity increase as each digit is added so that the three digits together provide an indication of a specific occupational group. Within each group, the code is expanded to include individual occupations. The following summary listing taken from pages xxxiv-xli of the Dictionary of Occupational Titles lists the codes and titles of the occupational categories (first digit), the occupational divisions (first two digits), and occupational groups (first three digits).

* Some divisions or groups end in the designation "n.e.c." (not elsewhere classified). This indicates that the occupations do not logically fit into more precisely defined divisions or groups, or that they could fit into two or more of them equally well.

SUMMARY LISTING OF OCCUPATIONAL CATEGORIES, DIVISIONS, AND GROUPS

OCCUPATIONAL CATEGORIES

- 0/1 Professional, technical, and managerial occupations
- 2 Clerical and sales occupations
- 3 Service occupations
- 4 Agricultural, fishery, forestry, and related occupations
- 5 Processing occupations
- 6 Machine trades occupations
- 7 Benchwork occupations
- 8 Structural work occupations
- 9 Miscellaneous occupations

TWO-DIGIT OCCUPATIONAL DIVISIONS

PROFESSIONAL, TECHNICAL, AND MANAGERIAL OCCUPATIONS

- 00/01 Occupations in architecture, engineering, and surveying
- 02 Occupations in mathematics and physical sciences
- 04 Occupations in life sciences
- 05 Occupations in social sciences
- 07 Occupations in medicine and health
- 09 Occupations in education
- 10 Occupations in museum, library, and archival sciences
- 11 Occupations in law and jurisprudence
- 12 Occupations in religion and theology
- 13 Occupations in writing
- 14 Occupations in art
- 15 Occupations in entertainment and recreation
- 16 Occupations in administrative specializations
- 18 Managers and officials, n.e.c.
- 19 Miscellaneous professional, technical, and managerial occupations

CLERICAL AND SALES OCCUPATIONS

- 20 Stenography, typing, filing, and related occupations
- 21 Computing and account-recording occupations
- 22 Production and stock clerks and related occupations
- 23 Information and message distribution occupations
- 24 Miscellaneous clerical occupations
- 25 Sales occupations, services
- 26 Sales occupations, consumable commodities
- 27 Sales occupations, commodities, n.e.c.
- 29 Miscellaneous sales occupations

SERVICE OCCUPATIONS

- 30 Domestic service occupations
- 31 Food and beverage preparation and service occupations
- 32 Lodging and related service occupations
- 33 Barbering, cosmetology, and related service occupations
- 34 Amusement and recreation service occupations
- 35 Miscellaneous personal service occupations
- 36 Apparel and furnishings service occupations
- 37 Protective service occupations
- 38 Building and related service occupations

AGRICULTURAL, FISHERY, FORESTRY, AND RELATED OCCUPATIONS

- 40 Plant farming occupations
- 41 Animal farming occupations
- 42 Miscellaneous agricultural and related occupations
- 44 Fishery and related occupations
- 45 Forestry occupations
- 46 Hunting, trapping, and related occupations

PROCESSING OCCUPATIONS

- 50 Occupations in processing of metal
- 51 Ore refining and foundry occupations
- 52 Occupations in processing of food, tobacco, and related products
- 53 Occupations in processing of paper and related materials
- 54 Occupations in processing of petroleum, coal, natural and manufactured gas, and related products
- 55 Occupations in processing of chemicals, plastics, synthetics, rubber, paint, and related products
- 56 Occupations in processing of wood and wood products
- 57 Occupations in processing of stone, clay, glass, and related products
- 58 Occupations in processing of leather, textiles, and related products
- 59 Processing occupations, n.e.c.

MACHINE TRADES OCCUPATIONS

- 60 Metal machining occupations
- 61 Metalworking occupations, n.e.c.
- 62/63 Mechanics and machinery repairers
- 64 Paperworking occupations
- 65 Printing occupations
- 66 Wood machining occupations
- 67 Occupations in machining stone, clay, glass, and related materials
- 68 Textile occupations
- 69 Machine trades occupations, n.e.c.

BENCHWORK OCCUPATIONS

- 70 Occupations in fabrication, assembly, and repair of metal products, n.e.c.
- 71 Occupations in fabrication and repair of scientific, medical, photographic, optical, horological, and related products
- 72 Occupations in assembly and repair of electrical equipment
- 73 Occupations in fabrication and repair of products made from assorted materials
- 74 Painting, decorating, and related occupations
- 75 Occupations in fabrication and repair of plastics, synthetics, rubber, and related products
- 76 Occupations in fabrication and repair of wood products
- 77 Occupations in fabrication and repair of sand, stone, clay, and glass products
- 78 Occupations in fabrication and repair of textile, leather, and related products
- 79 Bench work occupations, n.e.c.

STRUCTURAL WORK OCCUPATIONS

- 80 Occupations in metal fabricating, n.e.c.
- 81 Welders, cutters, and related occupations
- 82 Electrical assembling, installing, and repairing occupations
- 84 Painting, plastering, waterproofing, cementing, and related occupations
- 85 Excavating, grading, paving, and related occupations
- 86 Construction occupations, n.e.c.
- 89 Structural work occupations, n.e.c.

MISCELLANEOUS OCCUPATIONS

- 90 Motor freight occupations
- 91 Transportation occupations, n.e.c.
- 92 Packaging and materials handling occupations
- 93 Occupations in extraction of minerals
- 95 Occupations in production and distribution of utilities
- 96 Amusement, recreation, motion picture, radio and television occupations, n.e.c.
- 97 Occupations in graphic art work

THREE-DIGIT OCCUPATIONAL GROUPS

PROFESSIONAL, TECHNICAL, AND MANAGERIAL OCCUPATIONS

00/01 Occupations in architecture, engineering, and surveying

- 001 Architectural occupations
- 002 Aeronautical engineering occupations
- 003 Electrical/electronics engineering occupations
- 005 Civil engineering occupations
- 006 Ceramic engineering occupations
- 007 Mechanical engineering occupations
- 008 Chemical engineering occupations
- 010 Mining and petroleum engineering occupations
- 011 Metallurgy and metallurgical engineering occupations
- 012 Industrial engineering occupations
- 013 Agricultural engineering occupations
- 014 Marine engineering occupations
- 015 Nuclear engineering occupations
- 017 Drafters, n.e.c.
- 018 Surveying/cartographic occupations
- 019 Occupations in architecture, engineering, and surveying, n.e.c.

02 Occupations in mathematics and physical sciences

- 020 Occupations in mathematics
- 021 Occupations in astronomy
- 022 Occupations in chemistry
- 023 Occupations in physics
- 024 Occupations in geology
- 025 Occupations in meteorology
- 029 Occupations in mathematics and physical sciences, n.e.c.

04 Occupations in life sciences

- 040 Occupations in agricultural sciences
- 041 Occupations in biological sciences
- 045 Occupations in psychology
- 049 Occupations in life sciences, n.e.c.

05 Occupations in social sciences

- 050 Occupations in economics
- 051 Occupations in political science
- 052 Occupations in history
- 054 Occupations in sociology
- 055 Occupations in anthropology
- 059 Occupations in social sciences, n.e.c.

07 Occupations in medicine and health

- 070 Physicians and surgeons
- 071 Osteopaths
- 072 Dentists
- 073 Veterinarians
- 074 Pharmacists
- 075 Registered nurses
- 076 Therapists
- 077 Dietitians
- 078 Occupations in medical and dental technology
- 079 Occupations in medicine and health, n.e.c.

09 Occupations in education

- 090 Occupations in college and university education
- 091 Occupations in secondary school education
- 092 Occupations in preschool, primary school, and kindergarten education
- 094 Occupations in education of the handicapped
- 096 Home economists and farm advisers
- 097 Occupations in vocational education, n.e.c.
- 099 Occupations in education, n.e.c.

10 Occupations in museum, library, and archival sciences

- 100 Librarians
- 101 Archivists
- 102 Museum curators and related occupations
- 109 Occupations in museum, library, and archival sciences, n.e.c.

11 Occupations in law and jurisprudence

- 110 Lawyers
- 111 Judges
- 119 Occupations in law and jurisprudence, n.e.c.

12 Occupations in religion and theology

- 120 Clergy
- 129 Occupations in religion and theology, n.e.c.

13 Occupations in writing

- 131 Writers
- 132 Editors: publication, broadcast, and script
- 137 Interpreters and translators
- 139 Occupations in writing, n.e.c.

14 Occupations in art

- 141 Commercial artists: designers and illustrators, graphic arts
- 142 Environmental, product, and related designers
- 143 Occupations in photography
- 144 Fine artists: painters, sculptors, and related occupations
- 149 Occupations in art, n.e.c.

15 Occupations in entertainment and recreation

- 150 Occupations in dramatics
- 151 Occupations in dancing
- 152 Occupations in music
- 153 Occupations in athletics and sports
- 159 Occupations in entertainment and recreation, n.e.c.

16 Occupations in administrative specializations

- 160 Accountants and auditors
- 161 Budget and management systems analysis occupations
- 162 Purchasing management occupations
- 163 Sales and distribution management occupations
- 164 Advertising management occupations
- 165 Public relations management occupations
- 166 Personnel administration occupations
- 168 Inspectors and investigators, managerial and public service
- 169 Occupations in administrative specializations, n.e.c.

18 Managers and officials, n.e.c.

- 180 Agriculture, forestry, and fishing industry managers and officials
- 181 Mining industry managers and officials
- 182 Construction industry managers and officials
- 183 Manufacturing industry managers and officials
- 184 Transportation, communication, and utilities industry managers and officials
- 185 Wholesale and retail trade managers and officials
- 186 Finance, insurance, and real estate managers and officials
- 187 Service industry managers and officials
- 188 Public administration managers and officials
- 189 Miscellaneous managers and officials, n.e.c.

19 Miscellaneous professional, technical, and managerial occupations

- 191 Agents and appraisers, n.e.c.
- 193 Radio operators
- 194 Sound, film, and videotape recording, and reproduction occupations
- 195 Occupations in social and welfare work
- 196 Airplane pilots and navigators
- 197 Ship captains, mates, pilots, and engineers
- 198 Railroad conductors
- 199 Miscellaneous professional, technical, and managerial occupations, n.e.c.

CLERICAL AND SALES OCCUPATIONS

20 Stenography, typing, filing, and related occupations

- 201 Secretaries
- 202 Stenographers
- 203 Typists and typewriting-machine operators

205 Interviewing clerks
 206 File clerks
 207 Duplicating-machine operators and tenders
 208 Mailing and miscellaneous office machine operators
 209 Stenography, typing, filing, and related occupations, n.e.c.

21 Computing and account-recording occupations
 210 Bookkeepers and bookkeeping-machine operators
 211 Cashiers and tellers
 213 Electronic and electromechanical data processors
 214 Billing and rate clerks
 215 Payroll, timekeeping, and duty-roster clerks
 216 Accounting and statistical clerks
 217 Account-recording-machine operators, n.e.c.
 219 Computing and account-recording occupations, n.e.c.

22 Production and stock clerks and related occupations
 221 Production clerks
 222 Shipping, receiving, stock, and related clerical occupations
 229 Production and stock clerks and related occupations, n.e.c.

23 Information and message distribution occupations
 230 Hand delivery and distribution occupations
 235 Telephone operators
 236 Telegraph operators
 237 Information and reception clerks
 238 Accommodation clerks and gate and ticket agents
 239 Information and message distribution occupations, n.e.c.

24 Miscellaneous clerical occupations
 241 Investigators, adjusters, and related occupations
 243 Government service clerks, n.e.c.
 245 Medical service clerks, n.e.c.
 247 Advertising-service clerks, n.e.c.
 248 Transportation-service clerks, n.e.c.
 249 Miscellaneous clerical occupations, n.e.c.

25 Sales occupations, services
 250 Sales occupations, real estate and insurance
 251 Sales occupations, business and financial services
 252 Sales occupations, transportation services
 253 Sales occupations, utilities
 254 Sales occupations, printing and advertising
 259 Sales occupations, services, n.e.c.

26 Sales occupations, consumable commodities
 260 Sales occupations, agricultural and food products
 261 Sales occupations, textile products, apparel, and notions
 262 Sales occupations, chemicals, drugs, and sundries
 269 Sales occupations, miscellaneous consumable commodities, n.e.c.

27 Sales occupations, commodities, n.e.c.
 270 Sales occupations, home furniture, furnishings, and appliances
 271 Sales occupations, electrical goods, except home appliances
 272 Sales occupations, farm and gardening equipment and supplies
 273 Sales occupations, transportation equipment, parts, and supplies
 274 Sales occupations, industrial and related equipment and supplies
 275 Sales occupations, business and commercial equipment and supplies
 276 Sales occupations, medical and scientific equipment and supplies
 277 Sales occupations, sporting, hobby, stationery, and related goods
 279 Sales occupations, miscellaneous commodities, n.e.c.

29 Miscellaneous sales occupations
 290 Sales clerks
 291 Vending and door to door selling occupations
 292 Route sales and delivery occupations
 293 Solicitors
 294 Auctioneers
 295 Rental clerks
 296 Shoppers
 297 Sales promotion occupations
 298 Merchandise displayers

299 Miscellaneous sales occupations, n.e.c.

SERVICE OCCUPATIONS

30 Domestic service occupations
 301 Household and related work
 302 Launderers, private family
 305 Cooks, domestic
 309 Domestic service occupations, n.e.c.

31 Food and beverage preparation and service occupations
 310 Hosts/hostesses and stewards/stewardesses, food and beverage service, except ship stewards/stewardesses
 311 Waiters/waitresses, and related food service occupations
 312 Bartenders
 313 Chefs and cooks, hotels and restaurants
 315 Miscellaneous cooks, except domestic
 316 Meatcutters, except in slaughtering and packing houses
 317 Miscellaneous food and beverage preparation occupations
 318 Kitchen workers, n.e.c.
 319 Food and beverage preparation and service occupations, n.e.c.

32 Lodging and related service occupations
 320 Boarding-house and lodging-house keepers
 321 Housekeepers, hotels and institutions
 323 Housecleaners, hotels, restaurants, and related establishments
 324 Bellhops and related occupations
 329 Lodging and related service occupations, n.e.c.

33 Barbering, cosmetology, and related service occupations
 330 Barbers
 331 Manicurists
 332 Hairdressers and cosmetologists
 333 Make-up occupations
 334 Masseurs and related occupations
 335 Bath attendants
 338 Embalmers and related occupations
 339 Barbering, cosmetology, and related service occupations, n.e.c.

34 Amusement and recreation service occupations
 340 Attendants, bowling alley and billiard parlor
 341 Attendants, golf course, tennis court, skating rink, and related facilities
 342 Amusement device and concession attendants
 343 Gambling hall attendants
 344 Ushers
 346 Wardrobe and dressing-room attendants
 349 Amusement and recreation service occupations, n.e.c.

35 Miscellaneous personal service occupations
 350 Ship stewards/stewardesses and related occupations
 351 Train attendants
 352 Hosts/hostesses and stewards/stewardesses, n.e.c.
 353 Guides
 354 Unlicensed birth attendants and practical nurses
 355 Attendants, hospitals, morgues, and related health services
 357 Baggage handlers
 358 Checkroom, locker room, and restroom attendants
 359 Miscellaneous personal service occupations, n.e.c.

36 Apparel and furnishings service occupations
 361 Laundering occupations
 362 Dry cleaning occupations
 363 Pressing occupations
 364 Dyeing and related occupations
 365 Shoe and luggage repairer and related occupations
 366 Bootblacks and related occupations
 369 Apparel and furnishings service occupations, n.e.c.

37 Protective service occupations
 371 Crossing tenders and bridge operators
 372 Security guards and correction officers, except crossing tenders
 373 Fire fighters, fire department

- 375 Police officers and detectives, public service
- 376 Police officers and detectives, except in public service
- 377 Sheriffs and bailiffs
- 378 Armed forces enlisted personnel
- 379 Protective service occupations, n.e.c.

38 Building and related service occupations

- 381 Porters and cleaners
- 382 Janitors
- 383 Building pest control service occupations
- 388 Elevator operators
- 389 Building and related service occupations, n.e.c.

AGRICULTURAL, FISHERY, FORESTRY, AND RELATED OCCUPATIONS

40 Plant farming occupations

- 401 Grain farming occupations
- 402 Vegetable farming occupations
- 403 Fruit and nut farming occupations
- 404 Field crop farming occupations, n.e.c.
- 405 Horticultural specialty occupations
- 406 Gardening and groundskeeping occupations
- 407 Diversified crop farming occupations
- 408 Plant life and related service occupations
- 409 Plant farming and related occupations, n.e.c.

41 Animal farming occupations

- 410 Domestic animal farming occupations
- 411 Domestic fowl farming occupations
- 412 Game farming occupations
- 413 Lower animal farming occupations
- 418 Animal service occupations
- 419 Animal farming occupations, n.e.c.

42 Miscellaneous agricultural and related occupations

- 421 General farming occupations
- 429 Miscellaneous agricultural and related occupations, n.e.c.

44 Fishery and related occupations

- 441 Net, seine, and trap fishers
- 442 Line fishers
- 443 Fishers, miscellaneous equipment
- 446 Aquatic life cultivation and related occupations
- 447 Sponge and seaweed gatherers
- 449 Fishery and related occupations, n.e.c.

45 Forestry occupations

- 451 Tree farming and related occupations
- 452 Forest conservation occupations
- 453 Occupations in harvesting forest products, except logging
- 454 Logging and related occupations
- 455 Log grading, scaling, sorting, rafting, and related occupations
- 459 Forestry occupations, n.e.c.

46 Hunting, trapping, and related occupations

- 461 Hunting and trapping occupations

PROCESSING OCCUPATIONS

50 Occupations in processing of metal

- 500 Electroplating occupations
- 501 Dip plating occupations
- 502 Melting, pouring, casting, and related occupations
- 503 Pickling, cleaning, degreasing, and related occupations
- 504 Heat-treating occupations
- 505 Metal spraying, coating, and related occupations
- 509 Occupations in processing of metal, n.e.c.

51 Ore refining and foundry occupations

- 510 Mixing and related occupations
- 511 Separating, filtering, and related occupations
- 512 Melting occupations
- 513 Roasting occupations

- 514 Pouring and casting occupations
- 515 Crushing and grinding occupations
- 518 Molders, coremakers, and related occupations
- 519 Ore refining and foundry occupations, n.e.c.

52 Occupations in processing of food, tobacco, and related products

- 520 Mixing, compounding, blending, kneading, shaping, and related occupations
- 521 Separating, crushing, milling, chopping, grinding, and related occupations
- 522 Culturing, melting, fermenting, distilling, saturating, pickling, aging, and related occupations
- 523 Heating, rendering, melting, drying, cooling, freezing, and related occupations
- 524 Coating, icing, decorating, and related occupations
- 525 Slaughtering, breaking, curing, and related occupations
- 526 Cooking and baking occupations, n.e.c.
- 529 Occupations in processing of food, tobacco, and related products, n.e.c.

53 Occupations in processing of paper and related materials

- 530 Grinding, beating, and mixing occupations
- 532 Cooking and drying occupations
- 533 Cooling, bleaching, screening, washing, and related occupations
- 534 Calendering, sizing, coating, and related occupations
- 535 Forming occupations, n.e.c.
- 539 Occupations in processing of paper and related materials, n.e.c.

54 Occupations in processing of petroleum, coal, natural and manufactured gas, and related products

- 540 Mixing and blending occupations
- 541 Filtering, straining, and separating occupations
- 542 Distilling, subliming, and carbonizing occupations
- 543 Drying, heating, and melting occupations
- 544 Grinding and crushing occupations
- 546 Reacting occupations, n.e.c.
- 549 Occupations in processing of petroleum, coal, natural and manufactured gas, and related products, n.e.c.

55 Occupations in processing of chemicals, plastics, synthetics, rubber, paint, and related products

- 550 Mixing and blending occupations
- 551 Filtering, straining, and separating occupations
- 552 Distilling occupations
- 553 Heating, baking, drying, seasoning, melting, and heat-treating occupations
- 554 Coating, calendering, laminating, and finishing occupations
- 555 Grinding and crushing occupations
- 556 Casting and molding occupations, n.e.c.
- 557 Extruding occupations
- 558 Reacting occupations, n.e.c.
- 559 Occupations in processing of chemicals, plastics, synthetics, rubber, paint, and related products, n.e.c.

56 Occupations in processing of wood and wood products

- 560 Mixing and related occupations
- 561 Wood preserving and related occupations
- 562 Saturating, coating, and related occupations, n.e.c.
- 563 Drying, seasoning, and related occupations
- 564 Grinding and chopping occupations, n.e.c.
- 569 Occupations in processing of wood and wood products, n.e.c.

57 Occupations in processing of stone, clay, glass, and related products

- 570 Crushing, grinding, and mixing occupations
- 571 Separating occupations
- 572 Melting occupations
- 573 Baking, drying, and heat-treating occupations
- 574 Impregnating, coating, and glazing occupations
- 575 Forming occupations
- 579 Occupations in processing of stone, clay, glass, and related products, n.e.c.

- 58 **Occupations in processing of leather, textiles, and related products**
- 580 Shaping, blocking, stretching, and tenting occupations
- 581 Separating, filtering, and drying occupations
- 582 Washing, steaming, and saturating occupations
- 583 Ironing, pressing, glazing, staking, calendering, and embossing occupations
- 584 Mercerizing, coating, and laminating occupations
- 585 Singeing, cutting, shearing, shaving, and napping occupations
- 586 Felting and fulling occupations
- 587 Brushing and shrinking occupations
- 589 Occupations in processing of leather, textiles, and related products, n.e.c.
- 59 **Processing occupations, n.e.c.**
- 590 Occupations in processing products from assorted materials
- 599 Miscellaneous processing occupations, n.e.c.

MACHINE TRADES OCCUPATIONS

- 60 **Metal machining occupations**
- 600 Machinists and related occupations
- 601 Toolmakers and related occupations
- 602 Gear machining occupations
- 603 Abrading occupations
- 604 Turning occupations
- 605 Milling, shaping, and planing occupations
- 606 Boring occupations
- 607 Sawing occupations
- 609 Metal machining occupations, n.e.c.
- 61 **Metalworking occupations, n.e.c.**
- 610 Hammer forging occupations
- 611 Press forging occupations
- 612 Forging occupations, n.e.c.
- 613 Sheet and bar rolling occupations
- 614 Extruding and drawing occupations
- 615 Punching and shearing occupations
- 616 Fabricating machine occupations
- 617 Forming occupations, n.e.c.
- 619 Miscellaneous metalworking occupations, n.e.c.
- 62/63 **Mechanics and machinery repairers**
- 620 Motorized vehicle and engineering equipment mechanics and repairers
- 621 Aircraft mechanics and repairers
- 622 Rail equipment mechanics and repairers
- 623 Marine mechanics and repairers
- 624 Farm mechanics and repairers
- 625 Engine, power transmission, and related mechanics
- 626 Metalworking machinery mechanics
- 627 Printing and publishing mechanics and repairers
- 628 Textile machinery and equipment mechanics and repairers
- 629 Special industry machinery mechanics
- 630 General industry mechanics and repairers
- 631 Powerplant mechanics and repairers
- 632 Ordnance and accessories mechanics and repairers
- 633 Business and commercial machine repairers
- 637 Utilities service mechanics and repairers
- 638 Miscellaneous occupations in machine installation and repair
- 639 Mechanics and machinery repairers, n.e.c.
- 64 **Paperworking occupations**
- 640 Paper cutting, winding, and related occupations
- 641 Folding, creasing, scoring, and gluing occupations
- 649 Paperworking occupations, n.e.c.
- 65 **Printing occupations**
- 650 Typesetters and composers
- 651 Printing press occupations
- 652 Printing machine occupations
- 653 Bookbinding-machine operators and related occupations
- 654 Typesetters and related occupations

- 659 Printing occupations, n.e.c.
- 66 **Wood machining occupations**
- 660 Cabinetmakers
- 661 Patternmakers
- 662 Sanding occupations
- 663 Shearing and shaving occupations
- 664 Turning occupations
- 665 Milling and planing occupations
- 666 Boring occupations
- 667 Sawing occupations
- 669 Wood machining occupations, n.e.c.
- 67 **Occupations in machining stone, clay, glass, and related materials**
- 670 Stonecutters and related occupations
- 673 Abrading occupations
- 674 Turning occupations
- 675 Planing and shaping occupations, n.e.c.
- 676 Boring and punching occupations
- 677 Chipping, cutting, sawing, and related occupations
- 679 Occupations in machining stone, clay, glass, and related materials, n.e.c.
- 68 **Textile occupations**
- 680 Carding, combing, drawing, and related occupations
- 681 Twisting, beaming, warping, and related occupations
- 682 Spinning occupations
- 683 Weavers and related occupations
- 684 Hosiery knitting occupations
- 685 Knitting occupations, except hosiery
- 686 Punching, cutting, forming, and related occupations
- 687 Tufting occupations
- 689 Textile occupations, n.e.c.
- 69 **Machine trades occupations, n.e.c.**
- 690 Plastics, synthetics, rubber, and leather working occupations
- 691 Occupations in fabrication of insulated wire and cable
- 692 Occupations in fabrication of products from assorted materials
- 693 Modelmakers, patternmakers, and related occupations
- 694 Occupations in fabrication of ordnance, ammunition, and related products, n.e.c.
- 699 Miscellaneous machine trades occupations, n.e.c.

BENCHWORK OCCUPATIONS

- 70 **Occupations in fabrication, assembly, and repair of metal products, n.e.c.**
- 700 Occupations in fabrication, assembly, and repair of jewelry, silverware, and related products
- 701 Occupations in fabrication, assembly, and repair of tools, and related products
- 703 Occupations in assembly and repair of sheetmetal products, n.e.c.
- 704 Engravers, etchers, and related occupations
- 705 Filing, grinding, buffing, cleaning, and polishing occupations, n.e.c.
- 706 Metal unit assemblers and adjusters, n.e.c.
- 709 Miscellaneous occupations in fabrication, assembly, and repair of metal products, n.e.c.
- 71 **Occupations in fabrication and repair of scientific, medical, photographic, optical, horological, and related products**
- 710 Occupations in fabrication and repair of instruments for measuring, controlling, and indicating physical characteristics
- 711 Occupations in fabrication and repair of optical instruments
- 712 Occupations in fabrication and repair of surgical, medical, and dental instruments and supplies
- 713 Occupations in fabrication and repair of ophthalmic goods
- 714 Occupations in fabrication and repair of photographic equipment and supplies
- 715 Occupations in fabrication and repair of watches, clocks, and parts
- 716 Occupations in fabrication and repair of engineering and scientific instruments and equipment, n.e.c.

- 719 Occupations in fabrication and repair of scientific and medical apparatus, photographic and optical goods, horological, and related products, n.e.c.
- 72 Occupations in assembly and repair of electrical equipment**
- 720 Occupations in assembly and repair of radio and television receiving sets and phonographs
- 721 Occupations in assembly and repair of motors, generators, and related products
- 722 Occupations in assembly and repair of communications equipment
- 723 Occupations in assembly and repair of electrical appliances and fixtures
- 724 Occupations in winding and assembling coils, magnets, armatures, and related products
- 725 Occupations in assembly of light bulbs and electronic tubes
- 726 Occupations in assembly and repair of electronic components and accessories, n.e.c.
- 727 Occupations in assembly of storage batteries
- 728 Occupations in fabrication of electrical wire and cable
- 729 Occupations in assembly and repair of electrical equipment, n.e.c.
- 73 Occupations in fabrication and repair of products made from assorted materials**
- 730 Occupations in fabrication and repair of musical instruments and parts
- 731 Occupations in fabrication and repair of games and toys
- 732 Occupations in fabrication and repair of sporting goods
- 733 Occupations in fabrication and repair of pens, pencils, and office and artists' materials, n.e.c.
- 734 Occupations in fabrication and repair of notions
- 735 Occupations in fabrication and repair of jewelry, n.e.c.
- 736 Occupations in fabrication and repair of ordnance and accessories
- 737 Occupations in fabrication of ammunition, fireworks, explosives, and related products
- 739 Occupations in fabrication and repair of products made from assorted materials, n. e. c.
- 74 Painting, decorating, and related occupations**
- 740 Painters, brush
- 741 Painters, spray
- 742 Staining, waxing, and related occupations
- 749 Painting, decorating, and related occupations, n.e.c.
- 75 Occupations in fabrication and repair of plastics, synthetics, rubber, and related products**
- 750 Occupations in fabrication and repair of tires, tubes, tire treads, and related products
- 751 Laying out and cutting occupations, n.e.c.
- 752 Fitting, shaping, cementing, finishing, and related occupations, n.e.c.
- 753 Occupations in fabrication and repair of rubber and plastic footwear
- 754 Occupations in fabrication and repair of miscellaneous plastics products
- 759 Occupations in fabrication and repair of plastics, synthetics, rubber, and related products, n.e.c.
- 76 Occupations in fabrication and repair of wood products**
- 760 Bench carpenters and related occupations
- 761 Occupations in laying out, cutting, carving, shaping, and sanding wood products, n.e.c.
- 762 Occupations in assembling wood products, n.e.c.
- 763 Occupations in fabrication and repair of furniture, n.e.c.
- 764 Cooperage occupations
- 769 Occupations in fabrication and repair of wood products, n.e.c.
- 77 Occupations in fabrication and repair of sand, stone, clay, and glass products**
- 770 Occupations in fabrication and repair of jewelry, ornaments, and related products
- 771 Stone cutters and carvers
- 772 Glass blowing, pressing, shaping, and related occupations, n.e.c.
- 773 Occupations in coloring and decorating brick, tile, and related products
- 774 Occupations in fabrication and repair of pottery and porcelain ware
- 775 Grinding, filing, polishing, frosting, etching, cleaning, and related occupations, n.e.c.
- 776 Occupations in fabrication and repair of asbestos and polishing products, abrasives, and related materials
- 777 Modelmakers, patternmakers, moldmakers, and related occupations
- 779 Occupations in fabrication and repair of sand, stone, clay, and glass products, n.e.c.
- 78 Occupations in fabrication and repair of textile, leather, and related products**
- 780 Occupations in upholstering and in fabrication and repair of stuffed furniture, mattresses, and related products
- 781 Laying out, marking, cutting, and punching occupations, n.e.c.
- 782 Hand sewers, menders, embroiders, knitters, and related occupations, n.e.c.
- 783 Fur and leather working occupations
- 784 Occupations in fabrication and repair of hats, caps, gloves, and related products
- 785 Tailors and dressmakers
- 786 Sewing machine operators, garment
- 787 Sewing machine operators, nongarment
- 788 Occupations in fabrication and repair of footwear
- 789 Occupations in fabrication and repair of textile, leather, and related products, n.e.c.
- 79 Bench work occupations, n.e.c.**
- 790 Occupations in preparation of food, tobacco, and related products, n.e.c.
- 794 Occupations in fabrication of paper products, n.e.c.
- 795 Gluing occupations, n.e.c.

STRUCTURAL WORK OCCUPATIONS

- 80 Occupations in metal fabricating, n.e.c.**
- 800 Riveters, n.e.c.
- 801 Fitting, bolting, screwing, and related occupations
- 804 Tinsmiths, coppersmiths, and sheet metal workers
- 805 Boilermakers
- 806 Transportation equipment assemblers and related occupations
- 807 Body workers, transportation equipment
- 809 Miscellaneous occupations in metal fabricating, n.e.c.
- 81 Welders, cutters, and related occupations**
- 810 Arc welders and cutters
- 811 Gas welders
- 812 Resistance welders
- 813 Brazing, braze-welding, and soldering occupations
- 814 Solid state welders
- 815 Electron-beam; electroslag; thermit; induction; and laser-beam welders
- 816 Thermal cutters and arc cutters
- 819 Welders, cutters, and related occupations, n.e.c.
- 82 Electrical assembling, installing, and repairing occupations**
- 820 Occupations in assembly, installation, and repair of generators, motors, accessories, and related powerplant equipment
- 821 Occupations in assembly, installation, and repair of transmission and distribution lines and circuits
- 822 Occupations in assembly, installation, and repair of wire communication, detection and signaling equipment
- 823 Occupations in assembly, installation, and repair of electronic communication, detection, and signaling equipment
- 824 Occupations in assembly, installation, and repair of lighting equipment and building wiring, n.e.c.
- 825 Occupations in assembly, installation, and repair of transportation and materials handling equipment, n.e.c.
- 826 Occupations in assembly, installation, and repair of industrial apparatus, n.e.c.
- 827 Occupations in assembly, installation, and repair of large household appliances and similar commercial and industrial equipment
- 828 Occupations in fabrication, installation, and repair of electrical and electronics products, n.e.c.

- 829 Occupations in installation and repair of electrical products, n.e.c.
- 84 Painting, plastering, waterproofing, cementing, and related occupations**
- 840 Construction and maintenance painters and related occupations
- 841 Paperhangers
- 842 Plasterers and related occupations
- 843 Waterproofing and related occupations
- 844 Cement and concrete finishing and related occupations
- 845 Transportation equipment painters and related occupations
- 849 Painting, plastering, waterproofing, cementing, and related occupations, n.e.c.
- 85 Excavating, grading, paving, and related occupations**
- 850 Excavating, grading, and related occupations
- 851 Drainage and related occupations
- 853 Paving occupations, asphalt and concrete
- 859 Excavating, grading, paving, and related occupations, n.e.c.
- 86 Construction occupations, n.e.c.**
- 860 Carpenters and related occupations
- 861 Brick and stone masons and tile setters
- 862 Plumbers, gas fitters, steam fitters, and related occupations
- 863 Asbestos and insulation workers
- 864 Floor laying and finishing occupations
- 865 Glaziers and related occupations
- 866 Roofers and related occupations
- 869 Miscellaneous construction occupations, n.e.c.
- 89 Structural work occupations, n.e.c.**
- 891 Occupations in structural maintenance, n.e.c.
- 899 Miscellaneous structural work occupations, n.e.c.
- 953 Occupations in production and distribution of gas
- 954 Occupations in filtration, purification, and distribution of water
- 955 Occupations in disposal of refuse and sewage
- 956 Occupations in distribution of steam
- 959 Occupations in production and distribution of utilities, n.e.c.
- 96 Amusement, recreation, motion picture, radio and television occupations, n.e.c.**
- 960 Motion picture projectionists
- 961 Models, stand-ins, and extras, n.e.c.
- 962 Occupations in motion picture, television, and theatrical productions, n.e.c.
- 969 Miscellaneous amusement and recreation occupations, n.e.c.
- 97 Occupations in graphic art work**
- 970 Art work occupations, brush, spray, or pen
- 971 Photoengraving occupations
- 972 Lithographers and related occupations
- 973 Hand compositors, typesetters, and related occupations
- 974 Electrotypers, stereotypers, and related occupations
- 976 Darkroom occupations, n.e.c.
- 977 Bookbinders and related occupations
- 979 Occupations in graphic art work, n.e.c.

MISCELLANEOUS OCCUPATIONS

- 90 Motor freight occupations**
- 900 Concrete-mixing-truck drivers
- 902 Dump-truck drivers
- 903 Truck drivers, inflammables
- 904 Trailer-truck drivers
- 905 Truck drivers, heavy
- 906 Truck drivers, light
- 909 Motor freight occupations, n.e.c.
- 91 Transportation occupations, n.e.c.**
- 910 Railroad transportation occupations
- 911 Water transportation occupations
- 912 Air transportation occupations
- 913 Passenger transportation occupations, n.e.c.
- 914 Pumping and pipeline transportation occupations
- 915 Attendants and servicers, parking lots and automotive service facilities
- 919 Miscellaneous transportation occupations, n.e.c.
- 92 Packaging and materials handling occupations**
- 920 Packaging occupations
- 921 Hoisting and conveying occupations
- 922 Occupations in moving and storing materials and products, n.e.c.
- 929 Packaging and materials handling occupations, n.e.c.
- 93 Occupations in extraction of minerals**
- 930 Earth boring, drilling, cutting, and related occupations
- 931 Blasting occupations
- 932 Loading and conveying operations
- 933 Crushing occupations
- 934 Screening and related occupations
- 939 Occupations in extraction of minerals, n.e.c.
- 95 Occupations in production and distribution of utilities**
- 950 Stationary engineers
- 951 Firers and related occupations
- 952 Occupations in generation, transmission, and distribution of electric light and power

**MINNESOTA
PERMANENT MASS LAYOFF AND PLANT CLOSING Project**

Appendix B

SUMMARY OF MINNESOTA COVERED EMPLOYMENT BY SIZE CLASS OF FIRM
March 1987

***** NUMBER OF ESTABLISHMENTS *****

Size of Firm	State of Minnesota		Twin Cities Met Area		Twin Cities as a Percent of Total State
	Number of Establishments	Percent of Total	Number of Establishments	Percent of Total	
0	12,578	11.4%	5,972	10.3%	47.5%
1-4	47,190	42.8%	23,378	40.2%	49.5%
5-9	21,359	19.4%	11,381	19.6%	53.3%
10-19	13,646	12.4%	7,723	13.3%	56.6%
20-49	8,996	8.2%	5,540	9.5%	61.6%
Total Number of Firms with less than 50 Employees	103,769	94.2%	53,994	92.8%	52.0%
50-99	3,473	3.2%	2,256	3.9%	65.0%
100-249	2,051	1.9%	1,321	2.3%	64.4%
250-499	540	0.5%	383	0.7%	70.9%
500-999	210	0.2%	143	0.2%	68.1%
1000 +	118	0.1%	85	0.1%	72.0%
Total Number of Firms with 50 or more employees	6,392	5.8%	4,188	7.2%	65.5%
TOTAL NUMBER OF FIRMS	110,161	100.0%	58,182	100.0%	52.8%

***** EMPLOYMENT *****

Size of Firm	State of Minnesota		Twin Cities Met Area		Twin Cities as a Percent of Total State
	Number of Employees	Percent of Total	Number of Employees	Percent of Total	
0	0	0.0%	0	0.0%	
1-4	100,427	5.4%	49,786	4.2%	49.6%
5-9	140,965	7.6%	75,437	6.3%	53.5%
10-19	183,346	9.9%	104,110	8.7%	56.8%
20-49	274,406	14.8%	169,837	14.2%	61.9%
Total Employment at Firms with less than 50 Employees. . .	699,144	37.8%	399,170	33.4%	57.1%
50-99	238,677	12.9%	154,141	12.9%	64.6%
100-249	307,611	16.6%	198,480	16.6%	64.5%
250-499	185,493	10.0%	132,287	11.1%	71.3%
500-999	144,099	7.8%	99,937	8.4%	69.4%
1000 +	276,461	14.9%	212,460	17.8%	76.8%
Total Employment at Firms with 50 or more employees. . .	1,152,341	62.2%	797,305	66.6%	69.2%
TOTAL EMPLOYMENT	1,851,485	100.0%	1,196,475	100.0%	64.6%

Note: Many of the firms reporting zero employment during March are in Construction or Agricultural Services, particularly Lawn Care.