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### Staff Papers Series

P79-37

October 1979

REGIONAL ECONOMIC FORECASTS FOR WATER AND LAND RESOURCES PLANNING.

II. FORECAST SERIES: MINNESOTA

Wilbur R. Maki



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#### ACKNOWLEDGEMENT

This report is the sixth in the series on economic forecasts and forecast methods. The focus of this research is on economic forecasts and forecast methods for water and land resources planning in Minnesota. Funding for the research was provided by the Minnesota Energy Agency while financial support of the Minnesota Agricultural Experiment Station made possible the compilation and assessment of the statistical series needed in the study.

#### **ABSTRACT**

Forecasts of employment, earnings, income and population are presented for the 13 substate development regions of Minnesota. Estimated 1970 and 1975 levels of the selected economic indicators are compared with their projected levels from 1980 to 2000. The forecast series is related to the 1972 OBERS-E series prepared by the Office of Business Economics, U.S. Department of Commerce for the U.S. Water Resources Council. This series differs, however, from the OBERS-E series because of lower projected population and employment for Minnesota. A shift-and-share technique is used in the preparation of this series.

#### SUMMARY AND CONCLUSIONS

Employment, earnings and income forecasts were prepared for the 13 substate regions in Minnesota for the 50-year period from 1970 to 2020. This series, while linked to both the U.S. Department of Commerce Regional Economic Information Ssytem estimates and the U.S. Water Resources Council OBERS-E projections, has heretofore not been available for water and land resources planning purposes in Minnesota and its substate regions. One important contribution of this series is, therefore, to make available several basic economic forecasts for a 25-industry breakdown of the total economy which are internally consistent and adjusted to the published State population projections currently used in long-term planning in the State.

These projections show Minnesota and its substate regions, especially those outside the Minneapolis-St. Paul area, gaining in their rates of increase in employment, earnings and income. The more rapid expansion of employment in the non-metropolitan regions is especially evident in selected manufacturing, trade and service industries.

Additional study of industry trends and the related dynamics of regional growth and decline is needed, however, to fully account for recent shifts in regional employment levels. These shifts in historical employment trends and relationships result from many factors, including the increasing scarcity and cost of essential energy resources, the declining productivity of the employed work force, the increasing rate of participation of the total population in the labor force and the continuing low birth rates. Thus, while the detailed forecasts provide a new data base for water and land resource planning in Minnesota, they

must be used with caution and concern as to the validity of their underlying assumptions. Much attention is devoted in this report to the underlying economic trends and assumptions which are part of the forecast method and data base.

## REGIONAL ECONOMIC FORECASTS FOR WATER AND LAND RESOURCES PLANNING II. FORECAST SERIES: MINNESOTA $\frac{1}{}$

Wilbur R. Maki  $\frac{2}{}$ 

State and substate regional economic forecasts for water and land resources planning are presented in this report. The forecast methods used in the preparation of the forecast series presented here were discussed in Part I of the two-part report. In Part II, emplopment, earnings and income forecasts are presented for Minnesota and its 13 substate development regions. The forecast series are linked to the OBERS-E Projections for the U.S. Water Resources Council and the current Minnesota population and labor force projections prepared by the Minnesota State Demographer (13). 3/

#### Study Objectives

The primary study purpose was to develop a baseline economic projection series for Minnesota and its 13 substate development regions which relate the Stae and each substate region to corresponding U.S.

This is the sixth in a series of reports on regional (forecasting, the first being the Interim Report on Forecast Methods prepared for the Minnesota Energy Agency, October 1978. Four of the earlier reports were published under the Staff Paper Series of the Department of Agricultural & Applied Economics, University of Minnesota.

The author gratefully acknowledges the contributions of Mason Chen in developing the forecast method and of both Mason Chen and Pornsak Chitphakdithai in preparing the data series cited or used in this report.

 $<sup>\</sup>frac{3}{}$  See Part I, p. 34 for References Cited of this report.

projection series.  $\frac{4}{}$  A 25-industry breakdown of employment and earnings was derived for each region for the 30-year period from 1970 to 2000.

The study purpose was implemented under three specific objectives which are to forecast:

- (1) the employed industry work force in each region;
- (2) the total earnings of the employed work force in each industry and region, and
- (3) the total income of the resident population in each region. The 25-industry breakdown of the Minnesota economy is derived from the employment and income series presented in the two reports cited earlier (9,13). The 13 substate regions also are shown in the earlier reports and in Part I of this report.

The study objectives are intended to provide a general-purpose economic data base for land and water resources planning. This data base links county-level employment, earnings and income data series to state and national forecast series, such as the OBERS-E earnings projections. Also, in Part II, the Minnesota forecast series is used in identifying sources of economic change in Minnesota and its 13 substate regions and showing the importance of each source in accounting for the total economic change — estimated and projected.

#### Study Approach

The study approach is determined by the study purpose and the available statistical series. A 25-industry breakdown of total employment

Earlier reports in this series covered this objective (see, ref. 9,13). However, the earlier reports focused on the building of consistent employment and income projection series with reference to alternate methods for reporting employment. In this report, one of the reporting methods was used in preparing an expanded 25-industry breakdown of the state and substate employment and income data series.

and earnings was specified, first, because of the initial dependence of the forecast method on the OBERS projections, which, for sub-national economic areas and water resources subareas, provided data for no more than a 25-industry breakdown. Second, the shift-and-share forecast method was used because of the large data base which already provided many of the needed forecasts. This forecast method provides a technically appropriate procedure for allocating a portion of a given area forecast to each of its subareas.

A four-step approach was used in the preparation of the forecast series. An expanded shift-and-share forecast model was built for allocating the sub-national OBERS-E earnings projections to individual counties in each area and then deriving the corresponding industry employment projection series, given the projected earnings per worker for each industry in each county. To obtain the county level figure, the 1970 and 1975 employment and earnings estimates were used, but the corresponding average earnings projections for these counties were derived by applying U.S. growth rates, by industry, to each county estimate. Total personal income for the 1975-2000 period was derived sub-sequently, from the employment and earnings projections and the specified county-level population projections (5,9,13).5/

The data presentation in Part II of this report follows the plan of approach. First, the soucres of economic change for Minnesota and its

Further discussion of this procedure may be found in Part I of this report. See: Wilbur R. Maki, Regional Economic Forecasts for Water and Land Resources Planning. I: Forecast System. Staff Paper Series P79-33, Department of Agricultural and Applied Economics, University of Minnesota, St. Paul, Minnesota, August 1979.

13 substate regions are discussed in the context of the shift-and-share forecast method. Next, the 25-industry employment series is presented, followed by the corresponding earnings series for the employed work force and the total personal income series. Finally, some implications of the trends and assumption of the state and substate forecast series for water and land resources planning in Minnesota are discussed.

#### EMPLOYMENT CHANGE SOURCES

For the Minnesota economy, employment change sources are largely external to the State. These external sources include general economic conditions as manifested, for example, by growth in total U.S. employment, earnings, and income. They include, also, specific industry shifts in demand and output and, also, employment and earnings.

The internal sources of employment change are manifested in the competitive position of Minnesota-based industries. This competitive position is measured by the relative (to U.S.) change in employment and earnings in each industry in the State.

#### Total Employment Change

Total employment change in each industry in Minnesota is shown for the historical period, 1970 to 1975, and the forecast period, 1975 to 2000 in Table 2.1. For all industries, total employment increased by 199,870 in the 1970-1975 period and it is projected to increase by 496,668 in the 1975-2000 period. Thus, the estimated annual increase of 2.4 percent in the 1970-1975 period is nearly two and one-half times the projected 1.0 percent annual increase in the 1975-2000 period.

During the 1970-1975 period, an increase of 207,310 in total employment was estimated for the seven growing industries. For the 18 declining industries, a total employment decrease of 7,440 was estimated. In comparison, for the 18 growing industries in the 1975-2000 period, an increase of 607,656 in total employment was projected, while a decrease of 110,388 in total employment was projected for the seven declining industries. Thus, projected industry-to-industry differences in growth patterns are reversed from the corresponding historical patterns. Also,

ESTIMATED AND PROJECTED EMPLOYED MORKED FORCE IN SPECIFIED INDUSTRY, MINNESOTA, BY TYPE OF CHANGE, 1970-2000. TABLE 2.1.

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annual rates of growth and decline are less divergent in the 1975-2000 period than in the 1970-1975 period. For the U.S., the estimated annual growth rate of 1.3 percent for the 1970-1975 period is only one-half of the Minnesota rate, but the 1.2 percent rate for the 1975-2000 period is one-fifth higher than the corresponding rate for Minnesota.

The differential employment growth rates for Minnesota and the U.S. are explained by the two relative change components in Table 2.1, namely, industry mix and regional share. The more rapid employment growth in Minnesota than in the U.S. in the 1970-1975 period is accounted for by the positive relative-change effects in the 1970-1975 period and the negative relative-change effects in the 1975-2000 period. The industry employment effects of the two relative-change sources are discussed in this chapter. First, however, the role of the national-growth effect on industry employment in Minnesota is assessed.

#### External Change Sources

The national-growth effect is the first of the two external employment change sources. The second -- the industry-mix effect -- accounts for the contrasting regional rates of growth because of regional differences in the industry composition of total employment. The total Minnesota employment effect of the two employment change sources as shown in Table 2.2, are attributed to external economic forces. This combined effect is sometimes called a proportional effect, as in Table 2.3, that is, the effect on Minnesota industry employment of a change in specified Minnesota industry employment if it were to change at the U.S. annual rate for that industry.

			INDUSTRY-MIX	COEFFI	<b>Z</b> .			EGIONAL-S	HARE COEFF!	ICIENT		ı
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21	FIN., INS., REAL	• 06734	•00846	.05305	379	833	51	152	052	42	027	
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TABLE

#### National Growth

The national-growth effects for Minnesota industry and the corresponding national growth coefficients and annual rates of change for the 1970-2000 period are as follows:  $\frac{6}{}$ 

	N	Mational Growth Ef	fect
Period	Total	Coefficient (pct.)	Annual Rate of Change (pct.)
Estimated:			<b>1</b>
1970-1975	103,837	6.417	1.252
Projected:			
1975-1980	244,758	13.463	1.558
1980-1985	97,772	5.002	0.981
1985-1990	94,651	4.625	0.908
1990-2000	174,921	8.189	0.790
Total or Average	612,102	33.670	1.150

During the 1970-1975 period the national-growth effect accounted for 103,837, or 52 percent of the total employment change of 199,870.

The annual growth in total U.S. employment is projected to increase sharply in the 1975-1980 period from the relatively low employment level in 1975. In the following three period, however, the U.S. rate is projected to decline and, hence, the period-to-period increases in total Minnesota employment also are projected to decline. Thus, for Minnesota, the projected increase in total employment of 361,106 for the entire 1980-2000 period is only 50 percent higher than the projected increase of 240,585 for the 1975-1980 period.

and the national-growth effect is given by the form,
Aempr,

 $<sup>\</sup>underline{6}$ / The national-growth coefficient, A, is given by the form,

 $<sup>\</sup>frac{\text{EMPN'}}{\text{EMPN}}$  -1,

where,

empr = base-year total employment in region;

EMPN = base-year total employment in nation;

EMPN' = forecast-year total employment in nation.

Industry Mix

The total Minnesota industry-mix effects and related statistics for the 1970-2000 period are as follows:  $\frac{7}{}$ 

	Industry		Proporti	ional Effect
_		Annual Rate		Annual Rate
<u>Period</u>	<u>Total</u>	of Change	<u>Total</u>	of Change
	(no.)	·(pct.)	(no.)	(pct.)
Estimated:				
1970-1975	25,876	0.318	129,713	1.554
Projected:				
1975-1980	-66,071	-0.720	17 <b>8,6</b> 87	1.866
1980-1985	-2 <del>,</del> 005	-0.006	95 <b>,</b> 767	0.959
1985-1990	-3,148	-0.017	91 <b>,5</b> 03	0.877
1990-2000	-2,901	-0.001	172,020	0.776
Total or Ave.	-74 <b>,</b> 125	-0.129	534,665	1.037

For the 1970-1975 period, the industry-mix effect accounted for a total employment change of 25,876, or 13 percent, of the total Minnesota employment levels.

Total employment growth in the 1975-2000 period is expected to lag behind U.S. growth rates due to the adverse industry-mix effects. Total employment would decline by 74,125-- an annual rate of -0.129 -- from this effect alone.

$$\frac{\text{EMP'}_{i}}{\text{EMP}_{i}} - \frac{\text{EMPN'}_{i}}{\text{EMPN}_{B}} \quad \text{and} \quad \frac{\text{EMP'}_{i}}{\text{EMP}} \quad ,$$

respectively, and the industry-mix and proportional effects are given by the forms,

$$B_{i}emp_{i}$$
 and  $P_{i}emp_{i}$ ,

for each industry.

The industry-mix coefficient,  $B_i$ , and the proportional coefficient,  $P_i$ , are given by the forms,

The large negative industry-mix effect in the 1975-1980 period results, in part, from an implicit redefinition of agricultural employment. Much of the part-time agricultural employment reported in 1970 and 1975 is not included in the post-1975 projections. In the 1980-2000 period, the large negative industry-mix effects are largely due to the importance of food products, manufacturing and trade in Minnesota in the two industries with large negative industry-mix coefficients.

#### Internal Change Sources

Internal sources of employment change are capsuled within the regional-share coefficient and the regional-share effect.  $\frac{8}{}$  The total Minnesota regional-share effects, and the annual rates of change in total Minnesota employment due to these effects, are projected as follows:

Period	<u>Total</u>	Annual Rate of Change
	(no.)	(pct.)
Estimated:		
1970-1975	70,157	0.852
Projected:		
1975-1980	-41,806	-0.435
1980-1985	<b>-3,</b> 910	-0.038
1985-1990	-2,136	-0.019
1990-2000	6,553	0.032
Total or Ave.	-41,299	-0.105

 $<sup>\</sup>frac{8}{}$  The regional-share coefficient is given by the form,

$$\frac{\text{emp'}_{i}}{\text{emp}_{i}} - \frac{\text{EMP'}_{i}}{\text{EMP}_{i}}$$

and the regional-share effect is given by the form,

Thus, the large positive total regional-share effect in the 1970-1075 period accounted for 70,157, or 35 percent, of the total Minnesota employment change.

A reversal in the total regional-share effect from net positive to a net negative effect is expected during the 1975-2000 period. 9/ In the 1975-1980 period, most of the negative effect is attributed to the lower anticipated rates of employment increase in printing and publishing, trade and services relative to U.S. growth rates. In the 1980-2000 period, construction, food products manufacturing, transportation, communications and utilities services and state and local government account for much of the reduced rate of projected employment growth in Minnesota. Two of the three industries -- foods products manufacturing and transportation, communication and utilities -- also are among the below-average growth industries in the nation as a whole.

In summary, much of the reduced rate of Minnesota employment growth projected for the 25-year period from 1975 to 2000 is attributed to the large negative industry-mix and regional-share effects projected for the 1975-1980 period. These two effects for the 1975-1980 period total to -107,877, or 93.5 percent of the total relative-change effect of -115,434 for the 1975-2000 period. Since, the negative industry-mix effect of -154,233 for agriculture alone is much larger than this total, the projected decline in the rate of employment growth in Minnesota can be attributed

Use of the four-period breakdown of the 1970 to 2000 forecasts yields a derived total regional-share effect which differs from the derived total regional-share effect for the one-period breakdown (see, Tables 2.1 and 2.3). This difference, like the differences in the derivation of the national-growth and industry-mix effects, are due entirely to the use of two different time period breakdowns in deriving the employment-change effects.

entirely to the projected adverse industry-mix effect in agriculture. However, a large part of this adverse effect is due to an implicit redefinition of agricultural employment in the projection period, which, because of the proportionately larger agricultural employment in Minnesota than in the U.S. as a whole, reduces the Minnesota total employment-growth rate more than the corresponding U.S. growth rate.

#### Substate Distribution of Employment Change

The substate regional distribution of employment change is clearly affected by the industry-mix and the regional-share effects (Table 2.4). In the 1970-1975 period, a negative total industry-mix effect was combined with a negative total regional-share effect to sharply reduce the rate of total employment growth in the Metropolitan Council. Thus, while 54.8 percent of the Minnesota work force was employed in the Metropolitan Council Region in 1970, this region accounted for only 34.5 percent of the State's total employment change in the 1970-1975 period. However, in the 1975-2000 period, a large positive total industry-mix effect and a small negative total regional-share effect are projected, while for the rest of State large negative effects are projected from both employment change sources.

The four-period breakdown of the projected employment changes in the 13 substate regions shows large positive proportional effects for the Metropolitan Council Region for each of the four periods (Table 2.5). The largest positive proportional effect is projected for the first of the four period for both the Metropolitan Council Region and the State while negative proportional effects are projected for four of the 13 regions. The large positive effect is due, in part, to the negative Metropolitan

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TABLE 2.4. ESTIMATED AND PROJECTED EMPLOYED JORKED FORCE IN SPECIFIED REGION, IN MINNESOTA, BY TYPE OF CHANGE, 1970-2000.

			n	CHANGE 197	1970-1975				CHANGE 1975-2000	-2000		
REGION	S	ESTIMATED		RELATIVE	CHANGE	             	ESTIMATED	- ; ; ; ;	RELATIVE STANGE	SHANGE	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	PROJECTED
NOTITLE	TLE	1970	NATIONAL GROWTH	INDUSTRY MIX	REGIONAL	TOTAL	1975	NATIONAL GROWTH	INDUSTRY	REGIONAL	TOTAL	2000
			; 1 1 1 1 1 1 1 1	11 11 11 11 11 11 11	10 11 11 11 11 11 11	( NUMBER	R )	() () () () () () () () () () () () () (	H : H : H : H : H : H : H : H : H : H :	H H H H H H H H H H H H H H H H H H H	: 16 10 11 11 11 11 11 11	: II : II II II II II II II
		٠					i					1
, 1 NOR	NORTHWEST	39293	+854.	591	2512.	7957.	47250.	12909.	-11658.	1157.	2418.	49558.
2 HEA	HEADWATERS	17223.	2127.	318.	1404.	3850.	21073.	5757.	-1547.	3095.	7305.	283
3 ARR	ARROWHEAD	123220.	15220.	-2790.	235.	12666.	135886.	37124.	-928.	-18535	17541.	153427.
4 WES	WEST CENTR	66525.	8217.	1269.	4744.	14231.	80756.	22063.	-12712.	253	9604.	90360
5 REG	REGION FIV	38333.	4735.	528.	1084.	6347.	. 08944	12207.	-4136.	2671	10742	ភ្ជា ម
6 UPP	UPPER MINN	40044.	.9464	63.	4497.	9507.	43551.	13537.	-4744.	3852	12645.	621
7. SIX	SIX EAST R	23828.	2943.	460.	1319.	4722.	28550.	7800.	-5935	-4815	-2950	25600
8 EAS	EAST CENTR	25150.	3107.	. 161	2213.	5320.	30970.	8461.	-3164.	19280.	24578.	5554
_	CENTRAL MI	58494.	7225.	308.	7417.	14951.	73445.	20065.	-3503.	23241.	39804.	1132
	SOUTHWEST	53496.	6608.	964.	3494.	11066.	64562.	17638.	-12447.	-6352.	-1161.	63401
LI REG	REGION NIN	86728.	10713.	209.	5951.	16873.	103601.	28304.	-10144.	-1711.	16448.	120049
12 SOU	SOUTHEASTE	158208.	19542.	.864	3977.	24017.	182225.	49784.	-10510.	2039.	41373.	223598
L3 MET	METROPOLIL	887429.	109617.	-3886.	-35757.	68965	955394.	261288.	81655	-25606.	317337.	1273731
0 101	TOTAL	1618088.	103837.	25876.	70157.	199870.	1817958.	633655.	-87079.	-49908.	496668.	2314626

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Table 2.5. Projected total employment change in specified region, by employment change effect and period, 1975-2000.

Region	u	Propo	Proportional Effect	ct				Regional-	Regional-Share Effect			
No.	Title	1975-1980	1980-1985	1985-1990	1990-2000	Total	1975-1980	1980-1985	1985-1990	1990-2000	Total	
						(number	(	. •				
1:	Northwest	-2,457	99	771	1,787	164	575	846	288	244	2,253	
2.	Headwaters	654	848	841	1,776	4,119	-673	912	591	2,254	3,185	
3.	Arrowhead	12,525	6,674	5,547	11,248	35,995	-5,665	-3,738	-3,529	-5,522	-18,454	
4.	West Central	-478	1,168	1,914	4,530	7,133	-3,495	2,085	076	2,940	2,471	
5.	Region Five	1,213	2,312	2,028	4,086	9,639	-1,190	264	381	1,647	1,102	
6E.	Six East	2,129	1,854	1,796	4,000	9,779	-1,033	918	905	2,075	2,865	
•м9	Upper Minn. Valley	-918	-10	363	1,066	200	-1,577	-10	-432	-1,433	-3,451	
7E.	East Central	582	1,662	1,533	3,399	7,176	2,165	2,995	3,477	8,765	17,402	
7W.	Central Minnesota	3,668	4,078	3,926	8,143	19,815	1,919	3,643	4,605	9,821	19,988	
∞.	Southwest	-1,378	1,457	1,757	3,776	5,612	811	-1,121	-1,876	-4,587	-6,773	
9.	Region Nine	3,248	1,979	2,634	6,344	14,245	-6,340	3,362	1,838	3,342	2,203	
10.	Southeastern	9,854	989,9	7,011	14,346	37,898	-7,099	3,493	2,157	4,914	3,474	
11.	Metro. Council	109,930	63,063	59,235	114,032	346,261	18,939	-13,652	-9,456	-24,763	-28,932	
	Total	178,687	95,767	91,503	172,020	537,977	-41,806	-3,910	-2,136	6,553	-41,299	

Council Region industry-mix effect in the 1970-1975 period and the accompanying low total employment growth rate for this region. Therefore, the 1975-1980 total employment change is larger than expected, given the relatively low total employment in 1975.

Conversely, the relatively high 1975 total employment levels in the remaining 12 regions accounts, in part, for the low proportional effects for these regions in 1975-1980 period. This dichotomy in the projection series is apparant, also, in the derived 1975-1980 regional—share effects for these 12 regions. Negative total regional—share effects were derived for eight substate regions for the first projection period. In later periods, however, negative total regional—share effects were derived for the Metropolitan Council Region, which again points to the possibility that the forecast assumptions may attribute a larger share of total population and employment growth to the Metropolitan Council Region than warranted by recent events.

#### EMPLOYMENT FORECASTS

Employment forecasts were prepared for the State and the 13 substate regions from two sets of assumptions. First, the U.S. Department of Commerce Regional Economic Information System and the OBERS-E projection series were used to establish a U.S. data base for deriving the national-growth and industry-mix coefficients in the forecast system (26,27). Second, the substate regional population projection series prepared by the State Demographer were used to establish projected total employment levels for each substate region (9,13). Both sets of assumptions are discussed and compared with recent trends and alternate employment projection series.

#### Trends and Assumptions

The Regional Economic Information System (REIS) is updated annually from records of the cooperative federal-state Unemployment Insurance Program and other sources, including the individual state agencies involved in collecting and reporting employment statistics. This series differs from the U.S. Bureau of Labor Statistics most recent projection (1,2,16,17,20,21) and, also, the U.S. Department of Commerce current projection series (25). Hence, some differences are observed between this employment series, which is linked to the REIS employment estimates, and the U.S. Bureau of Labor Statistics and the U.S. Department of Commerce employment projections.

The U.S. employment series used in the shift-and-share forecast method is presented, in part, in Table 2.6 of Part I of this report.

The employment estimates for 1970 and 1975 are taken directly from the REIS data base while the employment projections for 1980, 1985, 1990 and

2000 are derived from hte OBERS-E earnings projections and related earnings per worker projections.  $\frac{10}{}$  The initial OBERS-based series is adjusted as indicated in the footnotes to Table 2.6.

Trends in the total U.S. employed work force, and its distribution among industry groups, are compared in Table 3.1 for the two employment series presented earlier in Part I of this report. Aside from differences in the levels of total employment in two employment series, the comparisons show large differences in the distribution of the total employment among major industry groups. The largest differences occur in agriculture, trade, services, and government with the OBERS-based projections being high for agriculture and government and low for trade and services. The annual rates of change also differ for the two series.

The OBERS-based employment projections are derived from the OBERS-E earnings projections series with later adjustments made of the projected employment in agriculture, mining, services and federal, state and local government. The BLS baseline series is the more recently prepared, and, hence, it incorporates the most recent shifts from public into private employment, particularly into the trade adn service industries.

Differences in the 1975 and 1977 industry distribution of the employed work force occur because of the differential responses of individual industries to recovery from the 1975 recession. Also, differences occur in the definition and classification of the employed work force in several industry groups, namely, agriculture and the three governmental groups. Except for these four industry groups, the 1980

 $<sup>\</sup>frac{10}{}$  The earnings per worker projection series is discussed in the second of the six reports in this series (see, ref. 9).

Table 3.1. Proportion of total employment and annual rate of change of specified industry employed work force, OBERS-based and BLS baseline projections, U.S., 1975-1990,

	BLS Baseline <sub>2</sub> / Projections 2/	1980-1990		-0.816	0.687	1.229	1.062	0.828	1.601	2.341	1.128	0.667	0.893	0.000	1.505
ange	BLS	1977-1980		0.893	4.942	2.877	2.687	2.500	3.752	3.818	4.401	0.501	1.720	-0.692	2.994
Annual Rate of Change	OBERS-Based $\frac{1}{1}$ .	1980-1990		-2.335	099	0.899	0.455	0.551	0.703	1.860	2.162	0.839	1.162	000.0	0.947
Annua	OBER	1975-1980		-0.769	2.523	3.049	3,386	2.433	1,820	2.712	1.622	0.291	3.120	-0.414	2,221
I	1 ons 2/	1990		2.556	0.900	4.823	20.039	4.748	22.957	5.618	23.191	1.930	11.476	1.753	100.000
	MIS Baseline Profections	1980	(percent)	3,221	0.976	4.956	20.934	5.076	22.750	5.176	20.587	2.097	12.192	2.035	100.000
orce	RIS Rase	1977		3.426	0.923	4.973	21.121	5.150	. 22,255	5.203	19.766	2.257	12.656	2.270	100.000
Total Work Force	1-1	1990		3.182	0.806	4.909	20.112	4.967	20.589	5.629	21.594	2.794	14.029	1.389	100.000
Proportion of Total	OBFRS_Based Projection	1980		4.429	0.877	4.932	21.118	5.166	21.092	5.144	19,159	2.824	13.733	1.527	100.000
Pr	ORFRG-Ras	1975		5.137	0.864	4.679	19,955	5.152	21.510	5.023	19.730	3.106	13.145	1.739	100.000
	T = 4:00	No. Title		l. Agriculture	2. Mining	3. Construction	4. Manufacturing	5. Trans., comm., util.	6. Trade	7. Fin. ins. real est.	8. Services	9. Fed. government	10. State & local govt.		Total or Average

 $^{1/}$  Based on industry employed work force in Table 2.6, Part I of this report.

 $<sup>\</sup>underline{2}$ / Based on industry employed work force in Table 2.7, Part I of this report.

and 1990 relative employment levels for the two series compare closely.

The annual rates of change in industry employment differ more sharply than the 11-industry distribution of the total employed work force. The differences in annual rates occur largely because of the projected difference in the total employed labor force. The BLS base-line projections show 1980 and 1990 total employment levels which are 99.4 percent and 105.1 percent, respectively, of the corresponding levels for the OBERS-based projections.

Differences in the 11-industry employment series are summarized by the ratio of the BLS baseline projections to the OBERS-based projections as follows:

Industry	1977/75	1988	1990
		(percent	t)
Agricultura	67.7	72.4	84.4
Agriculture		,	•
Mining	108.5	112.7	117.4
Construction	107.9	99.9	103.2
Manufacturing	107.5	98.6	109.5
Tran., comm., util.	102.3	97.7	100.4
Trade	105.1	107.2	117.2
Fin., ins., real est.	105.2	100.0	104.9
Services	101.8	106.8	112.8
Federal govern.	73.8	73.9	72.6
State & local govern.	97.8	88.3	85.9
Military	132.6	132.6	132.6
Total	101.6	99.4	105.1

The summary data show that differences in industry definitions persist over the 15-year period, as in agriculture (in part), federal government and military, while differences in the underlying assumptions account for the changing relationships in the two series, as in agriculture (in part), mining, trade, services and state and local government. The Minnesota projections are evaluated with reference to both sets of U.S. projections.

Comparable data for the 15 manufacturing industries in Table 3.2 lack the large differences present in the comparison of the 11 major industry employment levels and trends. The 1975 to 1977 differences result largely from differences in general economic conditions and the upturn in total manufacturing from the 1975 recession. The 1980 projected totals are almost alike, but the 1990 projected totals differ significantly. Almost 10 percent more total manufacturing employment is indicated in the BLS baseline projections than in the OBERS-based projections. The industry distribution of total manufacturing employment differs even more in the two series. Large differences (of 8 percent or more in 1990) occur for specified manufacturing industries, as follows:

Industry	1977/75	<u>1980</u> (percent)	1990
Textile prod.	112.9	101.3	124.6
Appare1	103.9	111.8	115.1
Lumber & furn.	118.6	105.0	122.8
Paper products	99.0	88.4	92.0
Petroleum rel.	110.0	87.6	87.4
Mach., exc. elec.	106.5	97.0	110.5
Motor veh.	122.8	77.1	88.9

These differences in total industry employment are related, in part, to anticipated shifts in export trade, availability of raw materials, and domestic demand.

#### Statewide Forecasts

The OBERS-based Minnesota employment series is summarized for the 1970-2000 period in Table 3.3. This series is constructed from the OBERS-E projections cited earlier, adjusted to the current series of Minnesota county population projections. This series is comparable with

Table 3.2. Proportion of total manufacturing employment and annual rate of change of specified manufacturing industry employed work force, OBERS-Based and BLS baseline projections, U.S., 1975-1990.

	15.	14.	13.	12.	;- ::	10.	9.		7.	6.	5.	4.	<b>ω</b>	2.	<del></del>		No.	Indu	
Total or Average	Misc. mfg.	Trans., eq. exc. mot.	Motor veh.	Elect. mach.	Mach., exc. elec.	Fabr. metals	Primary metals	Petroleum prod.	Chemicals	Print. & publ.	Paper products	Lumber & furn.	Apparel	Textile products	Food products		Title	Industry	
100.000	13.707	4.990	4.290	9.286	11.253	7.969	6.241	1.029	5.586	5.900	3.505	5.667	6.783	4.735	9.058		1975		
100.000	11.977	5.353	5.981	10.206	11.660	8.247	6.353	0.995	5.908	5.569	3.752	5.587	5.858	4.527	8.027		1980	OBERS-Based Projections	Proporti
100.000	12.772	4.931	5.702	11,115	11.983	8.714	5.777	0.903	6.112	6,031	3,822	5,190	5,930	3,761	7,250		1990	s 1/	on of Total
100.000	13.344	4.631	4.500	.781	11.142	8.199	6.077	1.053	5.357	5.750	3.528	6.254	6.556	4.974	8.854		1977		Proportion of Total Manufacturing
100.000	13.171	4.933	4.682	10.202	11.477	8.424	6.194	0.884	5.166	5.892	3.365	5.982	6.648	4.654	8.359	(þe	1980	BLS Baseline <sub>2</sub> Projections	ng
100.000	12.704	4.987	4.840	10.594	12.450	8.589	5.686	0.754	5.674	5.506	3.358	6.088	6.578	4.476	7.516	(percent)	1990	2/	
3.386	0.632	4.849	10.487	5.357	4.123	4.096	3.753	2.693	4.552	2.197	4.802	3.092	0.396	2.462	0.916		1975-1980	OBE Pro	
0.455	1.104	-0.366	-0.023	1.317	0.731	1.010	-0.495	-0.519	0.808	1.260	0.641	-0.283	0.580	-1.391	-0.563		1975-1980 1980-1990	OBERS-Based <sub>1/</sub> Projections—	Annual Rate of Change
2.687	2.240	4.873	4.052	4.137	3.705	3.617	3.342	-3.127	1.453	3.526	1.083	1.010	3.153	0.437	0.734		1977-1980	BLS Pro	of Change
1.062	0.698	1.172	1.400	1.444	2.051	1.258	0.210	-0.539	2.014	0.380	1.042	1.291	0.959	0.669	-0.006		1980-1990	BLS Baseline 2/ Projections 2/	

Based on industry employed wrok force in Table 2.6, Part I of this report.

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Based on industry employed work force in Table 2.7, Part I of this report.

TABLE 3.3. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY, Minnesota, 1970-2000.

1 1

INDUSTRY	I S H	IMATED 1/	 	 	OUE	2/	: : : : : : : : : :	•
NO. TITLE	1970	1975	1980	1985	1990	2000	2020	
***************************************	* * * * * * * * * * * * * * * * * * * *	***************************************	(nump	er)	† † † † † † † † † † † † † † † † † † †	7 6 9 9 9 9 1 1 1	, , , , , , ,	:
1.AGRICULTURE, FOR., FISH.	962	176	617	995	178	5	91	
SZHZLE	1531	1502	1294	190	160	975	752	
CONST	77501.	77565.	105098.	109928.	112902.	122523.	126804.	
FOOD PROD	85 17 17	793	5753	416	070	635	969	
.TEXTILE	264	258	301	271	68	5	5	
APPAREL	ずび	3	76	17	39	95	83	
LUMBER	편 :† :ল	129	494	463	465	47.1	3≟9	
PAPER PRO	S)	458	123	7.0	5	87	in in	
PRINTING 4	254	19	1.5	713	853	131	263	
O.CHEMICALS	ੂਨਾ ਪ੍ਰਾ	9 i	701	9	1	5	7.	
1. PETROLEJM PE	က	78	26	25	28	3.0	20	
2. PRIMARY METALS	**	95	69	9	28	577	463	
3. FABRICATED METAL	893	862	102	301	353	506	<b>634</b>	
4. MACHINERY, EXC.	85	4	46	9953	29	27	89	
5.ELECTRICAL MA	291	266	323	602	897	544	362	
6.MOTOR VEHICLE	87	82	5	38	52	91	95	
7.TRANS., EXC.	20	74 71	7.0	9	47	877	00 2 2 00 2 00 2	
8.MISC. MANUFAC	40.5	062	475	834	640	38	29	
9. TRANS., COMM.	7:3	344	813	825	3151	6363	1304	
O.TRADE	29	53.4	740	5541	7562	9741	1023	
1.FIN.	6953	8222	273	236	653	311	7 80	
2.SERVICES	88	276	791	1064	2444	6486	0.660	
3. FEDERAL GOV	3182	80	29	3	94	728	583	
4. STATE AND LOCAL	971	495	876	753	388	836	267	
5.MILITARY	42	258	34	3	20	4	97	
TOTAL	<b>∞</b>	95	<b>%</b>	69	i)	62	7.4	

Based on unpublished data from U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Washington, D.C., 1977.

Economic Activity in the U.S., Vol. I: Concepts, Methodology and Summary Data, U.S. Government Printing Office, Washington, D.C., 1972. Statewide projections were adjusted to current population projections Based on total earnings projections from U.S. Water Resources Council, 1972 OBERS Projections, Regional prepared in the Minnesota Planning Agency.

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the two U.S. employment series presented earlier in Tables 5.6 and 2.7 of Part I of this report.

The Minnesota OBERS-based employment series show an increase in total employed work force from 1,618,088 in 1970 to 2,136,053 in 1990 -- an annual rate of 1.3 percent. This compares with an annual rate of 2.4 percent for the 1970-1975 period.

Differential projected growth in Minnesota can be sorted into two industry groups -- commodity-producing and non-commodity producing. In the commodity-producing industry group, the projected annual growth from 1970 to 1990 is less than 0.5 percent. Even the most rapidly growing industry in this group, namely, construction, increased in employment at a below-average rate. The historical and projected employment growth rates are as follows:

Commodity	OBERS-Based		New Baseline as Proportion
Producing	Projected	Estimated	of OBERS-Based
Industry	1970-1975	1970-1990	1990
According to the second		(percent)	
Agr., for., fish.	3.050	-2.522	107.5
Mining	-0.391	-1.682	102.1
Construction	0.068	1.912	90.4
Manufacturing	-0.216	1.210	105.7
Average	0.743	0.481	103.1

An alternate OBERS-Baseline Series for Minnesota was derived from the U.S. OBERS Baseline Series, in Table 2.7, Part I of this report for comparison with the OBERS Baseline Series (see, Appendix A). The two series differ primarily in the higher levels of employment projected for the commodity-producing industries except construction, as shown in the preceding comparison.

Employment growth in the commodity-producing industries exceeds the total industry average in both the historical and projected periods in four of the sevel industries as follows:

			New Baseline as Proportion of OBERS-Based
Industry	1970-1975	<u> 1970–2000</u>	1990
		(percent)	
Trans., comm., util.	1.407	0.762	102.9
Trade	3.317	1.378	102.1
Fin., ins., real set.	3.420	2.347	99.9
Services	4.081	2.178	104.2
Federal government	-1.285	0.469	104.8
State & local govern.	3.156	2.504	101.3
Military	-9.663	-1.459	102.6
Average	3.183	1.833	102.6

Unlike the BLS baseline projections cited earlier, both the Minnesota OBERS-based projections and the alternate series show an above-average growth in state and local government. Need for further analysis of government employment trends and prospects in Minnesota is indicated by such differences in projected employment levels.

Because of the more rapid growth in non-commodity-producing than commodity-producing employment, the ratio of total employment to commodity-producing is projected to increase, also. This ratio is sometimes viewed as an employment "multiplier" insofar as commodity-producing employment is "basic", or "export-producing" and non-commodity-producing employment is "dependent", or "residentiary". If this dichtomy were to hold empirically, a causal relationship would be established for forecast purposes. If commodity-producing employment were more readily forecast than the non-commodity employment, industry-by-industry, then the stable relationship between the two employment groups could be

used in making aggregate employment forecasts, given the forecast equation,

$$empr_n = (1+r)^n * m * \sum_{i=1}^{4} emp_{in}$$
 Eq. (3.1)

where,  $empr_n$  = total employment in all industries in n-th year  $emp_{in}$  = total employment in the i-th industry (with i=1,...,4 being the commdoity-producing industries) in n-th year  $m_0$  = commodity-producing employment multiplier in base year, with t = 0

r = annual rate of change in multiplier,  $m_0$ .

Derivation of the employment multiplier and the annual rate of change in the multiplier yields a series for the 1970-1990 period, as follows:

	Multip	lier	Annual 1	nnual Rate		
Year	U.S.	Minn.	U.S.	Minn.		
1970	2.972	2.861				
1975	3.264	3.098	1.892	1.604		
1990	3.658	3.431	0.763	0.681		

These results confirm the general rule that the larger the area, the larger the multipler. They also show a larger annual rate of increase for the U.S. than Minnesota. Thus, while non-commodity-producing employment in MInnesota is growing rapidly, it is growing less rapidly than in the nation as a whole, relative to the growth in commodity-producing employment. If the projected levels of commodity-producing employment are attained, a high probability exists that the projected levels of non-commodity-producing employment will be attained, and ever exceeded, by 1990.

#### Substate Forecasts

The statewide forecasts can be allocated to the 13 substate development regions by use of the shift-and-share forecast method. In this study, however, both the statewide and substate forecase are developed from county-level forecasts, which were derived from the OBERS-E projections for water resource subareas, adjusted to the current county-level Minnesota population projections. The substate forecast series are presented in Appendix B of this report.

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#### EARNINGS AND INCOME FORECASTS

The earnings forecasts are obtained directly from U.S. Water Resources Council 1972 OBERS-E projections (27). However, the total earnings in agriculture, mining, trade, service and government employment were adjusted as indicated in the footnotes to table 2.6 in Part I of this report.

#### Trends and Assumptions

Trends and assumptions for the U.S. OBER-E projection series are discussed in a related report in this series (9). In this report the assumptions used in the preparation of the U.S. OBERS-E projections are discussed and the annual rates of change in selected employment series are compared.

Both the BLS and the OBERS-E projections are based on assumed rates of economic growth which are sharply reduced from the corresponding historical levels (Table 4.1). The OBERS-E rates of change (for Table 2.6 in Part I) compare closely with the BLS rates of change (for Table 2.7 in Part I), except for GNP per hour. The lower GNP per hour in the BLS projections is the result of a lower total GNP and a larger employed wrok force than assumed by the OBERS-E projections.

The OBERS-E and the BLS series are compared also with reference to annual rates of change in output per hour, hours worked and earnings per hour for each of the 25 industries (Table 4.2). While the overall levels of the three series are in general agreement, individual industry comparisons show wide differences, particularly between the estimated average annual change in output per hour for the 1958-1977 period and the projected annual rate of change in earnings per worker for the 1980-1990 period. Earnings per worker in non-commodity-producing industries generally are

Estimated and projected annual rates of change for specified economic indicators from OBERS-E and BLS series projections, U.S., 1958-2020. Table 4.1.

	Annua	nual Average Ra Estimated	Annual Average Rate of Change Estimated	$\frac{1}{\text{Projected}}$	pa	Annual Rate Estimated	Annual Rate of Increase 2/ Estimated Projected	
Economic Indicator	1968– 1973	1973- 1977	1977– 1980	1980– 1985	1985- 1990	1958-1971	1971-2020	
				(percent)				
Labor force, inc. military	2.0	2.3	2.1	1.6	1.1	1.5	6.0	
Unemployed, total	8.3	13.0	-5.8	-1.5	0.2	!	1	
Employed (persons), total	1.8	1.7	2.7	1.8	1.1			
Employed (jobs), total	1.7	1.3	2.8	1.9	1.2			
General government	6.0	1.5	1.2	6.0	0.8	3.8 3/	$1.4 \frac{2}{2}$	
Private, total	1.9	1.3	3.1	2.0	1.3			
Agriculture	-2.6	-2.3	9.0	<b>-0.</b> 4	-2.1		1	
Non-agriculture	2.1	1.4	3.1	2.1	1.4	!	!	
GNP, total	3.3	1.9	4.3	3.6	3.2	3.6	3.4	
Government	1.1	1.5	1.6	1.1	0.8	3.2	1.2	
Private	3.6	2.0	9.4	3.9	1.2	3.6	3,5	
Agriculture	1.9	1.6	3.2	2.2	1.2		1	30
Non-agriculture	3.6	2.0	9.4	3.9	3.5	3/		)
Private annual hours per job	<b>-0.4</b>	9.0-	-1.0	-0.5	-0.5	$-0.5\frac{3}{2}$	-0.4 -7	
Agriculture	9.0-	0.2	-3.0	-0.3	-0.3	1	1	
Non-agriculture	-0.4	-0.5	1.8	2.2	2.5			
Private GNP per hour	2.1	1.3	1.8	2.2	2.5	$3.0^{-3}$	$2.9^{-2}$	
Agriculture	5.2	3.8	3.9	3.1	3.8	!	1 ,	
Non-agriculture	1.9	1.1	1.7	2.1	2.4.	! !	**************************************	

25-35, Norman C. Saunders, The U.S. Economy to 1990: Two Projections for Growth, Monthly Labor Review, 101: December, 1978.

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Con-U.S. Water Resources Council, 1972 OBERS Projections, Regional Economic Activity in the U.S., Vol. I: cepts, Methodology and Summary Data, U.S. Government Printing Office, Washington, D.C., 1972.  $\frac{5}{2}$ 

Civilian employment, persons concept.

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Table 4.2. Estimated and projected annual rate of change of output per hour, hours per week, and earnings per worker, U.S., 1958-1985.

			ual Change	1 5 .
		Output	Hours Worke	
	Industry	per Hour	per Week	per week 1980-1985 <sup>2</sup> /
No.	Title	1958-1977 <sup>1</sup>	1958-1977-1	
			(percent)	
1.	Agriculture, for., fish.	5.29	-0.27	3.87
2.	Mining	2.91	0.17	2.36
3.	Construction	0.07	-0.18	2.12
4.	Food prod.	3.25	-0.08	2.23
5.	Textile prod.	3.87	0.01	4.26
6.	Apparel	3.11	-0.10	1.15
7.	Lumber, furn.	2.70	-0.05	2.68
8.	Paper prod.	3.36	-0.03	2.32
9.	Printing & pub.	2.62	-0.12	1.70
10.	Chemicals	5.00	0.02	2.90
11.	Petroleum refining	4.90	0.10	2.82
12.	Primary metals	2.29	0.15	1.40
13.	Fabricated metals	1.87	-0.01	1.46
14.	Machinery, exc. elec.	2.50	0.04	1.70
15.	Electrical mach.	3.44	-0.02	2.64
l6.	Motor vehicles	3.60	0.10	3.52
17.	Trans., exc. mot. veh.	3.52	-0.17	2.34
18.	Misc. manufacturing	3.10	0.00	2.02
19.	Trans., comm., util.			
20.	Trade	2.64	-0.88	3.05
21.	Fin., ins., real est.	1.81	-0.16	1.31
22.	Services	1.453/	-0.59	3.27
23.	Federal Government	$0.40\frac{3}{3}$	-0.20	1.09
24.	State & local govern.	$0.96^{\frac{3}{2}}$	-0.30	1.48
25.	Military			2.44
	Total or average	2.65	-0.38	2.43

U.S. Bureau of Labor Statistics, Time Series data for input-output industries, Bulletin 2018, U.S. Government Printing Office, Washington, D.C., March 1979.

<sup>2/</sup> Based on data series reported, in part, in Appendix A.

<sup>3/</sup> Government enterprises only.

projected to increase at faster rates than the corresponding output per hour. However, for 16 of the 18 commodity-producing industries, the average annual increase in output per hour is greater than the annual rate of change in earnings per worker, even when taking into account the declining number of hours worker per week. Thus, the higher projected employed work force levels in the BLS series are generally consistent with the underlying demand and output assumptions of the OBERS-E projections that affect the preparation of the corresponding Minnesota OBERS-based earnings and income projections.

## Statewide Forecasts

Statewide forecasts of total earnings of the employed work force in Minnesota and total personal income of Minnesota residents are presented in Table 4.3. This forecast series is derived directly from the CBERS-E projection, adjusted to the industry employed work force levels in Table 3.3. Additional discussion on the derivation of the earnings per worker projections which are consistent with both the total earnings and total employment projections is included in the related report on income trends and projections (9).

## Substate Forecasts

Earnings and income forecasts for the 13 substate development regions are included in Appendix C of this report. The substate projections were obtained by compiling the individual county-level forecasts in the computer data base for the multi-county regions.

TABLE 4.3.ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY, Minnesota, 1970-2020.

INDUSTRY		TIMATED			ROJECTE	ים י	
NO. TITLE		1975	1980	98	1990	2000	2020
	(VALUE :	IN THOUSAN	DS OF 1967	DOLLARS)	! ! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7			<b>!</b>	) )	) ) 	} !
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101	112221	151871.	146567.	151695	156346.	172319.	216852.
. CONSTRU	1168	6324	7030	4419	4120	1250	0193
.FOUD PKO	3371	1883	2629	9489	58032	65958	86592
. TEXTILE P	(J)	536	8435	2277	12024 12024	3076	288
APPAR	655	±23 Ω	621	909	S S S	ယ . တ ဟ .	371
·LUMBER, F	2:3	538	0727	2233	3915	7754	7352
.PAPER PROD	8623	# Q # C	88 12	9013	6760	5 5 5 5 5 5 5	2864
• PRINTING	624	319	<b>₽</b>	დ # Մ	676	() ()	85245
D.CHEMICAL	S F S	975	14 14 13	9926	15+6	57:2	6981
1. PETROLEJM REF	949	626	523	0 4 U	2294	58674	3965
2. PRIMARY METAL	173	99.0	907	354	788	00 (1) (2)	4000th
3. FARRICATED METAL	4422	4737	3598	8449	3883	70439	せいいな
· MACH	1807	127	277	864	737	587	81889
5.ELECTRICAL MAC	33326	5892	7438	6235	6986	3301	76[3
6.MOTOR VEHICLE	3597	ტ ე დ	7788	033	3449	3852	22605
7. TRANS., EXC.	0367	466	679	200	3643	35521	4.16B
8. MISC. MANUFACTURI	18911	4106	8176	7182	7675	25111	58356
9. TRANS., COMM., U	929	575	08109	25755	45839	951714	6579
O.TRAD=	27633	5598	67 49	3965	2947	8227	15714
FIN.	1858	7374	4575	02907	248344	86392	39902
2. SERVICES	74286	7282	1511	37785	18921	28256	35101
3. FEDERAL GOVER	6265	8611	8933	4488	6177	8051	149260
4. STATE AND LOCAL	7363	3731	3714	6537	7861	7595	59612
5.MILITA	7114	6032	7214	7932	8837	5842	95697
6. TOTAL EMP	61838	81795	48456	04669	13605	31462	47374
7. POPULATIO	81500	92332	07678	25218	42149	65283	€699
8. TOTAL INCOM	302772	496465	952686	319271	745161	820097	760738
9. TOTAL EARNING	45100	59653	56906	29869	57153	74148	11871
	)		1		)	1	)

TITLE		ES	STIMATED				PROJECTE	0				
	1970	1371	1972	1973	1974	1975	1980	1985	1990	2000	2020	
	99 99 99 99 99 99 99 99 99 99 99 99 99	## ## ## ## ## ## ## ## ## ## ## ## ##	10   10   11   12   14   14   16   16	74   10   10   10   10   10   10   10   1	11	(number)			11   14   14   16   17   18   18			
AGK. FOR. FISH	152992.	154163.	152492.	158496.	172277.	177789.	122647.	106548.	98653.	86893.	66971.	
MINING	1549	14835.	13956.	147 05.	14931.	15058.	13011.	12069.	11142.	110050	7955.	
CONSTRUCTION	8 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	54731	5250 A.S.	511154	50129.	48019	54373.	51616.	48680	44559	36746	
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APPAREL	8370	~	7607.	9040	8464.	7494.	7454.	7535.	7167.	65.85	5613.	
LUMBER	1085	-	13749.	14816.	14110.	12460.	14160.	14262.	14391.	14466.	13416.	
PAPER PROD.	3146	30352.	29972.	32179.	35551.	30913.	37291.	38936.	40349	43117.	44235.	
PKINTING.	241	24030	25567.	20470.	26620.	26566.	26427.	28767.	30485.	33500.	35034.	
CHEMICAL PR	69		6641.	io 16 •	6591.	6275.	8389	8803	8715.	9666.	10962.	-34
PEIRO PRUD.	20	2212.	1950.	1780.	2126.	1654	2448.	2465.	2512.	2543	2507.	+-
PRIMARY MET	7	6517	5543	65.95	6585	5461.	7448.	7457	7100.	6538	5478	
FAHR. METAL	32676	29765	51524.	3.5514.	54095	31600.	41477	44497	45557	47583	47 430	
MACHINERY		58751.	60905.	64251.		65417	יינ	106951.	115046.	165046	104080	
ELECTRICAL	283	63561.	24012.	27349.	- [	6/826.	- 1	35461	397 10.	40305	202/3.	
MOIOK VIHECLE.	# N	4709.	5361.	. 97,60	カカウ	5801.	7.366.	7266.	10076	*1467	10.50	
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	36.539	36907	391257.	484427	Ι.	429898	, -3	461463	464990	525610	539354	
FINAL	F 7007.8		75677	7.32.19	80685.	82737.		101459.	110398.	129110.	152845.	
l H	28113	28451	317320.	326690.	339175.	347749.	372821.	415268.	463200.	536976.	718449.	
005	3182	30866.	30338.	2-18-94.	29508.	29898.	33403.	34851.	37668.	40398.	. 20484	
TATE . LOCA	0.7602	222494.		237156.	236 491.	245106.	303690.	334399.	348220.	353289.	381726.	
MILITARY		3727.	3023.	2763.	2695	2586.	3349.	3314.	3284.	3233.	3162.	
TOTAL	1618089.	1621703.	1697533.	1774659.	1814481.	1819056.	1969419.	2083414.	2194120.	2365506.	2623799.	

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A. 2.

ESTIMATED AND PROJECTED TOTAL EARNINGS MINNESOTA, 1970-2020.

(in

1967

dollars) OF EMPLOYED WORK FORCE IN SPECIFIED INDUSTRY,

INCOURT		EST	STIMATED				PROJECTED					
O. TITLE	1970	1971	1972	1975	1974	1975	1980	1985	1990	2000	2020	
	14 14 15 16 17 18 18 18 18 18		H		( DOLLARS )					· · · · · · · · · · · · · · · · · · ·		
		4450.	5314.	11925.	7712.	5588.	7897.	9548.	10824.	13962.	23394.	
INING	2	80 1	202	9534.	9158.	10092.	11390.	12802.	14450.	18205	29342.	
	900	35.59.	က  :	48 29.	8 576	8485	11565.	10021	12276	16156	25.36.3	
5 TEXTILE PROD.	1 20 to 10 t	5772.	5856.	62429	5979.	• 6609 • 6609	7157.	8816.	9932	12674.	21264.	
APPAKEL	4518.	4662.	5189.	5+45	5453.	4962.	6265.	6635	7479	9559.	16 052.	
	6564.	6590	6566.	6731.	6751.	6888	7655.	8736.	9958	12926.	21944.	
α.	9369.	9365.	10920.	10848.	10583.	11015.	11432.	12821.	14486.	18362.	29895.	
ماء	7742.	7805.	8055.	7955	7783.	8 C S 4 •	10296.	11004.	16564.	15603	25,419	
is chemical Prod.	3762	8276	10007.	03 30 •	8471.	9791.	14542.	16714.	18452	24299.	38485	36-
. ~	8201.	83.00	9275	3524	9884	9051	9372.	10045.	11296.	14271.	23 009	
	7515.	7595.	7919.	7855.	7561.	.6022	8185.	8801.	9924	12600.	20437.	
	8618.	8971.	9496.	3487.	8860.	9262.	9149.	9951.	11162.	14088.	22575.	
ELECTR	8387.	8282.	8550.	8369°	9203.	8789.	£ 11349.	12927.	14757.	18924.	29961.	
9	8602.	8368.	9019.	4832.	8834.	8850.	10652.	12662.	14376.	18574	29465	
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	7400.	112	7545.	7255.	6950.	6939.	9375.	10330.	11644.	14757.	23 936.	
2 SERVICES	5243.	in	4835.	4364	4875.	4813.	6775.	7959.	9152.	12500.	19956.	
3 FEUERAL	8254	8667.	9155.	.9295	9541.	9256	11638.	13549.	15042.	20053.	30 760.	
4 STA	5597.	5739.	615	61	10	5868.	6445.	6935.		10868.	17714.	
25 MILITARY	16564.	18511.	22688.	24642	23845.	23341.	21768	24560.	27709.	35323	57712.	
26 TOTAL	6428	6+53	6505.	7146.	6638.	6379.	8 030.	9056.	10266.	13361.	21621.	

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THBLE B.1.ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION 1 , MINNESCTA

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3. FARRICATED METAL			t.	œ	N Cit	(N	S V
4. MACHINERY, EXC	<b>.</b>		510.	5 <u>1</u> 2.	730.	7	ф Ф
5-ELECTRICAL MAC	<u>က</u>			σ,	(D)	7	ري ري
6.MOTOR VEHICLE		O	C	ŝ	D)	$\infty$	t. n:
7.TRANS EXC. MOT.	Û	$r_{\mathcal{O}}$	ษา	76	€7	t.	ŧ.
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1.FIN., I				N	M	$f^{(1)}$	1634.
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3. FEDERAL GOVER	~	(J)	CO	10	Çî Gî	ان نت ت	S
4. STATE AND LOCAL G	1-	C	တ	(4)	C)	795	9749.
5.MILITA		$\mathbf{v}$		W	(a)	3.5	
6.TOTAL EMP	929	725	<u>ড</u> ড	627	733	<del>3</del> 658	ن انا
7. POPULATIO	182	734	649	823	897	7737	S)
8. TOTAL INCOM	9679	2843	2702	8628	101 101 101	3521	en en
AL FARRING	184253.	238291.	*1 <u>6</u> †642	291+36.	3+3638.	473236.	800731.
C. TOTAL EMP (B	53	ن از <del>د</del> و	£ 40 80	4.26	ණ රා	1826	ра 1 Т

TABLE B.2. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION Z , MINNESOTA

		IMATED			ΙIJ.		
NO. TITLE	1976	1975	1986	1985	1996	2003	2323
. AGRI	* 68 88 89			2442	~	N	
MINING		N	*1		v-4	***	•~
• CONSTRUCT	/	9	S	<b>W</b>	19	~	*4
PROD.	• छ स	122.	136.	138.	±38.	143	# S # #
.TEXTILE P	€ 1	N	ıv	w	B	<b>~</b>	G
. APPAREL	C	0			σ̈́	(C)	~
.LUMBER, F		C			t	G	$\sim$ 1
. PAPER PROD	<b>⊤</b> ~∮	+-4		2	W	3	
. PRINTING			(J)	t	in	10	
D.CHEMICALS	1						
1. PETROLEJM RE		9	₹ 4	s <b>4</b>	• #1	• •	• •
2. PRIMARY META	<b>a</b>	0			ပ	0	C
3. FABRICATED METAL	M	œ	œ	t.1			
. MACHINERY	23.	26.	24.	27.	30.	38.	36.
5.ELECTRICAL M	3		t	$\boldsymbol{\varphi}$	Ó		
6.MOTOR VEHICL	(L)	O			က	1.3	(J)
7.TRANS., EXC. MOT			•~				
8.MISC. MANUFACTURI	57.	47.	9	39.	44.	53.	53.
9.TRANS., COMM., UTI	S	M	5 8	+4	$\sigma$	23	37
0.TRAD	+4	Š	2	~	œ	C	~
1.FIN., I	Ø	t.	49	M	72	± 5	<b>.</b>
2.SERVIC	~	$^{\circ}$	ာ -‡	71	29	Ó	4
3. FEDERAL GOVERNMEN	50	$\boldsymbol{\sigma}$	9	(M	74	70	9
4.STATE A					93		Ø
5. MILITAR	(7)	/	136	<u>_</u>	$\sim$	12	* 1
6.TOTAL EMP	722	787	435	281	434	837	017
7. POPULATION	473	0.0	0.76	418	6692	278	4 m
8.TOTAL INCOM	90		3923	6497	74	3828	11
9.TOTAL EAR	6963	8170	574	217	6353	328	7249
VATORAL EMPERY	700	5	7223	24.0	5	2000	4

79/13/34. DATE :

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TABLE B.3. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION 3 , MINNESOTA

龙琴		A			JE.		
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1970	1975	1986	1985	1990	2003	2026
- AGRIC	ta Ni	か	F	<b>-</b> 7	S .	N I	ا ن
MINING	6	7.5	(A)	90	- i	သ ( ပေ	
• CONSTRU	SIS	<b>∞</b> [∖]	040	رن ا	ω ( μ (	t,	(2) (3)
	1829.	1394.	1785.	1653.	1546.	1402.	p. ( m 00 ( )
*TEXTIL	2	9	5	CVI F-k	(V) F:r	μ W	F.A (
APPARE	82	£	<b>307</b>	<u>က</u> မ	<b>N</b>	<u>ы</u> (1)	ch ហ
· LUMBER, F	S	œ 	37	ŝ	26	23	98
. PAPER PROD	(N)	42	かず	9	c) ပျ	22	67
• PRINTING	Û	٠	$\Box$	-	9	IV	L/s
0.CHEMICAL	S	22	26	<b>4</b> 2	23	<b>4</b>	E (v)
1. PETROLEJM REF	р.а. р.а.	Q	00	S		Ç	(C)
2. PRIMARY METAL	$\sigma$	œ	(کا 80	S	₽.k	87	ţ
3. FABRICATED ME	£	œ	7	S	S	Q,	S
4. MACHINERY, EXC.	ü	7	<u>က</u> တ	<u>သ</u> အ	5	N E	(/I
5-ELECTRICAL MAC	3	229.	Ž,	70	ტ მ	S) C)	G
6. MOTOR VEHICLES	4.	31.	7	7	C	Š	#
7.TRANS., EXC. MOT.	Q)	S	Ś	N	2	hep h- p	$\Box$
8.MISC. MANUFACTURI	<u>س</u> ت	4	67	<u>გ</u>	5	yı O	<b>37</b>
9. TRANS., COMM., U	ŧ.	$\sim$	W	9	2	W	S
G.TRADE	Ci Ci	74	12	نټ سو	9	<u>ح</u>	17
1.FIN., I	298	420	473	916	645	624	650
2.SERVICES	÷	57	07	98	400	t t	2
3. FEDERAL GOVERNME	284	270	1202	284	362	316	368
4. STATE AND LO	<b>γ.</b> γ.	μ œ	34	99	480	ξ.	က
5.MILITARY	257	139	178	178	177	173	172
6.TOTAL EMP	2322	3588	4274	45 ó 8	4770	5342	5532
7. POPULATIO	3646	2901	3029	3255	3235	2543	2639
8. TOTAL INCOM	5583	1502	37100	59023	83634	45473	15599
. 101	t T	N	93	ω 5	ם	63	69
O. TOTAL FARCE	¥844	2626	3100	3327	13445	4.000	10 OC

DATE : 79/10/04.

TABLE B.4. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1973-2020 REGION 4 , MINNESOTA

TITLE  TURE, FOR., FISH.			1	1 1 1 1 1 1	PROJECTED	1 6 8 8 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
.AGRICULFURE, FOR., FIS .MINING .CONSTRUCTION	978	75	1980	1985	366	2.0		! ! !
*MINING *CONSIRUCTION	2	37				12809•		
. CONSTRUCTIO	60	(C)	-#	65	- <b>.</b> †	-st	<b>~</b> )	
	33	ıv	16	<b>か</b> <b>か</b>	60	85	φ (7)	
つつんし つつつしゅ	1839.	2329.	2923.	2368.	2064	2688.	1744.	
. TEXTILE	2	S	-4		44	44	$\mathbf{v4}$	
. APPAREL	-1	M	/	~ <b>~</b>				
.LUMBER, F					4	in	ľV	
. PAPER PROD	*				~		C	
. PRINIING							Ġ,	
O.CHEMICAL			$\boldsymbol{\omega}$	K	ıv	$\Box$	27	
1. PETROLEUM REF		c	<b>C</b>	O	9	0	(J)	
2. PRIMARY METAL				$\sigma$	~			
3. FABRICATED METAL	<b>M</b>	~	~				Ν	41
4. MACHINERY, EXC.				œ	N	$\circ$		0-
.ELECT	57.	•19	22.	25.	25.	36.	30.	
6.MOTOR VEHICLE		S	44	Û	2	(N)	M	
7.TRANS., EXC. MOT	S	$\sigma$	#	σ	M	^	0	
8.MISC. MANUFACTURI					## C2	t. in	3	
9.TRANS COMM., UTI	W)	20	93	t.	~	561	534	
C.TRAD	$\mathcal{U}_{i}$	30	w	Ø	50 00	40	83	
1.FIN.	t. t.	192	98	28	52	310	352	
2.SERVICES	α Ω	4	75	₩ 90	<del>11</del>	Ø	<b>►</b>	
3. FEDERAL GOVERNME	9	ው	S	ø	953	증	115	
4.STATE AND LOCAL G	10	<b>.</b> †	ŧ	œ	90	8	+	
5.MILITAPY	C)	74	+1				23.	
6.TOTAL EM	652	0.75	678	033	289	036	363	
7. POPULATION	8585	9173	9558	1228	3681	1289	1962	
8.TOTAL INCOME							2207621.	
9.TOTAL EARNING	6760	7735	2588	1185	<u>0</u> 846	7153	52376	
G.TOTAL EMP (B	652	362	831	145	395	0.61	379	

79/13/34. DATE :

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(BY STATE POPULATION PROJECTIONS)

TABLE B.5. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION 5 , MINNESOTA

INDUSTRY	ESTI	MA			ROJE		
NO. TITLE	1970	1975	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 4 98 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9667	2000	2020
		,			: :	(	- (
E G Z F C	0 ± 3 ± •		J	ŧ	19	C.:	C
• MINING	· t		~	<u>⊬</u>	Š	604	57
. CONSTRU	7	7		7	υ N	<b>(</b>	57
.F000 PR00			869	t∙r ∞	75	736	S
.TEXTILE	++		ŀ? Ò0	œ	S	(C)	Q, Qr
· APPAR	Ü	Ŋ	40	<b></b>	73	S	· بن
.LUMBER, F	<b>t</b> -	<b>t</b> .	4	7	7	œ	00 UI
.PAPER PROD	S	9	ربز بر	Ø	t.	t. L∩	დ თ
• PRINTI	665•	741.	735	FT CD	œ 9		р 14 гр •
O.CHEMICAL	4		တ	S	S	υı	<u>က</u>
1. PETROLEUM R	7.		J)				
2. PRIMARY METAL			79.		73	7	53
S.FABRICATED METAL	တ	σ	C	(A	40		00
4. MACHINERY, EX			362.		6	U)	U
5.ELECTRICAL MAC	~	7	70	7	77	œ	7.7
6.MOTOR VEHICLE			20.	<b>}</b> ~	4-4	<b> </b> -	<u>ن</u> و
7. TRANS., EXC. MOT.	$\langle \mathcal{M} \rangle$	σ	W	W	39	+	27
<b>8.MISC. MANUFACTU</b>	$\mathcal{Q}$	C	Ú	$\Box$	9	Ü	
9.TRANS., COMM., UTI	1665.	1907.	1004	2168.	2145.	2375.	2209.
0.TRAD	<b> </b>	W	47	S	~	Ú	S
1.FIN., I	9	ව  2	67	48.4	199	238	24
2.SERVIC	ဟ	96	27	74	47	79	<b>β</b> γ.
3. FEDERAL GOVERNME	ľ	œ	<b>υ</b> 1	9	60	120 120	± 68 €
4. STATE	C	8	ŧ.	N	t.	77	ST ST
5.MILITA			ထ	œ	7	7	סי
6. TOTAL EMP	833	468	470	727	968	248	ei Oi
7. POPULATIO	1391	2419	2246	2758	3179	3950	3995
5. TOTAL INCOM	282	396	87 D	634	617	7778	5156
. TOT A	763	១០22	5293	<u> 1954</u>	7733		98019
C. TOTAL FMP(B	607	7	-	3	カカカ	S S S S S S S S S S S S S S S S S S S	いここと

DATE : 79/10/34.

TABLE B.6. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION 6E , MINVESOTA

INDUSTRY	E S				ROJECTE		1
NO. TITLE	1978	1975	1980	1985	0.661		2320
ACE HOUT HOT SOA	700	ع	5	***	œ	80	2792.
MONTH OF THE CONTRACT OF THE PROPERTY OF THE P	٦.		1 50 1 70	*** **** ***	्र च च	119.	
CONVIDE	S.	) ed	42	M	75	က	9
FOOD PEOD.	14 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4	M	. g	80 44	M	68	±334•
THXTIF		t	20	44	23	77	Ġ
In a dad a	-3	9	S	Œ	+	$\omega$	<b>►</b>
L CHENT	24.5	248	*	-1	ın	27	· <b>:</b>
PAPER ORON.	0	٠,	2	$\circ$	*	ıΩ	74
PRINING	اب. الد	7.4	t	$\Box$	9	$\boldsymbol{\omega}$	S
D.CHEMICALS	<b>:</b>	Q	Œ	8	90	Ç	7
1. PETROLEUM REF	(V)	N	Ţ.	t	M	M	$\alpha$
2. PRIMARY METALS	+1	*1	$\sim$	S	7	$\sim$	*4
3. FABRICATED METAL	C)	1	44	σ	ľV	89	N
4. MACHINERY, EXC.	675.	782.	1563.	1736.		2140.	1987.
5.ELECTRICAL MA	~	►	t.	$\alpha$	<u>က</u>	2	9
6.MOTOR VEHICLE	N	in	t.	1	2	4-4	71.
7. TRANS., EXC. MOT	4~4	*4	• Ծ	<b>°</b>	• 6		
8. MISC. MANUFACTURING	<b>.</b> †	φ Φ	·\$	8	$\Box$	10	16
9. TRANS COMM UII	ω σ	(3) †	7	<u>+</u>	10	7	67
TRADE	7575.	13266.	11133.	11545.	12047.	13657.	11825.
T . NIL	5	4	カセロ	44	10	106	22
Z.SERVICES	10	တ	95	15	<u>ာ</u>	4-4 60	21
3. FEDERAL GOVERNME	4-4	t.	$\Box$	<b>M</b> )	ၹ	638	72
4.STATE AND LOCAL	*1	9	t	7	$\sim$	S	7
5 MILITARY			$\omega$	21.	22.	13	<b>3</b> -4
6.TOTAL EMP	.± ∵	955	193	342	612	219	275
7. POPULATION	98415	0242	0401	0680	1295	1892	2328
A.TOTAL INCOM	9103	367	576	77 77 79	538	716	C)
9-TOTAL FAR	53.2	8415	2781	9563	7581	8851	19768
A TOTOL OF TOTOL	3653	4528	1664	824	035	50.0	552

79/10/04. DATE :

TABLE B.7. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 Region 6W , Minnesota

INDUSTRY	EST	MAT			ROJEC		
NO. TITLE	1970	1975	1980	1985	1990	2020 0	2020
ACUTCH FILDS FOR		-			n S	 0	<b>3</b> 3
MINING	ا <u>د</u>	ا د. بد	ا ا لد	א ועל	77	, í	 F
CONSTRU	H 001 001	1372.	1250.	1303.	4809. •	1327.	1257.
.FOOD PROD.	<u>ن</u> ت	ហ	∞  >	78	728	φ. Φ.	164
.TEXTILE			3		N	**	Û
APPAREL			22.	W	23.		
·LUMBER, F		N		m	1.5		<b>C</b> 3
.PAPER PROD				Ġ,	Q	Ł	g
• PRINTING		$\circ$		$\mathbf{v}$	ΟI	<b>\$</b>	ľV
O.CHEMICALS	33	Ü	φ	ħ	44	UI	δ
1. PETROLEUM REF	ධ	ငာ	<b>c</b>				
2. PRIMARY METAL	<b>C</b>	ניז	co co				
3. FABRICATED METAL	0	87	98	27	さな	œ Ω	~
4. MACHINERY, E)			424.	\$	တ	39	<b>₽</b>
5.ELECTRICAL MACH.			• 00	93.	103.	<b>L.</b> ,	£
6. MOTOR VEHICLE			21.	L	42	N	29
7.TRANS., EXC. MOT.				S	ξ.	1.	£ 4
8.MISC. MANUFAC	**	S		$\mathcal{L}^{0}$	ţ.	7	50
9.TRANS., COMM., UTI				1	တ်	+	9
O.TRADE	9	$\boldsymbol{\sigma}$	7	(N	<b>€</b> :	-	46
1.FIN.	1-	7	£	1-	75	83	7
2.SERVICE	8 4	$\sim$	t.	œ	÷ w	+	78
3.FEDERAL	μ		7	27	282	۵, M	27
4. STATE AND LO	C)	7	Ö	+302+	5109.	538û•	L/2
5. MILITARY		<u>۵</u>	ហ •				
6.TOTA	382	855	6 3 5	ü	596	560	434
7. POPULATION	206	124	030	ţ,	986	669	202
8.TOTAL INCOM	6457	1270	4024	7753	1676	0547	5069
OTAL EAR		£	W	186619.	210483.	265636.	415127.
C. TOTAL FADIR	۲۰ 30 آگ	618	644	<b>11</b>	014	2355	10 10 10 10

DATE : 79/13/64.

(BY STATE POPULATION PROJECTIONS)

TARLE B.8. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1973-2023 Resion 7E , Minnesota

INDUSTRY			MATE	i	} } 4 4 4 8	OJECTE	1	i	1
NO.		1976	1975	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1985	1990		2020	!
	(	1	•	,	i	•	(	•	
. AGRIC	FISH.			<b></b>	$\infty$	χ Σ	$\Box$	:0 :4	
. MININ.				(1) (2)	σ	77	co H	(3) + 1	
. CONSIRUD		$\Box$	M						
.F000 PE00		322.		63	44	74 N.	(L)	*	
.TEXTILE			<b>.</b>			<b>†</b>	• 4	<b>*</b>	
. APPARE		4-4	Ø	N	S	$\alpha$	$\mathbf{N}$		
.LUMBER, F								$\Box$	
PAPER PROD			H	$\infty$	$\Box$	$^{\circ}$	G		
. PRINTING			$^{\circ}$		$\alpha$	<b>~</b>	c	7	
D.CHEMICAL									
1.PETROLEUM REF									
2. PRIMARY METAL				ţ	t	*		ıv	
3.FABRICATED METAL		0.1	ŧ.	S	w	77	œ	2	•
4. MACHINE &	· 0							4	
5.ELECTRICAL MA		Ü	C)	Ω	σ	$\sim$	$\sigma$	(VI	
6.MOTOR VEHICLE					(M	ŧ	.+	M	
7.TRANS., EXC. MOT.	Н	-#	σ	S	ľ	9	P	3	
8.MISC. MANUFACTURIN					85	1	ŝ	72	
9.TRANS COMM., UT	•	$\alpha$	73	26	œ	rv	αn	ത	
O.TRAD		~	O٦	Ŋ	837	9	<b>.</b> ‡	23	
I.FIN. 1	•	5	+4	ŧ.	100	<del>1</del> 7	65	8	
2.SERVICES		+4	ŧ.	78.	627	2,4	(A)	52	
3. FEDERAL GOVERN		t.	S	$^{\circ}$	Ø	11	-1	2	
4.STATE AND LOCAL S	• •	<b>~</b>	C	$\infty$	Ü	$\bigcirc$	44	7.	
5.MILITAR				M			S	ß	
6.TOTAL EYP		11 14 10	0.97	371	837	338	52.4	968	
7.POPULATIO		555	035	354	0484	1689	4239	5475	
TOTAL INCOME		209394.	259758.	330255.	+31588.	561311.	941353.	1735295.	
9. TOTAL EARNI		0537	2837	7484	3134	3438	2435	9183	
C.TOTAL EMP(B	(1 <i>z</i>	692	323	459	960	617	858	347	

DATE : 79/18/34.

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(BY STATE POPULATION PROJECTIONS)

TABLE B.9. ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION 7W . MINNESOTA

INDUSTRY	EST	IMATED			PROJECTED	1 6 7 8 8	6 6 6 8 8 8 8 1
NO. TITLE	1970	•	1980	1985	1990		E
1	6 6 7 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0 1 0 1 0 1 0 1	: : : : :	1 1 1 1 6 6	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Þ	16123.	W	W	cr -	<b>7</b> 6	ث	S
· MININ	7	20	27	ເນ ເນ	239	V 1	μ, 51 ( ω
STRUC	4	954	137	υ 00	⊕27 	ا هـر ا خسا	73
.F00D P⊬3D	1492.	ŝ	₩. 00	-	£	۱ ۱۰	87
.TEXTILE	<b>ភា</b>	7.	t W	(v)	W W	F :	<b>a</b>
. APPARE	$\infty$	747.	36	W	9	Ü١	5
· LUMBER, F		f =	M UI	S	5	œ	တ (၁၀)
. PAPER P	3			ED.	たらい	ω 9	ပ်၊ တ က
. PRINTING A		တ	$\Box$	Մ O	(C)	2	5
C. CHEM		•	7	7	73	ا کارت	De j
1. PETROLEUM R	2.	٥.		S	VΙ		£
2. PRIMARY METAL				ው	י יס		£~ 2∞ .
3. FABRICATED METAL	4-		20	760	957	ΙΛ .	667
4. MACHINERY		t.		N	ഗ	Û	SI.
5.ELECTRICAL MA	Ŵ	9	₽÷ 00	<u> 3</u> 37	207	S)	დ. •
6.MOTOR VEHICLE		ŧ.	t	13	80 1-	ŧ.	ω S
7.TRANS., EXC. MOT	U		7	7	ထ	Ü	00 ∪1
8.MISC. MANUFACTURI	9	70	468	057	15 15 14	<b>+</b> . ₩	8 ii 7
9. TRANS., COMM., U	76	67	75	Ę.	40	င္) (၂) (၂)	(C)
0.TRAD	95	66	0	(V) 000	ထ (၁)	င တ	9 10 10
• • I	1058.	1696.	2922.	3365.	3828.	. 3564	ហ ហ •
2.SERVICES	78	₩.	63	17	674	ē,	e S S
3. FEDERAL GOVERNME	S	75	<b>∞</b>	t	2762	317	6874
4.ST	7.	<u>s</u> 6	Ü	W	746	90	₩ ₩ ₩
5.MILITARY			77.	ထ	œ	ယ	e P
6.TOTAL EMP	649	344	903	675	528	1324	2493
7.PO	7397	9732	0651	2676	4839		326005•
8.TOTAL INCOM	050	595	854	365	739	95319	73769
9. TOTAL EARNI	9632	8297	7687	ũ266	76175	9580	0927
O. TOTAL	61171.	78144.	239	490	970	11895	13:55

TABLE B.10.ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION 8 , MINNESOTA

INDUSTRY	ISI	ATE			ROJEC			1
NO. TITLE	1976	1975	1980	1985		2000	2020	
4 4 50 10 11 110 110	<u>^</u>	4~			9		1~0	
MONTOCIONE COMPANDA POR			ł		• 89		* * * * * * * * * * * * * * * * * * * *	
DAJKNOJ	1 7	∮ co 1 oc	) (I)	(M)	t	ത	स्त (१)	
FOOD PROD.	, ac	9	ø		83	(1)	ß	
TEXTILE	, R	, RU	~	Ų)	9	10	.#	
APPAREL	~		24		N	C		
LUMBER. F	en en Fri	g	4	Ŋ	N	N	$\alpha$	
PAPER PROD	€.	N	4	\$	t	Ġ	S	
PRINING	747		80	t	9	~		
O CHEMICALS	ſΩ	5	œ					
1. PETROLEUM REF	.#	9	•	Ŋ	11	~		
Z. PRIMARY METALS	IJ		ຕ	C	က	0		
3. FABRICATED METAL		8	+4	<b>T</b> 1	~	-4	Ŋ	-4
. MACHINERY, EXC.	950.	976	2132.	2386.	1969.	1548.	778.	6-
5.ELECTRICAL MACH.	<b>f</b> 1	4	$\infty$	σ	62	ın	ŧ	
6. MOTOR VEHICLE		m	$\boldsymbol{\sigma}$	Ú	ın	+	$\infty$	
7.TRANS., EXC. MOT	10	83	$\mathbf{o}$	σ	$\mathbf{c}$	$\sigma$	٠4	
8.MISC. MANUFACTURING			C	44	70			
9.TRANS., COMM., U	<b>∞</b>	819	22	28	2355.	10	t	
0.TRADE	90	9	279	331	68	423	67	
H.FIN.	£25	175	9	277	80 CD	277	22.4	
2.SERVICES	5	t.	45	4-4	9	77	73	
3. FEDERAL GOVERNMEN	Ω	73	<del>ნ</del> 8	113	27	754	£40	
A.STATE AND LOCAL	7	$\sim$	ന	32	80 90	385	24	
S. MILITARY			<b>∞</b>	$\sim$	/	VO.	ī	
6. TOTAL EMP	349	456	399	433	424	340	202	
7. POPULATION	4199	4061	40 96	4319	4361	3902	4213	
8.TOTAL INCOM	403368			3	44	$\odot$	$\mathcal{O}$	
9.TOTAL EAR	9983	4928	5693	1391	3445	1390	52167	
C. TOTAL PMP(RY	5693	6153	125	133	0.92	351	818	

79/16/84. DATE :

;; (2) PAGE

TABLE B.11.ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1978-2820 REGION 9 , MINNESOTA

INDUSTRY	EST:	IMATED			PROJECTED		
NO. TITLE	1970	1975	1980	1985	1996		
1						1 3 3 3 4 1 6	1 4 9 9 9 1 1
.AGRIC	ŧ		Ü	ഗ	7		• 44 16
• •	J٦	7	3	-	<u> </u>	٩	თ
· CONST	62	74		92	C88	υ1 Ο1	67
•F000 PR00	Ŋ	บา	δ 3	7	U1	ٰ ت	ŧ.
.TEXTIL	29	29	S	33	330	ω 2	27
APPARE	œ		<b>*</b> *	<b>*</b> ~	+	ŧ.	œ
·LUMBER, F	Ų1	7	S	σ	9		-
• PAPER PROD	ت	3	U1	4.4	œ	S	ŧ.
RINTING	2298.	263€.	1206.	1415.	1595.	# 955 •	2262•
O.CHEMICALS	ت	Š	S	29	S	ţ,	ტ <b>თ</b>
1. PETPOLEUM REF	2	3	VЛ	86	() ()	S	$\sim$
2. PRIMARY METAL	បា	œ	**	g	96	ŧ.	<b> -</b> *
3. FABRICATED ME	J	S	g	S S	282	UI UI	75
4. MACHINERY, E)	26	95	78	N	±67	IV	<u>უ</u> ტე
5. ELECTRICAL MI	Ŋ	9	t	426	$\boldsymbol{\sigma}$	63	7
6.MOTOR VEHICLES	9	3	S	79	£.	S	676
7.TRANS., EXC. MOT.	W	1	4	78	20	<b>j</b> wh	79
8.MISC. MANUFACTURI	77	24	ω 5	268	t.	e e	10 40 10
9. TRANS., COMM.	44	E)	23	36	3	9	M
6.TRADE	9	1-4	œ	W	ຽ	9	69
1.FIN., L	<del>1</del> 6	80	00 t.	806	305	352	444
2.SERVI	£-	53	t.	<u>უ</u>	79	S	S
3. FEDERAL GOVERNMEN		œ	7	20	964	9	g a gui gui
4.STATE AND LOC	Ŋ	$\nu$	Q	7	S	œ	о Ов
5.MILI	34.					IJΊ	53.
6.TOTAL EMP	672	0360	0050	6585	1632	2004	2725
7.POPULATIO	1864	1787	2792	3442	3894	4337	9400
8. TOTAL INCO	80	178	259	5228	35225	85825	21827
OTAL EARNI	8174	596347.	756513.				2668545.
3.TOTAL EMP(B	i.	410	628	0104	8540	1247	1839

DATE : 79/10/34.

TABLE B.12.ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 RESION 100 + MINNESOTA

FOR. FISH. 24882. 28583. 20202. 17170. 15650. 2033. 2652. 590. 232. 207. 207. 207. 2659. 2659. 2659. 2659. 2659. 2659. 2659. 2677. 207. 207. 207. 207. 207. 207. 207. 2	INDUSTRY		l			ROJE	1		1
### ACKLOUTURE, FOR., FISH, 2483C, 28583, 20232, 1777C, 15653, 2  #### ACKLOUTURE, FOR., FISH, 2483C, 2832, 2077, 2077, 2077, 2008 PPOD.  #### ACCOUNTRUCTION  ### ACC		970	97	386	985	966	( (C) (	2320	
1.06FIOLUTURE, FOR., FISH, 24816, 28584, 2022, 1777, 15650, 2 2.00NSTRUDION 6383, 7818, 8565, 9157, 1577, 1577, 1571, 1572, 1572, 1573, 1573, 1573, 1573, 1574, 1572, 1574, 1573, 1574, 15									
Z. MINING         Z. S.	.AGRICULTURE, FOR., FIS	(C)	80 130 130	0.23	272	56	353	•-1	
3.CONSTRUCTION 6383. 7818. 8565. 9157. 1234. 1.234. 4.FODO PROD. 9834. 1J956. 12935. 12791. 1234. 1.234. 645. 659. 4658. 2619. 633. 645. 659. 4658. 5614. 562. 633. 645. 659. 4658. 5614. 562. 662. 1.2584. 1.2584. 7.LUMRER, FURN. 851. 1874. 2479. 2587. 2664. 1.662. 1.683. 1.693. 1.605. 1.682. 1.683. 1.693. 1.605. 1.682. 1.683. 1.693. 1.605. 1.682. 1.682. 1.683. 1.693. 1.605. 1.682. 1.683. 1.693. 1.605. 1.605. 1.60	MINIM.	50	30	23	20	207.	2	Ω	
## FOOD PROD.	. CONSTRUCTIO	₩ 100	8	55	915	u	063	т Н	
5.TEXTILE PROJ.         635.         659.         669.         659.         659.         669.         659.         669.         659.         669.         659.         669.         659.         669.	.F000 PR00	85	356	2935	279	23	157	9	
6.45 659 659 659 659 659 659 659 659 659 65	.TEXTILE PRO	8	3	Ŝ	₹9	633.	*	/	
7.LUMBER, FURN. 551. 1874. 2479. 2587. 2664. 551. 573. 576. 628. 682. 8.73. 576. 628. 682. 1605. 9.94. 2194. 559. 1605. 1605. 9.94. 214. 1943. 1605. 9.95. 1950. 1950. 1969. 1960. 1	. APPARE	.+	w	ιυ ∞	50	w	-4	t	
### B.PAPER PROD.  ### B.PAPER P	.LUMBER, FURN	5.3	87	479	Ω Φ	9	2744	2531.	
9.PRINIING AND PUB.	. PAPER PROD	8	37	576	62	Q	111	æ 1∕2	
1.CHEMICALS       594.       614.       569.       659.       644.         1.PETROLLUM REFINING       71.       75.       14.       12.       12.         2.PRIMARY METALS       1958.       2254.       2420.       2765.       2981.         3.FABRICATEDAL       1058.       2254.       2765.       2981.       2765.       2981.         4.MACHINERY, EXC. ELEC.       950.       1059.       1436.       1436.       1848.       2         5.ELECTRICAL MACH.       254.       268.       1469.       1848.       2       2         6.MOTOR VEHICLES       254.       268.       196.       148.       57.       47.         6.MOTOR VEHICLES       348.       349.       196.       186.       187.       4917.         8.MISC. MANUFACTURING       4346.       4816.       4249.       4648.       577.9       47.         9.TRANS., COMM., UTIL.       2934.       3567.       3647.       3634.       7779.       47.         1.FIN., INS., REAL EST.       428.       5165.       5809.       6681.       7779.       42657.       3594.         2.SERVICES       3568.       1497.       1567.       1567.       3648.       37	. PRINTING AND	CJ Q	28	340	6.4	9	<b>8</b>	9	
1.PETPOLLJM REFINING 2.PRIMARY METALS 3.5 A 95. 3.5 A 92. 3.5 A 92. 3.5 A 93. 3.5 A 94. 3.5 A 94	D.CHEMICAL	ę S	4	′ <b>ο</b>	<b>(~)</b>	ð	3.0	9	
2.PRIMARY METALS       835.       837.       420.       440.       426.         3.FABRICATED METALS       1958.       2254.       2421.       2755.       2981.         4.MACHINERY, EXC. ELEC.       8556.       9306.       1438.       16674.       18486.       272.         5.ELECTRICAL MACH.       254.       268.       1059.       1667.       18486.       572.         6.MOTOR VEHICLES       368.       368.       368.       474.       491.       474.         6.MOTOR VEHICLES       368.       366.       5279.       5620.       47.         6.MOTOR VEHICLES       4346.       4816.       4648.       4917.       4917.         6.MOTOR VEHICLES       546.       4648.       4917.       36345.       5620.         9.TRANS., COMM., UTIL.       29340.       35675.       34477.       36345.       7479.         9.TRANS., COMM., UTIL.       29340.       35675.       36477.       36345.       7479.         1.FINA., INS., REAL EST.       35598.       37369.       46681.       7479.       7769.         2.SERVICES       35698.       37369.       4668.       3668.       37367.       364.         4.STATE AND LOCAL GOVT.       <	1.PETROLEJM REFININ	<b>~</b>	$\sim$	t	4:4		<u>ා</u>	'n.	
3.FABRICATED METALS  3.FABRICATED METALS  4.MACHINERY, EXC. ELEC.  9306. 14380. 16674. 18486. 272.  5.ELECTRICAL MACH.  5.ELECTRICAL MACH.  5.ELECTRICAL MACH.  6.MOTOR VEHICLES  7.TRANS., EXC. MOI. VEH.  8.MISC. MANUFACTURING  9.TRANS., EXC. MOI. VEH.  8.MISC. MANUFACTURING  9.TRANS., COMM., UTIL.  29341. 35675. 34477. 36345. 37719. 4917.  1.FIN., INS., REAL EST.  2.SERVICES  3.SERVICES  3.SERVICES  3.TEDERAL GOVERNMENT  4.STATE AND LOCAL GOVT.  1564. 18225. 184979. 195159. 294377. 3  5. MILITARY  6.TOTAL EMPLOYMENT  158218. 18225. 184979. 195159. 294337. 328.  7.POPULATION  8.TOTAL INCOME  1222553. 1417198. 1807312. 2167391. 2575862. 36139. 1053979. 187312.  7.COPULATION  9.TOTAL EARNING  1009. 1009. 16074. 16687. 167496. 1999948. 283	2. PRIMARY METAL	$\Box$	M	Ċ	ţ		G 3	C1	
4.MACHINERY, EXC. ELEC.       8556.       9306.       14380.       16674.       18486.       2         5.ELECTRICAL MACH.       254.       254.       258.       49.       572.       572.         6.MOTOR VEHICLES       254.       268.       49.       57.       47.         7.TRANS., EXC. MOIT.       348.       4816.       4816.       4648.       4917.         8.MISC. MANUFACTURING       4346.       4816.       4249.       4648.       4917.         9.TRANS., COMM., UTL.       29340.       35675.       34477.       36345.       3779.       4         1.FIN., INS., REAL EST.       4288.       5105.       5466.       5279.       5620.       5         2.SERVICES       3780.       4288.       3786.       4288.       3786.       45665%       5         2.SERVICES       3780.       4288.       3780.       4288.       31787.       33947.       3         3.FEDERAL GOVERNENT       19889.       2356.       27318.       31787.       33947.       3         4.STATE AND LOCAL GOVT.       19889.       2356.       37.       38.       37.       38.         5.MILITARY       46178Y       46178.       46178.       46	3. FABRICATED METAL	S) IV	ς, ις	423	76	$\circ$		3381.	-4
5.ELECTRICAL MACH.       950.       1209.       512.       572.       47.         6.MOTOR VEHICLES       254.       268.       49.       57.       47.         7.TRANS., EXC. MOI. VEH.       348.       349.       196.       188.       182.         7.TRANS., EXC. MOI. VEH.       4346.       4816.       4249.       4648.       4917.         8.MISC. MANUFACTURING       5415.       568.       568.       5620.       4677.       5620.         9.TRANS., COMM., UTIL.       29340.       35675.       34477.       36345.       37719.       4         0.TRAD.       1NS., REAL EST.       32676.       5105.       5809.       6681.       7479.       7         2.SERVICES       37569.       40468.       42630.       45657.       5         3.FEDERAL GOVERNMENT       1554.       1497.       1560.       1603.       3747.       33947.       3         4.SITIARY       36.       27318.       31787.       33947.       3       3       3       3         5.MILITARY       158236.       410468.       427319.       441464.       46468.       304370.       384370.       384370.       384370.       384570.       464979.       192159.	4.MACHINERY, EXC. EL	S	<b>™</b>	438	299	40	1552	9	8-
6.MOTOR VEHICLES  254. 268. 49. 196. 188. 182.  7.TRANS., EXC. MOT. VEH. 348. 349. 196. 188. 182.  8.MISC. MANUFACTURING  9.TRANS., COMM., UTIL. 29344. 5688. 566. 5279. 5626.  0.TRAD.  1.FIN., INS., REAL EST. 29344. 35675. 34477. 36345. 37719. 4288. 5165. 5809. 6681. 7479. 5681. 7479. 5681. 7479. 5681. 7479. 5681. 7479. 5681. 7479. 5681. 74765. 3566. 5780. 5881. 7476. 3566. 5780. 5881. 7476. 3566. 57818. 31787. 33947. 358. 56101. 1564. 1663. 1663. 378. 378. 378. 378. 378. 378. 378. 37	5.ELECTRICAL MAC	EC	د» رم	~i	<b>. .</b>		25	÷	
7.TRANS., EXC. MOT. VEH. 348. 349. 196. 188. 182. 182. 8.MISC. MANUFACTURING 4346. 44816. 4249. 4648. 4917. 917. 917. 918. 188. 918. 918. 918. 918. 918. 918	6.MOTOR VEHICLE	S	9	40	rv		49	4	
8.MISC. MANUFACTURING 4346. 4816. 4249. 4648. 4917. 9.TRANS., COMM., UTIL. 2934L. 35675. 34477. 36345. 37719. 4 1.FIN., INS., REAL EST. 4288. 5155. 34477. 36345. 37719. 4 2.SERVICES 3.5598. 37369. 40468. 42636. 45665% 5 3.FEDERAL GOVERNMENT 1564. 1497. 1562. 16736. 33947. 3 5.MILITARY 6.TOTAL EMPLOYMENT 158238. 184979. 195159. 234337. 22 6.TOTAL EMPLOYMENT 38437C. 393762. 410221. 427319. 441464. 46 8.TOTAL INCOME 1222653. 1417198. 1307312. 2167391. 2575862. 361 9.TOTAL EARNING 946493. 1053979. 1395625. 167496. 283	7.TRANS., EXC. MOT. VE		34	96	œ	T-1	167	¥ 3	
9.TRANS., COMM., UTIL. 5415. 6688. 5866. 5279. 5626. 6.18477. 36345. 37719. 4.286. 35675. 34477. 36345. 37719. 4.286. 32698. 37369. 6681. 7479. 7479. 2.25ERVICES 32598. 37369. 40468. 42636. 456657. 5.18667. 33347. 33347. 33347. 33347. 33347. 33347. 33347. 33347. 33347. 33437. 33437. 33437. 33437. 33437. 33437. 33437. 336. 336. 336. 336. 33787. 33787. 336. 33787. 33787. 336. 33787. 336. 33787. 336. 33787. 33787. 338437. 338437. 338437. 338437. 338437. 33787.	8.MISC. MANUFACTURI	34	84	543	79	9	426	94	
0.TRADE       29340.       35675.       34477.       36345.       37719.       4         1.FIN., INS., REAL EST.       4288.       5165.       5809.       6681.       74794.       7         2.SERVICES       30598.       37369.       40468.       42630.       45665.       5         3.FEDERAL GOVERNMENT       1564.       1497.       1560.       1603.       1716.       1716.         4.SIATE AND LOCAL GOVT.       19889.       23560.       27318.       31787.       33947.       3         5.MILITARY       36.TOTAL EMPLOYMENT       158238.       182225.       140279.       195159.       204337.       22         7.POPULATION       384370.       393762.       416221.       427319.       441464.       46         8.TOTAL INCOME       1222653.       1417198.       1395625.       1674396.       2375862.       361         9.TOTAL EARNING       946493.       1053979.       1395625.       1674396.       283       361	9.TRANS., COMM., UT	1+ t.	<b>8</b> 09	5066	527	55	427	685	
1.FIN., INS., REAL EST. 4288. 5185. 5809. 6681. 74794 7. 2. SERVICES 3.0598. 3.7369. 40468. 42630. 456659. 5 3.5 FEDERAL GOVERNMENT 1564. 1497. 1560. 1603. 1716. 1716. 19889. 2.3560. 27318. 31787. 33947. 37. 38. 37. 37. 38. 37. 37. 38. 57. 5. MILITARY 37. 158238. 182225. 184979. 195159. 204337. 22. 7.00714 EMPLOYMENT 384370. 393762. 416221. 427319. 441464. 46. 8.7014 INCOME 1222653. 1417198. 1395625. 1674396. 2979948. 283	0.TRAD	934	295	4477.	3634	7719	1238	961	
2.SERVICES 30598. 37369. 40468. 42630. 45665% 5 3.FEDERAL GOVERNMENT 1564. 1497. 1560. 1603. 1716. 1716. 1716. 33947. 3 4.STATE AND LOCAL GOVT. 19899. 23560. 27318. 31787. 33947. 3 5.MILITARY 37. 158238. 182225. 184979. 195159. 204337. 22 7.POPULATION 1222653. 1417198. 1807312. 2167391. 2575862. 361 9.TOTAL EARNING 946493. 1053979. 1395625. 1674396. 1999948. 283	1.FIN., INS., REAL E	423	518	809.	668	5272	9230	*	
3.FEDERAL GOVERNMENT 1564. 1497. 1560. 1603. 1716. 4.STATE AND LOCAL GOVT. 19889. 23560. 27318. 31787. 33947. 3 5.	2.SERVICE	0.59	736	.8970	4263	5665	1556	947	
4.STATE AND LOCAL GOVT. 19889. 23566. 27318. 31787. 33947. 3 5.MILITARY 5.MILITARY 6.TOTAL EMPLOYMENT 158238. 182225. 184979. 195159. 204337. 22 7.POPULATION 384370. 393762. 416221. 427319. 441464. 46 8.TOTAL INCOME 1222653. 1417198. 1807312. 2167391. 2575862. 361 9.TOTAL EARNING 2946493. 1053979. 1395625. 1674396. 1999948. 283	3. FEDERAL GOVERNMEN	$\sigma$	449	156	160	1716	1798	208	
5.MILITARY 6.TOTAL EMPLOYMENT 158238, 182225, 184979, 195159, 204337, 22 7.POPULATION 38437C, 393762, 416221, 427319, 441464, 46 8.TOTAL INCOME 1222653, 1417198, 1807312, 2167391, 2575862, 361 9.TOTAL EARNING 946493, 1053979, 1395625, 1674396, 1999948, 283	4.STATE AND LOCAL GO	988	358	731	178	3947	8438	က တ	
6.TOTAL EMPLOYMENT 158238. 182225. 184979. 195159. 234337. 227. 400PULATION 384370. 393762. 410221. 427319. 441464. 468. TOPPULATION 1222653. 1417198. 1807312. 2167391. 2575862. 3619. TOTAL EARNING 946493. 1053979. 1395625. 1674396. 1999948. 283	5.MILITAR					37	33	M	
7.POPULATION 38437C. 393762. 416221. 427319. 441464. 46 8.TOTAL INCOME 1222653. 1417198. 1867312. 2167391. 2575862. 361 9.TOTAL EARNING 946493. 1053979. 1395625. 1674396. 1999948. 283	6.TOTAL EMPLOYME	5823	8222	8497	9515	34337	23598	3439	
8.TOTAL INCOME 1222553. 1417198. 1807312. 2167391. 2575862. 361 9.TOTAL EARNING 940493. 1053979. 1395625. 1674396. 1999948. 283	7.POPULATIO	8437	9376	1022	2731	t.	460270	9230	
9.TOTAL EARNING 946493. 1053979. 1395625. 1674396. 1999948. 283	8.TOTAL INCOM	22255	41719	80731	16739	5758	61571	2590	
	9. TOTAL EARNIN	6434	05397	39565	61419	9999	83504	95164	
0.TOTAL EMP(BY RESIDENT) 151457. 174494. 175196. 183525. 190520. 20	D. TOTAL EMP(BY RESIDE	5445	5+47	7519	8352	5067	0.503	1278	

DATE : 79/13/64.

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## (BY STATE POPULATION PROJECTIONS)

TABLE B.13.ESTIMATED AND PROJECTED TOTAL EMPLOYMENT IN SPECIFIED INDUSTRY 1970-2020 REGION 11 , MINNESOTA

INDUSTRY	EST	IMATED			ROJE		
NO. IIILE	1970	1975	0861	1 pa 1	1990		2020
AGETOIII TIIOF - FOR	ກ :	.a 1	V	)O	D	ภ F	10 10 10 10 10 10 10 10 10 10 10 10 10 1
MINING	. 10 ا (ف	- i	7 1	ي عرو	ώ :	က ဆ i	M ( 20 I 12. (
ONSTRU	<b>σ</b> ι	ا ت	N	65222.			
.FOGD PROD.	<b>N</b>	74	S	(N	ŧ.	$\neg$	6
· TEXTILE P	せるで	±28	137	117	₩ ₩ ₩	9	785
APPAREL	S	00	78	9	27	Q,	362
· LUMBER . F	9	45	<b>№</b>	<b>t</b>	<b>₩</b>	5	74
.PAPER PROD.	699	585	537	569	585	040	5588
• PRINTING	95	69	36	ትም ት	4	5	70
0.CHEMICALS	69	659₽•	272	519	£8⊈	547	5906
1. PETROLEUM RE	-√1 t	Š	₩. 00	00	ОО СИ	87	90
2.PRIMARY META	عز	2	23	17	166	g.	Ş
3. FABRICATED M	120	348	195	273	248	241	F 00 5
4. MACHINERY, E	656	5	70	29	29	9	4.4
5.ELECTRICAL M	17	548	582	785	6107	497	22.0
6.MOTOR VEHICL	378	10	39	7	<b>60</b>	2	ŭ
7.TRANS., EXC.	35	78	t.	<b>₽</b>	င်း မ	4	ω (λ)
8.MISC. MANUFA	25.5	0.14	476	140	261	248	670
9.TRANS., COMM	769	928	547	478	636	005	221
0.TRADE	00 1-14	4953	75	75	671	τ. (	0743
1.FIN., I	5211	925	606	234	7712	978	200
2.SERVI	035	0244	0 4 8	387	436	473	7112
3. FEDERAL GOVERNMEN	2017	829	827	78	631	133	2767
4.STATE AND LOCA	9:1	715	607	977	322	907	576
5.MILITARY	3	92	~	نٽن دو	ĝ	တ	UT OB
6. TOTAL EMP	8742	5639	38526	13468	18446	27373	39439
7.POPULATION	87927	91978	768	12146	22249	35569	70072
8. TOTAL INCOM	0637	3911	48693	355314	597786	936LE	12118
.TOTAL EA	49733	90641	59411	6.5	30	783531	392991
D. TOTAL EMPCH	9626	8189	7261	01863	06669	45402	26653

DATE : 79/10/34.

TARLE C.1. ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY 1970-2020 Region 1 , minnesota

	1				אָס <b>ט</b> ון	(	
NO. TITLE	0.61	1975	1986	1985		2000	2320
• • • • • • • • • • • • • • • • • • •	(VALUE I	N THOUSAN	DS OF 1967	Ò			
4 A G R T	80 (U	95	47007.	49377.	51051.	56839.	69997.
	けらい	867					<b>(~~)</b>
TOO	7367	6839.	<b>6</b>	5	695	$\overline{\mathbf{o}}$	.#
F000 PK00.	۲) (۱)	2	ø	8 357.	221		σ
d STILKEL	c	9	د. د ا	71	**	+-1	c
APPAKEL	Q	(VI	43	29	~		8
LUMBER. FU			5126.	9	4~4	6/	S)
PAPER PROD.	4.4 4.4	रत्त्र कर्न	<b>1</b> -1	ហ			
PRINIING A	*	$\Box$	$\odot$	8		1721.	2961.
O. CHEMICALS	34	335	<b>∞</b>	-	17	6	44 80
1. PETROLEJM REF		O		0		C	
2. PRIMARY METALS	N		īŲ.	7 •	۵۰		+-1
. FABRICATED METAL	132.	• 36	2	-4	786		
4. MACHINERY, EX	5775.			13	3	44	œ
5. ELECTRICAL MACH.	ſΣ	R	25	9	11	(C)	17
6.MOTOR VEHICLE	က	~	53	712.	915	134	248
7. TRANS EXC. MOT	+4	Q	5	56	233	949	25
8.MISC. MANUFACTURI	01	86	サカマ	367	2528	17	821
9. TRANS., COMM., U	7.5	<u>6</u> 13	35	369	378	3 53	4160
O.TRADE	51	17	808	3	1037	857	C)
1.FIN., I	•ط (1)	55	58	E)	8311	337	515
2.SERVICES	,t ~	37	358	239	245	0.93	7:1
3. FEDERAL GOVER	(A)	527	94	(A	8475	151	<b>0</b> 32
4. STATE AND LOCAL G	83	55	105	635	17 17 18	879	337
5-MILITARY	42	14 17	23	4+4	1662	215	S
6.TOTAL EMP	929	725	535	627	733	966	951
7.POPULATION	482	784	643	823	897	779	9663
8.TOTAL INCOM	5196	2843	2702	8	3	52	87
9. TOTAL CAR	425	829	545	9143	4363	7328	0073
>0.00 C	0	20.5	201.2	60	800	4.00	15.5

DATE : 79/10/04.

PAGE

(BY STATE POPULATION PROJECTIONS)

DATE : 79/10/04.

INDUSTRY	Lui.	IMATED			<u>C</u>		
TITLE	970	975	198		1990		2020
	(VALUE I	N THOUSAND	S OF 1967	DOLLARS)	9 8 6 8 8 8	\$ 8 8 9 8 8	8 8 8 8 8
.AGRIC	4	7	4033.	4116.	4119.	• 6694	5892•
MINING	<u> 1856</u>	379.					
. CONSTRU	لئ ت	œ	S)	50	106	6. 1.	922
.F000 PPOD	₽.	Ω Ω	806	3 2 2 2	1042	Œ	187
.TEXT			310.	392.	472	754.	1682.
. APPARE	9	C)	07	9	ţ	$\sim$	ത
·LUMBER, F			Ś	j. r	<b> -</b> -	£	78
· PAPER PR	7	9	171	œ •4	S	€.	662
. PRINTING A	(A)	Ś	QD:	(J	ทง	CO	357
0.CHEMICAL			ဖ	W	80	2	<u>ب</u>
1. PETROLEUM RE				<b>j</b> uk			
2. PRIMARY META	<b>c</b>				O	0	<b>6</b>
3. FABRICATED METAL	47	N	₽. O.	<b>5-3</b>	78	φ +	
4. MACHINERY	133.	120.	•60¥	147.	195	333.	6û3 <b>.</b>
5. ELECTRICAL MACH.	29	19	00	ස ග	29	40	47
6.MOTOR V-HICL							
7. TRANS., EXC. MOT.	5	ထ	76	9	80	99	€78
8.MISC. MANUFA	261.	4	£	95	75	Ŝ	က မ တ
9.TRANS., COMM., UT	دو ټ	5538.	6201.	7753.	9582.		27547.
O.TRADE	-	9	83	73	jus.	99	
1.FIN.	ψ ‡	9	324	12	550	937	œ မ (၃
2. SERVICES	Ω Fr	4	48	S)	<b>436</b>	803	497
3.FEDERA	27	57	ტუ <b>5</b>	<del>ارا</del> 10	185	23	878
4. STAT= AND L	9	88	75	+	173	123	226
5. MILITAKY	S	$^{2}$	ზ	0	4.	37	200
6. TOTAL EMP	722	197	405	182	434	837	317
7. POPUL ATION	473	460	076	41.8	692	278	\$ \$
8. TOTAL INCOM	101799.	9	3923	7049	1611	€828	3495
OTAL EAR	960	178	574	217	353	<b>₩</b>	427
		1	)	į		)	

TABLE 6.3, ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY 1970-2520 RESIGN 3 , MINYESOTA

1		ב ב ב						!
NO. TITLE		1975	198C	1985	96	1 (3)	2323	i :
*	(VALUE I		S OF	DOLLARS)	? # P & 6 B & 8 B #	; ; ; ; ; ; ; ;	! !	; ! !
• AGRIC	c) C	<u>စ</u>	42	55	79	450	40	
	116543.	129373.	129335.			150836.		
. CONSIRUCT	4832	7937	9946	√ <b>1</b>	29	136	26	
.FOOR PROD.	153	37	244	1516	1599	1815	3:7	
.TEXTILE P	W.	1-1	58	93	$\infty$	127	$\infty$	
* APPAREL	35	46	50	4	86	14 50 50 12 13 13 13 13 13 13 13 13 13 13 13 13 13	792	
.LUMBER, F	261	222	405	636	662	272	(V)	
. PAPER PROD.	9	377	495	356	222	964	943	
. PRINIING	(/) (ii)	75	5	33	9	22	0.81	
D.CHEMICAL	272	26	M	256	96	604	8.1	
1.PETROLEUM REF	+1	73	<b>47</b>	γ·1	98	125	261	<b>-</b> 5
. PRIMARY M	7	O	194	530	691	25	53	2-
3. FABRICATED METAL	75	93	ø	4	97	409	407	
4. MACHINERY, EX	7.8	26	72	ເລ ເລ	#	173	773	
5.ELECTRICAL MAC	15	22	84.0	96	693	73	69	
6.MOTOR VEHICLE	35	$\Box$	47	96	61	ф 8	さい	
7.TRANS., EXC. MOT	26	4	544	38	556	82	254	
8.MISC. MANUFACTURIN	325	39	223	32	732	870	1385	
9. TRANS., COM	643	$\alpha$	œ	IJ	71	1514	ျ	
0.TRAD	(1) (1) (1)	326	3523	7558	7600	733	3750	
1.FIN. 1	(X)	643	222z	3953	4870	7231	3470	
2.SERVICES	07.8	<b>6</b> 06	966	984	962	793	4299	
3. FEDERAL GOVERNME	333	585	223	១១៩	4747	2069	4278	
4.STATE AND LOCAL 3	378	224	3456	8876	254	568	9354	
5. MILITARY	2559	1786	0310	247	2520	082	916	
6.TOTAL EMP	2322	3588	94224	4568	+770	5345	5552	
7.POPULATIO	3046	2901	3629	3255	3235	32540	2639	
8.TOTAL INCOM	50.8	5°2	371365	59023	83634	6/13	15599	
9. TOTAL EAR	5040	85362	3793	0385	3251	91168	6949	
0.TOTAL EMP(BY	1634	2626	12190	13327	13446	13814	30.00	

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INDUSTRY	EST	IMATED			OJECTE		
NO. FITLE	0 1	1975	138	1985	366	20 1	N I
8	(VALUE I	N THOUSAND	S OF 1967	DOLLARS)	1 8 6 9 1 1 1	1 1 1 1 1	
AGR	78866.	96905.	60433.	63412.	65279.	72286.	87647.
• MININ	96	627	もな	9	6 <u>1</u> 6	63	00 40
. CONSTRU	ky Co	348	704	4	g	S	+
.FOOD PROD	876	t.	CW	776	9986	539	5546
.TEXTILE	7	22	ഗ	73	73	() ()	45
· APPAREL	-4	9	53	298	95	$\mathbf{c}$	98
· LUMBER F	7	87	8	on Un	902	(C)	668
PAPER PROD.	CO CO	372	585	734	965	<del>ب</del> ش	3105
PRINTING		œ	œ	ν: Φ:	S	۲. س	<del>ار</del>
O. CHEMICALS	37	470	611	C) Pr OO	643	779	3496
11. PETROLEUM RE							
2. PRIMARY METALS	9	4	か い	33	385	5	838
13. FABRICATED METAL	SC L	79	<del>سر</del> ت	t. Fr	Ω.	S	184
• MACHINERY	1995.	2594.	2724.	3454.	4389.	5299.	15849.
5.ELECTRICAL MACH.	3	₩.	9	G	C	2	921
6. MOTOR VEHICL	ú	OD	7	33	162	ŧ	825
7. TRANS., EXC. MOT.	97	89	792	258	194	544	1567
8.MISC. MANUFACTURING	87	<u>ф</u>	ţ.	582	4447	873	4744
9.TRANS., COMM., UT	925	00	316	466	~	‡.	1639
O.TRADE	9	999	544	7800	252	336	7215
H.FIN.	\$ 00 00	39	S S	7288	167	3354	6326
2.SERVICES	9	485	965	877	224	532	486
3. FEDERAL GOV	745	40	95	99	1429	983	3+60
4.STATE AND LOCAL 5	Q.	10	η H	195	822	818	357
5. MILITARY	ري. دي	83	17	57	96	394	299
6.TOTAL EMP	55 Z	275	678	633	289	∂36	365
7.POPULATION	8585	9173	9558	0228	3681	1289	1962
8-TOTAL INCOM	30 0 0	858	220	732	479	983	762
9. TOTAL MARN	6160	7705	2588	1185	2462	7163	52370
2 4042	カル	ت ص الا	831	1. 1.	12 12 13	り い に	379

TABLE C.S. ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY 1973-2020 Region 5 , minnesota

		) ;			ようつという		1	1
NO. IITLE	1970	7.5	1980	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 0	2300	2323	
1	(VALUE I	11 - 7	S OF					
AGRICHI THRE	24447	_	4	97	605	10	73	
	, (C	97	ं उ <b>र्</b> । स्त्री ।	138	M		ed rd	
(_)		9752	632	14298	372	25478.	2903	
FOOD PEDD.	81389	9	6598	2317	7639	0 1 6	173	
TEXITE	O.	7	$\infty$	9	67	ထ	683	
APPAREL	<del>بار</del> (ي	11	619	737	31.6	in 1	390	
LUMBER, FU	5	9	282	368	737	768	1383	
PAPER PROD.	Œ	$\odot$	8	69	733	79	1658	
PRINITNG A	5	S	4994	1949	8269	313	4624	
D.CHEMICALS	\ ⊘	37	7,7	100 Q	4	(A)	7 7 7	•
1.PETROLLUM REF	C	~				0		- 5
2. PRIMARY METALS	್ತ	00	<b>M</b>	ę.	++ -#	641	985	4-
FABRICATED METAL	*1	0.7	456	1385.	2404.	3735.	6793.	
4. MACHINERY, EXC.	~	S	68	.; <b>†</b> 80	337	613	() () ()	
5.ELECTRICAL MACH.	++	-3† -3†			၁	(3)	ပ	
6.MOTOR VEHICLE		90	نت)					
7.TRANS., EXC. MOT	38 38	<b>t</b>	839	727	275	0502	1.93	
8.MISC. MANUFACTURING	75	36	084.	2375	2672	396	4573	
9.TRANS., COMM., U	079	280	3216	16106	0.84	8599	728	
0.TRADE	55	<b>₩</b>	219.	51929	0520	3886	0634	
1.FIN. 1	57	579	8786	1256	4335	23274	4472	
2.SERVICES	47	93	992	9583	3119	9464	(1) (2)	
3. FEDERAL GOVERNME	711	761	0132	248	5297	25483	せいいせ	
4.STATE AND LOCAL	20	93	3932	206	43.64	5672	033	
5. MILIEARY	137	136	2205	247	669	332	624	
6.TOTAL FMP	83	468	4703	727	9689	5+5	534	
7. POPULATION	1391	2419	22469	127581.	31790	139507.		
8.TOTAL INCOM	(U)	3 96	8704	634	6173	778	120	
9.TOTAL FAR	7337	0022	52935	0954	77338	6125	8013	
	. P		1 1 1 4 7	0 2 2 7	7	10	13	

DATE : 79/13/64.

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INDUSTRY	EST.				ROJECTE		
NO. FITLE	D	1	980	985	99	0	2920
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	(VALUE I	N THOUSAND	S OF 1967	DOLLARS)	i i i i i	! } ; ! ! ! !	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
• AGRI	ᢐ	ω 00	co Co	ហ	വ	<b>}</b> →	₽``
MINING		2209.					
• CONSTRUC	722	98	8 6 D	453	1067	715	272
.FOOD PROD.	653	4 12 80	Ś	vi	268	t.	t.
.TEXTILE	£-	$\Box$	130	29	1877	65	С: Ос
· APPAZEL	$\boldsymbol{\sigma}$	S	45	5	743	E N	40
·LUMBE	N	‡.	75	<b>0</b> 0	884	U T	e,
.PAPER PROD.	ti M ti	SO.	46	64	769	73	539
• PRINTING	2. 1.2	763	C) 00	S	5235	e e	63
O. CHEMICAL	9	72	Û	€97	306	986	440
1. PETROLEUM REF	Ś	<b>0</b> 0					
2.PRIMARY METALS	98	7	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	<b>co</b>	W
13. FABRICATED METAL	569	മ	36	73	433	1987	243
14.MACHINERY. EXC.	C	n N	တ	W	pris pris	77	S
.ELECTRICAL MACH.	<u>ပ</u>	D.	116.	.641			
6.MOTOR VEHICLE	₽~	2	2	N	S	+	œ
7.TRANS., EXC. MOT	• 21	7	97.	j	7	4	2
8.MISC. MANUFACTURING	<u>တ်</u>	80	33	5	67	1735	711
9.TRANS., COMM., UTI	8189.	9192.	9819.	236	90.0	70	ഗ
D.TRADE	57	ж С	80	926	163	3926	624
1.FIN., I	jus (N)	17	96	25	ri Cir	2141	4258
2.SERVICES	77	7	75	8+6	193	8653	87.4
3. FEDERAL GOVERNME	332	504	37	40	815	185	2216
4. STATE AND LOCA	77	S	44	40	63	745	698
5.MILITARY	92	9	156	78	198	248	377
6.TOTAL EMP	(1) (1)	955	493	342	512	219	276
7.POPULATION	98415.	624	0401	មិខមិ	1295	1892	2328
8. TOTAL INCOM	9403	១១7	576	ь. М	538	710	67815
9. TOTAL EARN	532	8415	2781	9553	7581	8851	9768
PATOTAL - MPIR	N N	co Co	597	42.0	E 45	<u>ი</u>	(V) (U)

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TARLE C.7. ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY 1970-2620 Region 6W , Minnesota

INDUSTRY	£.S	IMATE			OJECT			
0.	7.5	1975	1986	1985	366	2003	2020	1
*	(VALUE I		S OF 1967	DOLLARS)	! ! ! ! !	8 8 9 9 8 9 8 8 8 8		
.AGRIC	69	79	***	~	I.O.	∞	(2	
.MINIM.	M List	3	56	56	n n	n N	ry O	
.CONSTRUCT	6133.	7455.	9713.	11282.	12939.	16493.	25283	
.F000 P	5	27	O	900	628	669	897	
.TEXTILE P		t	7	8	σ	0	10	
. APPAR			H	(J	M	S	3	
.LUMBER, FU			*	W		ð	N	
. PAPER P			7 8	S	$\sim$	n	$\infty$	
. PRINTING A	3	t	t.	17	$\sim$	C	in U	
G.CHEMICAL	9	210	4	37	774	717	(1)	
1.PETROLEUM REF	0	0	O)	<b>c</b>				<b>-</b> 5
2. PRIMARY METAL	ပ	0	<b>C</b>	0	C	0	(C)	6-
ED METAL	7.8	26	4	776	in.	975	£83	
4. MACHINERY, EX	2109.	~	83	σ	80	in	Ø	
S.ELECTRICAL MA	8	54	8	6	တ္	65	15	
6.MOTOR VEHICLE	75.	$\Box$	44	S	00 11	27	47	
7.TRANS., EXC. MOT	iU	Ø	67	<b>+</b>	C	σ	Φ	
8.MISC. MANUFACTURIN	63	87	87	43	о С	14	2.8	
9.TRANS., COMM., UI	*1624	5603.	6214.	7428.	8746.	11747.	19178.	
O.TRADE	59	\$	(C)	25	ţ,	पर्न पर्न	53	
1.FIN.	75	63	28	641	772	3 80	879	
2.SERVICES	ŝ	36	34	<del>ა</del>	32	13 15 15 15 15 15 15 15 15 15 15 15 15 15	716	
3.FEDERAL GOVERN	47	285	317	356	419	524	83	
4.STATE AND LOCAL	5	56	88	17	54	5	419	
5.MILITAR	5	9	.#	9	20	130	217	
6.TOTAL EMP	382	855	6 0 5	603	596	5 0 0	せのす	
7.POPULATION	265	1224	030	043	986	699	555	
8. TCTAL INCO	2549	C	ŧ	M	16	0547	5669	
9. TOTAL EARNI	995	5548	6433	8661	1048	563	5775	
C. TOTAL EMP (8	185	618	644	4+4	420	355	215	

DATE : 79/10/04.

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TABLE C.8. ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY 1973-2526 REGION 7E , MINNESOTA

NOUSTRY	ĒSTI	MATED			ROJE		
NO. FITLE		1975	1980	1985	1990	2000	2023
	(VALUE IN	THOUSAND	S OF 1967	DOLLARS)	# # # # # # # # # # # # # # # # # # #	# # # # # # # # # # # # # # # # # # #	1 1 1 1 1 1 1
1.AGRICULTURE, FOR., FISH.	18754.	16941.	12834.	O O	<b>∺</b>	7	(v)
INING	4	t	W			t VI W	
· CONSI	<b> -</b>	85	74		96	29	687
•F00D PR0D	Ú1		4647	0 + 5	4429	3 8 3	ပ္သာ မေ
.TEXTILE P	Ν	W	16.	4-4	42	W	ď١
• APPAREL		$\sim$	F	Q	<b>10</b>	6	() ()
$\{ T \}$	S	7	<b>5</b> 5	6	665	F+	Q
.PAPER PROD	-	<b>668</b>	40	92	192	9 14 14	C 125
• PRINTING	<b>}</b>	C	29	9	σ	12	147
O.CHEMICALS	£	<b>(</b>	257	34	433	75	38
1. PETROLEUM RE	2	8		4	S S	UI.	47
2.PRIMARY METALS	Ü	ŧ.	9	U)	6	فات	$\Box$
3. FARRICATED METAL	8,4	78	59	98	77	223	309
4. MACHINERY, EXC.	~		4.	3	S	œ	87
5.ELECTRICAL M	40	73	~	97	1216	158	£28
6.MOTOR VEHICLE	œ	1	• a •		7	S	<b>₩</b>
7.TRANS., EXC. MOT.	Ŋ	26	34	57	87	٦I سا	33
8.MISC. MANUFACTURI	79	68	92	9	9	798	7493
9.TRANS., COMM., U	4026.			+-	2:5		
O.TRA	သ (ည	17	52	Ł	5	88 ¥	809
FIN.	57	12	71	7	о 5	527	3367
2.SERVICES	Si	9	ອ ຮ	S	336	750	268
3.FEDERA	<b>1/2</b>	73	73	7	ទី	ຫ c ຫ	2849
4. STATE AND LO	t,	Ç S	4,	9	ŝ	487	481
5. MILITA	7		85	S	269	400	₩. 00
6.TOTAL EMP	(I)	0 97	371	837	338	459	968
7. POPULATI	655	035	354	6484	1689	4239	5475
8. TOTAL INCOM		259758.	330255.	20	W	CV)	63
TAL EARNING	0537	2837	7484	3104	3430	2432	9183
OLTOTA: FMD (B	こちら	323	もらら	095	617	853	347

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TABLE C.9.ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY 1970-2625 REGION 7W . MINNESOTA

NO. TITLE	11111111111				) ) )	i i		1
ł + + + + + + + + + + + + + + + + + + +	1970	75	386	1985	1990	2002		:
	I EUJEV)	N THOUSAND	S OF	0011	9 9 8 8 8 8 9 9 1 1	t t t t t t	• • • • • • • • •	
. AGRIC	(v)	35	0.34	10 10 10	r L	4	ιΩ TH	
DZHZHZ.	**************************************	(2) (3)	44 63 44	132	() ()	& ⊕ 1	i.)	
.CONSTRUCT		3.58	S	S	843	(س)	r.	
. FOOD PROD.	873	10	999	295	t	211	4761	
*TEXTILE	61	M	<b>t</b> .	<b>8</b> 5	39	9	<del>ار</del> د	
APPAREL	9	st ∞	t,	17	9	99	62	
.LUMBER, FU			3122.	3755.	4526.	6313.	10613.	
. PAPER PROD.	ж. ж.	4	69	41.8	4327	ţ,	75	
. PRINIING	3.5	4.4 [A)	549	77	322	1990	579	
O.CHEMICALS	10	C	35 33	8	80	e t	845	,
4. PETROLEJM REF	1-4	+1		O	cu	c	<b>a</b>	5
2. PRIMARY METALS	+1	S	ιυ C3	93	63	16	959	8-
ED METAL	6644.	3646.	11384.	15155.	29194.	33625.	65729.	
4. MACHINERY, EXC	44	$\boldsymbol{\sigma}$	6285	8519	1821	0279	3883	
5.ELE CIRICAL MA	전	53	ပ	O	ෆ	O	ဘ	
6.MOTOR VEHICLE	σ	9	ပ	C)				
7.TRANS., EXC. MOT	46	94	2087	443	2883	781	5687	
8.MISC. MANUFACTURI	735	4	347	7211	962	2980	5756	
9. TRANS., COMM., U	17	63.8	8256	565	4814	0116	28773	
O.TRAD	355	44 10	5347	1757	1796	3157	30303	
1.FIN., 1	65	39	5324	20076	26899	69897	0000	
2.SERVICES	377	0.82	111	9	1749	69	492	
3. FEDERAL GOVERNMEN	* 1 M)	73	225	2829	3581	5489	132+	
4.STATE AND LUCAL	ा । ।	356	609	539	3343	032	4714	
5. MIL II AFY	<b>∞</b>	193	4	398	9	<b>™</b>	031	
6.TOTAL EMP	843	344	983	8675	528	1324	2493	
7.POPULATION	7397	9732	3651	2676	4839	8803	2600	
8.TOTAL INCOM	CO	ī	754584.	963359.	1227398.	1953194	5737094.	
9. TOTAL EAR	3632	8297	7687	2266	76175	9580	36927	
S TOTAL S	,		6	- 1	1	100	iii iii iii iii iii iii iii iii iii ii	

79/10/64. DATE :

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TABLE C.10.ESTIMATED AND PROJECTED TOTAL EAPNING IN SPECIFIED INDUSTRY 1970-2020 REGION 8 , MINNESOTA

INDUSTRY		IMATED			OJEC		
11	97	7	9		366	200	2
	(VALUE I	N THOUSAND	S OF 1967	DOLLARS)	1		4 9 8 1 9 9
AGRIC	Ω1 4-4	FF	no h+	<u>ن</u>	Q,	ပ် ပေး မ	(D) (D)
HNING	£.	t h					
• CONSTRUC	227	42	538	569	903	2359	1351
•F000 PK00	75	73	<u>က</u> မ	4	67	423	C)
.TEXTILE P	2	t.	iz W	38	₽ P	ហ	701
· APPARE	$\circ$	7	7	7	7	တ	<b>F</b> -1
· LUMBER, F	()	9	O0 1⊷h	N N	(1) (0) (1)	£ 63 4	76
· PAPER P	\$	7	တ	C	90 4	Ψ. W	414
. PRINTING A	39	ω	(A)	ħ.	Ċ	<b>}</b>	C.
0.CHEMICAL	73	S	76	8	929	1331	2737
1. PETROLEUM REF	7	$\iota \circ$	<b>D</b>	ల			6
2. PRIMARY METAL	<b>C</b>	e.s	¢,				
3. FABRICATED MET	20	Ç	036	245	572	251	4253
· MACHINERY, MXD.	5394.	6036.	7858.	5558.	6686.	8936.	14548.
5. ELECTRICAL MAC		Q.	5	4	158	852	3966
6.MOTOR VEHICLE	Q,	Q	$\Box$	ŧ.	<u>5</u> 8	£82 ₩	539
7. TRANS., EXC. MOT.	Q,	ن پئ	₩ 00	176	633	424	ы М
8.MISC. MANUFACTU	6.	27	79	œ ++	e 140	459	ξij.
9. TRANS., COMM., U	$\vdash$	ე გ	174	399	8426	₽ 00 01	4248
O.TRADE	96	Jo UI	907	919	7767	488	966
1.FIN.,	73	<b>(</b> ξ)	ŧ.	j. s. jui	427	<b>8</b> E	3122
2.SERVICE	X.	9	397	296	2943	æ ≥ 3	1861
3. FEDERAL GOVERNME	က် ပေ	9	233	0.00 0.00	060	222	8174
4. STATE AND LOCAL G	000	4	891	539	6710	866	817
5.MILITA	P.F.	4	ς (γ)	325	3549	380	566
6.TOTAL EMP	349	984	399	433	421	3 43	E-1
7. POPULATIO	0674	1904	4096	4319	4361	3902	4219
8. TOTAL INCO	336	184	110	423	0 1 1 1	646	887E9
9.1014	§ 8E6	4928	5693	1391	3442	1390	2167
	ว์ ท	٠. (ا الم	\ \ \ \ \ \	  	200	S) J)	)O

TABLE C.ILESTIMATED AND PROJECTED TOTAL EAPNING IN SPECIFIED INDUSTRY 1973-2020

URE, FOR, FISH, 12 TIGN 2 PROJ.	ALUE 20 88 20 20 11 12 20 20 20 20 20 20 20 20 20 20 20 20 20		)	• •	1006	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	2a2	) 
1.AGRICULTURE, FOR., FISH. 12 2.MINING 3.CONSTRUCTION 4.FOOD PROD. 5.TEXTILE PROD. 6.APPAREL 7.LUMBER, FURN.	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9 : 6 : 6 : 7	3004	1985	ار	ا د	i	1
AGRICULTURE, FOR., FISH.  MINING CONSTRUCTION FOOD PROP.  TEXTILE PROP. APPAREL LUMBER, FURN.	, , , , , , , , , , , , , , , , , , ,	HOUSAND	S OF 1967	1700	t f f t t t t	2 5 6 6 1 9 1 1		 
AGRICULTURE, FOR,, FISH, 12 MINING CONSTRUCTION FOOD PROD. TEXTILE PROD. LUMBER, FURN.	- 8 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2							
MINING CONSTRUCTION FOOD PROD. TEXTILE PROD. APPAREL LUMBER, FURN.	8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4 8 4	n t.	8 7	36	4	37	9	
.CONSTRUCTION 2 .FOOD PRODTEXTILE PRODAPPAREL .LUMBER, FURN.	10000000000000000000000000000000000000	340	133	80	t t	5	98	
FOOD PROD. TEXTILE PROD. APPAREL LUMBER, FURN.	すり ちょう ちょう ちょう ちょう ちょう ちょう ちょう ちょう	126	375	233	\$ \$	553	4244	
.TEXTILE PRODAPPAREL .LUMBER, FURN.	すれららくられまり ちままま マミヤマ ちゅうしょ	59	61	3	167	.t M	11	
.APPAREL •LUMBER• FURN• •Abel olon	で ち ら ら く ち す こ ら ら ち を て す	33	3	56	S	$\mathbf{\sigma}$	13	
·LUMBER· FURN. Darber Debon	り ち な ま な ち ち ち ち ち ち ち ち ち ち ち ち ち	4	69	ŝ	9	かり	11	
	0 4 4 0 4 4 0 6 7 6 7 7	83	<b>†</b>	9	69	Ċ	d o	
・コウイト イルトはし	4 to	29	7	97	87	t.	422	
. PPINTING AND PUS.	4	82	37	73	89	ເລ ເກ ເບ	780	
0.CHEMICALS		193	280	379	99	23	192	
1.PETPOLEJM REFINING	6.1 W	28	8	. <del>†</del>	73	95	404	-6
2.PRIMARY METALS	4	8	8 7	49	η. 20	52	56	0-
*FABRICATED METALS	$\infty$	6335.	10066.	12891.	16279.	25023.	47676.	
4.MACHINERY, EXC. ELEC.	4	48	9	₩ ₩	20	<del>ال</del> ت	111	
5.ELECTRICAL MACH.	692	77.7	820	736	906	0.25	427	
6.MOTOR VEHICLES	232	(C)	63	98	かり	9 0	947	
7.TRANS., EXC. MOT. VEH.	⊕ T	74	S	75	9	157	867	
8.MISC. MANUFACTURING	539	808	928	63₿	471	53.3	037	
9.TRANS., COMM., UTIL.	573	ŝ	5.0	17	84	245	958	
0.TRADE 7	27.6	957	80 ₹3	276	623	000	137	
1.FIN., INS., REAL EST.	297	556	2159	969	332	5021	487	
2.SERVICES 5	505	357	506	543	636	330	425	
3. FEDERAL GOVERNMENT	739	37	95	184	397	1893	3255	
4.STATE AND LOCAL SOVT.	753	63	92	840	387	594	027	
5.MILITAKY	213	7	147	204	65	6 0 3	0 10 10	
6.TOTAL EMPLOYMENT 8	672	0360	0630	3585	1032	5002	2725	
7.POPULAT104	364	1787	2792	3445	3894	4337	5546	
8.TOTAL INCOME	185	7 8	59	∞	S	23	827	
9.TOTAL EARNING 48	477	9634	5651	8275	07178	51088	66854	
0.TOTAL EMP(BY RESIDENT) 8	767	9814	628	0104	3468	1247	1839	

79/110/64. DATE :

## TABLE C.12.ESTIMATED AND PROJECTED TOTAL EAPNING IN SPECIFIED INDUSTRY 1973-2020 REGION 10 , MINNESOTA

INDUSTRY	EST	IMATEO			POJ.		
	970	1975	1386	985	_ :	2000	2320
	(VALUE I	N THOUSAND	S OF 1967	DOLLARS)	1 1 2 4 1 1	8 8 9 8 8 8 8 8	1 1 4 3 7 4 4 1
• AGRIC	72	ω (5	71	0	9	4	6
・スピスピス	101 101	3	9	1-4 00	79	t.	S
.CONSIFU	389	6±8	200	665	1531	6173	7468
• F000 PK3	163	<b>τ</b> .	99	C: VI	4	1. 10.	663
· TEXTILE P	Q Q	بديو دسو	438	ლ დ	51 92	759	1158
· APPARE	D. t.	57	93	۱Ų ب	€	S	794
·LUM3ER, F	ro No	4	2	959	984	336	380
· PAPER PROD	S	+ +	668	828	239	တ ပာ	77
• PRINTING	S	974	э 8	900	€37	895	დ წ
C.CHEMICAL	en en en	536	0.43	7981	9796	1442	979
1. PETROLEJM REF	ЭD	CA	Ω 2	394	792	もらい	524
2. PRIMARY METAL	C	9	S	4 2 3	Ċ	W	တ
3.FABRICATED HE	833	870	592	2046	913	497	280
F. MACHINERY, MXC.	င္း	3	67	318	374	10 U	116
5.ELECTRICAL MAC	7253.	8395.			3474	12653.	22855•
6.MOTOR VEHICLE	(* . ( .)	35	co H	ن تو	175	171	₩ 4 0 0
7.TRANS., EXC. MOT.	دو عل	73	(C)	Αr	75	819	N
<b>B.MISC. MANUFACTURING</b>	785	900	537	527	666	375	5057
9. TRANS., COMM., UTI	(X)	5	89	ت ای	75	0857	101
C. TRADE	958	# # #	186	408	857	16491	3256
PARINA P	2851	3193	5352	6838	8697	563	8348
2.SERVICES	555	377	621	403	699	5593	7129
3.FEDER	(C)	2447	τ. Γ. Ου	166	568	515	6277
4. STATE AND LOCAL 3	475	574	273	974	620	<b>₩</b>	266
5.MILITA	ပ္သာ <b>တ</b>	œ	5	h+ †_	<b>N</b>	785	287
6.TOTAL EMP	58 E 3	8222	8497	9515	3433	2359	3439
7. POPULATIO	8+37	9376	1022	2731	9444	5027	9230
8. TOTAL INCOM	2255	41719	85731	16739	57586	61671	<b>3</b> 259J
. TOTAL EAR	€: 4: €:	<b>7</b> 6	62	S	40	† (1)	104
	51 : :	7669	7519	00 14 11 (1)	9357	٠ ا ا ا	1278

TABLE C.13.ESTIMATED AND PROJECTED TOTAL EARNING IN SPECIFIED INDUSTRY 1970-2620 Region 11 , Minyesota

### STATE TITLE	STRY	1	AT	i		PROJECTE	9		1
### CACKICULTURE, FOK., FISH. ### FOR THOUSANDS OF 1967 DOLLARS)  ### CACKICULTURE, FOK., FISH. ### FOR THOUSANDS OF 1967 DOLLARS)  ### CACKICULTURE, FOK., FISH. ### FISH. ### FOR THOUSANDS OF 1967 DOLLARS  ### CACKICULTURE, FOK., ### FISH. ### F	TII .	926	1975	(U)	985	066	1 (3) 1 (5)	(C)	
LAGRICULTUZE, FOF., FISH, 37255, 42794, 48314, 56498, 53237, 61096, 7371, 7756, 8234, 9434, 1751, 1752, 1265, 7371, 74256, 91316, 19434, 14600 PHOD.  2 GONS PUDITION 166935, 12669, 286719, 284617, 234260, 425317, 284600 PHOD.  3 3 2 2 116 2 1633	i 	(VALUE	NTHOUSAN	S 0F 196	OLLARS		, 1 1 1 6 1 1 1 1	1 <del>1</del> <del>1</del> <del>1</del> <del>1</del> <del>1</del>	! <del>!</del> !
2.MINING 2.MINING 2.MOSTOLION 4.7324. 278.88 6.78711. 784276. 91215. 1282037. 1914 4.FOOD PROD. 5.8322. 173.8863. 257791. 224617. 322461. 5.42377. 24527. 1353. 12699. 13393. 12551. 7.LUMBER, FORM. 2.4417. 24557. 39516. 35613. 34456. 45517. 26515. 7.LUMBER, FORM. 2.4417. 24557. 39516. 35613. 34456. 45517. 56414. 7.LUMBER, FORM. 2.4417. 24557. 39516. 35613. 34456. 45517. 56414. 7.LUMBER, FORM. 2.2417. 24557. 39516. 35613. 34456. 45517. 56414. 7.LUMBER, FORM. 2.2417. 24557. 39516. 35613. 34456. 45517. 56414. 7.LUMBER, FORM. 2.2417. 24557. 39516. 36613. 344597. 56414. 7.LUMBER, FORM. 7.L	• AGRICULTURE, FOR., FIS	723	279	& ₩	თ აქ	323	69 69	457	
3.CONSTRUCTION 473264. 378368. 678711. 784276. 93215. 182033. 191 4.TEXTILE PROD. 8335. 17486. 25579. 234017. 23240. 242317. 28 6.APPAREL FORTILE PROD. 8335. 17486. 25579. 2163. 26237. 26263. 26217. 2 6.APPAREL FURNAL FURNAL PROD. 83408. 21160. 2127. 26237. 26163. 26115. 2 6.APPAREL FURNAL PROD. 83408. 21160. 2127. 25340. 26163. 26115. 2 6.APPAREL GOVERNOR 9.PRINTING AND PUB. 7.12249. 268488. 24413. 356113. 356123. 64521. 3 7.LUMBER, FURNA FIRE 9.PRINTING AND PUB. 7.12249. 268488. 24413. 356113. 35612. 3662. 116773. 19 7.LUMBER, FURNA FIRE 7.TORN FIRE	SVINIX	176	200	737	275	823	943	224	
4.FOOD PROD.  16635. 173486. 236799. 234617. 232460. 243317. 28  5.EXTILE PROD.  2372. 2160. 26927. 20537. 20537. 25536.  24417. 24555. 55107. 55444. 56521. 8  5.PAPAZEL  7.LUMBER, FURN.  1.FYTY4. 165527. 359516. 354136. 465521. 8  5.PAPAZEL  7.PAPAZEL	.CONSTPUCTIO	7326	7836	7871	8427	3261	18203	45	
FIRETILE PROD.  8392. 8542. 10599. 11393. 12530. 2  8472. 21472. 21460. 26927. 26557. 20163. 26153. 26155. 2  7. UNBER. PRON.  2441. 2455. 39516. 350113. 334526. 495041. 76  9.RINITARY  PERCENANCH COUNTRY. EAC.  9.RINITARY  9.RINITARY  9.RINITARY  9.RINITARY  9.RINITARY  9.RINITARY  9.RINITARY  9.RINITARY  9.RINITARY  16737. 1146822. 15572. 201646. 12566. 12573. 135646. 125697. 125734. 145697. 125773. 135646. 125773. 135646. 125646. 12566. 12666.	. FOOD PROD	6693	7348	3670	3461	3246	24231	28854	
6.APDAREL 6.APDAREL 6.APDAREL 7.LUMBER PROD. 8. 24417. 24555. 50117. 55404. 56823. 64521. 8 8.ABC PROD. 9.PRINTING AND PUB. 157074. 163527. 264139. 344526. 49504. 75907. 15733. 395516. 35614. 356148. 34566. 49504. 75907. 15733. 68228. 764139. 264	.TEXTILE PRO	839	854	1635	1059	1139	1253	1635	
7.LUMBER, FURN, 24417, 24555, 50107, 53494, 56823, 64521, 8 8.PAPER PROD. 8.12249, 20448, 23408, 78141, 88862, 116073, 19408 1.7241, 19828, 35346, 36518, 45555, 15673, 19412, 19828, 35346, 36518, 45555, 19419, 15773, 19412, 19828, 35346, 36518, 46555, 19419, 195797, 4180701, 19828, 251652, 291777, 425179, 43617, 425179, 195797, 1957	. APPARE	187	116	6.92	653	910	051	495	
8.PARER PROD.         157074.         163527.         39516.         350113.         34456.         495141.         76           9.PRINING AND PUB.         212249.         26428.         24438.         26708.         36418.         36418.         343857.         54           9.PRINING AND PUB.         77314.         19828.         26428.         36518.         42555.         54628.         36518.         42555.         53652.	.LUMBER, FUR	かけな	455	010	5340	5685	452	8813	
9.PRINTING AND PUB. 212249. 228488. 204139. 234085. 267558. 343867. 547110. CAND PUB. 72997. 77313. 68228. 78141. 88862. 115073. 1900.CHEMICALS 1.7214. 19828. 3546. 36518. 43525. 195352. 1900.CHEMICALS 2.PRIMARY METALS 2.80225. 210642. 263165. 291777. 321765. 393182. 5855184. 435217. 321765. 393182. 5855184. 435218. 14722. 14722. 15616. 268165. 291777. 321765. 393182. 585182. 14722. 14722. 15616. 14722. 12646. 13865. 14759. 1	. PAPER PROD	2325	6352	3951	5011	3455	9594	6918	
0.CHEMICALS       72997.       77313.       68228.       78141.       88862.       115073.       19828.       35346.       36518.       42555.       51552.       8552.       19828.       35346.       42555.       51552.       8552.       8552.       14302.       51642.       56165.       29177.       42555.       58552.       85552. <td>. PRINTING AND</td> <td>1224</td> <td>6848</td> <td>0413</td> <td>3438</td> <td>6705</td> <td>4385</td> <td>4955</td> <td></td>	. PRINTING AND	1224	6848	0413	3438	6705	4385	4955	
1.PETROLLJY REFINING 41412, 19828, 32346, 36518, 42555, 5352, 8 41412, 48801, 35952, 37693, 39419, 430277, 321765, 321	0.CHEMICAL	99	731	822	44.6	886	1507	308	
2.PRIMARY METALS 23625. 21642. 263165. 37693. 39419. 43627. 5 3.FABRICATED METALS 23625. 21642. 263165. 29177. 321765. 393182. 58 4.MACHINERY, EXC. ELEC. 56652. 516016. 680927. 405449. 1257401. 201 5.ELECTRICAL MACH. 14722. 12616. 680927. 413401. 505837. 731250. 137 6.MOTOR VEHICLES	1.PETROLEJM REFININ	714	982	234	651	255	365	150	
### ### ### ### ### ### ### ### ### ##	2.PRIMARY METAL	777	8 80	3595	769	3941	43627	5370	
4.MACHINERY, EXC. ELEC.  4.MACHINERY, EXC. ELEC.  5.ELECTRICAL MACH.  5.ELECTRICAL MACH.  5.ELECTRICAL MACH.  6.0788.  4.5237.  6.8752.  6.8756.  6	3.FABRICATED METAL	3622	1064	6316	9117	2176	9318	8782	
5.ELECTRICAL MACH.  14722. 153150. 336747. 413401. 505837. 731250. 137 6.MOTOR VEHICLES 4.788. 45237. 68752. 81345. 12646. 119608. 18 7.TRANS., EXC. MOI. VEH. 2364. 41025. 12646. 13865. 17679	4.MACHINERY, EXC. EL	8252	1601	8092	0525	45449	23743	67210	
6.MOTOR VEHICLES 45788. 45237. 68752. 81945. 12646. 139608. 149608. 15214. 33054. 41325. 12646. 13865. 15714. 17459. 2 8.MISC. MANUFACTURING 9.TRANS., COMM., UTIL. 204294. 205029. 351572. 412978. 484109. 648632. 111 9.TRANS., COMM., UTIL. 1321095. 1415879. 1776356. 2034865. 2323427. 3046568. 504 1.FIN., INS., REAL EST. 445180. 664028. 798377. 1313948. 1295214. 235 2.SERVICES 2.SERVICES 3.FEDERAL GOVERNMENT 167708. 175991. 247472. 294227. 348121. 459645. 364658. 3791 3.FEDERAL GOVERNMENT 28372. 298896. 1173380. 1373892. 1839590. 369896. 1273731. 1398911. 139480. 1273731. 1398911. 139480. 1273731. 1398911. 1398011. 139801. 1273731. 1398911. 139801. 139480. 1273731. 1398911. 139801. 139480. 1273731. 1398911. 139801. 139	5.ELECTRICAL MAC	4722	5315	3674	13 t C	05837	3155	37134	
7.TRANS., EXC. MOI. VEH. 33064. 41325. 12646. 13865. 15214. 17459. 2 8.MISC. MANUFACTURING 204294. 205029. 351572. 412978. 484109. 648632. 111 9.TRANS., COMM., UTIL. 545779. 612437. 783127. 893877. 1013948. 1295214. 205014	6.MOTOR VEHICLES	37.8	523	875	404	5460	1960	8970	
8.MISC. MANUFACTURING 204294, 205029, 351572, 412978, 484109, 648632, 111 95174, 235 9174, 235 111 1321395, UTIL. 545779, 612437, 783127, 893877, 1313948, 1296214, 235 0178402, UTIL. 1321395, 1415879, 1776856, 2323427, 3046568, 504 414242, 445180, 664028, 798971, 958013, 1356937, 252 2.528VICES 976758, 1683122, 1781531, 2203670, 2718844, 4613658, 791 3.85971, 958013, 1373892, 1839593, 369 928137, 247472, 294227, 348121, 469045, 173389, 1373892, 1839593, 369 928137, 25921, 247472, 294227, 348121, 469045, 1373892, 1373892, 1373892, 1373892, 1373892, 1373892, 1373892, 1273731, 13941101	7.TRANS., EXC. MOT. VE	3306	4132	1264	388	521	2745	2445	
9.TRANS., COMM., UTIL. 545779. 612437. 783127. 893877. 1013948. 1295214. 235 01. 1321395. 1415879. 1776856. 2034865. 2323427. 3046568. 504 144242. 445180. 664028. 798971. 958013. 1356937. 252 2. SERVICES 976768. 1683122. 1781531. 2203670. 2718844. 4003658. 791 3. FEDERAL GOVERNMENT 643742. 178991. 247472. 294227. 348121. 469045. 791 32646. 469045. 1373892. 1839590. 369 2. MILITARY 28137. 25921. 247472. 294227. 348121. 469045. 1839590. 369 2. MILITARY 28137. 25921. 25724. 27340. 28761. 32646. 495000000000000000000000000000000000000	8.MISC. MANUFACTURIN	0429	6502	5157	1297	8410	4863	11405	
0.TRADE 1321995. 1415879. 1776856. 2034865. 2323427. 3046568. 504 1.FIN., INS., REAL EST. 414242. 445180. 564028. 798371. 958013. 1356937. 252 2.SERVICES 2.SERVICES 3.FEDERAL GOVERNMENT 4.14242. 445180. 564028. 798371. 2203670. 2718844. 4013658. 791 3.FEDERAL GOVERNMENT 4.67738. 175991. 247472. 294227. 348121. 469145. 369 4.STATE AND LOCAL SOVT. 28137. 25921. 25724. 27340. 28761. 32646. 498896. 1173380. 1373892. 1839593. 369 5.MILITARY 5.MILITARY 6.TOTAL EMPLOYMENT 1879275. 1919782. 2327682. 2121467. 2222497. 2355696. 273 8.TOTAL INCOME 7636372. 8339115. 11486832. 13553141. 15977866. 21936064. 3912 9.TOTAL EARNING 6497535. 6906413. 9694114. 11343112. 13246583. 17835315. 3692 0.TOTAL EMPLOYMENT 796258. 881896. 972617. 1018630. 1066694. 1154025. 126	9.TRANS., COMM., UTI	4577	1243	8312	9337	11394	29521	35238	
1.FIN., INS., REAL EST. 414242. 445180. 664028. 798371. 25236937. 2522. 2.5ERVICES 2.SERVICES 3.FEDERAL GOVERNMENT 167738. 175991. 247472. 294227. 348121. 469045. 8739593. 36942. 175380. 1373892. 1839593. 36942. 175380. 1373892. 1839593. 36942. 175380. 1373892. 1839593. 36942. 175380. 1373892. 1839593. 36940. 175380. 1184460. 1273731. 139460. 1273731. 139460. 1273731. 139460. 1273731. 139460. 270400. 270400. 270400. 270400. 27040. 27040. 270400. 270400. 270400	0.TRAD	32139	41587	77635	03486	32342	84656	04443	
2.SERVICES 2.SERVICES 3.FEDERAL GOVERNMENT 167738. 1683122. 178451. 247472. 294227. 348121. 4696.45. 87 3.FEDERAL GOVERNMENT 4.STATE AND LOCAL SOVT. 643742. 798153. 998896. 1173380. 1373892. 1839590. 309 5.MILITARY 5.MILITARY 6.TOTAL EMPLOYMENT 837429. 956394. 1385261. 1134683. 1184460. 1273731. 139 7.POPULATION 7.POPULATION 8.TOTAL INCOME 7.FG. 649735. 6906413. 9694114. 11343112. 17246583. 17835315. 3092 9.TOTAL EARNING 7.FG. 649735. 881896. 972617. 1018630. 1066694. 1154625. 1266	1.FIN., INS., REAL E	1454	44518	2049	78837	958013	35693	52793	
3.FEDERAL GOVERNMENT 167738. 175991. 247472. 294227. 348121. 469845. 87 4.518121. 469845. 87 4.518121. 247472. 298896. 1173388. 1373892. 1839593. 369 4.51812 AND LOCAL SOVI. 28137. 25921. 25724. 27344. 27344. 28761. 32646. 1396. 1034683. 1184464. 1273731. 139 6.TOTAL EMPLOYMENT 887429. 956394. 1985261. 1134683. 1184464. 1273731. 139 7. POPULATION 7636372. 8339115. 11486832. 13553141. 15977866. 21936064. 3912 8.TOTAL INCOME 6497535. 6906413. 9694114. 11343112. 17246583. 17835315. 3092 9.TOTAL EARNING 796258. 881896. 972617. 1018633. 1066694. 1154625. 126	2.SERVICES	7675	08312	78153	20367	71884	GC 365	91118	
4.STATE AND LOCAL GOVT.  28.137. 25.921. 25.724. 27.340. 28.137. 32646. 4.STALLITARY 6.TOTAL EMPLOYMENT 1879275. 1919782. 2027682. 2121467. 2222497. 2355696. 270 8.TOTAL INCOME 7636372. 8339115. 11486832. 13553141. 15977866. 21936064. 3612961017AL EARNING 6497535. 6906413. 972617. 1018630. 1066694. 1154025. 126625.	3. FEDERAL GOVERNMEN	6779	7599	2727	29422	34812	£369	7629	
5.MILITARY 6.TOTAL EMPLOYMENT 837429. 956394. 1085261. 1134680. 1184460. 1273731. 139 7.POPULATION 7.POPULATION 7.POPULATION 8.TOTAL INCOME 7.F06372. 8339115. 11486832. 13553141. 15977866. 21936064. 3912 9.TOTAL EARNING 6497535. 6906413. 9694114. 11343112. 17246583. 17836315. 3092 0.TOTAL EMP(8Y RESIDENT) 796258. 881896. 972617. 1018630. 1066694. 1154025. 126	4.STATE AND LOCAL S	4374	9818	9889	17338	37389	83959	69719	
6.TOTAL EMPLOYMENT 837429. 956394. 1085261. 1134683. 1184463. 1273731. 1397. POPULATION 1879275. 1919782. 2027682. 2121467. 2222497. 2355696. 270 8.TOTAL INCOME 7636372. 8339115. 11486832. 13553141. 15977866. 21936064. 3912 9.TOTAL EARNING 6497355. 6906413. 9694114. 11343112. 17246583. 17835315. 3092 0.TOTAL EMP(8Y RESIDENT) 796258. 881896. 972617. 1018633. 1066694. 1154025. 126	5.MILITARY	813	592	572	2734	876	564	655	
7.POPULATION 8.TOTAL INCOME 7.POPULATION 8.TOTAL INCOME 7.636372. 8339115. 11486832. 13553141. 15977866. 21936064. 3912 9.TOTAL EARNING 6.497335. 6906413. 9694114. 11343112. 17246583. 17835315. 3092 0.TOTAL EMP(8Y RESIDENT) 796258. 881896. 972617. 1018633. 1066694. 1154025. 126	6.TOTAL EMPLOYME	3742	5639	38526	13468	18446	27373	39439	
8.TOTAL INCOME 9.TOTAL EARNING 6.TOTAL EMRING 0.TOTAL EMP(8Y RESIDENT) 796258. 881896. 972617. 1018630. 1066694. 1154025. 126	7. POPULATIO	87927	91978	32768	12146	22249	35569	70072	
9.TOTAL EARNING	8.TOTAL INCOM	63637	33911	148683	355314	597786	193606	912118	
0.TOTAL EMP(8Y RESIDENT) 796258. 881896. 972617. 1018630. 1066694. 1154025. 126	9. TOTAL EARNIN	49733	90641	69411	134311	324658	783531	892991	
	0.TOTAL EMP (BY RESIDE	9629	8139	1551	01863	06669	15482	26653	