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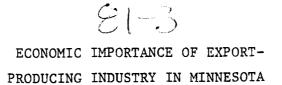
ECONOMIC IMPORTANCE OF EXPORT-PRODUCING INDUSTRY IN MINNESOTA

Wilbur R. Maki, Peter L. Stenberg and Mason Chen

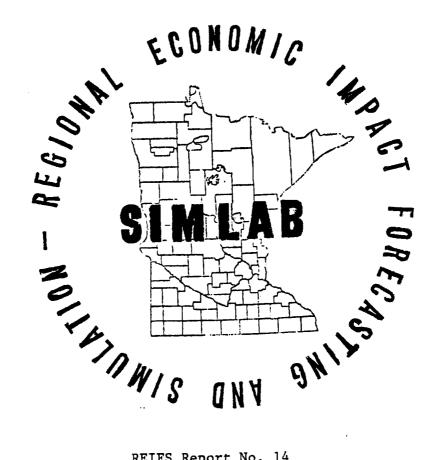


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Acknowledgements

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Abstract

This report is the second in a series on interindustry and interregional relationships and their implications for the economy of Minnesota and its substate development regions. In this report, the role and importance of export-producing industries in Minnesota are discussed. Major emphasis is on agricultural-related industries and their economic importance to the State in value of gross output and contribution to gross state product.

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Summary and Conclusions

Long-term regional viability and prosperity depends on a region's economic base -- its export-producing industry. In Minnesota, a wide range of industries contribute to this base by sales to out-of-state markets.

The economic importance of export-producing industry varies, depending upon the criterion of importance. In value of gross output agriculture and food products manufacturing -- both important in Minnesota's economic history -- accounted for 8.5 percent and 11.7 percent, respectively, of the State total in 1972. In value added, these percentages were even smaller --6.6 and 4.1. When measured by the value of exports, however, the two industries increased in importance, accounting for 7.2 percent and 29.4 percent, respectively, of the State total. Agriculture-related industry was, indeed an important recipient of income received from sources outside the State.

State economic effects of agriculture-related industry are represented by demand and supply multipliers, both short-term and long-term. Short-term demand multipliers for 19 agriculture-related industries range from 1.568 for other crop production to 2.869 for dairy products manufacturing, while short-term supply multipliers range from 1.411 for alcoholic beverages and soft drinks manufacturing to 3.127 for agriculture, forestry and fishery services. Size of multiplier is directly related to the forward and backward linkages of these industries in Minnesota -- the larger the internal, in-state linkage, the larger the multiplier.

Long-term multipliers are presented, also, to show long-term effects of changes in export demands. In this report, the long-term multiplers apply only to export-producing industries and they show, at best, certain upper limits of economic impact. They are much larger in value than the corresponding short-term multipliers.

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ECONOMIC IMPORTANCE OF EXPORT-PRODUCING INDUSTRY IN MINNESOTA

Wilbur R. Maki, Peter A. Stenberg and Mason Chen

Export-producing industry represents the economic base of a state or region. It accounts for the dollar inflows which result from the sale of locally-produced goods and services to non-residents. In Minnesota, agriculture and food products manufacturing, forestry and wood and paper products manufacturing, mining and mineral products manufacturing, high technology manufacturing, high-order services, including corporate central offices, and tourism are part of its economic base. A wide range of industry outshipments thus originate in the Minnesota economy. They include raw materials, semi-finished products, and final products. The latter include the sale of goods and services to households, business and government in Minnesota and outside the State.

Study objectives

Findings of a study of the Minnesota economy -- its current status and economic future potential -- are reported here, in part. While the larger study objectives include forecasts of individual industry growth and change in the State, only the base-year findings are presented here. The base year for these studies is 1972 -- the latest year of comparable state and national data on individual industry sales, employment and earnings. All values are reported in 1972 dollars.

Specific study objectives included the following:

 To prepare a series of input-output tables which show interindustry transactions and related output demands and input supplies;

- To derive a series of input-output multipliers which show the effects of changes in demand for, and supply of, specified industry outputs;
- To present a series of statistical indicators which show the economic importance of export-producing industry in Minnesota.

The third objective is addressed in this report.

Study approach

Study findings are presented here for the 1972 base year under three topical headings, namely, industry structure, export-producing industry and economic impact measurement. Industry structure refers to the level and distribution of industry sales in Minnesota. A 32-industry breakdown, which emphasizes agriculture and food products manufacturing, is used in presenting Minnesota industry comparisons (Table 1.1). A more detailed 214-industry breakdown was used initially in the compilation of individual topical presentations. Interindustry transactions, input purchases and output disbursements are presented in a single summary table under the first topic.

Export-producing industry and economic impact measurement are the remaining two topical presentations. Export-producing industry is found under each of five major industry groups -- agriculture and food products manufacturing, forestry and timber products manufacturing, mining and mineral products manufacturing, high technology manufacturing, and trade and service activities. The economic impact of changes in the demand for, and supply of, individual export-producing industry outputs are discussed under the last of the three topical headings.

Each of the 32 industries listed in Table 1.1 is identified in the

85-214 -Standard Industrial Classifi-75-Industry Title Ind.(A) Ind. Ind. cation System (1972 Edition) No. 1 pt.1 1 0241,pt.0191,pt.0259,pt.0291 Dairy Farm Prod. 1. 2 2 025(exc.0254 & pt.0259), pt.0191, Poultry & Eggs 2. pt.1 pt.0219,pt.0291 Meat An. & Prod. 3 3,4 021(exc.0219),027,pt.0191,pt.0259, 3. pt.1 pt.0291 4 pt.011,pt.0191,pt.0192,pt.0219, 4. Food, Feed Gr. 6,7 pt.2 pt.0291,pt.0259,pt.0139 5 12 0134,0161,pt.0119,pt.0139,pt.0191, 5. Vegetables pt.2 pt.0219,pt.0259,pt.0291 0133,pt.0191,pt.0219,pt.0259,pt.029 6 13 6. Sugar Crops pt.2 7 pt.2 15 0116, pt. 0119, pt. 013, pt. 017, pt. 0219, 7. Oil-Bearing pt.0259,pt.0291 8. 8 pt.2 5,8-11, 0131,pt.0191,pt.0219,pt.0259,pt.029 Other Crops 14,16, 0132,pt.0259,pt.017,0173,pt.0179, 17 pt.0139,pt.018 3 18 081-091,097 9 9. For., Fish. Prod. 19 0254,071(exc.074),085,0924 10. Agr., For., Fish. Serv. 10 11 - 145-10 20-26 10-14(exc.pt.108,pt.1112,pt.1213, 11. Mining pt.138,pt.148) 15(exc.pt.1531)-17,pt.108,pt.1112, 12. Construction 15-16 11,12 27-33 pt.1213,pt.138,pt.148 201 13. 18 pt.14 36-39 Meat Products 202 14. Dairy Products 19 pt.14 40-44 45-47 203,2091,2092 20 pt.14 15. Fruit & Veg. Prod. 48-54 204 Grain Mill Prod. 21 pt.14 16. 205 17. 22 55-56 Bakery Prod. pt.14 57-58 206 18. 23 Sugar Prod. pt.14 207 64-66,68 19. Soybean, Veg. 0il 24 pt.14 25 59-63 208 20. Alch.Bev.,Soft Dr. pt.14 26 pt.14,15 67,69-71 209(exc.2091-2),2121. Misc. Food., Tob. 27-30 98-105 28 22. Chem. & Allied 36 106-7 29 23. Petr. Ref. & Prod. 37 31 352 24. Farm Mach. 44 44 134 22-27, 30-39(exc.352)25. 17,27-35, 13,16-26, 34-5 Other Mfg. 32-43, 38-43, 72-97, 45-54 45-64 108 - 133, 135-174 55-59 65 175-181 40-47(exc.pt.41,4311) 26. Transportation 66-68 182-186 48,49(exc.pt.491) 27. Comm., Utilities 60-63 187-88,200 50-59,pt.70,7396,pt.8042 28. Wh. & Ret. Trade 64–65 69 70,71 189-193 60-69(exc.613),pt.1531 29. Fin., Ins., Real Est. 66-67 70-89(exc.pt.70,7396,pt.8042),074 68-72 194-9, 72-77 30. Services, Private 201-9 78-9 201-3 4311,pt.41,pt.491,pt.613 73-4 31. Govern. Enterpr. 214 75 81 32. Scrap, Sec. & Used 1-214 01-89 1-75 1-81 33. Subtotals Rows: Columns: 34. 40. 35. Grs. Priv. Cap. Form. Proprietorial Income Noncomp. Import 36. Chg. Bus. Inven. 35. Wage & Sal. Payments 41. Imports RON 37. Allocated Exports 36. Other Empl. Comp. 42. Gross Outlay 38. Allocated Imports 37. Other Prop.-Type Inc. Columns: Fed. Gov. Purch. 39. 38. Indirect Bus. Tax

34. Pers. Cons. Exp.

39.

Value Added, Total

State-Local Purch.

Exports RON

40.

41.

Table 1.1. Minnesota Standard Industrial Classification System Emphasizing Agriculture-Related Industry, 1972.

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corresponding industry group in three related industry classification systems -- the 75-industry listing for the Minnesota Regional Development Simulation Laboratory (SIMLAB), the 85-industry listing in U.S. Department of Commerce reports on the 1972 U.S. input-output tables, and the 214-industry breakdown for the Minnesota Two-Region Input-Output (TRIO) Computer Model (2 , 5 , 1). The 214-industry listing will be available in a forthcoming report on the Minnesota economy.

Industry Structure

Industry structure is represented by the distribution of 1972 Minnesota industry output, purchases and disbursements (Appendix Table 1.1). dustry differences occur in each of the three categories, especially in industry output levels, which range from \$5.2 million of forest and fishery products to \$8.7 billion of other manufacturing. All output is measured in producer value. However, gross margins, rather than resale value, is used in the wholesale and retail trade sector. Indeed, the value of all noncommodity industry outputs, except for the utility industry (part Ind. No. 27), is represented by the value of gross margins. In contrast to the non-commodity-producing industries, "double-counting" of inputs and outputs occurs in the commodity-producing industry groups (No. 1 to No. 26).

Gross output

The 1972 industry gross output value of \$38 billion includes all market-based activity. This excludes, of course, the output value of government and household industry, except for government enterprise (e.g., post office, mass transit, water and sewer). Other private trade and service enterprise nontheless accounted for nearly one-half of this total.

The 1972 output value for major industry groups (in 1972 dollars) are summarized as follows:

Industry Group	Total	Prop. of All Ind.
	(mil. \$)	(%)
Agriculture	3,280	8.5
Mining	666	1.7
Construction	2,965	7.7
Food prod. mfg.	4,501	11.7
Other mfg. and scrap	8,899	23.0
Trade and service	18,312	47.4
All Industry	38,622	100.0

Thus, agriculture and food products manufacturing accounted for more than \$7.8 billion of the total, while mining, construction and other manufacturing accounted for \$12.5 billion. Altogether, the commodity-producing industries accounted for \$20.3 billion, or 52.6 percent, of the total value of market-based industry gross output.

Input purchases

Input purchases of the 32-producing industries in Minnesota are from three major categories -- intermediate purchases from producing industries in Minnesota, primary input purchases from resource owners (for value added by labor and capital) in Minnesota, and imports of intermediate goods from producing industries in rest of nation. In 1972, the two categories of intermediate purchases accounted for 51.4 percent of total Minnesota industry purchases while the primary input purchases accounted for 48.6 percent of the total.

Input purchases of the six industry groups listed earlier vary from

	Inte	rmediate	Valu	e Added	Impo	orts
Industry Group	<u>Total</u> (mil.\$)	Prop. of <u>All Ind.</u> (%)	<u>Total</u> (mil.\$)	Prop. of <u>All Ind.</u> (%)	<u>Total</u> (mil.\$)	Prop. of All Ind. (%)
Agriculture	1,651	10.8	1,236	6.6	393	8.6
Mining	275	1.8	276	1.5	116	2.6
Construction	1,228	8.0	1,360	7.2	378	8.3
Food prod. mfg.	3,184	20.8	778	4.1	540	11.9
Other mfg. and scrap	3,597	23.5	3,518	18.8	1,758	38.6
Trade and services	5,377	35.1	1,595	61.8	1,363	30.0
All industry	15,312	100.0	18,763	100.0	4,548	100.0

among industry groups and input categories, as follows (from Table 1.1, ref.3):

Agriculture and food products manufacturing accounted for 31.6 percent of total intermediate purchases, 10.7 percent of total value added, and 20.5 percent of total imports in 1972 while other manufacturing accounted for 23.5 percent, 18.8 percent and 38.6 percent, respectively of the three totals.^{1/}Agriculture-related industry exceeded other manufacturing only in intermediate purchases. Only the trade and service sector had larger intermediate purchases than the agriculture-related sectors. Value added by agriculture-related industry was small, however, when compared with value added by other manufacturing and other industry.

Agriculture-related industry in Minnesota is characterized by its linkages to Minnesota input-supplying industries. It accounts for nearly a third of the total intermediate purchases from Minnesota industries,

<u>1</u>/ Small differences occur between the summary data from Table 1.1 in ref. 3 and Appendix Table 1.1 because of treatment of Minnesota allocated share of U.S. noncomparable imports. These differences are nominal and do not affect study findings.

sectors. The trade and service sector alone accounts for nearly two-thirds of total value added by the market-based industries in Minnesota.

Output disbursements

Output disbursements of a producing industry include production inputs and final products. The latter includes exports to other industries in rest of nation.

Intermediate sales and purchases for all industries balance, as shown in Appendix Table 1.1. For individual industries and industry groups, sales are likely to be more or less than purchases. In the agriculture-related industries, for example, total intermediate sales are much smaller than total intermediate purchases -- \$3.9 billion of sales as compared with \$4.8 billion of purchases.

The distribution of output disbursements among purchasing sectors is summarized as follows (from Table 1.1, ref. 3):

	Inter	mediate	Final	Local	Expor	ts
Industry Group	<u>Total</u> (mi1.\$)	Prop. of <u>All Ind.</u> (%)	<u>Total</u> (mi1.\$)	Prop. of All Ind. (%)	<u>Total</u> (mil.\$)	Prop. of All Ind. (%)
Agriculture	2,615	17.1	144	0.9	522	7.2
Mining	75	0.5	31	0.2	561	7.8
Construction	475	3.1	2,460	16.1	31	0.4
Food prod. mfg	. 1,288	8.4	1.086	7.1	2,127	29.4
Other mfg. and scrap	3,883	25.3	2,636	17.2 ;	353	32.6
Trade and service.	6,976	45.6	9,727	63.5	1,633	22.6
All industry	15,312	100.0	16,084	100.0	7,227	100.0

Agriculture-related industries accounted for 25.5 percent of all industry disbursements to producing sectors, 8 percent of all industry disbursements to local final demand sectors, and 36.6 percent of all industry disbursements to rest-of-nation markets. Like value added, the final product contribution of agriculture-related industry is small relative to other Minnesota industries.

The level and distribution of input purchases and of output disbursements are two measures of the economic importance of all industry in Minnesota. The net contribution of all industry to the Minnesota gross state product is represented by total value added, including value added by government. The value added equals the value of final local purchases and net exports (i.e., total exports-total imports). In 1972, total value added by market-based industry was \$18,763,000, which is equal to its final product as shown below:

Product and		Prop. of
Income Accounts	<u>Total</u>	All Val. Add.
	(mil.\$)	(%)
Value added, total	20,864	100.0
market-based	18,763	89.0
Government	2,101	10.1
Final product, total	18,763	89.9
Local	15,859	76.0
Exports	7,183	34.4
Imports	4,279	20.5

By including value added by government, this total increases to \$20.9 billion, which approximates the gross state product. Market-based activity thus accounted for slightly less than 90 percent of the gross state product in 1972.

Industry exports exceed industry imports of intermediate inputs by approximately \$2.9 billion. Impacts of intermediate inputs by approximately \$2.9 billion. Impacts of final demand sectors were nearly \$3.2 billion. Net

inflows thus exceeded net outflows by nearly \$0.3 billion.

Export-Producing Industry

The five industry clusters cited earlier -- agriculture and food products manufacturing, forestry and timber products-manufacturing, mining, and mineral products manufacturing, high technology manufacturing, and trade and service activities -- are identified as the principal export-producing industries in the State. The economic importance of these activities is demonstrated by a detailed examination of the role and impact of agriculturerelated exports on input-supplying and output-purchasing industries.

Agriculture

Exports to rest of nation are shown for six of the 10 agricultural industries in Appendix Table 1.1. For the U.S., exports exceed imports in the products of four of the 10 industries while in another four of the ten industries, exports are less than imports. Minnesota exports to rest of nation are added to the net U.S. competitive exports (which are allocated to Minnesota) in the estimates of total exports from Minnesota industries.

Exports to rest of nation are compared with imports from corresponding industries in rest of nation. Here, exports to rest of nation are shown as excess supply while imports are shown as deficit supply. Initially, a 214industry, rather than a 32-industry, breakdown was used in deriving the excess and deficit supply estimates. With the consolidation of industry groups, an aggregate industry group in the State may be shown with both an excess supply and a deficit supply of output. Thus, while \$32.8 million of outshipments are shown for Ind. No. 3, \$404.2 million of inshipments are shown, also, because of the aggregation of two industry groups (meat animals and other livestock) into the one industry group. The export and import totals are summarized of the nine industry groups and summarized as follows (Table 1.2, ref. 3):

	Exces	s Supply	Defici	t Supply
Industry	Total (mil.\$)	Prop. of <u>Gr. Out.</u> (%)	Total (mil.\$)	Prop. of <u>Tot. Req.</u> (%)
Dairy farm	96.3	191.1	0	0
Poul., eggs	0	0	1	0.8
Meat An.	32.8	2.6	404.2	24.9
Food, Feed	208.5	23.6	45.8	6.3
Vegetables	0	C	14.4	18.9
Sugar crop	21.8	71.8	0	0
0il-Bearing	101.9	32.3	0	0
Other Crop	1.3	4.5	90.4	75.8
For., Fish	0	0	62.6	92.3
Agr., For.	0	0	37.5	35.9
Total	462.6	14.1	656.0	18.9

Each agricultural industry also imports a variety of inputs from rest of nation industries, as shown in Appendix Table 1.1. These imports are compared with the exports of the same industries, as follows:

	Imports			Excess Supply
		Prop. of	Net	as Proportion
Industry	Total	<u>Gr. Out.</u> (%)	<u>Transfer</u> (mil. \$)	<u>of Total</u> (%)
	(mil.\$)	(/6)	(miti. 3)	(/0)
Dairy farm	31.1	6.2	65.2	1.4
Poul., eggs	19.6	14.9	-19.3	-
Meat an.	161.1	12.9	-130.1	0.5
Food, Feed	127.9	14.4	231.6	3.0
Vegetables	6.6	10.7	- 7.8	0
Sugar crop	4.8	15.8	16.9	0.3
Oil-bearing	30.6	9.7	98.7	1.5
Other crop	3.2	10.6	-2.3	0
For., Fish.	0.5	9.6	-1.9	0
Agr., For.	7.9	11.8	-7.9	0
Total	393.3	12.0	243.1	6.7

Imports exceed exports for six of the industries. The meat animals industry is shown with the largest excess of imports over exports (with its net transfer of -\$130.1 million). These imports represent largely the purchases of feeder cattle from farms and ranches outside Minnesota. On the other hand, the food and feed grain industry has the largest excess of exports over imports, which represent, of course, the outshipment of wheat, corn and other small grains to rest-of-nation markets.

Feed and food grains and soybeans are the principal exports of Minnesota agriculture. They amount to 4.5 percent of all industry exports to rest of nation markets. Dairy farms also are shown as large exporters. For this industry, however, the estimate probably exaggerates actual exports because of an apparant underestimation of the volume of fluid milk processing in Minnesota. If the estimated level of exports were reduced for dairy farms, a corresponding increase in exports would be indicated for dairy processing plants. Total agricultural exports were 6.7 percent of all industry exports in 1972.

Food products manufacturing

Food products manufacturing businesses are the principal markets for Minnesota agricultural products. Were it not for the food products manufacturing, agricultural exports would be much larger, but total value added in Minnesota by agriculture-related activity would be much less. Moreover, the close proximity of the agriculture-related processors adds to the farm value of Minnesota agricultural products.

Exports to rest-of-nation markets from Minnesota food products manufacturing businesses were more than \$2.1 billion in 1972. Meat products were the largest category of exports, with dairy products second, and

	Excess	Supply	Deficit Supply							
Industry	<u>Total</u> (mil.\$)	Prop. of Gr. Out. (%)	(mil.\$)	Prop. of <u>Tot. Req.</u> (%)						
Meat prod.	1,074.2	60.3	67.2	8.7						
Dairy prod.	539.9	45.0	20.7	3.0						
Fruit and veg.	96.7	30.0	49.9	18.1						
Grain mill	191.3	39.8	101.3	25.9						
Bakery	0	. 0	61.7	40.0						
Sugar prod.	138.8	57.6	60.3	37.1						
Soybean, veg.	92.9	31.7	169.3	45.8						
Alch. bev.	4.9	5.1	173.8	65.5						
Total	2,133.8	47.4	769.1	23.8						

grain mill products, as follows (Table 1.2, ref. 3):

These exports were 47.4 percent of total industry sales (as compared with 14.1 percent of total sales for agricultural products). Despite these exports, \$769.1 million of food products were imported from food products manufacturing businesses in rest of nation. These imports were 23.8 percent of total requirements. Minnesota industries supplied the remaining 76.2 percent of food products manufacturing requirements (which originated from both intermediate and final demand sectors). Because of the variety of food products purchased for final use in the State, the value of imports remained high. Even food products which are almost identical to those produced in the State are imported because of seasonal supply and demand imbalances and price and product competition.

Imports of food products manufacturing businesses from rest-of-nation industries totaled \$540 million in 1972. These imports were 12 percent of

the total value of food products. Wide differences occurred, however, in the relative value of imports, as follows:

	Im	ports		Excess Supply
Industry	<u>Total</u> (mil.\$)	Prop. of <u>Gr. Out.</u> (%)	Net <u>Transfer</u> (mil. \$)	as Proportion of Total (5)
Meat prod.	297.4	16.7	766.0	15.5
Dairy prod.	31.1	3.1	379.8	7.8
Fruit and veg.	58.5	33.7	3.9	1.4
Grain mill	70.3	23.0	90.4	2.8
Bakery	8.4	22.6	-46.9	0
Sugar prod.	21.3	51.0	-33.7	0
Soybean. veg.	17.4	8.7	124.0	2.0
Alch. bev.	35.7	23.6	-13.6	1.3
Misc. food	24.4	55.1	-23.9	0.1
Total	540.0	12.0	1,364.1	30.7

These data show, also, that for five of the nine food products manufacturing industries, exports exceeded imports. Indeed, for all food products manu-facturing, exports exceeded imports by nearly \$1.4 billion.

Food products manufacturing accounted for nearly one-third of Minnesota industry exports to rest-of-nation markets in 1972. The economic importance of food products manufacturing, when measured by its contribution to the economic base of Minnesota and its balance of payments, is much larger than indicated earlier by its sales and value added.

Economic Impact Measurement

Economic impact measurement, in this report, refers to the use of two types of input-output multipliers -- demand multipliers and supply multipliers. The two multipliers show the total effect -- direct and indirect -- on all industry sales of a one-unit change in the demand for, or the supply of, a particular industry output. The multipliers are derived from the interindustry transactions table (see, Appendix Table 1.1) and the corresponding input coefficients table (Appendix Table 1.2) and disbursement coefficients table (which is not included).

Demand multipliers

The demand multiplier for an industry is represented by its column total in the conventional Leontief, i.e., (I-A), inverse (see, Appendix Table 1.3). The totals in Appendix Table 1.3 are multiplied by corresponding changes in total final demands to obtain their direct and indirect effects on industry sales and purchases. For example, a \$1 million increase in total final demand -- local and export -- for meat products (Ind. No. 13) results in a \$2.608 million increase in all industry outputs. This increase includes the \$1 million in meat products plus an additional \$0.123 million increase in meat product output resulting from the additional input requirements of those industries supplying inputs to the meat products industry.

The conventional demand multiplier accounts for the short-term impact of a given demand change on all industry sales. Its magnitude depends on the proportion that total purchases from local input-supplying industries are of all purchases. The larger this proportion, generally, the larger the multiplier.

When a primary input, such as labor (which is represented by employee compensation in the value added row) is included, total local purchases of inputs increases. Thus, a demand multiplier is an (I-A) inverse, which

includes the employee compensation row and the corresponding personal consumption expenditures column (see, Table 1.1), is larger, and usually much larger, than the conventional, Type I demand multiplier. This new Type II multiplier depicts certain long-term effects of industry employees spending the income payments of the producing industries. When the all value added rows and all local final demand columns are included in the (I-A) inverse, very large demand multipliers are obtained, as shown in Table 4.1.

The expanded Type II demand multipliers are presented here simply to emphasize the nature and limitations of input-output multipliers: They account for short-term effects of demand and supply changes and they are based on certain strict assumptions of linearity and homogeneity, among others. Certainly the final demand relationships, for example, the consumption and investment functions, conform less to these assumptions than the intermediate demand relationships, which are represented by industry production functions (when including imports from rest of nation industries). The Type II demand multiplier thus serves, at best, as a partial measure of long-term output effects of changes in export demand. In this formulation, export-producing industries and rest-of-nation demand for exports "drive" the regional economy. Hence, for purely non-exporting-producing, i.e. residentiary, industries, long-term output effects would depend entirely on their linkages with export-producing industries.

Supply multipliers

The supply multiplier for an industry is represented by the row totals of a disbursement coefficients i.e., (I-D), inverse (see, Appendix Table 1.4). The row totals, (which are entered as row totals in Appendix

	· · · · · ·									
			and	Supply						
Ī	ndustry	Туре	Extended	Type I <u>3</u> /	Extended					
No.	Title	<u> </u>	<u>Type II 2/</u>	<u> </u>	<u>Type II 4/</u>					
1.	Dairy Farm	1.856	8.542	2.328	4.469					
2.	Poul., Eggs	2.336	7.869	2.130	5.996					
3.	Meat An.	2.293	8.020	2.591	5.193					
4.	Food, Feed	1.523	7.917	2.624	4.806					
5.	Vegetables	1.363	8.206	1.588	9.694					
6.	Sugar Crop	1.477	7.790	1.532	3.780					
7.	Oil-Bearing	1.422	8.292	1.989	2.939					
8.	Other Crop	1.382	8.187	2.112	9.290					
9.	For., Fish.	1.568	8.309	2.915	12.215					
10.	Agr., For.	1,802	8.153	3.126	7.136					
11.	Mining	1.640	7.739	1.221	1.991					
12.	Construction	1.671	7.958	1.282	9.875					
13.	Meat Products	2.608	7.669	1.252	3.836					
14.	Dairy Products	2.869	9.500	1.624	4.242					
15.	Fruit and Veg.	1.939	7.630	1.300	6.873					
16.	Grain Mill	2.135	7.949	2.093	4.563					
17.	Bakery	1.757	8.334	1.305	9.967					
18.	Sugar Prod.	1.866	7.361	1.862	10.556					
19.	Soybean & Veg. 0il	2.274	8.684	1.729	2.825					
20.	Alch. Veb.	1.861	8.003	1.250	6.989					
21.	Misc. Food	1.801	7.045	1.410	9.350					
22.	Che. & A1.	1.738	7.146	2.032	7.708					
23.	Petr. Ref.	1.413	4.838	2.059	9.860					
24.	Farm Mach.	1.673	7.422	1.433	6.461					
25.	Other Mfg.	1.683	7.409	1.761	6.810					
26.	Transportation	1.506	8.458	1.881	7.262					
27.	Comm., Utilities	1.508	8.077	1,975	9.266					
28.	Wh. & Ret.	1.420	8.690	1.401	8.491					
29.	Fin., Ins.	1.366	8.884	1.620	9.356					
30.			8.440		9.110					
31.	Gov't. Ent.	1.541	8.530	1.651	9.110 8.962					
32.	Scrap	1.493	5.560	2.219						
33.	Value Added	2.024	7.963	3.561	10,401 9.096					
~~.					7.070					

Table 4.1 Demand and Supply Multiplier of Specified Industry, Minnesota, 1972.

- <u>1</u>/ Demand Type I multiplier is given in the conventional Leontief inverse, i.e., $[I-\Lambda]^{-1}$, which consists of the 32 interacting sectors in the Minnesota tables.
- 2/ Demand Extended Type II multiplier is given in the extended Leontief inverse of 33 interacting sectors, including the value added row and the final local demand column in the Minnesota tables.
- 3/ Supply Type I multiplier is given in the inverse of the row, or disbursement, coefficients matrix, i.e., [I-D]⁻¹.
- 4/ Supply Extended Type II multiplier is given in the inverse of the extended row coefficients matrix of the 33 interacting sectors in the Minnesota tables.

Table 1.4), are the industry supply multipliers in Table 4.1. The supply multiplier is used when the effects of a given change in industry output, for example, a reduction in the supply of petroleum products, must be determined. In an economy of increasing resource, rather than market, con+ straints, the supply, rather than demand, multiplier is the more appropriate for measuring regional economic impacts.

Short-term supply multipliers are designated as Type I supply multipliers in Table 4.1. They are compared with the Type I demand multiplier. Generally, the supply multiplier is smaller than the demand multiplier for large export-producing industries. When both demand and supply multipliers are small, the industry has few supply (backward) and demand (forward) linkages to other industries in the region.

Gross State Product

A summary statistic of the economic impact of export-producing industry is the Gross State Product (GSP) and its representation as (1) income of primary input sectors and (2) purchases of final product. In Table 5.1, both the primary income payments and final product purchases and the intermediate sales and purchases are presented. Here, the 1972 Minnesota GSP is \$20,875, 348,000 rather than \$20,922,000,000, as shown earlier, because of the inclusion of additional income transfers (of -\$251,451,000 in capital accumulation and \$230,407,000 in exports).

The gross state product identity,

GSP = Value Added = Local Final Product and Exports-Imports,

is now represented numerically (in \$1,000), as follows:

	Loca	1		
Purchasing	Inter-		Rest	
Sector	mediate	Primary	of Nation	Total
		(\$1,00	0)	
Local:				
Intermediate	15,580,446	18,762,838	4,279,272	38,622,556
Final, total	15,617,154	1,882,103	3,281,268	20,780,525
Personal consumption	10,845,257	32,124	2,117,245	12,994,626
Gross private fixed investment	3,222,343	-251,451	846,597	3,817,489
Federal government	370,601	531,516	202,843	1,104,960
State and local government	1,178,953	1,569,914	114,583	2,863,450
Rest of Nation:			r	
Exports	7,425,156	230,407	-118,718	7,536,645
Total	38,622,556	20,875,348	7,441,822	66,939,726
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Table 5.1 Summary income and product accounts, Minnesota, 1972.

Individual entries in the gross state product equation are acquired directly from Appendix Table 3.1.

Thus, the inclusion of the additional local primary and rest-of-nation transfers in Table 5.1 resulted in a net increase of \$46,652,000 in the GSP equation entries. On the value added side, the additional transfers represent income payments of households to household workers (\$32,124,000), a negative inventory valuation adjustment (\$251,451,000) and a positive U.S. allocation inventory of net competitive exports (\$230,407,000). On the final product side, additional transfers include the same three transfers and, also, a negative U.S. allocation of net competitive exports (\$178,817,000). The U.S. net export allocations represent equivalent net exports to rest of nation which were replaced by the allocationed exports.

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- 01	, 		0	.001857	. 000169	0	00142	0	1	.048527
FOCD, FEE	694942°	n 160997	.235282	.024832	. UU JI IU	0 066400•	0 54911A•	0 806700°	0 0 6 9 4 7 1 •	• 036616
٧ڐ٥٤	0	0	.000065	0	.013893		0	0	0	.005203
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11 MINING	.000047	0.000	0	.003583	.001469	.001425	00075		50	.000201
13 MEAT PRODUCTS	0	0 0 0 0 0 0	.000151	0	0 366600•	0	0 573000	0 +00+00•	0	.000063
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23 PEIR. RET. & PROD.	.00.	.003717	- 002643			-011956	014877	012375	•014549 0	011418
0.	.005379	.017897	.002743	.006746	.009034	.003476	.003770	.017455	•083261	.055532
	.036973	.016316	• 009205	-015682		.011559	-006215	.010852	-0105/4	-030166
COMH.,	.019535	0	.009523	.007802		02920	.002605	0	.001705	. 61 284 1
HH. & RET.TRADE	2 4	.054699	.033587	.037773	.059774	032556	020500	.062464	.031448	.038384
30 SERVICES	ι	.033107	- 009819	- 019138	.010617	- 115713	.018432	. 019471	-033798	. 0.3 1 1 2 2 1
ດ	.000133	.000141	.000140	.000136	.000142	+000130	.000146	.000083	.000426	-001582
SCRAP	0								.001113	•000095
4	E171.70	77760	• 685194	. 334555	.231773	•313027	•279609	.251231	.358191	•475977
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INDUSTRY NAMES	11	12	13	14	15	16	£7	18	19	2 0
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3 HEAT AN.		50	.471873	م 690000 •	• 001020	•000082	7961UU - 0	- 0	29211262	123720 -
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ב ה	.024395	.000283	-000892	.001377	023	.001756	.003606	00	00119	.003667
	_	00005	01	.001666	.031620	0037	.012016	: 2	.032305	.000005
ηc		0 0	0022	• 346278 • 000079	.068285	.004211	•012484	.002460	001748	• 007178
GRAIN MILL PR	.000000	. 0	20000	.000048	.004970	.128612	202	.003097	161000•	.00626
1 UAKEEY	יישט ייש <u>.</u> 0		500000		614200.	.010227	.022367	175671	•003617	040413 .
9 SOYBEAN, VEG. OIL	0		.000841	. 000038	.000514	.078987	00	.000556	0	
ALCH. BEV., SOF	.000001	.000003	.000001	.000935	.003144	.001866	281000	001262	• 0 00 0 J 1	466499°
2 CHSH. KALLIED	01135		-000952	- 001189	.004220	. 004474	~ -	.002042	612200	.00125
PETR.	162200	53	0064	.001749	.001628	6000	0	.002064	8 20000	190
24 FARM MACH.	0	0	017638	28.000 J	164924	0 0	071289	.057426	.006073	490512°
6 ISANSPORIATION	.018502	.024641	0763	.009693	-059652	4371	2391	.025059	0	126220 •
CONN.,	.054476	.002003	.004406	.006521	.009824	.007280	.011024	.010084	0350	.01 1532
WH. & RET.TRADE	.023216	.081559	.033213	297	.072737	.04/34/	196457	• U40102	01710	.040000
D FIN., INS., REAL EST.	.144780	.052902	.002005	6655610 •	035668	031297	045026	.038380	•010330	• 06 005 L
	373	S -	0043		.000808	.000755	-	.001161	0 0 0 1 8	.000981
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•	3 SUB-TOTAL	0 ALCH. 8 1 MISC. 8 2 CHEM. 8 3 FETR. 8 3 FETR. 8 4 FARM MAN 5 FTRAR MAN 5 FTRAR MAN 6 FTRAR MAN 8 MH. 8 8 MH. 8 8 RULCE 0 SERVICE 1 GOV T EN 2 SCRAP	1 DAIRY FARH 2 POUL.,EGGS 3 HEAT A. 4 FOOD.FEED 5 VEGETABLES 5 OIL-BEARING 6 OTHER CROPS 9 FOR.FISH. 1 HINING 2 CONSTRUCTION 2 CONSTRUCTION 3 MEAT PRODUCTS 5 FRUIT VEG. PRO 6 GRAIN HILL PROD 7 BAKERY 8 SUGAR PROD. 9 SOYDEAN, VEG. 0	INDUSTRY NAMES
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•	.266847	00000 01264 04749 04749 04813 04813 01107 01107 01267 01267		IED RES
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	.332614	000056 000128 022209 019303 019303 0196310 014442 0244452 029679 030025 030025 030025		OUTPUT BY PURCIASING
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	SUB-TOTAL	DAIRY FARH POUL., EGGS HEAT AN. FOCD, FEED VEGETABLES SUGAR CROPS OIL-BEARING OTHER CROPS FOR., FOR., FISH. AGR., FOR., FISH. MINING REAT PRODUCTS FRUIT & VEG. PROD. GRAIN FILL PROD. GRAIN FILL PROD. SOYBEAN, VEG. OIL ALCH. BEV., SOFT DR. MISC. FOCD., TOB. CHEM. & ALLIED PETR. REF. & PROD. FARH MACH. OTHER MFG. IRANSPORTATION COMM., UTIL. HH. & RET.TRADE FIN., INS., REAL EST. SERVICES GOV'T ENT.	APPENDIX TABLE L.Z. II INUUSTRY NAMÉS
	.315828	0	101AL ENTERSEDIATE PURCHASES
	• 512561*	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	INTERVEDIATE PURCHASES OF SPECIFIED REST OF WATION 31 32 33
	.155E+08	.405E+06 .261E+05 .696E+06 .261E+05 .261E+05 .261E+05 .474E+06 .474E+06 .474E+06 .238E+06 .219E+05 .219E+05 .219E+05 .219E+05 .219E+05 .136E+05 .13	SPECIFIED RE
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			BY PURCHASING SETTOR, 1972 (CONCLUDED).
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I DULTARY LAURY FLEM	INDUSTRY NAMES	1	2	ú	4 .	J	6	7	8	ę	10
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Matrix Matrix <thmatrix< th=""> <thmatrix< th=""> Matrix<td>AATEV EAD</td><td></td><td></td><td>1725</td><td>975</td><td>מ מ מ מ</td><td>2223</td><td>1 6 9</td><td>- 000512</td><td>006</td><td>1985</td></thmatrix<></thmatrix<>	AATEV EAD			1725	975	מ מ מ מ	2223	1 6 9	- 000512	006	1985
Graf Ma.	POUL . EGG	.001782	00511	0189	0274	00	0169	.002367	.001280	010	5 00 3
FIGURATION Constrain Constrain <thconstrain< th=""> <thconstrain< th=""> <th< td=""><td>1.25</td><td>.013344</td><td>1818</td><td>7428</td><td></td><td>30</td><td>0111</td><td>.018410</td><td>.005535</td><td>375</td><td>5813</td></th<></thconstrain<></thconstrain<>	1.25	.013344	1818	7428		30	0111	.018410	.005535	375	5813
Constructor	- -	.285798	3 5 6 5	5380	1.038933		0047	.090432	. UUSI45		12214
Olt-GEZENG CONSTRUCTION ACC. FDSN. ONESTZ ONEST ONESTZ ONESTZ <thonestz< th=""> ONESTZ <thonestz< td=""><td>20048 CR0P</td><td>.000460</td><td>0064</td><td>0032</td><td>• 000057</td><td>~ •</td><td>0377</td><td>.000051</td><td>.000071</td><td>004</td><td>5920</td></thonestz<></thonestz<>	20048 CR0P	.000460	0064	0032	• 000057	~ •	0377	.000051	.000071	004	5920
Construction Construction<	OIL-BEARIN	.015732	.036780	.017798	.001148	00	6000	1.060008	.000593	001	1320
ANSTITUSI ANDRO SUBJECT SUBJECT <thsubject< th=""> SUBJECT <thsubject< th=""></thsubject<></thsubject<>	OTHER LROP	.001627	169200	.001861	.004278	.011057	• m	.000354	1.027333		1632
ANALYS ONE 217 ONE 217 <thone 217<="" th=""> <thone 217<="" th=""> <thon< td=""><td>FOR. FISH.</td><td>.000054</td><td>.000131</td><td>.000058</td><td>.000037</td><td>940000</td><td>~ ~</td><td>0191679</td><td>.000047</td><td>~ ~</td><td>2315.0</td></thon<></thone></thone>	FOR. FISH.	.000054	.000131	.000058	.000037	940000	~ ~	0191679	.000047	~ ~	2315.0
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MAT PRODUCTS .002637 .003131 .001427 .001707 .001269 .001133 .001532 GRAIN FROD .001727 .002503 .000302 .000477 .001707 .001269 .001532 .001532 GRAIN FLORO .001727 .002503 .000302 .001707 .001269 .00152 .001532 <t< td=""><td>CONS1</td><td>.018911</td><td>.018730</td><td>.018906</td><td>.019686</td><td>.011791</td><td>.018488</td><td>.016657</td><td>.010354</td><td>-</td><td>.023676</td></t<>	CONS1	.018911	.018730	.018906	.019686	.011791	.018488	.016657	.010354	-	.023676
DALKY RECOUCTS COUNTS COUNTS <thcounts< th=""> <thc< td=""><td>HEAT PRODUCTS</td><td>.002637</td><td>.005986</td><td>.003331</td><td>.001427</td><td> 091707</td><td>-</td><td>.000887</td><td>.001903</td><td>-001592</td><td>.002233</td></thc<></thcounts<>	HEAT PRODUCTS	.002637	.005986	.003331	.001427	091707	-	.000887	.001903	-001592	.002233
GALTRY HILL PROD. 110505 135405 002263 001281 <th001281< th=""> <</th001281<>	FRUIT & VEG.	- 000972	.002503	000000.217100.	.000427	964000.	000	.000270	.000325		.001126
SUKK F200 .000147 .000363 .000254 .000257	GRAIN MILL PR	.110506	.353496	-	.004227	.001381	001	.002202	.001071	-	. 024104
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ALCH. HEV.SOFT DR. 001572 001473 000173 000173 000152 001552 001552 001552 001552 001552 001552 001552 001552 001553 001552 001553 001552 001553 001552 001552 001552 001552 001552 001553 001552 001553 <td>SOTUEAN, VEG. C</td> <td>.022635</td> <td>.052543</td> <td>.025415</td> <td>.001431</td> <td>.000567</td> <td>000</td> <td>~ -</td> <td>00</td> <td>\tilde{a}</td> <td>622500.</td>	SOTUEAN, VEG. C	.022635	.052543	.025415	.001431	.000567	000	~ -	00	\tilde{a}	622500.
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FARM HACH. .006372 .006437 .010344 .006786 .006971 .010891 TRANSPORTITION .099017 .008257 .017365 .037365 .037361 .010917 .006937 .010911 AHN.V.ITL. .0291017 .055050 .037365 .035307 .02281 .012814 .012947 .010895 .012313 AHN.V.FET.TRADE .012903 .030055 .032301 .012907 .020600 .012947 .010814 .006959 .012313 FIN.LINS.REAL EST. .089912 .040522 .102211 .134790 .025062 .03127 .012941 .012951 .012751 <td< td=""><td>PETR. REF. K</td><td>012992</td><td>.014831</td><td>.014427</td><td>. 024938</td><td>.010505</td><td>019</td><td>\sim</td><td>5</td><td>01924</td><td>. 017894</td></td<>	PETR. REF. K	012992	.014831	.014427	. 024938	.010505	019	\sim	5	01924	. 017894
CONTRANSTOR .053007 .053007 .053007 .053007 .053007 .053007 .053007 .053007 .053007 .053007 .053007 .053007 .053007 .053007 .013007 .014753 .012907 <td>FARM</td> <td>-008352</td> <td>.006430</td> <td>.009379</td> <td>.010344</td> <td>.005786</td> <td>000</td> <td></td> <td>06</td> <td>30123</td> <td>. 600467</td>	FARM	-008352	.006430	.009379	.010344	.005786	000		06	30123	. 600467
COHH., UTIL. .027963 .03005 .024009 .014526 .01742 .011833 .009805 .01744 AH. & SET.TRADE .050805 .026005 .076036 .052316 .01742 .011833 .009805 .01744 .011833 .009805 .01744 .011833 .009805 .01744 .011833 .009806 .01744 .011833 .009807 .015241 .014478 .045641 .03132 .01742 .011833 .009806 .01744 .011833 .009807 .015241 .014744 .011833 .009807 .015241 .014744 .0124359 .05641 .01742 .03132 .017434 .124359 .05641 .01743 .029802 .039753 .05743 .05743 .029802 .039753 .05743 .05743 .05743 .05743 .05743 .05743 .05744 .00377 .00146 .00377 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 .001462 </td <td>TRANSPORTATT</td> <td>.059007</td> <td></td> <td>· U32320</td> <td>.025907</td> <td>. 010887</td> <td>02060</td> <td>-</td> <td>. 018785</td> <td>12912</td> <td>791</td>	TRANSPORTATT	.059007		· U32320	.025907	. 010887	02060	-	. 018785	12912	791
AH. K. SETLIKADE .051653 .102/r4 .076036 .052216 .071353 .045641 .03132 .071502 .05763 SERVICES .040826 .085648 .04577 .042643 .02342 .102214 .124459 .03358 .0354614 .03763 .057643 .02342 .03358 .043564 .04577 .040867 .006217 .040867 .006217 .040867 .002343 .02342 .03358 .035968 .03377 .03359 .057243 .12647 SCRAP .000377 .000807 .000366 .002847 .003358 .002744 .033573 .057243 .12643 SUB-TOTAL 1.855605 2.335985 2.282951 1.523420 1.363092 1.477341 1.422212 1.381873 1.568492 1.60202 SUB-TOTAL 1.855605 2.335985 2.282951 1.523420 1.363092 1.477341 1.422212 1.381873 1.568492 1.60202	COMM., UTIL.	.022963	•	600820*	.01/15/26	1074	0110	6600	844610.	01225	u li u
FIN.1K5.,REAL EST009819 .000525 .102543 .102711 .114798 .062349 .138744 .124359 .054.614 .037643 .0204 SERVICES .004662 .006217 .004864 .045727 .042643 .022802 .039753 .035968 .039735 .05743 .12641 SCRAP .000377 .000807 .000366 .000261 .000195 .000228 .000181 .000242 .001572 .0063 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.363092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.35985 2.282951 1.523420 1.363092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.355985 2.282951 1.523420 1.363092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.3653092 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.477341 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.57545 1.477545 1.42202 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.47754 1.422212 1.381873 1.568492 1.80202 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.52565 SUB-TUTAL 1.555605 2.335985 2.282951 1.5256655 SUB-TUTAL 1.555605 2.335985 2.282951 1.525756 SUB-TUTAL 1.555605 2.355605 2.335985 2.282951 1.555756 SUB-TUTAL 1.555605 2.355605 2.355605 2.355605 2.355656 SUB-TUTAL 1.555605 2.355605 2.355605 2.355605 2.355605 2.2829505605605656 SUB-TUTAL 1.555605 2.355605 2.355605656 SUB-TUTAL 1.	HH. & SET. TRADE	.051853		.076036	.052316	.071353	0456	0313	-	05262	فحرك ا
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SCRAP .000377 .000807 .000366 .0003950 .00264 .000328 .000744 .000377 .0003 SUB-TUTAL 1.855605 2.335985 2.282951 1.523420 1.363092 1.477341 1.422212 1.381873 1.568492 1.80202 .001242 .001572 .001572 .000572 1.477341 1.422212 1.381873 1.568492 1.80202	SERVIC	50		.045727	.042643	308	3975	3030	0	05724) [[
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OTL-E	- 0001212		.012442	.001004	- 003693	689100 •	.001213	• 013144	00467	28200 -
FOR. FISH.	000	-	5	.000114	.004642	0	.000131	.000035	2000	00
AGR.	005	20	1557	.010763	n 0 ≁ 2		- 001285	.004055	11200	
IZ CONSTRUCTION	1.018857	1.007238	.013017	- 016172 - 002014	• 012272	.014536	.011242	.010844	-015429	.01244
3 MIAT P	.001232	· · · ·		.005204	041	5	.016390		0.00000	.00.256
15 FRUIT & VEG. PROD.	.000348	.000762	.003211	.001272	1.074573	.005188	-011942	.004596	9245	. 09854
6 GRAIN	.000223	.000452	.065896	.056368	.010395	1.150309	1.007272	.007244	-004148	60200J.
SUGAR PROD		-	.002112	• 008229	14	.015098	.030338	1.213848	5940	. 01 797
	.000255	-000282	.017747	.011654	.004390	516200°	-001087	.002309	765000°	14620*1
F000., T08.	.000140		.001776	.002525	000	.003165	.012445	.922754	0 0 0 3 1	001601
CHEM. AFF.		.015487	010139	011430	.007265	.011964	.007548	.007387	015735	.03751
FARM MACH.	.000280	0047	.005429	.004471	00	0	.000839	.001231	72200	. 03138
25 OTHER HEG.	.133817 .0302A9	. 325656	.032430	.180711	.086583	.079463	.134122	.123991	682640° 440640°	• 37 87 L
	.075995	.017451	. نست .	.031507	27	2463	.025292	_	2220	12620
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31 GOV'T ENT.		.005015		.007044	07	063	.007504	303	0452	0063
N 1/	• 000263	0050200	6 100 0 0 •							0 0
33 SUB-TOTAL	1.639719	1.671491	2.608161	2.858667	1.938533	2.134911	1.757384	1.865659	2.273917	1.86102
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1.540974	1.366319	1.419825	1.508353	1.505898	1.682548	1.672583	1.412944	1.737567	1.801184	SU8-TOTAL	33
016000	.030171	.000239	.000215	.000343	.004884	.004213	.000679	.002097	.001000	SCRAP	32
01304	0	014394	07	.027024	.007070	.005590	.005753	00	60	GOV'T ENT.	31
1.108374	20650	.088539	56	.079615	136	.056186	• 0+0329	2672	ທ.	ERVICES	C E
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.055574	200	3514	1.10.360	<u></u>	.027310	021244	011010	3821	2399	•	27
.022583	.007625	282120	015639	1.115219	.041704	.029415	.061755	. 351574	.o 1	** *	21
.157230	.039434	.044265	035523	5	1.382300	.334640	057871	0344	182933		12 r 57 .
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. 00037	. 3 0 3 1 7 4	00	000	0039	.000386	.001825	.000151	.001543	.059325	WILL P	16
. 301312	.000210	-	00	.001759	.000515	.000513	.000229	- 001650	.034397		י הי≓ ת
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Industry NHS 1 12 13 1 DALKY FLAN FLAN <th>MUSTRY NHES J1 J2 J3 <thj3< th=""> <thj3< th=""> J3 <th< th=""><th>NOUSTRY NAHES</th><th>32</th><th>33</th><th>•</th><th></th><th></th></th<></thj3<></thj3<></th>	MUSTRY NHES J1 J2 J3 J3 <thj3< th=""> <thj3< th=""> J3 <th< th=""><th>NOUSTRY NAHES</th><th>32</th><th>33</th><th>•</th><th></th><th></th></th<></thj3<></thj3<>	NOUSTRY NAHES	32	33	•		
1 OALRY FARM .000371 .000100* .405E+05 2 FOULT ALLEGS .000171 .000100* .405E+05 2 FOCLARESS .000171 .000100* .405E+05 3 SUGAR CFOPS .000102 .000100* .405E+05 4 FOCLARESS .000102 .000102* .2010001* 5 GALRESS .000102* .000102* .2010001* 6 OLLEGENET .000101* .000102* .2010001* 6 OLLEGENET .000101* .000102* .2010001* 6 OLLEGENET .000101* .000101* .20101* 7 .00110* .00110* .00021* .6421************************************	1 OALRY FAPH .000371 .000100 .005400 .005400 4 FGCD.ALFEED .000425 .000105 .000100 .005400 .000100 .005400 .000100 .0000100 .0000100 .000100 <t< th=""><th></th><th></th><th>8 8 9 9 8 8 8</th><th></th><th></th><th></th></t<>			8 8 9 9 8 8 8			
0ALRY FARM .000371 .000160* .4055*06 2 POULFGS .000155 .000160* .110**06 4 FAT AN. .000155 .000165* .110**06 5 FECD. .000171 .000105 .000165* .110**06 5 FECD. .000105 .000105 .000105* .110**06 5 FED.FECT. .000105 .000105 .000105* .2110**06 6 FED.FECT. .000105 .000105 .000105* .2110**06 6 FED.FECT. .000101 .000105 .000105* .2110**06 7 FED.FECT. .000101 .000105* .000105* .2110**06 6 FED.FECT. .000101 .000105* .000105* .2110**06 7 FED.FECT. .000101 .000105* .2110**06 .2110**06 6 FED.FECT. .000100 .000101 .000105* .2110**06 7 FED.FECT. .000100 .000101 .000101** .2110**06 8 FED.FECT. .000100 .000101** .2110**06 .2110**06 9 FET.FET. .000311 .000110** .2110**06 .2110**06	0ALRY FARM .000171 .000180* .1025*06 2 POUL. FEGS .000155 .000165* .1026*06 4 FAT AN. .000155 .000165* .1025*06 5 VEGELADES .000105 .00015* .00016* 6 OFFER FERD .000105 .00016* .00016* 6 OFFER FERD .000105 .00016* .00016* 7 ONLEY PROUCTS .000101 .00016* .00025* 8 OFFER FERD .00016* .00025* .00016* 9 OFFER FERD .000101 .00016* .00025* 10 HILLS .000110 .00016* .00025* 10 HILLS .000110 .00016* .00024* 10 HILLS .000110 .00016* .00024* 10 HILLS .000116 .000116* .00024* 10 HILLS .000116 .000116* .00024* 10 HILLS .000116 .000114* .40024* 10 HILLS .000116 .000114* .450E*15 10 HILLS .000116 .000114* .450E*15 10 HILLS .000117 .000114*			•	(DOLLARS)	•	•
1 DALRY FARH .000157 .000169* .100540 4 FGLT AN. .000157 .000169* .100540 4 FGLT AN. .000105 .000105* .000105* 5 UCETALES .000105 .000105* .000105* .100540* 5 UCETALES .000105 .000105* .000105* .100540* 5 UCETALES .000105 .000105* .1001009* .2201*07 5 UCETALES .000105 .000105* .000105* .000105* .100540* 6 UTFER CHOPS .000237 .000256* .176640* .000256* .176640* 6 UCHTR FROUCTS .001101 .000165* .000216* .476640* 6 UCHTR FROUCTS .001101 .000166* .376640* .376640* 9 UCHTR FROU .001236* .000214* .40564***********************************	1 DOLLY, FAPH 1 FGCD, FEES 1 FGCD, FEES 1 SUGAR CHOPS 1						
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4 SUGAR (SOPES) 000427 000681 6662445 5 VSGETAUES 00015 000015 000092 6662445 6 SUGAR (SOPES) 00015 000015 000015 6000192 6662445 7 SUGAR (SOPES) 00015 00015 000015 0000192 8742445 8 SUGAR (SOPES) 00015 000155 0000164 8742445 9 SOFTALK, FESH. 000015 000165 0000165 0000164 8742445 9 SOFTALK, FESH. 000017 001123 0000164 8742445 8742445 9 SOFTALK, FESH. 0000165 000165 0000164 8742445 8742445 9 SOFTALK, FRODO. 001123 0010144 8742445 8742445 8742445 8744444 8742445 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 8744444 87444444 87444444 87444444 87444444 87444444 87444444	FGCD. FGCD. FGCD. FGCD. FGCD. FGCD. 000427 000601 000601 000601 SUGAR 000115 000115 0000115 000115 000115 SUGAR 000115 000115 000115 000115 000115 FGCD. FESN 000115 000115 000115 000115 FGCD. 000115 000115 000115 000115 000115 FGCD. 000115 000115 000115 000115 000115 FGCD. 000115 000115 000115 000115 000115 FGCD. 000117 001101 001101 001101 001101 001101 SUGAR FGCD. 001101 001101 001101 001101 001101 SUGAR FGCD. 001121 0002134 454444 644444 SUGAR FGCD. 000123 0002134 454444 644444 SUGAR FGCD. 000123 0002134 459444 459444 SUGAR FGCD. 0001234 000134	PUUL., EUGS	9 1 3 N 2 9	205+0			
9 ULCET FREES .000105 .000105 .000105 5 SUUAR (FOPS) .002169 .000246 .177546 6 SUUAR (FOP) .002169 .000256 .177546 7 OLL-DEARING .002169 .000264 .177546 8 FOP.+F CROPS .002169 .000264 .177546 9 FOP.+F CROPS .001019 .001264 .177546 1 GONSTRUCTION .101250 .001019 .001264 .177546 1 GONSTRUCTION .101251 .001019 .001664 .177546 1 GONSTRUCTION .101251 .001019 .001264 .1474640 1 .001101 .001101 .001101 .001234 .648544 1 .001101 .001101 .001101 .646544 .647544 1 .001101 .001101 .001101 .646544 .647544 2 .001141 .0001149 .0001144 .1935464 .6485446 2 .001141 .0001144 .0001144 .1216467 .2716465 <tr< td=""><td>9 9 000105 0000105 0000105 0000105 9 0011-06641146 002169 0000166 177646 9 001-06641146 0000165 0000256 177646 9 001-0664117 0000165 0000256 177646 9 001-06 0000101 0000256 177646 1 0000115 0000101 0000256 177646 1 0000115 0000256 1000266 177646 2 000117 0000256 1000266 177646 2 000117 0001101 0001160 1000214 4642446 2 000114 1000112 0000123 1000213 1000213 1000214 1464644 2 00014 000114 1000214 146444 1464444 1464444 2 00014 0001120 0001134 190244 140244 1402444 1402444 1402444 1402444 1402444 1402444 1402444 1402444 <t< td=""><td>FOCD, FEED</td><td>00681</td><td>0000</td><td></td><td></td><td></td></t<></td></tr<>	9 9 000105 0000105 0000105 0000105 9 0011-06641146 002169 0000166 177646 9 001-06641146 0000165 0000256 177646 9 001-0664117 0000165 0000256 177646 9 001-06 0000101 0000256 177646 1 0000115 0000101 0000256 177646 1 0000115 0000256 1000266 177646 2 000117 0000256 1000266 177646 2 000117 0001101 0001160 1000214 4642446 2 000114 1000112 0000123 1000213 1000213 1000214 1464644 2 00014 000114 1000214 146444 1464444 1464444 2 00014 0001120 0001134 190244 140244 1402444 1402444 1402444 1402444 1402444 1402444 1402444 1402444 <t< td=""><td>FOCD, FEED</td><td>00681</td><td>0000</td><td></td><td></td><td></td></t<>	FOCD, FEED	00681	0000			
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4 OIL-GAING .002175 .002165 .172405 6 OTHER CROPS .000101 .0001055 .000165 .172405 6 OTHER CROPS .000101 .0001055 .000165 .172405 7 CLAINFGEL, FISH. .002165 .002065 .002064 .462705 7 CLAINF FROUCTS .001001 .001016 .002164 .462705 7 CLAINF FROUGUES .001001 .0010101 .0001014 .462705 7 CLAINF FROUCTS .001001 .001014 .462705 .002064 .462705 7 CLAINF FROUCTS .001001 .001014 .462705 .001014 .462705 7 CLAINF FROUCTS .0010101 .000114 .462705 .001014 .462705 7 CLENT, VEG. .001101 .000114 .463707 .464705 7 CLENT, VEG. .00110 .000113 .001134 .4598405 2 CLENT, KINEFF, K PROD. .000113 .001354 .19914 .2384405 2 CLENT, KINEFF, K PROD. .001312 .0101354 .2194405 .2194405 2 CLENT, KINEFF, K PROD. .001315 .201407 .2194405	0 OIFEK CRUPS 0002169 0002164 177846 0 OIFEK CRUPS 000033 000133 000134 177846 0 OIFEK CRUPS 000045 0002165 0002165 177846 0 OIESTRUCTION 0002165 0002165 0002165 177846 1 HUING 000011 0002165 0002165 177846 2 CONSTRUCTION 001101 0002165 177846 1 HUING 000011 000133 177846 1 ALCE PRODUCTS 001101 000134 144240 1 ALCE PRODUCTS 001101 000134 144240 1 ALCE PRODU 001123 000134 144240 1 ALCE PRODU 0001149 000134 14564465 2 CHEN NULL PRODU 0001149 000134 14564465 2 CHEN NULL PRODU 0001314 149244 1001344 14564465 2 CHEN NULL PRODU 0001314 149244 1001345 1214645 2 CHEN NULL PRODU 0001314 149244 1001345 1214645 2 CHEN NULL PRODU 1001314 149244 1001345 1214645	SUSAR CPOPS .00001	0018	146			
G CONTRUCTION 000033 000033 000033 000033 G CONSTRUCTION 000105 0002165 0002164 6442405 CONSTRUCTION 001001 001001 0002165 0002164 6442405 CONSTRUCTION 001001 0010101 0002164 4642405 CONSTRUCTION 001101 0001011 0002164 4642405 CONSTRUCTION 001101 0001123 0002144 4642405 CONSTRUCTION 001101 0001140 0001244 4294405 CONSTRUCTION 0001123 0001244 1394405 CONTRACTION 1010145 0001244 1394405 CONTRACTION 1010145 000131 0001327 14064405 CONTRACTION 1000146 <t< td=""><td>9 FOR.: FISH. .000033 .000338 .000333 .000334 .000334 .000334 .000334 .000334 .000334 .000334 .000334 .000334 .001414 .001414 .001414</td><td>OIL-BEARING .00216</td><td>0166</td><td>12</td><td></td><td></td><td></td></t<>	9 FOR.: FISH. .000033 .000338 .000333 .000334 .000334 .000334 .000334 .000334 .000334 .000334 .000334 .000334 .001414 .001414 .001414	OIL-BEARING .00216	0166	12			
4 A.G.R.F.F.D.F.F.ISH. .002655 .002655 .002654 .647E+455 2 CONSTRUCTION .11256 .002654 .647E+455 3 HALT PRODUCTS .001019 .001055 .002644 .646E+055 4 FAUIT K VEG. PROD. .001019 .0010215 .002264 .465E+055 5 FAUIT K VEG. PROD. .001123 .002243 .238E+05 5 SOLAR PROO. .001123 .002243 .238E+05 5 SOLAR PROD. .001238 .000243 .238E+05 6 SOLAR PROD. .001238 .000243 .238E+05 7 .00146 .001344 .1392E+05 8 .001238 .000243 .238E+05 9 .00144 .001238 .000244 .238E+05 1001345 .001238 .000244 .238E+05 100144 .001238 .000244 .219E+05 100144 .001345 .219E+05 .219E+05 100144 .0139569 .0039364 .219E+05 1001314 .0163794 .8258+06	4 ATGR:FFGL:FISH. .003655 .002265 .002264 .6474405 2 CONSTRUCTION .002065 .002264 .6474405 2 CONSTRUCTION .002065 .002064 .6474405 2 CONSTRUCT .002065 .002064 .6474405 2 CONSTRUCT .001019 .0010014 .002064 .6474405 2 CONSTRUCT .000101 .0010019 .0010014 .600124 .20214 2 CONSTRUCT .000112 .000114 .000124 .20214 .686405 2 SULAR FROD .000149 .000134 .19244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .2001134 .4502445 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .20244 .202444 .202444 .202444 .2		8270 00770	о С 0 П П			
1 HINING .002055 .002664* .4645+05 2 CASTRUCTION .01129 .0010407 .0010407 3 HEAT PRODUCTS .0010103 .0010407 .3345+05 5 FRUIT & VEG. .001103 .000514* .4655+05 5 FRUIT & VEG. .001123 .000214* .4585+05 5 GATEK HILL PROD. .0001145 .000133 .0334* .4595+05 5 GATEK HILL PROD. .0001145 .000134* .4595+05 6 SUCHAR RED. .0001145 .0001339* .2386+05 7 SUENT & VEG. .0001145 .000134* .4595+05 6 GUENT & KULLEDD .0001128 .0001339* .2166+05 7 SUENT & REF. & PROD. .013545 .009370* .2196+05 7 SUENT & REF. & PROD. .013545 .009370* .2196+05 7 SUENT & REF. & PROD. .005758 .7394* .2196+05 7 SUENT & REAL EST. .002314 .01354* .2196+05 7 SUENT & REAL EST. .003951*	1 HINING .002065 .002664* .4645+05 2 CHATRACTION .10129 .001000 .3745+05 3 HEAT PRODUCTS .001019 .001000 .3745+05 4 LATY PRODUCTS .001019 .001000 .3745+05 5 GAIN* ALL PROD .001123 .00229 .0010134* .4655+05 5 GAIN* ALL PROD .001123 .00237* .2385+05 6 SCYEEAN, VEG. .001123 .00237* .2385+05 7 ALCH. REV. SOFT DR. .000123 .00211* .4505+05 2 CHEN & ALLIED .000123 .00211* .4526+05 2 CHEN & ALLIED .000123 .00237* .2192+05 2 CHEN & ALLIED .000123 .00237* .2192+05 2 CHEN & ALLIED .000331 .00337* .2192+05 3 CHEN & ALLIED .00376552 .4062+105 4 .01110N .029631 .33804* .1325+07 2 SCRAP .100331 .03804* .1325+07 2	0 A52. FOR FISH	0216	47E+			
CONSTRUCTION .11258 .001001 .001007 .334E+06 SHEAT PRODUCTS .001011 .001011 .001001 .334E+06 SHAIT K VEG. PROD. .001112 .0010255 .0000255 .0000144 .456E+05 SAKERY .001112 .001123 .000244 .459E+05 SAKERY .001112 .000124 .000124 .159E+05 SAKERY .001110 .000124 .000124 .159E+05 ALCH .6700+100 .000128 .000121 .02344 .2316+05 SARMERY .01112 .000131 .001339 .516E+05 .001314 .212E+05 SARAP .01114 .013545 .000315 .0013334 .212E+06 .001429 .001429 .001426+05 .001426+05 .001426+05 .001426+05 .001426+05 .001426+05 .001426+05 .001426+05 .001426+05 .001	CONSTRUCTION .101258 .007007 SHEAT PRODUCTS .001019 .001600* .334E40 GRAIN FLL PROD. .001123 .001255 .000125 GRAIN FLL PROD. .001123 .001233 .233E455 GRAIN FLL PROD. .001123 .00214* .456E405 GRAERY .001101 .001123 .00214* .238E455 GRAERY .001112 .0001123 .00214* .238E455 GRAERY .001101 .0001123 .00214* .238E455 GRAERY .001101 .0001123 .00214* .238E455 GRAERY .001101 .0001123 .000214* .238E455 GRAERY .001101 .0001123 .000214* .238E455 GRAERY .001101 .0001315 .2716455 .2716455 GRAERY .01110 .0039651 .003970* .219646 .219646 GRAERY .01111 .0039651 .0039617* .706646 .4066465 GRAP .0039651 .0231974* .212647 .212647 SUB-TOTAL 1.492953 <t< td=""><td>1 HINING .00206</td><td>266</td><td>գ Մել •</td><td></td><td></td><td></td></t<>	1 HINING .00206	266	գ Մել •			
a HEAT PRODUCTS .001019 .001609 .001601 a Liky PRODUCTS .0010295 .001321* .668E+05 a GRATR H:LL PROD. .001123 .001231* .648E+05 a SUGAR PRGO. .001123 .001231* .648E+05 a SUGAR PRGO. .001123 .001234* .648E+05 a SUGAR PRGO. .001123 .001234* .648E+05 a SUGAR PRGO. .001145 .001144* .232E+05 a SUGAR PRGO. .001238 .001234* .492E+05 a SUGAR PRGO. .001238 .001234* .492E+05 a ALCH BEV. .6001 .001238 .001234* .492E+05 a ALLED .000238 .000234* .492E+05 .001354* .271E+05 a SUB-THER PEG. .000334* .001355* .271E+05 .216E+05 .216E+05 .216E+05 a SUB-TOTAL .016127 .016127 .016554* .402E+07 .216E+06 .216E+07 .216E+06 .216E+07 .216E+07 .216E+07 .216E+07 .216E+07 .2172E+06 .2172E+06 .2172E+06 .2172E+06 .2172E+06 .2172	3 #EAT PRODUCTS .001001 .001604 .334E405 6 FRUIT & VEG. PROD. .0010295 .000233 .688E405 6 FRUIT & VEG. .001123 .000233 .688E405 7 BAXERY .001101 .0001014 .000233 .688E405 7 BAXERY .001113 .000233 .600223 .688E405 7 BAXERY .001114 .000214 .000214 .459E405 8 SUGAR .000116 .000114 .000214 .459E405 8 SUGAR .000116 .0001134 .459E405 9 .6001410 .000238 .000214 .459E405 14 .61444 .627444 .000339 .516E405 14 .61444 .62744 .003314 .401244 .271E405 15 .6444 .6444 .003314 .003324 .401244 .213244 .212444 .212444 14 .6574 .660127 .038464 .271E405 .234444 .271E405 2 .6444 .65754 .023734 <td>2 CONSTRUCTION .10125</td> <td>780</td> <td>4 E F</td> <td></td> <td></td> <td></td>	2 CONSTRUCTION .10125	780	4 E F			
4 FALIKY PRODO. .000295 .0003243 .6462405 5 GRAIN HLL PROD. .0001101 .0003243 .6462405 5 GRAIN HLL PROD. .001112 .000243 .2382405 5 GRAIN HLL PROD. .001112 .000243 .2382405 6 SUGAR PROD. .00112 .000134 .4682405 7 3462782A1 VEG. OIL .000238 .000131 .42382405 9 SUGAR PROD. .000128 .000131 .4222405 9 SUGAR PROD. .000238 .000211* .8222405 9 CHEN & ALLIED .000131 .000331* .4222405 10 .000131 .000331* .210244 .2122405 10 .000131 .000331* .210240 .219240 10 .000315 .000315* .4012407 .219240 11 .000315 .000315* .2023734* .402412407 12 .000315 .002804 .002824* .402412407 12 .000315 .002824* .40724405 .40724405	4 FALIT & REGO. .0002101 .0003243 .6462405 5 GRAIN HLL PROD. .0001101 .0003243 .6462405 7 2448247 .0001149 .0001143 .000243 .5462405 7 2448247 .0001149 .0001343 .5462405 7 2448247 .0001149 .0001343 .5462405 7 2448247 .000149 .0001343 .5462405 7 244844 .000149 .0001414 .5462405 8 201427 .640149 .0001344 .5462405 9 1150 .6001234 .000234 .000234 .600234 1150 .700434 .000334 .000334 .201437 .2192446 2 .616752 .000334 .001244 .2192466 .219244 11400 .0076752 .0167524 .0167524 .402407 .402407 2 .6004127 .0138334 .402407 .402407 .402407 2 .6004127 .0139244 .0149244 .2712405 2 .60049544	3 MEAT PRODUCTS .00101	186	Ē		•	
GRAIN FLC PROD. GRAIN Scort PROD.	GRAIN HIL PROD. .001123 .002244 .238240 GRAIN HIL PROD. .00114 .00114 .002244 .238240 GRAIN HIL PROD. .001123 .002244 .238240 GRAIN HIL PROD. .001123 .001244 .238240 GRAIN HIL PROD. .001123 .001244 .238240 GRAIN HIL PROD. .00123 .001244 .238240 GRAIN HIL PROD. .00123 .001214 .238240 GRAIN HIL PROD. .000128 .0001214 .238240 GRAIN HIL PROD. .000128 .0001214 .238240 GRAIN HIL PROD. .000128 .0001214 .238240 GRAIN HACH .000128 .0001214 .238240 GRAIN HACH .000128 .000133 .21840 GRAIN HACH .001354 .0013562 .11887 .21840 GRAIN HACH .011033 .005362 .401240 .40240 GRAIN HACH .011033 .005361 .0053817 .401240 GRAIN INCLESS .01146 .012824 .016759 .8228407 GRAP .0031	CONTRY PRODUCTS .00100	0 5 1 7 0 1 7 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1			
7 24.KERY .000116 .0001149 .0001134* .1992*05 4 SUFBEARH, VEG. .000121 .000121 .4250E405 4 SUFBEARH, VEG. .000121 .000121 .4250E405 4 SUFBEARH, VEG. .000121 .000121 .4250E405 5 SUFBEARH, VEG. .000128 .0001211 .4250E405 4 FARH MACH. .000128 .0001354 .000339* .516E405 5 OTHEP MEG. .000331 .000331* .219E406 .000331* .000345* .219E406 5 OTHEP MEG. .0170538 .793345* .401E407 .219E406 6 TRANSPORTATION .005786 .05931* .73345* .4012E407 7 SERAP .01105* .039669 .024189* .156E407 2 SUB-TOTAL 1.4922953 2.023734* .156E407 3 SUB-TOTAL 1.4922953 2.023734* .155E406	7 24.KERY .000116 .000149 .000134 .1992+05 4 SOTBEAH, VEG. .000149 .000114 .4292+05 4 SOTBEAH, VEG. .000120 .000121 .4292+05 5 SOTBEAH, VEG. .000120 .000121 .4292+05 6 SOTBEAH, VEG. .000230 .000231 .0001339 .5162+05 7 COMH. A.LLED .000331 .001357 .27162+05 7 COHH. A.LLED .013545 .001337 .2192+06 7 COHH. A.LLED .013545 .001337 .2192+06 7 COHH. A.LLED .013645 .003531 .023542 .41662+05 7 COHH. A.UTL. .013645 .036542* .4062+05 .4162+05 9 FIN.LANDE .02365 .038317* .7862+06 .1322+07 .38333* .1322+07 1 GOVIT ENT. .000315 .004954* .2712+06 .2712+06 2 SCRAP .010224 .004954* .2712+06 .2712+06 3 SUB-TOTAL 1.492953 2.	GRAIN MILL PROD00112	324	307			
4 SUMAR PROD. .000149 .0002111 .423E+05 4 ALCH. 62V.SOFT DR. .000238 .0001339 .516E+05 1 HISC. FOODTOB. .000128 .0001359 .270E+05 2 CHEM. & ALLIED .001312 .011345 .270E+05 3 PETR. REF. & PROD. .00331 .004345 .219E+06 4 FARM MACH. .00131 .004528 .219E+06 5 JTHEP MFG. .070538 .793345 .406E+05 6 FARM MACH. .076752 .0167594 .219E+06 7 COMM., UTLL .076752 .0167594 .401E+07 6 FARM MACH. .076752 .0167594 .405E+06 7 COMM., UTLL .039669 .024189* .132E+07 9 FIN. INS. REAL EST. .003315 .028244* .132E+07 1 .002315 1.002824 .024054* .271E+06 2 SUB-TOTAL 1.492953 2.023734* .155E+08	4 SUGAR PROD. .000149 .0002181 .423E+05 4 ACCH. 65V.SOFT DR. .000238 .000339* .516E+05 4 HISC. FOODTOB. .000128 .000135* .270E+05 2 CHEH. & ALLIED .00331 .001341* .423E+05 3 PETR. REF. & PROD. .003128 .000339* .270E+05 4 FARM MACH. .001341 .005462* .003370* .219E+06 5 JTHEP RFG. .075538 .793345* .406E+06 6 TRANSPORTATION .076753 .0163542* .406E+06 7 COMM., UTLL. .076753 .016759* .406E+06 7 LET. RADE .0236643 .038044* .132E+07 9 FIN. INS. REAL EST. .0032642* .024954* .271E+06 1 .0032643 .0023734* .132E+07 2 SCRAP .003255 .0023734* .132E+06 3 SUB-TOTAL 1.4922953 2.023734* .155E+06	7 BAKERY .00011	013	995 +			
9 SOTIEAN, VEG. 010, SOFT DR. .000238 .0001211 2 CHEH. 6. ALLIED .008112 .011887 .2706+05 3 PETRA, REF. 6. PROD. .00311 .011887 .2706+05 4 FARH MACH. .013545 .000339 .5166+05 5 OTHEP NEG. .013545 .0003370 .2716+05 5 OTHEP NEG. .000331 .011887 .2716+05 5 OTHEP NEG. .000331 .011887 .2716+05 6 TRANSPORIATION .013545 .003314 .005362* .4056+05 7 COMH., UTL. .076753 .076753* .038048* .4056+05 9 FIN. INS. REAL EST .039663 .038048* .1322+07 9 FIN. INS. REAL EST .060127 .03833* .1326+07 1 .009284 .004954* .2716+05 2 SCRAP .000315 1.002824* .4076+05 3 SUB-TOTAL 1.492953 2.023734* .1556+06	a ACCH: 65V.SCRT DR. .000384 .000339* .51664405 a ALCH: 65V.SCRT DR. .000128 .000339* .2706405 a PETRL 6. ALLIED .001341 .0013545 .2706405 a PETRL 7. ACH .001341 .001345 .2706405 a PETRL REF. & PROD. .003341 .004342 .004345* .2196405 a JHER REF. & PROD. .003341 .006342* .006342* .2196405 a JHER REF. & PROD. .00334 .004344 .2196405 .2196405 a JHER REF. & PROD. .003563 .006342* .006342* .4016405 a JHER REF. REF. TRADE .0236643 .038048* .1326407 a SUB-TOTAL I.002844 .004954* .2716407 a .000315 1.002824* .407645* .2716407 a .000315 1.002824* .4076445* .2716407 a .000315 1.002824* .40764405 .4076405 a .000315 .	8 SUGAR PROD00014	00181		•		
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Long-term regional viability and prosperity depends on a region's economic base -- its export-producing industry. In Minnesota, a wide range of industries contribute to this base by sales to out-of-state markets.

The economic importance of export-producing industry varies, depending upon the criterion of importance. In value of gross output agriculture and food products manufacturing -- both important in Minnesota's economic history -- accounted for 8.5 percent and 11.7 percent, respectively, of the State total in 1972. In value added, these percentages were even smaller --6.6 and 4.1. When measured by the value of exports, however, the two industries increased in importance, accounting for 7.2 percent and 29.4 percent, respectively, of the State total. Agriculture-related industry was, indeed an important recipient of income received from sources outside the State.

State economic effects of agriculture-related industry are represented by demand and supply multipliers, both short-term and long-term. Short-term demand multipliers for 19 agriculture-related industries range from 1.568 for other crop production to 2.869 for dairy products manufacturing, while short-term supply multipliers range from 1.411 for alcoholic beverages and soft drinks manufacturing to 3.127 for agriculture, forestry and fishery services. Size of multiplier is directly related to the forward and backward linkages of these industries in Minnesota -- the larger the internal, in-state linkage, the larger the multiplier.

Long-term multipliers are presented, also, to show long-term effects of changes in export demands. In this report, the long-term multiplers apply only to export-producing industries and they show, at best, certain upper limits of economic impact. They are much larger in value than the corresponding short-term multipliers.