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An Interindustry Analysis of the Colorado River Basin in 1960 with Projections to 1980 and 2010

Bernard Udis
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AN INTERINDUSTRY ANALYSIS OF THE
COLORADO RIVER BASIN IN 1960
WITH PROJECTIONS TO 1980 AND 2010

Edited by
Bernard Udis
Associate Professor of Economics
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Boulder, Colorado

Prepared under Contract No. WA 67-4 between
the United States Department of the Interior,
Federal Water Pollution Control Administration and
the University of Colorado

June , 1968

September 11, 1968

MEMORANDUM

To: Recipients of copies of the Colorado River Basin economic study

From: Bernard Udis, Director of the Bureau of Economic Research, University of Colorado.

Subject: Errata

Attached are a group of errata sheets containing those errors of omission or commission which we have located to date. As additional errors are discovered, appropriate notification will be sent to you.

Please note that throughout the report, Input-Output tables do not bear a page number, although each was counted as a new page in establishing the pagination of the text.

September 11, 1968

E R R A T A

Colorado River Basin Final Report and Appendices

FINAL REPORT:

Page 40 In the Lower Main Stem 1960-c Direct and Indirect Requirements Table, headings in the left, upper corner of the table (Industry Producing and Industry Purchasing) are to be switched. Industry Producing should refer to the table columns, while Industry Purchasing should refer to the table rows. This results from the fact that this table has been transposed for ease of reading.

Page 47 In the Upper Main Stem 1960-a Interindustry Transactions Table, reading across the top of the table, Columns 36, 38, and 39 should read as follows:

Col. 36 Inventory Change (Additions)
Col. 38 Exports to Other Colorado River Sub-Basins
Col. 39 Exports Outside the Colorado River Basin

Page 50 In the San Juan 1960-a Interindustry Transactions Table, reading across the top of the table, Column 33 should read as follows:

Inventory Change (Additions)

APPENDICES:

Appendix I:

- A. Upper Basin Population Report. The numbering skips from p. 132 to p. 134 by mistake. However, no page is missing.
- B. Green Recreation Report. A new Editor's Note is to be inserted; see page 34a attached.

Appendix II:

No corrections at this time.

Editor's Note:

The figures appearing in Table GR-R9, pages 33 and 34 identified as "Export Value" for the two sectors, gas and auto service stations and "other" services are \$4,681,505 and \$1,863,933 respectively. These values compare with total export sales of these two industries of \$1,214,000 and \$252,000 as shown in the 1960 interindustry transactions table in the Green River Sub-Basin report.* Since the set of figures cited above represent export value of sales to outdoor recreationists only, they should be less than the total export sales of these industries. The reader is therefore cautioned against a literal acceptance of the accuracy of the export value figure. In view of the foregoing, it is likely that the export value figure may be overstated perhaps by 6.4 times in the case of "other" services. This probably reflects an under-estimation of sales of the "other" services group to households.

The degree of overstatement of the export value of sales by the gas and auto service station group is appreciably less. It should be noted that in this case a trade margin of 25 percent has been applied and consequently all values for this sector in the transactions table will only be one-fourth as great as unmarginated sales figures. In this particular case, the export sales figure in the transactions table represents 25.93 percent of the total export sales shown in Table GR-R9.

* Bernard Udis (ed.), *An Analysis of the Economy of the Green River Sub-Basin of the Colorado River Drainage Basin in 1960 with Emphasis on Heavy Water Using Industries*, August, 1967, Table GR-1960-a, p. 59.

September 11, 1968

E R R A T A

Gila Sub-Basin

- Page 37 In Paragraph #1, the last sentence should end as follows:
"... in the twenty years between 1940 to 1960."
- Page 181 Footnote 1, line 5 refers to page 108. This should be corrected to read "p. 246 in this volume; and the portions of Appendix I, Part B, dealing with outdoor recreation!"
- Page 189 Footnote 5 should read as follows:
"In 1958, the Census classified 6,383 establishments in the Gila as "other" retail trade. The two major metropolitan counties, Maricopa and Pima, led again with 3,392 and 1,414 establishments, respectively. In 1963, there were 7,102 "other" retail establishments in the Gila. The largest number of these (4,062) were located in Maricopa County.
- Page 257 This page at present is following page 251, and should be renumbered as page 251a.

September 11, 1968

E R R A T A
Green Sub-Basin

Page 134 Footnote 12 should read: "MBF" represents thousands of board feet.

Page 172ff. As you will notice, the numbering skips from p. 172 to p. 174 by mistake. However, no page is missing.

Page 240 Footnote 5 should read as follows:

in 1958, the Census classified 806 establishments in the Green as "other" retail trade. Carbon, Utah with 152 establishments, and Sweetwater, Wyoming, with 130, led the other counties. In 1963, there were 822 "other" retail establishments in the sub-basin. Sweetwater led with 153, followed by Carbon with 119.

September 11, 1968

E R R A T A

Little Colorado Sub-Basin

Page 177 Footnote 6 should read as follows:

In 1958, the Census classified 491 establishments in the Little Colorado as "other" retail trade. McKinley County's 195 was followed closely by the 192 in Navajo County. In 1963 there were 499 establishments in the sub-basin. Navajo and McKinley led with 222 and 190 respectively.

September 11, 1968

E R R A T A

Lower Main Stem Sub-Basin

Page 62 In the 1960-c Direct and Indirect Requirements Table, headings in the left, upper corner of the table (Industry Producing and Industry Purchasing) are to be switched. Industry Producing should refer to the table columns, while Industry Purchasing should refer to the table rows. This results from the fact that this table has been transposed for ease of reading.

Page 162 Footnote 6 should read as follows:

In 1958, the Census of Business classified 1,413 establishments in the Lower Main Stem counties as "other" retail trade. Clark County led once again with 663. In 1963, there were 1,694 "other" retail establishments in the sub-basin. Clark County had 952.

September 11, 1968

E R R A T A

San Juan Sub-Basin

Page 63 In the 1960-a Interindustry Transactions Table, reading across the top of the table, Column 33 should read as follows:

Inventory Change (Additions)

Page 97 Footnote 9 should read: "MBF" indicates thousands of board feet.

Page 147 Footnote 4 should read as follows:

In 1958, the Census of Business classified 728 establishments in the San Juan as "other" retail trade. The largest number of these (284) were found in San Juan County, New Mexico. In 1963, there were 697 establishments so classified in the sub-basin, and San Juan still led the list (294).

Page 186 The asterisk note should be corrected to read:

The initials "MBF" abbreviate the term "thousands of board feet!"

September 11, 1968

E R R A T A

Upper Main Stem Sub-Basin

Page 61 In the 1960-a Interindustry Transactions Table, reading across the top of the table, Columns 36, 38, and 39 should read as follows:

- Col. 36 Inventory Change (Additions)
- Col. 38 Exports To Other Colorado River Sub-Basins
- Col. 39 Exports Outside the Colorado River Basin

Page 123 Bibliography item 18 should read : Hutchison, S. Blair....

Page 165 Footnote 2 should read as follows:

According to the Census of Business for 1958, there were 214 wholesaling establishments in the counties comprising the Upper Main Stem, of which the largest number (99) were found in Mesa County. In 1963, the total number of wholesaling establishments was 232, while Mesa County increased to 118.

Page 167 Footnote 4 should read:

In 1958, the Census of Business classified 1,019 establishments in the Upper Main Stem as "other" retail trade. The largest number of these (340) were found in Mesa County. In 1963, "other" retail trade establishments numbered 972; Mesa County accounted for 320.

Page 207ff. As you will notice, the numbering skips from p. 207 to p. 209 by mistake. However, no page is missing.

Page 217ff. As you will notice, the numbering skips from p. 217 to p. 219 by mistake. However, no page is missing.

Page 34 For Table H, 1940 and 1950 are headings over the first two pairs of columns. The heading, 1960, should be inserted over the last pair of columns.

Editor's Preface

This document constitutes the final report of a six-year study of the economic structure of the Colorado River Basin. The economic study was originated and sponsored by the Enforcement Branch of the Division of Water Supply and Pollution Control, United States Public Health Service. This agency's functions have since been transferred to the Federal Water Pollution Control Administration, United States Department of the Interior.

The original contract for the economic study was signed in 1962 with the Associated Rocky Mountain Universities and specific participants included were the University of New Mexico, University of Colorado, Colorado State University, and the University of Denver, Denver Research Institute. Throughout the study, the Economic Research service, United States Department of Agriculture, Logan, Utah, was responsible for the analysis of the agricultural and forestry industries under a memorandum of agreement with Public Health Service and more recently the Federal Water Pollution Control Administration. The final stages of the economic study were completed in 1968 by the University of Colorado under a contract with the FWPCA.

Support of this study demonstrates an awareness by the Federal officials concerned with water pollution that their responsibilities for developing comprehensive water quality control programs require full knowledge of the economic and demographic characteristics of the region. Households, agriculture and industry constitute the claimants for water, but they are also the primary sources of water quality degradation. Consequently, an effort to understand how these units fit together, and how their interrelationships are changing is a logical and necessary first step in the development of a comprehensive water quality control program.

Of particular importance was the high degree of cooperation which prevailed between the university contractor and the Federal agencies involved. Our gratitude is especially due Drs. Clyde Stewart, Jay

Andersen, Glade Pincock, and Mr. Lynn Wilkes of the Economic Reserach Service, and Messrs. Philip J. Coffey, George G. Collins and L. Russell Freeman of WWPCA.

While their names appear with great frequency throughout this report, nevertheless separate mention should still be made here of the invaluable contributions of two persons, Dr. William H. Miernyk, now of West Virginia University, and Mr. Gilbert W. Bonem of the University of New Mexico. Dr. Miernyk's expert knowledge of input-output analysis, his professional research sense, and his ever present optimism and good humor provided sturdy support during some very trying times. Mr. Bonem was responsible for some path-breaking conceptual work and there is little in the volumes of this study which does not bear his stamp.

The input-output tables were a joint product in every sense of the word. Staff members of the Universities of New Mexico and Colorado were deeply involved in this very trying work as were representatives of the Economic Research Service. Dr. J. William Leasure of San Diego State College provided the detailed demographic materials which were utilized in almost every section of this study.

In addition to the authors and assistants named in the separate parts of this report and in the individual sub-basin reports it is a pleasure to acknowledge our appreciation of the intricate work performed by Mrs. Yun-May Feng and Mrs. Carol Fuller, computer programmers.

In the detailed work of applying input-output techniques to the analysis of water problems, valuable contributions were made by Mr. Eugene Eaton and Miss Jo Ann Sikes, of the staff of the Bureau of Economic Research, and earlier by Mr. Lee Megli, now of the Pennsylvania State University.

Mrs. Susan Susemihl, Mrs. Linda Dahl, Miss Marilyn Jorrie, and Mrs. Caryl Jacques, all of the University of Colorado performed arduous typing and editorial duties under severe time pressures with a competence and personal involvement rarely encountered by the editor.

It would be difficult to exaggerate my personal debt to Blair T. Bower, of Resources for the Future, Inc., John H. Chapman, Jr. of Coe College, and Nathaniel Wollman of the University of New Mexico. In a very real sense, they contributed not only of their appreciable professional talents but also of their stores of faith, hope, and charity.

Finally, our deep gratitude is recorded for the contribution of Mr. Howard Roark of the Office of Research Services, University of Colorado. Without his help this report could not have been produced.

Bernard Udis

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AN INTERINDUSTRY ANALYSIS OF THE COLORADO RIVER BASIN
IN 1960 WITH PROJECTIONS TO 1980 AND 2010

Physical Description of the Colorado River Basin

The Colorado River Basin is bounded by Wyoming on the north and Mexico on the south. It extends from the western slope of the Rocky Mountains to western Wyoming, eastern Nevada, Utah and California, covering approximately 247,000 square miles. (See Maps, Figures 1 - 7).

The Basin encompasses portions of six states: Arizona, Colorado, Nevada, New Mexico, Utah and Wyoming. For purposes of this analysis, the Basin has been defined in terms of 55 "representative" counties¹ grouped into six major study areas which correspond to the six sub-basins of the Colorado River Basin. The Green, Upper Main Stem and San Juan Sub-Basins constitute the upper portion of the Basin and the Little Colorado, Lower Main Stem and Gila comprise the lower portion. (See Table CRB-1 for county listings.)

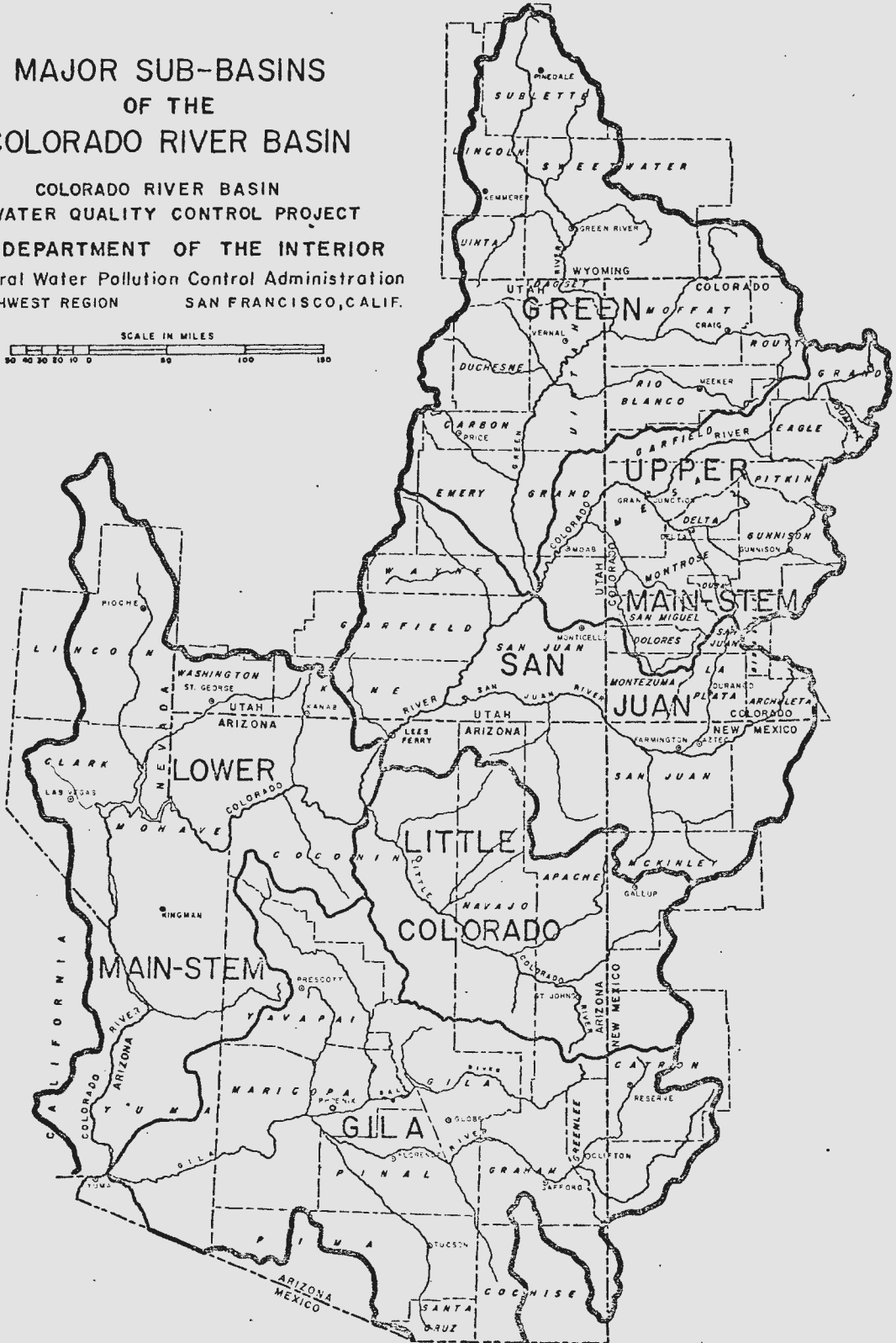
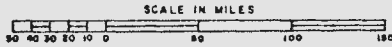
The region is marked by sharp contrasts. Topographically it varies from the nation's highest mountain ranges in the north, to low desert plains in the south, dotted with lower mountain ranges. The climate of the area is as varied as the land forms. Precipitation is heavy in the mountains and plateau areas, while the southern deserts are arid; mountain temperatures vary from an extreme of 54° below zero (Fahrenheit) to an average of 40°F. while the desert temperatures range from an extreme of 127°F. above zero to an average

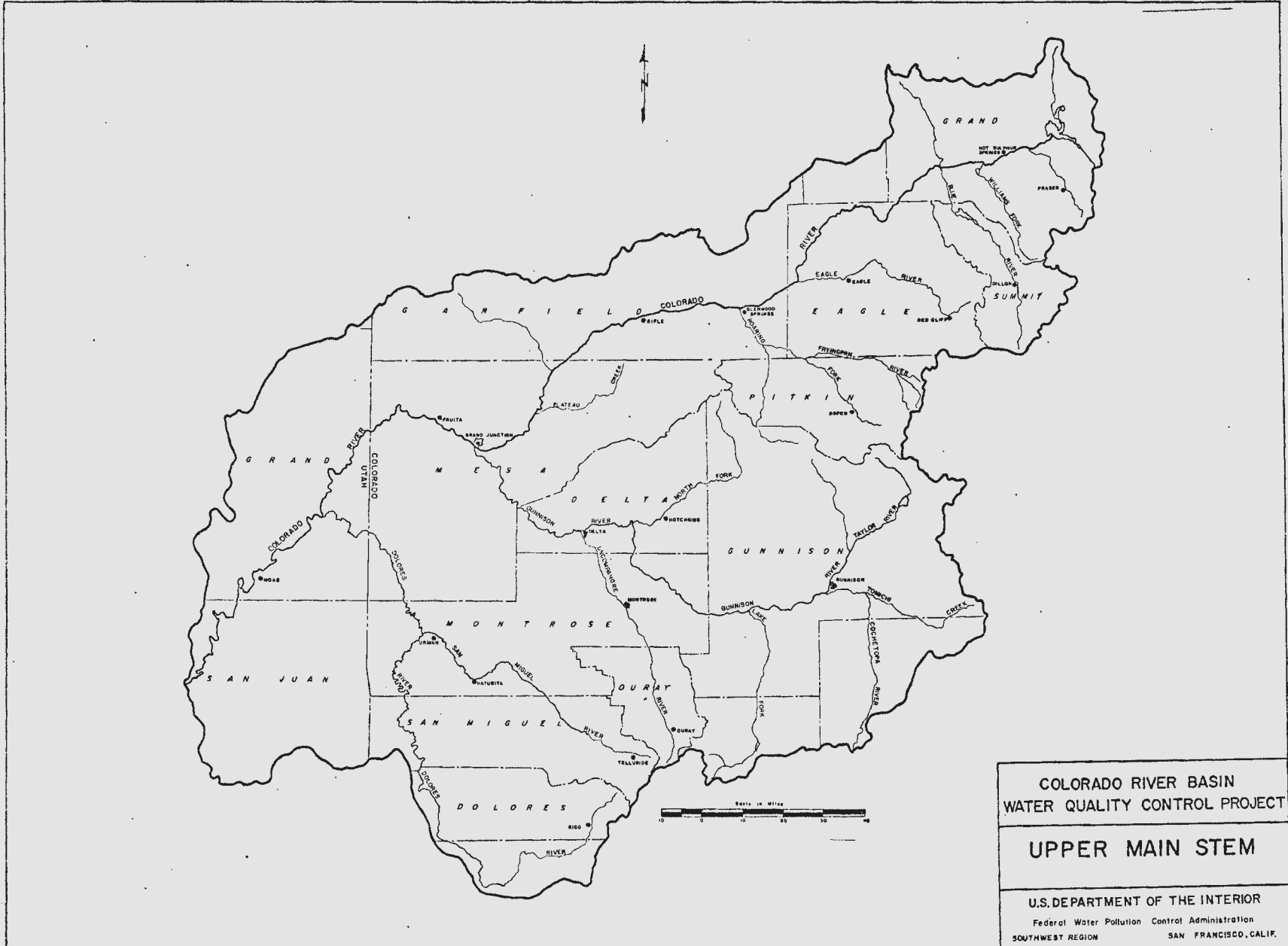
¹The Public Health Service has designated as "representative" certain counties of the Colorado Basin in which most of the economic activity occurs. This was necessary because the boundaries of the Colorado River Basin, and its sub-basins, follow natural drainage divisions, and rarely conform to county borders, while most statistical data are available for entire counties. See United States Department of Health, Education and Welfare, Public Health Service, Bureau of State Services, Division of Water Supply and Pollution Control, Region VIII, Colorado River Basin Water Quality Control Project, State and County Area Tabulations for the Colorado River Basin (Denver: Colorado River Basin Water Quality Control Project, January, 1962), p. 12.

Figure CRB-1

MAJOR SUB-BASINS
OF THE
COLORADO RIVER BASIN

COLORADO RIVER BASIN
WATER QUALITY CONTROL PROJECT
U.S. DEPARTMENT OF THE INTERIOR
Federal Water Pollution Control Administration
SOUTHWEST REGION SAN FRANCISCO, CALIF.





COLORADO RIVER BASIN
WATER QUALITY CONTROL PROJECT

UPPER MAIN STEM

U.S. DEPARTMENT OF THE INTERIOR
Federal Water Pollution Control Administration
SOUTHWEST REGION SAN FRANCISCO, CALIF.

Figure CRB- 2

Figure CRB-3

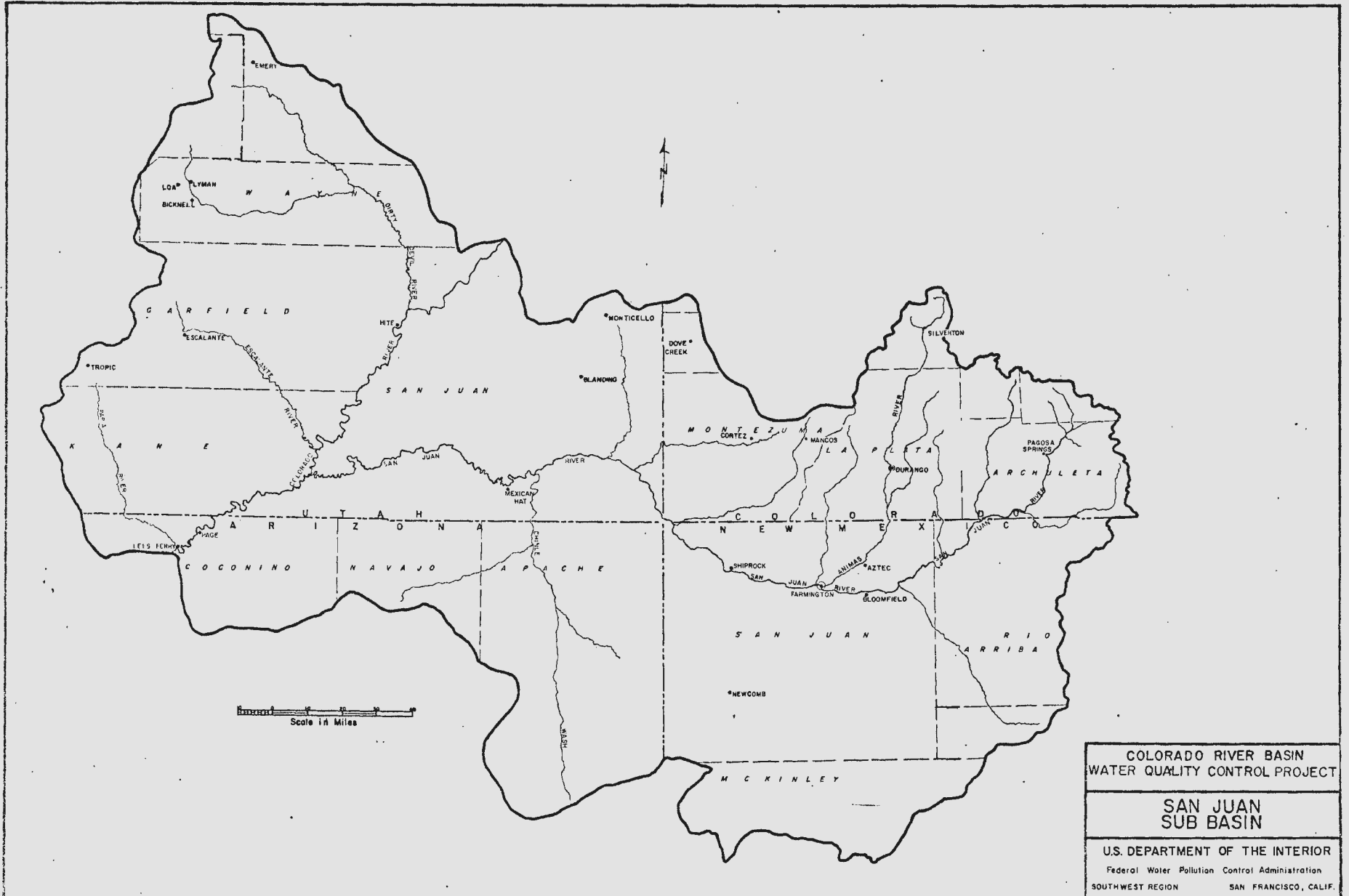


Figure CRB-4

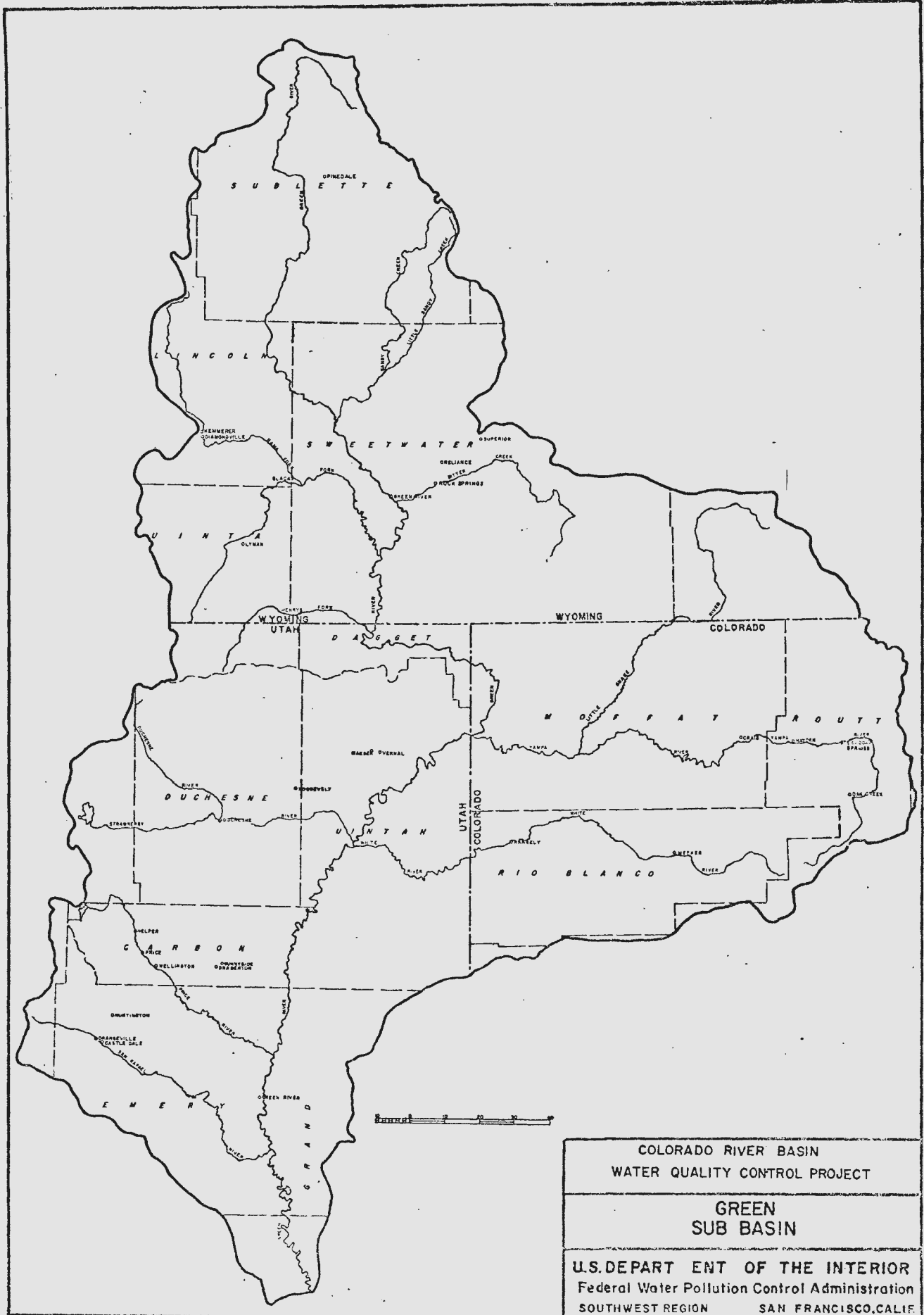


Figure CRB-5

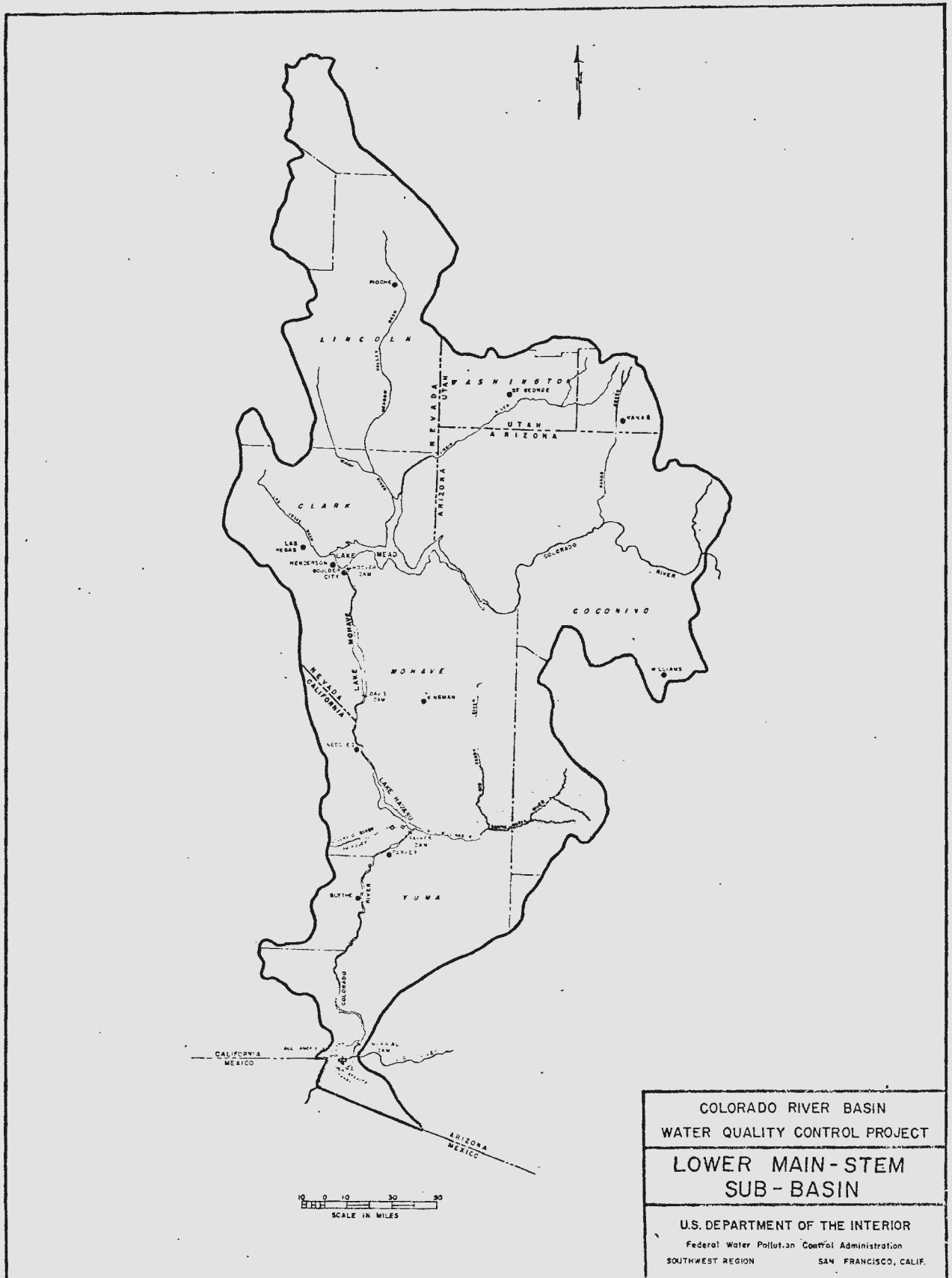
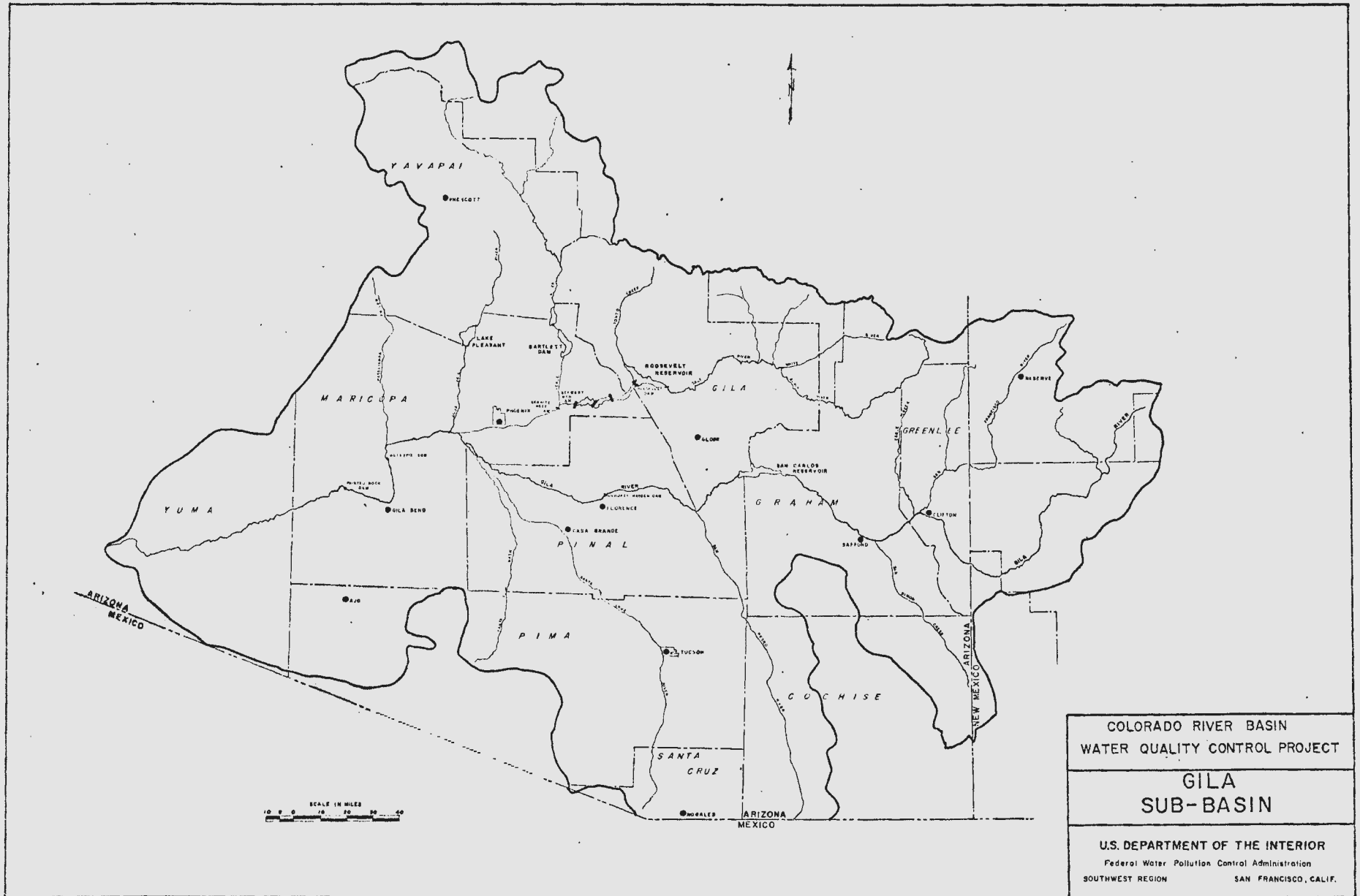


Figure CRB-6



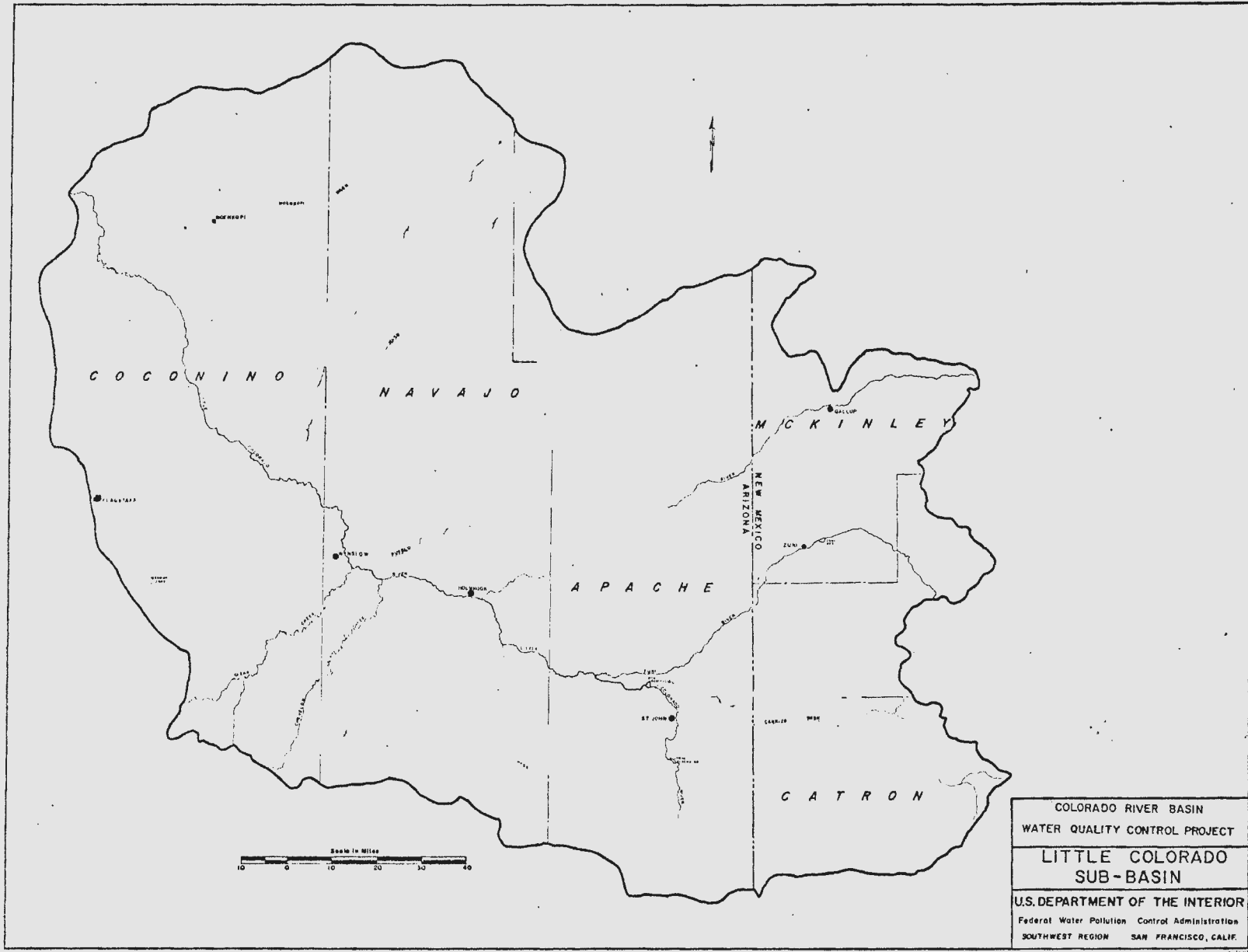


Figure CRB-7

Table CRB-1

Representative Counties of the Colorado River Basin

<u>Sub Basin</u>	<u>State and County</u>	<u>Sub-Basin</u>	<u>State and County</u>
I. Upper Main Stem	<u>Colorado</u>	III. San Juan. (cont'd)	<u>Utah</u>
	1. Delta		1. Garfield
	2. Dolores		2. Kane
	3. Eagle		3. San Juan
	4. Garfield		4. Wayne
	5. Grand		
	6. Gunnison		IV. Little
	7. Hinsdale		Colorado
	8. Mesa		<u>Arizona</u>
	9. Montrose		1. Apache
	10. Ouray		2. Navajo
	11. Pitkin		
	12. San Miguel		<u>New Mexico</u>
13. Summit	1. McKinley		
	<u>Utah</u>	V. Gila	<u>Arizona</u>
	1. Grand		1. Cochise
			2. Gila
			3. Graham
			4. Greenlee
			5. Maricopa
			6. Pima
			7. Pinal
			8. Santa Cruz
			9. Yavapai
II. Green	<u>Colorado</u>		<u>New Mexico</u>
	1. Moffat		1. Catron
	2. Rio Blanco		2. Grant
	3. Routt		
	<u>Utah</u>		IV. Lower
	1. Carbon		Main Stem
	2. Daggett		<u>Arizona</u>
	3. Duchesne		1. Coconino
	4. Emery		2. Mohave
	5. Uintah		3. Yuma
	<u>Wyoming</u>		<u>Nevada</u>
	1. Lincoln		1. Clark
	2. Sublette		2. Lincoln
	3. Sweetwater		
	4. Uinta		<u>Utah</u>
III. San Juan	<u>Colorado</u>		1. Washington
	1. Archuleta		
	2. La Plata		
	3. Montezuma		
	4. San Juan		
	<u>New Mexico</u>		
	1. San Juan		

Source: See footnote 1.

of 70° F.²

Seventy percent of the Colorado River Basin land is under Federal control in the form of Indian Reservations, national forests and parks, and similar holdings.³ Contrasts in land use can be found between large urban areas, such as Maricopa County, Arizona (1960 population: 663,510) and uninhabited areas, such as Hinsdale County, Colorado (1960 population: 208).⁴

Population

The 1960 population of the entire Colorado River Basin was 1,838,602, an increase of 60.5 percent over 1950. The largest sub-basin, according to population in 1960 was the Gila (1.16 million inhabitants). The Lower Main Stem Sub-Basin was second, with 236,000 inhabitants; next was the Upper Main Stem Sub-Basin (128,000) followed by the San Juan (107,000), Little Colorado (106,000) and the Green (103,000). The largest increase in population during the decade to 1960 was the 93 percent increase in the Lower Main Stem Sub-Basin. The Gila and the San Juan experienced increases of 76 and 74 percent respectively, while the Green suffered a decline of 7 percent. Much of the basin, however, is uninhabited. With 8 percent of the nation's area, the basin has less than 1 percent of the national population, and most of this is largely concentrated in a few locations favorable for agriculture and mining.⁵

As contrasted with the national density of 59.0 persons per square mile, the Basin had an average density of 7.4 people per square mile in 1960. Densities ranged from 19.8 people per square mile in the Gila Sub-Basin, to 2.2 people per square mile in the Green Sub-Basin.

²Ten Rivers in America, the President's Water Resources Policy Commission, Vol. II (Washington: U.S. Government Printing Office, 1950), p. 357.

Variation in climate and topography is discussed in more detail in the recreation reports found in Appendix B.

³Ibid., p. 359.

⁴U.S. Census of Population, 1960.

⁵Ten Rivers in America, op. cit., p. 359.

Within the entire Colorado River Basin there are only three cities listed as Standard Metropolitan Statistical areas, all in the southern portion of the Basin -- Phoenix and Tucson, Arizona, and Las Vegas, Nevada. Yet in 1960 the Census of Population classified 67.2 percent of the basin population as urban. This would indicate a large number of smaller concentrations of inhabitants. By comparison, in 1950, 48.5 percent was classed as urban, and only 30.5 percent in 1940.

On the other hand, rural nonfarm population decreased from 41 percent (1940) to 27 percent in 1960. Similarly, rural farm population decreased from 28 percent in 1940 to 5.5 percent in 1960. These 1960 Basin averages compare with the following national averages: urban, 69.9 percent; rural nonfarm, 22.6 percent, rural farm, 7.4 percent.

As should be expected the Gila Sub-Basin, containing Tucson and Phoenix, was the most urbanized in 1960, with 78.4 percent. The Lower Main Stem followed with 71 percent, while the remaining four sub-basins ranged between 42 and 28 percent urban population. The largest rural nonfarm population is found in the Little Colorado Sub-Basin with 58.7 percent, followed by the Green with 50 percent, the Upper Main Stem with 49.8 percent, and the San Juan with 46 percent. In the Lower Main Stem and the Gila Sub-Basins, 27 and 19.6 percent of the population were classed as rural nonfarm. The largest rural farm population is found in the Upper Main Stem Sub-Basin with 15.6 percent, followed by the Green (14.8 percent), the Little Colorado (12.9 percent), the San Juan (11.8 percent), and the Gila and Lower Main Stem Sub-Basins with 3 percent, each.

Education

In general the educational level of the Colorado Basin population, 25 years and older, is below that of the nation. Male residents of the Colorado Basin averaged 10.2 years of schooling, and females averaged 10.7 years in 1960, while the national figures were 10.5 and 11.0 years respectively. The only sub-basin appreciably lagging the nation

in educational levels was the Little Colorado where males averaged 7.7 years of schooling, and females, only 7.2 years.

Income

Table CRB-2 lists our estimates of the 1960 per capita personal income within the six sub-basins of the Colorado River Basin, the River Basin as a whole. These figures are then compared with the nation through the device of the "location quotient." This is a convenient device which aids in the study of regions by permitting a simple comparison per head of population between the region and the entire country for whatever particular economic characteristic is under study. A location quotient with a value of 1.0 would indicate equality between region and nation; a value greater than 1.0 indicates the relative excess of the region over the nation, while a location quotient less than 1.0 shows the relative magnitude by which the region trails the nation.

According to our estimates, the per capita income of the Colorado River Basin is slightly below the national average. Only one sub-basin, the Lower Main Stem (\$2,112) has a location quotient which shows income above the national average (\$1,941).

Nature of the Economy

In terms of the number of persons employed in 1960, the Basin's most important industries were trade, services⁶, manufacturing, government and contract construction. Agriculture which ranked first as an employer in 1940, and second in 1950, fell to sixth rank in 1960 -- a two-decade decline of 23 percent. Trade, which was in second place in 1940, increased by 205 percent over the two-decade period to 1960, although already in first place by 1950. (For a breakdown of employment by industry, see Table CRB-3)

⁶The classification of services, here, excludes the medical and other professional services category normally included by the Standard Industrial Classification (SIC). Professional services are in the household section of the input-output tables. SIC should therefore not be comparable to the input-output analysis, directly.

Table CRB-2

Personal Income Per Capita

U.S., Colorado River Basin, and Six Sub-Basins, 1960

	<u>Per Capita Personal Income (1960 Estimates)</u>	<u>Location Quotient (Sub-Basin Per Capita Personal Income) ÷ (U.S. Per Capita Personal Income)</u>
United States	1,941	--
San Juan Sub-Basin	1,554	0.801
Upper Main Stem Sub-Basin	1,695	0.873
Green Sub-Basin	1,656	0.853
Gila Sub-Basin	1,912	0.985
Lower Main Stem Sub-Basin	2,112	1.088
Little Colorado Sub-Basin	1,022	0.527
Colorado River Basin	1,836	0.946

Source: Our estimates of per capita personal income were derived in the following manner. Personal income for each county was determined by multiplying the mean income from all sources received by income recipients in 1959 by the number of income recipients as reported in Table 86 of various state reports of the 1960 Census of Population, General Social and Economic Characteristics. The personal income from all sources thus derived for 1959 was adjusted to 1960 by the national growth rate in Personal Income between 1959 and 1960 (4.9%). The resulting total was then divided by 1960 population to arrive at the 1960 per capita personal income figures.

Table CRB-3

Employment by Industry for the Colorado River

Industries	Adjusted Employment Figures			Industry as Adjusted Sub-B	
	1940	1950	1960	1940	19
Agriculture	68,706	68,241	52,860	27.1	17
Mining	26,921	25,879	33,809	10.6	6
Contract Construction	14,765	30,746	57,956	5.8	8
Manufacturing (Total)	18,963	28,584	70,712	7.5	7
Food and kindred products mfg.	3,217	5,181	10,080	1.3	1
Textile mill products mfg.	4,344	2,326	298	1.7	
Apparel mfg.	74	376	2,658	--	
Lumber, wood products, furniture mfg.	3,523	5,138	5,762	1.4	1
Printing and publishing	1,948	3,373	7,241	.8	
Chemicals and allied products mfg.	448	1,312	2,339	.2	
Electrical and other machinery mfg.	444	1,390	11,864	.2	
Motor vehicles and equipment mfg.	70	136	551	--	--
Other transportation equipment mfg.	46	182	6,017	--	--
**Primary metals	360	4,929	7,448	.1	1
**Fabricated metals	3,192	1,177	7,372	1.3	
Other and miscellaneous mfg.	1,297	3,162	9,082	.5	
Transportation	14,215	22,445	24,200	5.6	5
Communication, utilities	5,002	12,424	21,535	2.0	3
Wholesale trade	6,360	11,731	20,064	2.5	3
Eating and drinking places	7,219	14,789	22,433	2.8	3
Other retail trade	27,328	48,738	82,422	10.8	12
Finance, insurance, real estate	4,073	9,489	27,270	1.6	2
Services (Total)	48,833	80,087	159,653	19.3	20
Hotels and other personal services	11,385	18,578	35,896	4.5	4
Private households	9,139	9,753	17,152	3.6	2
Business and repair services	5,263	10,582	17,605	2.1	2
Entertainment, recreation services	2,615	5,388	9,151	1.0	1
Medical, other professional services	20,431	35,786	79,849	8.1	9
Government	11,101	29,355	59,365	4.4	7
Total	253,626	382,526	632,717	100.00	100

Source: Table H in the individual sub-basin reports, cumulated here.

Trade, a consistent leader by number of persons employed, fell to second place in 1960 by another measure of importance -- total gross output. In first rank were the manufacturing industries with \$1.3 billion of output. Trade ran a close second with \$1.2 billion while mining occupied third place position with \$1.1 billion.

When ranked by the magnitude of the total dollar production directly and indirectly required by the basin economy to sustain a \$1.00 increase in deliveries to final demand, agriculture appears to be the first-rank generator of economic activity in the basin. For every \$1.00 agriculture produces, it generates \$58.87 of economic activity. Similarly manufacturing, in second place, generates \$49.62, and trade, \$31.43.

This brief description of the Colorado River Basin points out the enormous diversity -- both physical and economic -- which marks the region and indicates why detailed analytical treatment was aimed at the level of the sub-basin.

1960 Summation of Generated Dollars Resulting from an Industry's Production

	Agriculture	Mining	Contract Construction	All Trade	Manufacturing	Services
Upper Main Stem	\$12.25	\$ 4.89	\$1.57	\$ 5.11	\$ 5.16	\$ 3.34
Lower Main Stem	13.91	2.87	1.74	5.53	6.83	4.01
San Juan	7.84	5.08	1.80	5.24	6.50	5.11
Gila	13.83	3.95	1.69	5.42	17.92	3.94
Green	2.55	3.57	1.29	5.34	7.49	3.71
Little Colorado	8.48	6.19	1.52	4.81	5.73	2.25
Total	58.87	26.57	9.61	31.43	49.62	22.36

Source: Interindustry Tables of Direct and Indirect Coefficients, 1960, for each sub-basin.

Alternative Techniques of Regional Analysis

A variety of techniques exist for the economic analysis of regions. None is without limitations, and the choice of the most appropriate depends upon the desired results of the analysis. We shall examine the industry location study, the system of regional income and product accounts, and the economic base approach. Then input-output analysis will be considered in somewhat greater detail.

Industry location studies follow the pattern of looking in detail at the existing industries in a region and attempting to gain insights into their prospects in terms of competition from the same industry in other regions, from other industries and the like. This involves a detailed analysis of resource availability, labor costs, freight rates, both with respect to raw material sources and final markets. While this method of systematically examining a particular industry frequently yields valuable information, the approach is incapable of producing even a rough approximation to a measure of direct and indirect impacts resulting from a given industry. The basic reason for this is the absence of an analytical framework capable of relating the operations of a given industry to the rest of the economy. Another consequence of this shortcoming is a weakness in projection. Any effort to look into the future is necessarily risky, but without the discipline of an internally consistent model, projections may be not only wrong, but impossible. It is the virtue of internal consistency that it will not permit a projection to be made which flies in the face of physical possibilities by ignoring the critical linkage between supplying and producing industries.

Another possible approach would be that of constructing a set of income and product accounts for the region. Such a series of numbers would resemble the national income statistics of the United States. These accounts are typically drawn in terms of the concept of value added to avoid double counting. This process requires that intermediate sales by each industry which constitute inputs to other industries be subtracted from total output. It is impossible to do this outside of

the interindustry framework. Even so, a gross deficiency remains -- the extremely limited use to which such data can be placed for purposes of projection. It is instructive to note that one of the most careful studies utilizing the method of local accounts concluded that "a local accounts table can show only what has been, not what 'might have been.'"⁷

Another technique which has been popular in recent years is the economic base approach. It distinguishes between basic and service industry types. The basic premise underlying this approach is that "the reason for the existence and growth of a region . . . lies in the goods and services it produces locally but sells beyond its borders. These 'basic' activities not only provide the means of payment for raw materials, food, and manufactured products which the region cannot produce itself, but also support the 'service' activities, which are principally local in productive scope and market areas."⁸ In other words this approach puts prime emphasis on the export activities of a region.

Isard details the technical and conceptual shortcomings of this approach which are appreciable and apply both to the associated calculation of multipliers from basic-service ratios and their use in projection.⁹ Perhaps most important is his observation after considering what would be necessary to remedy these deficiencies. "It could very well be argued that if such data were available, a better and more direct way to approach the whole problem would be to set up interregional input-output tables."

⁷ Werner Hochwald, Herbert E. Striner, and Sidney Sonenblum, Local Impact of Foreign Trade: A Study in Methods of Local Economic Accounting (Washington: National Planning Association, 1960), p. 27.

⁸ Walter Isard, Methods of Regional Analysis: An Introduction to Regional Science (Cambridge: The M.I.T. Press, 1960), p. 190.

⁹ Ibid., pp. 194-205.

¹⁰ Ibid., p. 204.

Finally, after examining input-output analysis in detail, Isard concludes "An overall appraisal of this technique must yield a positive result. Without question, of operational techniques this is the most powerful one yet devised to express the interdependence of the economy of a region and of a system of regions in their interindustry aspects. This technique is of critical importance, too, because more than any other . . . [It] does furnish a skeletal framework to which the less general structures of a number of other techniques can be functionally connected."¹¹

This last point is of great significance. Not only does input-output analysis yield unique and useful information about the structure of a region's economy, but it provides an analytical framework into which the data resulting from other studies can be integrated.

Basic Input-Output Model ¹²

We begin with what is known as an interindustry transactions table in Table CRB-4. It is an illustrative transactions table for a simplified economy containing six producing (or "processing") sectors identified by the letters "A" through "F". These may be thought of as representing agriculture, mining, manufacturing, construction, trade, services, etc. The degree of detail is determined by study objectives and data availability. For example, our sub-basin tables vary in detail reflecting the basic differences in the economies of the six regions. There are 30 processing industries or sectors in the Lower Main Stem tables, 36 in the Gila, 25 in the Little Colorado, 22 in the Green, 28 in the San Juan, and 31 in the Upper Main Stem. Furthermore, while there is only one agricultural sector in the Green sub-basin, there are nine in the Gila and Lower Main Stem where agriculture is much more highly developed.

¹¹Ibid., p. 362.

¹²This section is based on the presentation in William H. Miernyk, The Elements of Input-Output Analysis (New York: Random House, 1965), Chapter 2.

Table CRB-4

Hypothetical Transactions Table (Transposed)

		Processing Sector						Industry Purchases			Final Demand		
Inputs ²	Outputs ¹	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		A	B	C	D	E	F	Gross Inventory Accumulation (+)	Exports to Foreign Countries	Government Purchases	Gross Private Capital Formation	Households	Total Gross Output
Industry Producing Sector	(1) Industry A	10	15	1	2	5	6	2	5	1	3	14	64
	(2) Industry B	5	4	7	1	3	8	1	6	3	4	17	59
	(3) Industry C	7	2	8	1	5	3	2	3	1	3	5	40
	(4) Industry D	11	1	2	8	6	4	0	0	1	2	4	39
	(5) Industry E	4	0	1	14	3	2	1	2	1	3	9	40
	(6) Industry F	2	6	7	6	2	6	2	4	2	1	8	46
Payments Sector	(7) Gross inventory depletion (-)	1	2	1	0	2	1	0	1	0	0	0	8
	(8) Imports	2	1	3	0	3	2	0	0	0	0	2	13
	(9) Payments to Government	2	3	2	2	1	2	3	2	1	2	12	32
	(10) Depreciation Allowances	1	2	1	0	1	0	0	0	0	0	0	5
	(11) Households	19	23	7	5	9	12	1	0	8	0	1	85
(12) Total Gross Outlays	64	59	40	39	40	46	12	23	18	18	72	431	

¹Sales to industries and sectors along the top of the table from the industry listed in each row at the left of the table.

²Purchases from industries and sectors at the left of the table by the industry listed at the top of each column.

Source: William H. Miernyk, *op. cit.*, p. 9.

Sector names appear both down the left margin and across the top of the tables. Reading across any row from left to right tells how the output of the industry named in the left-hand margin is allocated. Thus in Table CRB-4, of Industry "A's" total output of 64 units, 10 units went to itself (for example, agriculture might sell to itself such products as seed, cattle feed, etc.). In addition, 15 units went to Industry "B", one unit to Industry "C", and so on. All purchases or inputs of an industry are shown in its column. In our example, of Industry "A's" total inputs (or in money terms, its outlays for inputs) of 64, ten were intraindustry purchases, five came from Industry "B", seven from Industry "C", etc.

The complete transactions table includes several sectors which are not industries in the usual sense of the term. Reading across the top of the table these occupy columns (7) through (11) and include gross inventory accumulation, exports, government purchases, gross private capital formation and households. Together they comprise what is known as the "final demand" portion of the table. Similarly, rows numbered (7) through (11) comprise the "final payments" part of the table. Here again, degree of detail will vary with need. In our tables, there are two import rows and two export columns -- one dealing with other sub-basins of the Colorado River Basin and one with the "rest of the world" outside the Basin. Similarly, we have divided the government sector into two parts: one combining state and federal units and the other restricted to local governmental units.

The inclusion of the final demand sectors and the final payments sectors is necessary to fully account for both the disposition of the total output of an industry and its total inputs (or outlays). Thus, a given processing industry sells not only to other industries but also to export customers, to government units, and to private households. In addition, part of its annual output goes into inventories and to other investment purposes. Similarly part of an industry's outlays cover inputs from import purchases, payments to governments (taxes,

etc.), and to households in the form of wages and salaries. Some fraction of inputs also come out of inventories or represent capital consumption (depreciation).

Row (12) titled Total Gross Outlay represents the total of inputs to each of the industries and sectors in each column at the top of the table. Thus, Industry "A" purchases a total of 64 units of which 39 came from processing sector industries (including itself) and 25 units from the payments sector.

It should be noted that for each processing sector industry, total gross output equals total gross outlay. This should not be surprising since the I-O table is basically modeled on double-entry bookkeeping. That is, each industry's receipts from all outputs will just equal its total outlays. It should be mentioned here that the household sector includes distributed profit, as well as wages and salaries since profit is considered a reward for enterprise. This necessary equality between output and total gross outlay does not apply to the rows and columns outside of the processing sector. There is no logical necessity for equality between an industry's imports and exports, or between inventory depletions and inventory accumulation in a given year. Similarly, there is no reason for government purchases to equal government tax receipts or for equality to prevail between capital spending and depreciation charges, or household payments and receipts. When viewed as an entire economy, however, such differences cancel and the total of all rows in the payments sector must equal the total of all columns in the final demand sector. This aggregate equality between final demand and final payments is similar to that between Gross National Product (GNP) calculated from the product side and from the factor payments (income) side. In other words, the total value of output must equal the total incomes earned in connection with its production and sale.

Once a transactions table has been constructed, the next step is the calculation of a table of direct input or technical coefficients. These figures represent the amount of inputs required from each industry

to produce one dollar's worth of the output of a given industry. Typically, these coefficients are calculated only for processing sector industries. They may be expressed in physical or monetary units. In our hypothetical tables they are expressed in cents per dollar of direct purchases.

The calculation of technical coefficients requires two steps: first, the calculation of adjusted gross output by subtracting inventory depletion from TGO (Row 12 minus Row 7 of Table CRB-4); second, dividing all entries in each industry's column by the adjusted gross output for that industry. Thus, in our example, Industry "A's" adjusted gross output is equal to 63. Each item in Column (1) is then divided by 63 which yields the entries in Column (1) of Table CRB-5. In the same way, adjusted gross output of Industry "B" is 57 and this number is divided into each entry in Column (2) of Table CRB-4 to obtain Column (2) of Table CRB-5. Table CRB-5 is read as follows: each dollar's worth of output in Industry "B" requires the following indicated direct purchases from each of the processing industries:

Purchases by Industry B from Industry A	26¢
Intraindustry Transactions	7¢
Purchases by Industry B from Industry C	4¢
Purchases by Industry B from Industry D	2¢
Purchases by Industry B from Industry E	0
Purchases by Industry B from Industry F	11¢
Total Direct Purchases	50¢

The usefulness of such a table of direct coefficients is restricted since it shows only the first round or direct effects of a change in the output of one industry on its supplying industries. There are also indirect effects which reflect successive rounds of interaction between industries. Thus, in the above example, while an increase in the output of Industry "B" requires direct increases in its purchases of inputs from other industries as shown in Table CRB-5 above, there will also

Table CRB-5
Input Coefficient Table
Direct Purchases per Dollar of Output
Industries Purchasing

	(1) A	(2) B	(3) C	(4) D	(5) E	(6) F
A	16¢	26¢	3¢	5¢	13¢	13¢
B	8¢	7¢	18¢	3¢	8¢	18¢
C	11¢	4¢	21¢	3¢	13¢	7¢
D	17¢	2¢	5¢	21¢	16¢	9¢
E	6¢	0	3¢	36¢	8¢	4¢
F	3¢	11¢	18¢	15¢	5¢	13¢

Miernyk, op. cit., p.22

Table CRB-6
Direct and Indirect Requirements
per Dollar of Final Demand
(Transposed)

	(1) A	(2) B	(3) C	(4) D	(5) E	(6) F
A	\$1.38	.45	.27	.35	.35	.38
B	.25	1.21	.38	.25	.26	.35
C	.28	.16	1.38	.25	.31	.22
D	.41	.19	.23	1.53	.39	.30
E	.27	.12	.17	.65	1.28	.21
F	.23	.24	.39	.41	.25	1.32

Miernyk, op. cit., p. 26

be additional reverberations since an increase in Industry "A's" sales to Industry "B" will require "A" to purchase additional inputs from its suppliers -- Industry "C", "D", etc. (which quite probably will in turn buy more from Industry "B"). Thus, such indirect effects will spread through the processing sector and they must be taken into account.

The table of direct and indirect effects provides the means to accomplish this end. Such a table shows the total output effect of a one-dollar sale by any processing sector industry to a final demand sector such as households, investors, government, exports, etc. While alternative methods exist to carry out such calculations, the development of modern computer technology has made the step a routine one of what is known as matrix inversion. This requires that the difference be taken between an identity matrix (a matrix composed of a series of one's along the diagonal and zeroes in all other entries) and the input coefficient matrix (Table CRB-5), and from this calculating an inverse matrix. The direct coefficients of Table CRB-5 have been subjected to this operation and the results appear in Table CRB-6 -- now a table showing the total requirements, both direct and indirect -- necessary to support a one-dollar sale to final demand. All numbers have been rounded to the nearest cent. This table is best understood by a series of comparisons with Table CRB-5. There it was shown that every dollar's worth of output in Industry "B" required 7¢ of direct intraindustry transactions. Table CRB-6 indicates that total intraindustry transactions will increase an additional 14¢ -- to a total of 21¢ for each dollar's worth of its products delivered to final demand. The same phenomenon may be observed in the other cells of Table CRB-6.

While conceptually similar, a real I-O table of direct and indirect coefficients will customarily include smaller values and much greater variation throughout the table reflecting differential degrees of inter-industry dependence.

I-O analysis is a very versatile tool with a variety of possible applications. Basically, of course, I-O presents a structural description of an economy -- it shows the interindustry transactions required to sustain any given level of final demand. Final demands will vary not only with respect to magnitude but also to composition. Thus, one may calculate how a change in composition will influence the economy. This feature has made I-O useful for our purposes.

A regulatory agency concerned with water pollution will naturally keep a close watch on industries known to be heavy water users or polluters. I-O analysis provides such an agency with a more effective "early warning system" since it is capable of determining when output change in other industries will have a pronounced effect on the heavy water-using industries. This application demonstrates the unique capability of input-output analysis to identify detailed linkages between industries.

The Construction of Input-Output Tables for the Colorado River Basin¹³

The model described briefly above is deceptively simple. The direct coefficients can be computed easily on a desk calculator even for a fairly large table; and programs for the inversion of matrices are readily available. The major work involved is in constructing the basic transactions table. Before this can be done the sectors to be included in the table must be defined. An effort must be made to limit each sector to one with relatively homogeneous inputs and outputs. Care must be exercised to avoid the problem of substitutability. After preliminary investigation has shown what sectors are to be used the transactions table is constructed in two steps:

¹³ This section borrows heavily from Miernyk's excellent paper, "Small-Area Interindustry Analysis," Bureau of Economic Research, University of Colorado, (Mimeographed, 1963), pp. 8-17.

- (1) The first step is to establish "control totals." For the processing sectors these are usually total sales figures, except for the trade sector where gross margins (operating costs plus net revenues) represent output.¹⁴ In the final demand and payments sectors it is possible to estimate other control totals, such as payments to government and personal consumption expenditures.
- (2) Once the control totals have been established, the row and column distributions are worked out. In this study the distributions were based on survey data obtained from a sample of all establishments represented in the processing sectors. The procedure is to fill out each row and the corresponding column separately, then to reconcile differences at the intersections. The entire process is iterative. There is no single method for arriving at the final distribution. Frequently, judgment must be used in making inter-section reconciliations.

In constructing the transactions table either producer's or purchaser's prices may be used. The standard practice in the United States, however, has been to use producer's prices, and this was the procedure followed in this study. When this method of valuation is employed, marketing costs are excluded from the output control totals. They are added to the costs of the consuming sector. Trade margins are registered as purchases by the consumers of specific commodities. Both outputs and inputs are stated in f.o.b. prices. The buyer pays transportation costs, and where a firm uses its own transportation facilities, transportation costs must be imputed to the transportation sector.¹⁵

¹⁴The problem of treating the trade sectors so that they reflect only the distribution of the gross margin is complex, but quite important. An illustrative example appears later in this chapter.

¹⁵For a discussion of the problems involved in obtaining data, and the reasons for preferring producer's to purchaser's prices, see Hollis B. Chenery and Paul G. Clark, Interindustry Economics (New York: John Wiley & Sons, Inc., 1959), pp. 141-142.

The number of processing sector industries on the tables of the various sub-basins simply reflect the types of economic activity found in the regions. Heavy water-using industries were singled out for separate treatment in the processing sector of the transactions table. Also, a number of subdivisions of the trade and service sectors were closely examined in view of their importance to water-related recreation activities.

It is essential to provide for unallocated inputs and outputs during the data gathering phase. Chenery and Clark have argued that it is better to eliminate unallocated figures even if this must be done solely on the basis of judgment.¹⁶

In this study unallocated inputs and outputs were not a particularly serious problem. Reasonably comprehensive surveys of most processing sectors permitted fairly reliable distributions of purchases and sales.¹⁷ The survey data were also helpful in distributing purchases and sales within the payment and final demand sectors. This is perhaps an advantage which small area input-output analysis has over the construction of national tables. Those involved in the construction of national tables have available a wealth of statistical information which cannot be obtained on a small-area basis, and thus can estimate more reliable control totals. On the other hand, it would be inordinately costly to conduct nation-wide surveys for all sectors to allocate interindustry flows. In a relatively small and sparsely-populated area, however, such surveys yield a high rate of return.¹⁸

¹⁶Chenery and Clark, op. cit., p. 142.

¹⁷The extent of coverage varied from sector to sector. It is important to emphasize, however, that sample data were not used to estimate control totals. These were derived from secondary sources.

¹⁸In some small-area input-output studies interindustry flows have been estimated by applying national coefficients to regional control totals. As Isard has pointed out, however, such estimates are affected by interregional differences in factor proportions and product mix. The use of survey data to distribute purchases and sales should result in far more accurate technical coefficients. See Walter Isard, "Regional Commodity Balances and Interregional Commodity Flows", American Economic Review (May, 1953), pp. 170-171.

The construction of the transactions table would be greatly simplified if there were no interest in imports and exports, i.e., if one were dealing with a closed model. But it is completely unrealistic to treat a small area as a closed economy. In small-area analysis the import and export flows are among the most important to be considered. More will be said about this below.

In wholesale and retail trade it is possible to obtain good data on purchases both on an interindustry and geographical basis. On the other hand, however cooperative they might be, retailers are rarely in a position to give an interviewer much information about the final destination of their sales. To a lesser extent this difficulty is also encountered in the wholesale trade sector.

Many services are entirely of a local nature, and these present no serious problems. Some services are highly seasonal, however, such as those provided by firms which cater to the tourist trade. In such cases it is difficult to make an accurate breakdown between services provided to residents of the area and those provided to transients. In lodging facilities, for example, such data could no doubt be obtained by a careful search of records. Indeed, some respondents in our survey provided accurate figures, but others were unwilling to do more than make rough estimates. The transportation sector poses similar problems. There are no major difficulties in measuring intra-area shipments. But there are serious difficulties when shipments to and from other areas are involved. In construction, the major problem is simply one of obtaining accurate information from builders. Even at the national level there are serious data deficiencies in the construction sectors, and in some ways these difficulties are compounded in a small-area study.¹⁹ Utilities provide another example of measurement difficulties. They do not keep books on a basis which would permit accurate estimates of sales by county. Power and telephone companies typically distinguish among sales to

¹⁹W. Duane Evans and Marvin Hoffenberg, "The Nature and Uses of Interindustry-Relations Data and Methods," in Conference on Research in Income and Wealth, Input-Output Analysis: An Appraisal (Princeton: Princeton University Press, 1955), pp. 117-118.

households, and to commercial and industrial users. But they are quite indifferent to county lines, and usually are equally indifferent to state lines. Hence in estimating the sales of utilities on a small-area basis it is necessary to rely on various ratios (to population, employment, etc.) in allocating these sales on a county and eventually a regional basis.

One other classification within the processing sector calls for some comment. This is the exclusion of professional services from the service row and column. These were included in households, a decision dictated entirely by data considerations.

All data were expressed in 1960 prices with no attempt to adjust for price changes during the year. The latter adjustment would have been desirable. But there would have been no way of estimating the percentage of transactions at each of a succession of prices without examining all records on a day-to-day basis, something which could not be attempted because of time and money considerations. Thus, we assumed that the volume of transactions in the base year was not affected by price changes.²⁰

The Final Demand and Payments Sectors

The autonomous sector represents the "open" part of the input-output system. For each component of the processing sector, the sum of the row must equal the sum of the column. That is, total gross output must equal total gross outlays (by definition). As noted above, however, in the case of the final demand and payments sectors it is only necessary that the sum of all rows equal the sum of all columns. Thus when the input-output system is used to analyze changes in final demand, the subsectors comprising final demand can be collapsed into a single

²⁰ Additions to inventory were no doubt affected to some extent by price changes, although there would be some offset from inventory depletions. Price changes in 1960 were not large, however. Consumer prices rose about 1.6 percent and wholesale prices were virtually stable. See Economic Report of the President (January, 1963), pp. 220-224. See also Evans and Hoffenberg, op. cit., p. 119.

column vector. It is important, however, to examine each of the final demand (and payments) subsectors since variations in any one will have an effect on levels of production in the processing sectors.

Final Demand sub-sectors---In this model, there are seven final demand sub-sectors. These are: (1) additions to inventory (no matter where held) during the base year, (2) gross investments, (3) households, (4) state and federal government, (5) local government, and (6) exports. Exports are divided into two classes: (a) exports outside the Sub-Basin but within the Colorado River Basin, and (b) exports to the rest of the world.

The Payments sub-sectors---These consist of: (1) inventory depletion during the year, (2) depreciation allowances, (3) households, (4) state and federal government, (5) local government, and (6) imports. As with exports, imports are subdivided into two groups: (a) imports from the rest of the Colorado River Basin, and (b) imports from the rest of the world.

It is probably fair to say that the most difficult data problems in the construction of a transactions table occur in the final demand and payments sectors.

Inventories---Both the inventory column and row measure gross changes. Thus the column vector minus the row vector yields net inventory changes. As Evans and Hoffenberg point out, it is difficult to handle inventories within the input-output framework since "they introduce a dynamic element into what is essentially a series of static flows."²¹ To establish inventory totals in each cell properly it is necessary to obtain data on the amounts sold from stock during the base year (entered in the inventory row), and also to obtain data on the amounts added to stock during the base year (entered in the inventory column). Thus we are concerned only with the flows into and out of inventory, and not the size of the stock

²¹Op. cit., p. 118.

itself. Excellent data on inventory changes were obtained from some firms in the survey, but in other cases only rough estimates could be made.²²

Household & Government---Control totals for these sectors were built up from published sources of data on income, tax payments, and government purchases. The county data were somewhat uneven from state to state, but there probably are no significant errors in the control totals. Payroll data, obtained from state Divisions of Employment Security, sales tax data, and survey data obtained from business establishments were used to work out the inter-industry flows and some of the allocations within the payments and final demand sectors.

Investment and depreciation---As Chenery and Clark have noted, one of the major gaps in national statistics is the lack of investments by industry cross-classified with investment by type of capital equipment.²³ Even if good data were available, however, there are some conceptual problems involved in handling capital outlays within the input-output system. The basic transactions table is supposed to show the flow of all goods and services from industry of origin to industry of destination. It might be argued that if all flows are to be recorded, they should include sales on current account for intermediate and final use plus sales of capital equipment. But Evans and Hoffenberg have pointed out that input ratios computed from a generalized flow matrix of this kind would not be stable (since purchases of capital equipment by individual establishments tend to

²²The inventory problem in some small-area input-output studies has been handled by reporting only net inventory changes. See for example the transactions table in "The Eighth District Balance of Trade," Monthly Review, Federal Reserve Bank of St. Louis (June, 1952). In others it has been avoided by leaving inventories out of the calculations entirely. See for example, Frederick T. Moore and James W. Peterson, "Regional Analysis: An Interindustry Model of Utah," Review of Economics and Statistics, Vol. XXXVII, No. 4 (November, 1955), pp. 368-383, table following page 372; and Richard E. Lund, A Study of the Resources, People and Economy of Southwestern Wyoming, Laramie, Wyoming; Division of Business and Economic Research, University of Wyoming (June, 1962), table following page 74.

²³Op. cit., p. 273.

be "lumpy" rather than continuous), and these ratios would not be limited to transactions on current account which are the central focus of input-output analysis.²⁴ Thus industry outputs to gross private domestic investment are listed in a separate column, and depreciation allowances in a separate row. In the tables in this study, the first approximations were based on survey data. These were adjusted following successive iterations of the various rows and columns.

Exports---Many activities covered by a small-area input-output table will be purely local in character, and these pose no particular problem. At the other extreme, some industries in a small area might produce entirely for export which greatly simplify the allocation of their production. For those that fall in between some estimation is required. In our tables the distinction between local and export sales for such industries was based largely on survey data. Local sales were subtracted from total sales and the difference allocated to the export column for each sector.

Imports---It is customary in constructing national transactions tables to distinguish between competitive and noncompetitive imports. It has also been the practice in constructing national tables to add competitive imports to domestic production in the appropriate sector. Only the noncompetitive imports, therefore, are entered in the import row.²⁵ In our tables this distinction was not made. With the possible exception of some agricultural products, there are few examples of commodities produced in this area which are also imported for local consumption. This simplified the problem, and the assumption was made that all imports were noncompetitive.

²⁴ Op. cit., pp. 104-105.

²⁵ See Chenery and Clark, op. cit., p. 142; and Evans and Hoffenberg, op. cit., p. 109.

The Problem of Margining Trade Sectors

As noted earlier gross margins (operating costs plus net revenues) rather than gross sales were entered as control totals for the trade sectors. Consumers are treated as purchasing portions of the trade margins. The following example has been prepared to illustrate the process.

Assumptions

- (1) A simple economy with a single processing industry (perhaps mining) with no consumer goods manufacturing in the economy, a single trade sector, a household sector and a link with the outside world through exports and imports -- such as Table CRB-7.
- (2) All numbers in Table CRB-7 represent total dollar sales.
- (3) No wholesale sector exists.
- (4) The retail trade sector is supplied through imports.
- (5) The retail trade margin is twenty percent.

The twenty percent margin is applied to all entries in the trade row which reduces each original entry by eighty percent. The amount by which the trade row is reduced is then added to the import intersection with each of the affected columns as shown in Table CRB-8. If we stopped at this point, the import row would be grossly overstated since the processing industry, the household and exports are all now viewed as importing goods which still appear as trade sector imports. The totals would also be out of balance with the retail trade row total equal to 26 while its column total comes to 130. Further, the sum of the final demand columns (households plus exports) equal 185 while their row totals come to 289. Hence, it becomes necessary to reduce trade imports by the sum of the additions to the imports of the other three columns -- 104. All row and column totals are now brought back into balance within the processing sector as is the aggregate of the autonomous payments sector and final demand. See Table CRB-9.

Just why is all of this manipulation necessary? For one thing the trade sectors differ from other processing sector industries in

Table CRB-7
 TRANSACTIONS TABLE FOR A HYPOTHETICAL ECONOMY
 (Stage 1)

	MINING	RETAIL TRADE	HOUSEHOLDS	EXPORTS	TOTAL GROSS OUTPUT
MINING	0	5	55	0	60
RETAIL TRADE	10	0	90	30	130
HOUSEHOLDS	40	20	0	0	60
IMPORTS	10	105	10	0	125
TOTAL GROSS OUTLAY	60	130	155	30	375

Table CRB-8
 TRANSACTIONS TABLE FOR A HYPOTHETICAL ECONOMY
 (Stage 2)

	MINING	RETAIL TRADE	HOUSEHOLDS	EXPORTS	TOTAL GROSS OUTPUT
MINING	0	5	55	0	60
RETAIL TRADE	2	0	18	6	26
HOUSEHOLDS	40	20	0	0	60
IMPORTS	18	105	82	24	229
TOTAL GROSS OUTLAY	60	130	155	30	375

Table CRB-9
 TRANSACTIONS TABLE FOR A HYPOTHETICAL ECONOMY
 (Stage 3)

	MINING	RETAIL TRADE	HOUSEHOLDS	EXPORTS	TOTAL GROSS OUTPUT
MINING	0	5	55	0	60
RETAIL TRADE	2	0	18	6	26
HOUSEHOLDS	40	20	0	0	60
IMPORTS	18	1	82	24	125
TOTAL GROSS OUTLAY	60	26	155	30	271

that their major task is to see that commodities and services are available when and where the consumer requires them. Thus they provide time and place utility but do not alter the physical form of the good. In this analysis an attempt is made to get at "value added" by entering only the gross margins of the trade sectors (the sum of operating expenses plus profit) in the transactions table.

To refer back to the example for a moment, if the trade sector supplies other industries with only twenty percent of the total value of their purchases, who supplies the remaining eighty percent? This example assumes that the missing eighty percent comes in the form of imports from outside the region. It is far from unrealistic in this part of the country although there are clearly some local producers servicing the domestic market. Thus, instead of assigning the full amount of the difference between total trade sales and the trade margin to imports, some should go to local producers whose product is channeled to local consumers through the trade sector. The simplest case was chosen for the example to make the illustration of the general principle as clear as possible.

Perhaps the rationale for margining the trade sector is best Presented by Evans and Hoffenberg when they write:

If output of the trade sectors were defined to cover total sales, it would mean that a great variety of commodities would flow into trade as inputs and then be charged out in some averaged aggregate form to consuming sectors. This procedure would eliminate the direct link between producers and users which is a main purpose of the tabulations and would substitute instead a heterogeneous trading structure.²⁶

²⁶ Evans and Hoffenberg, op. cit., p. 104.

The 1960 Input-Output Tables ²⁷

The results of our structural analysis are reported in the 1960 sub-basin tables a through c. Each set of sub-basin tables appears as a unit in the following order. The first is the table of inter-industry transactions for the base year 1960. It is followed by the tables of direct input requirements and of direct and indirect input coefficients (transposed). They are read as indicated above in the simplified examples (Tables CRB-4, 5, and 6).

Following the interindustry analysis, Tables 10, a-f show the magnitude and rank of processing sector industries for each of the sub-basins when measured by: Total Gross Output, Sales to Final Demand, Sales to Final Demand as a Percent of Total Gross Output, Payments to Households, Direct and Indirect Requirements per Dollar of Sales, and Number of Processing Sector Industries Showing a Response of \$0.01 per Dollar of Sales to Final Demand via Business with other Industries. These are derived from various input-output tables.

²⁷ A detailed discussion of the industrial analysis can be found in the independent report documents entitled, An Analysis of the Economy of the Six Sub-Basins of the Colorado River Drainage Basin in 1960 with Emphasis on Heavy Water-Using Industries, six volumes, August, 1967, Bernard Udis, (ed.), Bureau of Economic Research, University of Colorado, Boulder.

Industry	Industry Purchasing	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30																																	
		Range Livestock	Feeder livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Products	Citrus crops	Forestry	All other agriculture	Uranium	All other mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & publishing	Fabricated metals	Stone, clay & glass	All Other Manufacturing	Wholesale trade	Service stations	Eating & Drinking Places	All other retail	Agricultural services	Lodging	Other Services	Transportation	Electric energy	All other utilities	Contract Construction	Rentals & finance				
Agriculture	1. Range livestock	.099888	.248973	0	0	0	0	0	0	0	0	.006560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1			
	2. Feeder livestock	0	0	0	0	0	.000560	0	0	0	0	.034425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
	3. Dairy	0	0	.021883	.003267	0	0	0	0	0	0	0	.118537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
	4. Forage, feed & food crops	.046722	.168035	.293639	0	0	0	0	0	.019360	0	0	.048064	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4		
	5. Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.071597	0	0	0	0	0	0	0	0	5		
	6. Vegetable & melon products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6		
	7. Citrus crops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7		
	8. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	.250107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8		
	9. All other agriculture	0	.014048	0	0	0	0	0	0	0	0	0	.058457	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9		
Mining	10. Uranium	0	0	0	0	0	0	0	0	.295483	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10			
	11. All other mining	0	0	0	0	0	0	0	0	0	.012166	0	0	0	.201863	0	.211386	.163012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11		
Manufacturing	12. Food & kindred products	0	0	.152672	0	0	0	0	.070427	0	0	.008704	0	0	.000255	0	.000209	0	0	0	0	.232371	0	0	0	0	0	0	0	.010482	0	0	12		
	13. Lumber & wood products	0	0	0	0	0	0	0	0	.001785	.011422	0	.100229	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.000603	0	.000062		
	14. Chemicals	0	0	0	.056252	.066772	.023982	.024036	0	.006098	0	0	0	0	0	0	0	.044557	0	0	0	0	0	0	0	0	0	0	0	.000664	0	0	13		
	15. Printing & publishing	0	0	0	0	0	0	0	0	.000137	.001602	.002793	.000429	.000569	.005220	.001800	.000556	.001286	.001199	.013125	.005257	.035948	.001102	.004772	.006193	.000787	.000738	.000585	.000135	0	.004145	14			
	16. Fabricated metals	0	0	0	0	0	0	0	0	.001373	0	0	0	0	0	0	.027594	0	0	0	0	0	0	0	0	0	0	0	0	.000580	0	.008494	15		
	17. Stone, clay & glass	0	0	0	0	0	0	0	0	.003707	.008321	0	0	0	.035188	0	0	.009732	.003388	0	0	0	0	0	0	0	0	0	0	.001781	.000034	0	.034802	.000155	16
	18. All other manufacturing	0	0	0	0	0	0	0	0	0	.004548	0	0	0	.017646	.008657	.000209	.001882	0	0	0	0	0	0	0	0	0	0	0	0	.000096	0	.000256	17	
	19. Wholesale trade	.010286	.000864	.004580	.013776	.011906	.006477	.003858	.007151	.014177	.002197	.011887	.001559	.003720	.003364	.001782	.005999	.002085	.005584	.005397	.004526	.059714	.003523	.036174	.022723	.029677	.010171	.015421	.018309	.020745	.000744	0	18		
Trade	20. Service stations	.010782	.003296	.009160	.023225	.012408	.004691	.005935	.023169	.024085	.000549	.001395	.002338	.000215	.001138	.000127	.000600	.000973	.000376	.003181	.003772	0	.003488	.006413	.007651	.000937	.004226	.003755	.031837	.008302	.000351	0	19		
	21. Eating & drinking places	0	0	0	0	0	0	0	0	0	.000258	0	0	.000310	.000127	0	.001599	.000659	.002138	.001660	.000371	.000321	0	.006170	.000999	.006670	.001509	0	.000711	.000786	0	20			
Services	22. All other retail	.045359	.000324	.012214	.049011	.026178	.031369	.015134	.010870	.041616	.004256	.002998	.002273	.010016	.001811	.004074	.011998	.004588	.006275	.003963	.012974	.010714	.002916	.006964	.007627	.009990	.008617	.015857	.009593	.007655	.003855	0	21		
	23. Agricultural services	.015863	.067863	0	.007330	.083196	.522214	.626113	0	.046951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22		
	24. Lodging	0	0	0	0	0	0	0	0	0	.000103	0	0	0	0	0	0	0	.000439	.001512	.001131	0	0	0	0	.000869	0	0	.000328	.010647	.000201	.000325	0	.000486	23
Utilities	25. All other services (except professional)	0	0	.018321	0	0	0	0	.068650	0	.005492	.003669	.022863	.028759	.016818	.005983	.026395	.013555	.024722	.054910	.019461	.046886	.041221	.018789	.029980	.038847	.011289	.024138	.063154	.008444	.010109	0	24		
	26. Transportation	0	0	.027481	0	0	.055386	0	0	.016889	.028529	.011886	.006009	.047658	.028316	.025195	.014319	.019482	.095036	.065777	.012257	.015998	0	.272759	.000436	.014596	.053900	.022059	.014016	.008516	.007101	0	25		
	27. Electric energy	.000372	.002918	.006107	0	.001865	0	0	0	.003354	.008101	.035247	.008898	.018386	.027840	.011585	.013797	.053177	.033820	.022292	.032737	.012971	.041828	.006413	.015434	.016820	.013755	.042140	.006081	.001202	.004486	0	26		
	28. All other utilities	.000248	0	.001018	0	.001219	0	0	0	.001524	.005492	.021707	.009418	.012591	.009677	.015913	.052789	.008550	.003953	.016895	.012974	.021029	.029294	.002355	.031806	.011811	.011497	.056623	.006341	.002746	.008599	0	27		
	29. Contract construction	0	0	0	0	0	0	0	0	.006591	.034162	.001429	.004006	0	0	0	.001800	.005630	.008878	0	.006789	.005543	.001333	.011624	.026269	.008574	.000331	.008079	.016520	.326101	.004755	0	28		
	30. Rentals & finance	.006692	.002161	.011705	.012981	.015205	.048034	.004154	.050343	.024085	.009337	.069151	.035594	.003434	.003777	.022915	.013797	.002641	.026478	.048391	.040733	.044571	.075717	.025051	.021275	.021664	.012926	.205974	.049268	.024613	.041788	0	29		
																																30			

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Producing	Industry Purchasing	Industry Purchasing																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
		Range livestock	Feeder livestock	Dairy	Forage, feed & food crops	Cotton	Vegetable & melon products	Citrus crops	Forestry	All other agriculture	Uranium	All other mining	Food & kindred products	Lumber & wood products	Chemicals	Printing & publishing	Fabricated metals	Stone, clay & glass	All other manufacturing	Wholesale trade	Service stations	Eating & drinking places	All other retail	Agricultural services	Lodging	All other services (except professional)	Transportation	Electric energy	All other utilities	Contract construction	Rentals & finance		
Agriculture	1. Range livestock	1.110975	.000002	.000182	.051964	.001297	0	0	.000004	.000004	0	.000752	.000069	.000015	.003020	.002273	.000013	.000164	.000082	.013549	.013774	.000156	.053797	.018113	.000190	.004387	.009032	.004154	.002946	.000902	.015907	1	
	2. Feeder livestock	.276623	1.000041	.000750	.181517	.005348	0	0	.000011	.014118	0	.002561	.001182	.000042	.010680	.001239	.000032	.000516	.000219	.010040	.011797	.000248	.023782	.074692	.000324	.004350	.024840	.006387	.002347	.001911	.014240	2	
	3. Dairy	.002713	.005557	1.042987	.315264	.000229	0	0	.000016	.009514	0	.004239	.161444	.000066	.017862	.002189	.000039	.000809	.000371	.011652	.018252	.000406	.030551	.003197	.000503	.000403	.038379	.012460	.006064	.028043	.001790	.031804	3
	4. Forage, feed & food crops	.000010	.000020	.003415	1.001035	.000529	0	0	.000041	.000034	0	.012139	.000585	.000163	.056447	.002360	.000019	.002187	.001082	.015297	.023947	.000216	.050235	.007384	.000218	.005636	.010084	.006106	.003703	.001529	.022602	4	
	5. Cotton	.000002	.000003	.000011	.000008	1.005992	0	0	.000051	.000005	0	.014694	.000092	.000202	.067296	.001561	.000045	.002684	.001281	.016517	.013687	.000353	.028083	.083695	.000423	.006615	.031747	.008052	.004913	.002941	.025862	5	
	6. Vegetable & melon products	.000162	.000575	.000051	.000140	.037616	1.000000	0	.000038	.000032	0	.008119	.000417	.000152	.026595	.002848	.000226	.001806	.000549	.030017	.010219	.001679	.039235	.525388	.002456	.018875	.217485	.011531	.007818	.011009	.076975	6	
	7. Citrus crops	.000006	.000012	.000044	.000033	.045096	0	1.000000	.000078	.000021	0	.020138	.000360	.000313	.027148	.022239	.000227	.001941	.000609	.031076	.012053	.001459	.023528	.629867	.002124	.019567	.189100	.011499	.007206	.013068	.033405	7	
	8. Forestry	.000001	.000002	.000007	.000005	0	0	0	1.000002	.000003	0	.000080	.000059	.000010	.000053	.001480	.000018	.000081	.000025	.009791	.023550	.000221	.012351	0	.000155	.073942	.004581	.003239	.002498	.001725	.057676	8	
Mining	9. All other agriculture	.001224	.002506	.008909	.026036	.003424	0	0	.000009	1.004291	0	.001915	.072799	.000037	.007840	.002495	.000030	.000411	.000180	.017741	.026082	.000292	.045017	.047818	.000339	.007765	.020564	.008872	.005681	.002074	.038252	9	
	10. Uranium	.000001	.000003	.000009	.000007	0	0	.000766	.000005	1.419411	.013915	.000077	.003061	.000272	.000706	.002155	.006036	.000096	.004752	.001513	.000274	.007111	0	.000330	.010799	.027608	.014210	.010173	.015422	.020434	10		
	11. All other mining	.000004	.000007	.000025	.000019	0	0	.003243	.000012	0	1.003423	.000209	.000277	.000209	.000472	.002404	.000484	.010407	.004661	.015165	.003198	.000734	.005433	.000001	.000573	.010507	.035155	.040014	.026462	.053053	.086277	11	
Manufacturing	12. Food & kindred products	.017356	.035543	.125443	.094423	.000449	0	0	.000011	.060856	0	.001498	1.032500	.000043	.005750	.003938	.000045	.000395	.000161	.006649	.008303	.000274	.013147	.006274	.000303	.030324	.021711	.013244	.012617	.003718	.049615	12	
	13. Lumber & wood products	.000001	.000003	.000009	.000007	0	0	0	.277980	.000004	0	.000200	.000073	1.111442	.000052	.001671	.000080	.000323	.000050	.008960	.007613	.000232	.015727	0	.000194	.056727	.010797	.023951	.017282	.008377	.028363	13	
	14. Chemicals	.000005	.000010	.000034	.000025	0	0	0	.000696	.000016	0	.213946	.000277	.002783	1.001712	.001569	.000150	.038031	.018756	.008888	.002725	.000999	.004734	.000002	.000740	.023832	.061106	.041956	.018974	.013035	.032804	14	
	15. Printing & publishing	.000006	.000013	.000045	.000034	0	0	0	.000010	.000022	0	.001747	.000367	.000039	.000014	1.005687	.000027	.000141	.008747	.003069	.000936	.000384	.005048	.000002	.000333	.009110	.027511	.013692	.017883	.001182	.029524	15	
	16. Fabricated metals	.000002	.000003	.000011	.000008	0	0	0	.000015	.000005	0	.000390	.000090	.000060	.000034	.002809	1.028440	.000243	.000050	.009094	.002814	.000321	.014042	.000001	.000403	.034345	.030845	.017344	.037301	.005082	.024621	16	
	17. Stone, clay & glass	.000013	.000026	.000093	.000070	0	0	0	.000738	.000045	0	.224146	.000762	.002950	.045206	.001667	.000207	1.014149	.002127	.007975	.002647	.002079	.007616	.000005	.000392	.021028	.028321	.067772	.019430	.021793	.037539	17	
	18. All other manufacturing	.000005	.000010	.000036	.000027	0	0	0	.000550	.000017	0	.165026	.000296	.002199	.000276	.002404	.000221	.005709	1.002721	.010402	.001616	.001097	.008716	.000002	.000844	.030715	.029412	.043899	.011961	.023311	.052838	18	
	Trade	19. Wholesale trade	.000013	.000026	.000091	.000069	0	0	0	.000010	.000044	0	.001179	.000750	.000040	.000059	.002311	.000083	.000295	.000062	1.009583	.004614	.003037	.006576	.000005	.002713	.062339	.104407	.027152	.021688	.002394	.061910	19
20. Service stations		.000010	.000020	.000072	.000054	0	0	0	.000018	.000035	0	.000928	.000589	.000074	.000046	.014333	.000148	.000572	.000175	.007564	1.005054	.002329	.015186	.000004	.001992	.025406	.073403	.037399	.017881	.011947	.055733	20	
21. Eating & drinking places		.004037	.008266	.029175	.021960	.000104	0	0	.000018	.014153	0	.000692	.240132	.000071	.001393	.007396	.000113	.000507	.000123	.064603	.003306	1.000863	.015691	.001459	.000471	.063167	.027024	.020572	.028159	.011134	.069414	21	
Services	22. All other retail	.000004	.000007	.000026	.000020	0	0	.000012	.000013	0	.000352	.000214	.000049	.000044	.037186	.000055	.000232	.000381	.006944	.005060	.000704	1.000863	.015691	.001459	.000471	.063167	.027024	.020572	.028159	.011134	.069414	22	
	23. Agricultural services	.000009	.000019	.000066	.000050	.072026	0	0	.000035	.000032	0	.004427	.000543	.000138	.004894	.002390	.000344	.001422	.000151	.042526	.009400	.002213	.012776	1.005996	.003284	.028249	.297060	.014291	.009056	.019042	.040283	23	
	24. Lodging	.000026	.000054	.000189	.000142	.000001	0	0	.000048	.000092	0	.000411	.001555	.000190	.000099	.005754	.000362	.001465	.000088	.026341	.009425	.006416	.009514	.000009	1.000170	.037303	.006389	.018927	.035149	.040994	.033094	24	
	25. All other services (except professional)	.000006	.000012	.000041	.000031	0	0	0	.000019	.000020	0	.000521	.000337	.000074	.000721	.007181	.000137	.000576	.000203	.032494	.001924	.001334	.011578	.000002	.000654	1.045214	.021070	.020452	.015271	.014271	.032415	25	
Utilities	26. Transportation	.000029	.000060	.000213	.000160	.000001	0	0	.000042	.000103	0	.015999	.001754	.000168	.000114	.001631	.000656	.002107	.000091	.012868	.005290	.007255	.010227	.000011	.011351	.016300	1.060461	.017528	.015124	.002658	.022530	26	
	27. Electric energy	.000020	.000040	.000142	.000107	.000001	0	0	.000057	.000069	0	.000676	.001169	.000228	.000062	.002860	.000162	.000718	.001164	.019596	.006519	.002084	.019171	.000007	.000739	.030769	1.048300	.063729	.016457	.233364	27		
	28. All other utilities	.000002	.000004	.000013	.000010	0	0	0	.000174	.000006	0	.000464	.000109	.000697	.000091	.002205	.000246	.000992	.000048	.021925	.032840	.000409	.011768	.000001	.000695	.070288	.021779	.010559	1.009924	.026637	.060342	28	
	29. Contract construction	.000006	.000013	.000045	.000034	0	0	0	.001511	.000022	0	.011861	.000367	.000643	.002352	.001305	.012993	.052456	.000510	.032656	.013066	.001447	.013006	.000002	.000327	.018791	.020455	.008312	.008113	1.486072	.045744	29	
	30. Rentals & finance	.000005	.000010	.000036	.000027	0	0	0	.000010	.000017	0	.000205	.000293	.000040	.000030	.004644	.000075	.000461	.000051	.001785	.000855	.000920	.004555	.000002	.000619	.012408	.008869	.005709	.009961	.007924	1.046639	30	

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry		Sector																									26	27	28	29	30	31	32	33	34						
Producing	Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25										State & Federal Gov't	Local Gov't	Wages	Profits & Other Income	Inventory Change (additions)	Gross Private Capital Formation
Processing Sector	Agriculture	1. Range livestock	0	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282	0	944	Profits and other income included in column 28	0	0	6,353	2,434	10,241						
	2. Feeder livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	550	0	336	3				
	3. Dairy	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	1,216	4		
	4. Forage, feed & food crops	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	4,499	5			
	5. Forestry	641	119	135	7	0	0	0	0	0	0	0	316	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	267	6		
	6. All other agriculture	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	388	7		
	Mining	7. Coal	0	0	0	0	0	0	0	0	0	0	0	0	4,474	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	4,474	8	
	8. Oil & gas	0	0	0	0	0	0	0	0	0	0	0	231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	2,474	9	
	9. Uranium	0	0	0	0	0	0	0	4	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		0	0	0	0	0	0	0	1,216	10		
	10. All other mining	0	0	0	0	0	0	0	0	0	0	0	0	0	0	438	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	4,499	11	
	11. Food & kindred products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	2,474	12	
	12. Lumber & wood products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87,076	0		0	0	0	0	0	0	0	8,125	13		
	13. Printing & publishing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,426	0		0	0	0	0	0	0	0	5,958	14		
	14. All other manufacturing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	1,862	15		
	15. Wholesale trade	85	0	0	0	0	0	0	0	2	28	13	4	28	31	3	3	3	1	67	1	27	1	5	2	16	3	356	267		148	145	11,078	11,078	22,145	12					
	16. Service stations	38	1	1	9	27	3	1	2	11	98	13	1	13	1	0	58	10	79	62	5	108	647	10	51	38	2	606	468		5,277	0	0	0	0	0	0	923	13		
	17. Eating & drinking places	58	0	1	17	89	4	1	1	13	6	0	0	24	1	1	0	77	9	58	9	7	1,160	1	47	11	1	302	84		1,475	0	0	0	0	0	0	16,862	14		
	18. All other retail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	8,125	15		
	19. Lodging	308	10	7	55	27	25	4	2	201	24	3	46	12	6	34	36	712	128	34	21	74	4	24	34	43	221	109	12,955		0	0	0	0	0	0	0	5,958	16		
	20. All other services (except professional)	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60	2		35	0	0	0	0	0	0	8,074	17		
	21. Transportation	0	0	0	0	0	0	11	8	180	17	12	108	18	18	140	73	185	608	165	133	144	5	166	130	1,453	1,603	2	35		0	0	0	0	0	0	0	19,683	18		
	22. Electric energy	10	0	9	0	0	2	4	4	14,000	38	78	939	65	47	827	96	32	67	6	48	1,732	45	36	3,890	109	141	447	289		0	0	0	0	0	0	0	0	5,072	19	
	23. All other utilities	39	1	2	125	0	2	2	6	1,083	141	15	542	14	326	20	83	92	573	28	71	91	824	35	50	123	91	141	301		74	0	0	0	0	0	0	0	6,651	20	
	24. Contract construction	25	0	1	4	0	1	2	2	235	68	5	43	7	23	79	23	80	220	42	110	138	42	52	100	295	120	269	2,082		0	0	0	0	0	0	0	0	29,301	21	
	25. Rentals & finance	0	0	0	0	0	0	116	2	800	76	8	0	1	231	0	10	5	25	5	0	63	3	40	15,380	70	120	290	1,959		0	0	0	0	0	0	0	0	6,865	22	
Government	26. State & Federal	603	1	6	52	96	10	15	28	1,840	238	36	8	29	33	136	279	192	1,200	23	120	138	26	155	1,380	830	13,069	6,497	7,847	0	0	0	0	0	0	0	0	4,188	23		
27. Local	257	1	2	43	659	1	19	25	360	196	27	782	74	631	108	132	58	786	193	138	532	13	36	414	731	3,160	281	10,200	0	0	0	0	0	0	0	0	61,160	24			
28. Wages	340	2	2	86	111	6	27	7	141	99	8	44	12	96	39	17	23	257	286	138	532	13	36	414	731	3,160	281	10,200	0	0	0	0	0	0	0	0	19,291	25			
29. Profits & other income	1,416	13	38	124	1,359	14	69	36	22,170	1,724	237	4,195	301	1,321	1,455	3,135	1,905	7,542	779	1,367	883	268	2,789	6,317	986	8,115	822	4,955	0	0	0	0	0	0	0	0	27,468	26			
30. Inventory change (depletions)	3,425	144	47	304	1,619	80	4	19	5,800	181	25	860	65	67	977	414	67	1,434	838	881	217	136	32	1,218	12,719	254	7,708	206	0	0	0	0	0	0	0	0	16,580	27			
31. Depreciation allowances	0	0	0	0	0	0	9	0	0	291	26	2,797	14	944	646	63	7	1,974	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86,841	28	
32. Imports from outside Colorado River Basin	557	5	36	141	123	15	18	116	20,700	202	22	468	33	721	539	33	15	443	373	378	924	685	311	3,313	1,249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36,738	29
33. Imports from other Colorado River Sub-Basins	848	8	7	80	23	21	2	0	153	13	1	4,117	54	9,224	1,431	58	2,034	369	1,476	1,041	1,447	1,532	43	10,756	109	1,376	315	8,226	0	0	0	0	0	0	0	0	0	0	7,632	30	
33. Imports from outside Colorado River Basin	848	8	7	80	23	21	2	0	153	13	1	4,117	54	9,224	1,431	58	2,034	369	1,476	1,041	1,447	1,532	43	10,756	109	1,376	315	8,226	0	0	0	0	0	0	0	0	0	0	31,420	31	
33. Imports from outside Colorado River Basin	848	8	7	80	23	21	2	0	153	13	1	4,117	54	9,224	1,431	58	2,034	369	1,476	1,041	1,447	1,532	43	10,756	109	1,376	315	8,226	0	0	0	0	0	0	0	0	0	0	0	31,420	31
Final Payments	34. Total Gross Outlays	10,241	550	336	1,216	4,499	267	388	575	138,530	4,178	1,185	22,145	923	16,862	8,125	5,958	8,074	19,683	5,072	6,651	29,301	6,865	4,188	61,160	19,291	137,572	18,805	103,267	14,700	38,564	29,593	52,297	771,061	771,061	34					

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
		Range livestock	Feeder livestock	Dairy	Forage, feed & food crops	Forestry	All other agriculture	Coal	Oil & gas	Uranium	All other mining	Food & kindred products	Lumber & wood products	Printing & publishing	All other manufacturing	Wholesale	Service stations	Eating & drinking places	All other retail	Lodging	All other services (except professional)	Transportation	Electric energy	All other utilities	Contract construction	Rentals & finance		
Agriculture	1. Range livestock	0	.414545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
	2. Feeder livestock	0	0	0	.004934	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	3. Dairy	0	0	.011905	.005757	0	0	0	0	0	0	.272649	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	4. Forage, feed & food crops	.062592	.216364	.401786	0	0	.112360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
	5. Forestry	.000976	0	0	0	0	0	0	0	0	0	0	.231238	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
	6. All other agriculture	0	0	0	0	0	0	0	0	0	0	.199310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mining	7. Coal	0	0	0	0	0	0	.010554	0	0	0	0	.000930	0	0	0	0	0	0	0	0	.000068	0	0	.000050	0	7	
	8. Oil & gas	0	0	0	0	0	0	0	.238261	0	0	0	0	0	.027516	0	0	0	0	0	0	0	0	0	0	0	0	8
	9. Uranium	0	0	0	0	0	0	0	0	.345369	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
	10. All other mining	0	0	0	0	0	0	.007916	0	0	0	0	0	0	.015140	0	0	0	0	0	0	0	0	0	0	0	0	10
Manufacturing	11. Food & kindred products	0	0	0	0	0	0	0	0	0	.040552	0	0	0	0	0	0	.014875	0	.000395	0	0	0	0	0	0	11	
	12. Lumber & wood products	0	0	0	0	0	0	.007916	0	.002021	.017751	0	.004445	0	.002576	0	0	0	0	.015208	.002857	0	.000146	0	.009085	0	12	
	13. Printing & publishing	0	0	0	0	0	0	.005277	.001739	.000202	.003344	.003451	.001447	.034103	.000188	0	.000509	.000124	.003783	.000198	.004060	.000034	.000729	.000478	.000265	.000156	13	
	14. All other manufacturing	.008300	0	.008929	.026316	.038675	.026217	.026385	.019130	.002000	.012349	.004314	.003980	.003300	.000251	.005749	.006616	.005082	.001807	.000198	.008570	.096823	.003793	.024594	.003200	.000104	14	
Trade	15. Wholesale trade	.003711	.001818	.002976	.007401	.006001	.011236	.002639	.003478	.000707	.003344	.000863	.000672	.001100	0	.007755	.001696	.009793	.003501	.000988	.016238	.022081	.001459	.012178	.000630	.000259	15	
	16. Service stations	.005664	0	.002976	.013980	.019782	.014981	.002639	0	.000094	.001544	0	.001240	.001100	.000063	0	.013062	.001116	.003275	.001778	.001052	.039589	.000146	.011223	.000182	.000052	16	
	17. Eating & drinking places	0	0	0	0	0	0	0	.001739	.000043	.000257	0	.000103	.001100	0	0	0	0	0	.019751	.000752	.002082	.000729	.001194	.000149	.001348	17	
	18. All other retail	.030075	.018182	.020833	.045230	.006001	.093633	.010554	.003478	.001451	.006174	.002588	.002378	.013201	.000377	.004546	.006107	.088261	.007228	.006715	.003157	.002526	.000584	.005731	.000564	.002229	18	
Services	19. Lodging	0	0	0	0	0	0	.001739	.000029	.000515	0	0	0	0	0	0	0	0	0	0	0	.000146	0	0	0	0	19	
	20. All other services (except professional)	0	0	0	0	0	.029024	.013913	.001299	.004374	.010354	.005582	.019802	.001131	.018719	.012383	.022933	.034333	.032589	.019997	.004915	.000729	.039637	.002155	.075320	20		
Utilities	21. Transportation	.000976	0	.026786	0	0	.007491	.010554	.006957	.101061	.009776	.067299	.048532	.071507	.002953	.110576	.016285	.003967	.003783	.001185	.007217	.059111	.006565	.008596	.064492	.005650	21	
	22. Electric energy	.003808	.001818	.005952	.102796	0	.007491	.005277	.010435	.007818	.036275	.012942	.028013	.015402	.020480	.002674	.014080	.011404	.032356	.005530	.010675	.003106	.120204	.008357	.000829	.006376	22	
	23. All other utilities	.002441	0	.002976	.003289	0	.003745	.005277	.003478	.001696	.017494	.004314	.002222	.007701	.001445	.010563	.003902	.009917	.012423	.008295	.016539	.004710	.006127	.012416	.001658	.015292	23	
	24. Contract construction	0	0	0	0	0	0	.306069	.003478	.005775	.019552	.006903	0	.001100	.014512	0	.001696	.000620	.001412	.000988	0	.002150	.000438	.009551	.254982	.003629	24	
	25. Rentals & finance	.058881	.001818	.017857	.042763	.021338	.037453	.039578	.048696	.013282	.061230	.031061	.000413	.031903	.002073	.018184	.047328	.023801	.067762	.004543	.018042	.004710	.003793	.037011	.022879	.043025	25	

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing		Industry Producing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Industry Purchasing		Industry Producing	Range livestock	Feeder livestock	Dairy	Forage, feed & food crops	Forestry	All other agriculture	Coal	Oil & gas	Uranium	All other mining	Food & kindred products	Lumber & wood products	Printing & publishing	All other manufacturing	Wholesale	Service stations	Eating & drinking places	All other retail	Lodging	All other services (except professional)	Transportation	Electric energy	All other utilities	Contract construction	Rentals & finance	
Agriculture	1. Range livestock		1.000128	.000310	.000366	.062814	.000990	0	0	.000384	0	.000161	.000002	.000058	.000191	.010618	.004610	.006928	.000118	.033477	.000003	.006776	.002544	.013917	.004463	.000695	.067620	1
	2. Feeder livestock		.415043	1.001200	.001417	.243171	.000418	0	0	.000379	0	.000159	.000001	.000055	.000228	.010502	.005604	.006116	.000096	.042259	.000006	.005110	.002069	.034627	.003443	.000581	.042195	2
	3. Dairy		.000835	.002014	1.014426	.408070	.000024	.000001	.000002	.0000847	0	.000355	.000003	.000100	.000248	.023443	.007211	.010313	.000176	.040332	.000010	.005385	.030993	.057338	.006331	.000978	.041602	3
	4. Forage, feed & food crops		.002053	.004952	.005847	1.003549	.000031	.000001	0	.001000	0	.000419	.000003	.000125	.000327	.027694	.008147	.014617	.000176	.046407	.000020	.006231	.003013	.120472	.005797	.001076	.050267	4
	5. Forestry		0	0	0	0	1.000030	0	0	.001412	0	.000592	.000001	.000128	.000064	.039100	.006207	.020142	.000043	.006298	.000003	.002563	.001505	.001749	.000736	.000974	.024170	5
	6. All other agriculture		.000231	.000556	.000657	.112759	.000030	1.000000	.000001	.001121	0	.000470	.000002	.000128	.000479	.031033	.013084	.017656	.000132	.099920	.000006	.008487	.011101	.027056	.006889	.001248	.053193	6
Mining	7. Coal		0	0	.000001	.000001	.002817	.000001	1.010702	.001195	0	.008501	.000004	.012182	.005916	.033081	.004745	.004759	.000282	.011654	.000008	.036491	.042617	.009676	.008324	.416636	.055118	7
	8. Oil & gas		0	0	.000011	.000005	.000058	.000008	.000001	1.313755	0	.000406	.000040	.000251	.002528	.026843	.005457	.000619	.002491	.005232	.002288	.024793	.011970	.017452	.006520	.007151	.068619	8
	9. Uranium		0	0	.000002	.000001	.000762	.000001	.000015	.000706	1.527579	.000296	.000007	.003293	.000395	.019551	.005000	.006906	.000469	.002902	.000048	.005226	.166279	.015272	.004153	.012918	.023433	9
	10. All other mining		0	0	.000002	.000001	.004201	.000001	.000019	.000541	0	1.000227	.000007	.018168	.003631	.014965	.004305	.002555	.000463	.006804	.000522	.011144	.015072	.043435	.019571	.027223	.066849	10
Manufacturing	11. Food & kindred products		.000285	.000688	.288410	.139387	.000053	.207735	.000007	.000920	0	.000386	1.042271	.000230	.004001	.025462	.007757	.009775	.000322	.035421	.000007	.018022	.087640	.038575	.009208	.010944	.058539	11
	12. Lumber & wood products		0	0	.000001	.000001	.232293	.000001	.000948	.000669	0	.000288	.000004	1.004560	.001596	.018516	.003510	.008114	.000260	.004154	.000006	.007111	.053014	.033124	.003129	.001038	.007239	12
	13. Printing & publishing		0	0	.000006	.000003	.000030	.000004	.000006	.000427	0	.000179	.000022	.000131	1.035506	.011821	.003582	.004564	.001403	.014385	.000004	.025297	.080122	.020007	.009860	.002359	.037318	13
	14. All other manufacturing		0	0	0	0	.000707	0	.000004	.036193	0	.015170	.000002	.003059	.000357	1.001940	.000428	.000363	.000114	.000706	.000074	.002433	.005443	.024648	.002232	.020175	.005830	14
Trade	15. Wholesale trade		0	0	.000001	.000001	.000029	.000001	.000008	.000649	0	.000272	.000005	.000125	.000140	.017968	1.011038	.004980	.000314	.005199	.000002	.022349	.119524	.004758	.012245	.000995	.021455	15
	16. Service stations		0	0	.000001	0	.000024	0	.000002	.000323	0	.000135	.000002	.000104	.000662	.008932	.002571	1.014098	.000143	.006539	.000003	.017417	.018781	.017417	.005431	.002887	.051505	16
	17. Eating & drinking places		.000004	.000010	.004291	.002074	.000029	.003090	.000001	.000253	0	.000106	.015506	.000124	.000691	.006999	.011133	.002023	1.000114	.089783	.000003	.030127	.008046	.017803	.012594	.001651	.033603	17
	18. All other retail		0	0	.000001	0	.000037	.000001	.000001	.000123	0	.000051	.000003	.000159	.004176	.003396	.004656	.003829	.000195	1.007825	.000006	.041852	.006349	.038510	.014895	.002583	.073413	18
Services	19. Lodging		0	0	.000199	.000096	.003560	.000143	.000015	.000052	0	.000022	.000719	.015397	.000429	.001428	.002039	.002221	.019814	.008835	1.000001	.035172	.003112	.008049	.009555	.001577	.007277	19
	20. All other services (except professional)		0	0	.000004	.000002	.000688	.000003	.000004	.000380	0	.000159	.000013	.002974	.004348	.010507	.017273	.001771	.000857	.003684	.000003	1.023436	.010876	.013434	.017908	.000602	.021022	20
	21. Transportation		0	0	.000010	.000005	.000086	.000007	.000074	.003763	0	.001578	.000035	.000371	.000152	.104179	.024099	.042924	.002261	.003447	.000008	.007690	1.067423	.007458	.006107	.005434	.009205	21
Utilities	22. Electric energy		0	0	.000004	.000002	.000046	.000003	.000001	.000194	0	.000081	.000014	.000198	.000877	.005361	.001994	.000599	.000869	.000856	.000166	.001706	.008455	1.136997	.007265	.000923	.005091	22
	23. All other utilities		0	0	.000006	.000003	.000077	.000004	.000002	.000971	0	.000407	.000021	.000334	.000752	.026894	.013576	.012136	.001342	.006426	.000004	.045099	.012906	.011715	1.014480	.013837	.042034	23
	24. Contract construction		0	0	.000002	.000001	.002848	.000001	.000086	.000496	0	.000209	.000007	.012315	.000439	.013735	.003139	.004127	.000454	.001259	.000001	.006401	.093524	.002810	.003469	1.343051	.033355	24
	25. Rentals & finance		0	0	.000007	.000003	.000067	.000005	.000001	.000076	0	.000032	.000024	.000291	.000542	.002093	.002045	.000675	.001519	.002902	.000001	.081504	.007849	.008998	.017776	.005411	1.047734	25

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
LITTLE COLORADO SUB-BASIN 1960
Table LC-1960-c

Industry	Producing	Industry Purchasing																																					
		1 Range livestock	2 Feeder livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetables	7 Citrus	8 Forestry	9 All Other Agriculture	10 Uranium	11 Copper	12 All other mining	13 Food & Kindred Products	14 Lumber & Wood Products	15 Furniture & fixtures	16 Paper & Pulp	17 Chemicals	18 Primary metals	19 Printing & publishing	20 Fabricated metals	21 Textiles & apparel	22 Leather & Leather Goods	23 Stone, clay & glass	24 All Other Manufacturing	25 Wholesale Trade	26 Service stations	27 Eating & drinking	28 All Other Retail	29 Agricultural Services	30 Lodging	31 Other Services	32 Transportation	33 Electric energy	34 All other utilities	35 Contract Construction	36 Rentals & Finance		
Agriculture	1. Range livestock	0	.367329	0	0	0	0	0	0	0	0	0	.002885	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	2. Feeder livestock	0	0	0	.027977	0	0	.016942	0	0	0	0	.151866	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	3. Dairy	0	0	.015089	.012685	0	0	.007661	0	0	0	0	.125951	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	4. Forage, feed & food crops	.061958	.197866	.430529	0	0	0	0	.134231	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	5. Cotton	0	0	0	0	0	0	0	0	0	0	0	.075781	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	6. Vegetables	0	0	0	0	0	0	0	0	0	0	0	.002099	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	7. Citrus crops	0	0	0	0	0	0	0	0	0	0	0	.002441	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	8. Forestry	.000208	0	0	0	0	0	0	0	0	0	0	0	.068699	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	9. All other agriculture	0	0	0	0	0	0	0	0	0	0	0	.008163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.005461	0	0	0	0	0	0	0	0		
Mining	10. Uranium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	11. Copper	0	0	0	0	0	0	0	0	0	.018428	0	0	0	0	0	0	.773640	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	12. All other mining	0	0	0	0	0	0	0	0	0	.002434	.102157	0	0	0	.149600	.046112	0	0	0	0	0	0	.108771	.000419	0	0	0	0	0	0	0	0	0	0	0	0		
Manufacturing	13. Food & kindred products	.012956	.046216	.032041	0	0	.006482	0	.191621	0	.007806	0	.025074	0	0	0	.000188	.000072	0	0	0	.239130	0	.000730	0	.104028	0	0	.015574	.000942	.018519	.000349	0	.006268	0	0			
	14. Lumber & wood products	0	0	0	0	0	0	0	0	.010657	.003158	.005513	0	.010401	.049731	.443507	0	.001569	0	0	0	0	0	0	.000712	0	0	0	0	0	0	0	0	0	0	0			
	15. Furniture & fixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	.069184	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.010252	0	
	16. Paper & pulp	0	0	0	0	0	0	0	0	0	0	0	.000971	0	.023848	.066371	0	0	0	.015886	0	0	0	0	0	0	0	0	0	.000086	0	0	0	0	0	0	0		
	17. Chemicals	0	0	0	.019888	.014670	.056440	.047289	0	.006412	0	.013282	.013100	0	0	0	0	.006462	.000826	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	18. Primary metals	0	0	0	0	0	0	0	0	0	0	.001129	.012710	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.012595	0	.001547	0	
	19. Printing & publishing	0	0	0	0	0	0	0	0	0	.003552	.002626	.002960	.000683	.003188	.008221	.003330	.004615	.001958	.017343	.002156	.000616	.003106	.002235	.003599	.000684	.020435	.002601	.027731	0	.023585	.009745	.004305	.001202	.001278	.000208	.003799	0	
	20. Fabricated metals	0	0	0	0	0	0	0	0	0	.005329	.007876	.011192	0	.006040	0	0	0	.001520	.001242	.030455	0	0	0	0	.004518	0	.001037	0	.002301	0	0	.001336	.015269	.001771	.000988	.025120	.000666	0
	21. Textiles & apparel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22. Leather & leather goods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	23. Stone, clay & glass	0	0	0	0	0	0	0	0	0	.031972	.004725	.010111	.000602	.015980	0	0	0	.001291	.000215	0	0	0	0	.149640	.001004	.000077	0	0	.000713	0	0	0	0	0	0	0	0	
24. All other manufacturing	0	0	0	0	0	0	0	0	0	0	.002099	.008879	.001172	.001384	.006756	0	.004185	.003789	.003846	.013238	.001001	0	.001745	.135204	.010242	0	0	.000960	0	0	0	0	0	0	0	0	0		
Trade	25. Wholesale trade	.003150	.006857	.005846	.013733	.016772	.012710	.009134	.003040	.034520	.001776	.007029	.014107	.003178	.015686	.019290	0	.002154	.000674	.011275	.015891	.003004	0	.007011	.003243	.011295	.009030	.061489	.007617	.008692	.024523	.020289	.018287	.002661	.010106	.042764	.002589	0	
	26. Service stations	.012005	.001975	.007709	.015184	.011951	.011346	.008397	.018237	.004489	.001776	.002869	.000466	0	.001058	0	0	.000275	.002556	0	0	.002465	0	.000674	.000660	.000627	.004047	.001223	.001202	.040210	.015319	.011686	.002857	.000064	.011785	.003220	.000564	0	
	27. Eating & drinking places	0	0	0	0	0	0	0	0	0	0	.001893	.000195	.000503	.000570	.006437	0	0	.000226	.000836	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	28. All other retail	.004665	.025853	.018962	.044747	.054884	.042635	.028874	.007295	.133804	.010657	.002470	.028874	.002115	.026674	.003663	0	.002462	.001189	.011658	.001133	.006317	0	.002510	.001760	.027101	.005017	.009733	.007250	.009036	.015489	.011286	.006337	.007452	.005803	.010452	.004644	0	
	29. Agricultural services	0	.016297	0	.094063	.171774	0	.353270	0	.028107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	30. Lodging	0	0	0	0	0	0	0	0	0	0	0	.001022	.000363	.000336	0	0	0	.000414	.000239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utilities	31. All other services (except professional)	0	0	0	0	0	0	0	0	.008881	.013451	.015354	.012551	.029820	.004639	.006215	.012615	.001541	.016388	.014454	.003775	.012422	.026879	.003599	.029881	.021438	.062281	.030083	.013883	.067603	.040955	.028527	.001028	.033980	.008650	0	.000245	0	
	32. Transportation	0	0	.027511	.025451	.009586	.107093	0	.005344	0	.027606	.050793	.025481	.040180	.033697	.044173	.012923	.019609	.020879	.005030	.004622	.003106	.063034	.010607	.063986	.046087	.013979	.025827	.073010	.004559	.011508	.029181	.006369	.007717	.004196	.000245	0		
	33. Electric energy	.004547	.001378	.006028	.003843	.002811	.002935	.020919	0	.001282	.055062	.013896	.027928	.004502	.015434	.017011	.006437	.008308	.015773	.008815	.007047	.007935	.006211	.012123	.007305	.056154	.042742	.009586	.022375	.007066	.002685	.009413	.009938	.145457	.001889	.000797	.007438	0	
	34. All other utilities	.002288	.000919	.001206	0	.002124	0	0	.002244	.007105	.018664	.015143	.003509	.010024	.014488	.012653	.006277	.002580	.012948	.006108	.004776	.009317	.009398	.003332	.016687	.032876	.018441	.021103	.025952	.035389	.016680	.032601	.029596	.009501	.002862	.010743	0	0	
	35. Contract construction	0	0	0	0	0	0	0	0	.030195	.010018	0	.007235	.004110	0	0	0	.001600	.003512	0	.008705	.009317	0	.007849	.009491	.017960	.003213	.009841	0	.028571	.008759	.002143	0	.008563	.267357	.036704	0		
	36. Rentals & finance	.111167	.018640	.017427	.025746	.049291	.025048	.128167	.021277	.021588	.010657	.002600	.039240	.029402	.035314	.021569	.015094	.028677	.000432	.027806	.015283	.026346	.018634	.007194	.006052	.046601	.046555	.026494	.032240	.059127	.039394	.037574	.045456	.046032	.034671	.019415	.024204	0	

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

DIRECT PURCHASES PER DOLLAR OF OUTPUT
GILA RIVER SUB-BASIN 1960
Table G-1960-b

		Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
		Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Truck Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	Zinc	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricultural Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance							
Agriculture		1. Range Livestock	.099745	.687781	.020285	0	0	0	0	.131579	0	0	0	0	0	.167438	0	0	0	0	0	0	0	0	.008414	0	0	0	0	0	0	0	0	0	1				
		2. Feeder Livestock	0	0	0	0	0	0	0	0	0	0	0	0	0	.020848	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2			
		3. Dairy	.003122	.018204	0	0	0	0	0	0	.107145	0	0	0	0	.109139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
		4. Food and Field Crops	0	.010723	0	0	0	0	0	0	0	0	0	0	0	.088128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
		5. Truck Crops	0	0	0	0	0	0	0	0	0	0	0	0	0	.001361	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
		6. Fruit	.002834	0	.016799	0	0	0	0	0	0	0	0	0	0	.046758	0	0	0	0	0	0	0	0	.001510	0	0	0	0	0	0	0	0	0	0	0	0	6	
		7. Forestry	.000144	0	0	0	0	0	0	0	0	0	0	0	0	0	.380069	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
		8. All Other Agriculture	.000179	0	.000317	.000345	0	0	0	0	.000376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mining		9. Coal	0	0	0	0	0	0	0	.001140	0	0	0	0	.040444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
		10. Oil and Gas	0	0	0	0	0	0	0	0	.014228	0	0	0	0	.000109	0	.000998	.000662	.004155	.000287	.000673	.000713	.000473	.000159	0	.000953	.000499	0	.095520	.000236	0	.000383	0	0	10			
		11. Uranium	0	0	0	0	0	0	0	0	0	.182359	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
		12. Zinc	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Manufacturing		13. All Other Mining	0	0	0	0	0	0	0	0	0	.012140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
		14. Food and Kindred Products	0	.161596	.043106	0	0	0	0	.093624	0	0	0	0	0	0	0	0	.259003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.000106	0	.016203	0	14	
		15. Lumber and Wood Products	.000610	0	0	0	0	.000641	0	0	0	.002110	0	0	0	.005334	0	0	0	0	0	0	0	0	.102829	.003576	.029940	.003419	0	0	0	0	0	0	0	0	0	15	
		16. Printing and Publishing	.000179	0	.000317	.000345	0	.000641	0	0	.000760	.000508	.000173	0	.007312	.001905	.000403	.015303	.001324	.004155	.002700	0	.000713	.057036	.007470	.005048	.001497	.005841	.000746	.001165	.005358	.000505	.004241	0	0	16			
		17. Fabricated Metals	0	0	0	0	0	0	0	0	0	.004566	.017296	.011922	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.001859	0	17	
		18. Stone, Clay and Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	
		19. All Other Manufacturing	.016397	.001496	.021870	.072847	.031323	.013775	.020492	.023684	.018438	.013211	.003159	.006230	.005087	.010887	.009473	.002994	.062210	.051939	.004940	.001122	.000951	.002529	.000636	.027766	.001633	.001353	.111017	.004236	.006146	.010441	.002052	0	0	19			
Trade		20. Wholesale Trade	.009580	.000748	.010777	.012774	.009281	.007368	.006660	.006391	.009124	.013720	.003690	.005858	.015419	.007022	.002017	.001996	.001324	.002770	.002585	.002244	.001426	.003030	.040289	.010097	.006532	.013676	.011306	.001483	.003732	.003989	.001204	0	0	20			
	Retail	21. Service Stations	.009472	.000998	.009509	.022096	.003480	.005126	.011753	.010526	0	.006098	.000844	.000093	.001272	.006314	.004035	.000998	.000662	.005540	.000460	.001010	.000238	.001390	.000397	.007573	.000544	.000499	.019196	.001483	.001024	.002893	.001204	0	0	21			
		22. All Other Retail	.020882	.001995	.024039	.016399	.031323	.019382	.007172	.005263	0	.011179	.001179	.000186	.004292	.001415	.002017	.004657	.001985	.000693	.002240	.002581	.003327	.004197	.015019	.003786	.012657	.007265	.002905	.002012	.002679	.002229	.002813	0	0	22			
Services		23. Eating and Drinking Places	.000861	.000249	.000634	0	0	0	0	0	.001016	.000054	0	0	.001361	0	.000665	0	0	0	.003045	.001122	.000713	.000889	.000159	0	.000544	.000712	.000461	.000847	.001024	.000616	.001313	0	0	23			
		24. Agricultural Services	.023250	.016459	.104596	.072847	.429234	.457312	0	.023684	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	
		25. Lodging	.000323	0	0	0	0	0	0	0	.001016	.000011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
		26. All Other Services	.002691	.001995	.000951	.010530	.001160	.004004	.002049	.006391	.001140	.041159	.002088	.002883	.004133	.006369	.005447	.005988	.009265	.005540	.002987	.011500	.015822	.025294	.009218	.008204	.040293	.032695	.034448	.008048	.019753	.009299	.001602	0	0	26			
Utilities		27. Transportation	.011661	.025935	.056101	.016399	.001160	.000801	0	.021429	0	.023374	.093506	0	.000159	.001960	.113778	.004657	.011251	.023546	.013327	.097779	.041587	.056664	.008503	.003155	.005171	.005556	.036175	.003706	.001024	.015083	.000821	0	0	27			
		28. Electric Energy	.003696	.001247	.013312	.003290	.003480	.003364	0	.007143	.027371	.009146	.004176	.034778	.020664	.008002	.021182	.010978	.004633	.014543	.010168	.005385	.029230	.015371	.017483	.024401	.033887	.030914	.001080	.104840	.003546	.001477	.006978	0	0	28			
		29. Other Utilities	.002476	.000249	.002219	.001899	.001160	.001171	0	.004887	.010074	.001524	.003224	.003720	.009696	.005933	.005850	.014637	.003309	.010388	.003389	.007685	.011644	.17289	.025826	.005048	.048993	.026783	.002709	.009425	.008993	.002664	.010234	0	0	29			
		30. Contract Construction	0	0	0	0	0	0	0	0	.015244	.000357	.001209	0	.000925	0	0	.001663	0	0	0	.007353	.006451	.006416	.008450	.019151	0	.020958	.005413	.004142	.000741	.027973	.292505	.002791	0	0	30		
		31. Rentals and Finance	.038606	.016958	.023455	.006732	.013921	.004645	.021004	.013910	.018438	.080793	.000519	.000093	.007789	.003157	.016744	.011976	.000662	.014543	.003045	.049366	.033983	.074381	.022092	.015566	.032254	.026426	.012170	.014614	.012923	.010429	.023451	0	0	31			

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

DIRECT PURCHASES PER DOLLAR OF OUTPUT
UPPER MAIN STEM SUB-BASIN 1960
Table UMS-1960-b

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Industry Producing		Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Truck Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	Zinc	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricultural Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals Finance		
Agriculture	1. Range Livestock	1.111254	.000009	.003539	.000038	.000002	.003229	.000419	.000213	.0000750	0	0	0	.000026	.000429	.000691	.002102	.000007	.000013	.021456	.011593	.011273	.023971	.001156	.027693	.000449	.005765	.017347	.007726	.004513	.001286	.048005	1	
	2. Feeder Livestock	.799789	1.003456	.039595	.025371	.000229	.010634	.000303	.006873	.001069	0	0	0	.000037	.165791	.000496	.002437	.000009	.000025	.026056	.011910	.012040	.021337	.001427	.046247	.000501	.009647	.043671	.010314	.005527	.001799	.055492	2	
	3. Dairy	.033015	.000927	1.005201	.003929	.000062	.019059	.000017	.02125	.002052	0	0	0	.000038	.044469	.000034	.002949	.000015	.000025	.034409	.014020	.012611	.026532	.000982	.115002	.000172	.006642	.063738	.020772	.005052	.001796	.032341	3	
	4. Food and Field Crops	.000915	.000008	.000084	1.000035	.000001	.000022	.000001	.000361	.000873	0	0	0	.000037	.000392	.000002	.002146	.000008	.000026	.077959	.014359	.023211	.017307	.000336	.072995	.000199	.006842	.027000	.008376	.003951	.001927	.012996	4	
	5. Truck Crops	.004355	.000034	.000198	.000143	1.000003	.000091	.000002	.000066	.001749	0	0	0	.000032	.001620	.000004	.004489	.000012	.000021	.044712	.014231	.007086	.033576	.000259	.429412	.000137	.007029	.007205	.017625	.005097	.001499	.023056	5	
	6. Fruit	.004639	.000036	.000211	.000152	.000003	1.000097	.000246	.000071	.001765	0	0	0	.000025	.001722	.000044	.004518	.000012	.000016	.027691	.012533	.003893	.021650	.000185	.457501	.000094	.009659	.005976	.017939	.004872	.001145	.015717	6	
	7. Forestry	.000005	.000001	.000003	.000002	0	.000001	1.000000	.000001	.000139	0	0	0	.000013	.000025	0	.000621	.000002	.000009	.020927	.006876	.011885	.007412	.000127	.000001	.000063	.003039	.001992	.001103	.000749	.000640	.023056	7	
8. All Other Agriculture	.171465	.002219	.119847	.009406	.000146	.007477	.000067	1.004755	.001476	0	0	0	.000035	.106458	.000110	.001659	.000011	.000024	.036822	.011803	.015405	.012942	.000501	.044522	.000261	.011916	.075297	.014730	.008074	.001690	.023550	8		
Mining	9. Coal	.000005	0	.000003	.000002	0	.000001	0	.000001	1.004153	0	0	0	.000020	.000024	.000001	.001041	.000013	.000012	.019036	.009453	.000133	.000247	.000137	.000001	.000066	.002147	.001420	.031283	.010945	.000966	.020234	9	
	10. Oil and Gas	.000070	.000007	.000038	.000029	.000002	.000016	.000006	.000014	.001393	1.014433	0	0	.000463	.000334	.000015	.002037	.000057	.000331	.017319	.015325	.007002	.012303	.001312	.000017	.001147	.046396	.023231	.013632	.004616	.023527	.088193	10	
	11. Uranium	.000011	.000001	.000006	.000004	0	.000002	.000981	.000002	.000695	0	1.223031	0	.014886	.000051	.002582	.000695	.005769	.000027	.017316	.006355	.003435	.002060	.000209	.000003	.000085	.007526	.120304	.007323	.005013	.001903	.003417	11	
	12. Zinc	.000005	0	.000003	.000002	0	.000001	.000001	.000001	.003786	0	0	1.000000	.000046	.000022	.000001	.000172	.017321	.000050	.007752	.006108	.000211	.000339	.000075	.000001	.000033	.003754	.001176	.039364	.004439	.002113	.001341	12	
13. All Other Mining	.000006	.000001	.000003	.000003	0	.000001	0	.000001	.002328	0	0	0	1.000019	.000030	.000001	.007393	.011936	.000012	.006443	.015738	.001426	.004537	.000098	.000002	.000041	.005416	.002517	.023924	.010697	.000844	.019030	13		
Manufacturing	14. Food and Kindred Products	.214761	.021233	.116635	.089931	.001399	.050139	.000094	.041312	.001672	0	0	0	.000056	1.018440	.000165	.003412	.000014	.000039	.029269	.013488	.013119	.01179	.001845	.048623	.001001	.011421	.017991	.015773	.009047	.000759	.020425	14	
	15. Lumber and Wood Products	.000015	.000001	.000003	.000006	0	.000003	.380069	.000003	.002474	0	0	0	.000038	.000071	1.000001	.001131	.000017	.000023	.030081	.006340	.010943	.005491	.000243	.000004	.000115	.011945	.120140	.025412	.007532	.001731	.023924	15	
	16. Printing and Publishing	.000022	.000002	.000012	.000009	.000001	.000005	.000001	.000004	.002294	0	0	0	.000067	.000105	.000002	1.016058	.000014	.000047	.003959	.002388	.001203	.004970	.000752	.000006	.000031	.007305	.005734	.013169	.015676	.003321	.013785	16	
	17. Fabricated Metals	.000014	.000001	.000007	.000006	0	.000003	0	.000003	.001712	0	0	0	.000022	.000065	.000001	.001768	1.000006	.000015	.064099	.001852	.000874	.002307	.000228	.000003	.000145	.010525	.013046	.006471	.004081	.001066	.001845	17	
	18. Stone, Clay and Glass	.000014	.000001	.000007	.000006	.000001	.000003	0	.000003	.006510	0	0	0	.259038	.000065	.000001	.006715	.003104	1.000023	.057122	.007590	.006514	.002316	.000274	.000003	.000152	.009032	.026724	.024037	.014328	.001671	.019267	18	
	19. All Other Manufacturing	.000085	.000003	.000046	.000036	.000005	.000020	.000003	.000016	.001451	0	0	0	.000219	.000405	.000007	.003036	.000029	.000154	1.006889	.003093	.000825	.002516	.003113	.000021	.002103	.004220	.014735	.011993	.004116	.010996	.004351	19	
Trade	20. Wholesale Trade	.000046	.000005	.000025	.000019	.000002	.000011	.000003	.000009	.001448	0	0	0	.000214	.000213	.000007	.000713	.000027	.000151	.012839	1.003925	.003127	.003315	.001324	.000011	.000701	.016802	.102732	.007637	.009412	.010736	.053337	20	
	21. Service Stations	.000035	.000003	.000019	.000015	.000002	.000003	.000003	.000007	.004011	0	0	0	.000209	.000168	.000007	.001408	.000040	.000146	.006441	.002496	1.001252	.003396	.000873	.000009	.000299	.019325	.044248	.034109	.013359	.009412	.010736	.053337	21
	22. All Other Retail	.000052	.000005	.000028	.000022	.000002	.000012	.000004	.000010	.002528	0	0	0	.000282	.000244	.000009	.053992	.000040	.000198	.010141	.004651	.002833	1.005318	.001174	.000012	.000432	.036634	.060607	.020214	.020652	.014109	.080072	.037297	22
Services	23. Eating and Drinking Places	.022109	.002185	.012004	.009261	.001653	.005165	.000017	.004252	.002427	0	0	0	.000586	.104615	.000036	.009265	.000074	.000413	.006187	.042533	.002301	.016950	1.000542	.005653	.000345	.013536	.016580	.022795	.028739	.029407	.029768	23	
	24. Agricultural Services	.010130	.000077	.000453	.000327	.000005	.000209	.000004	.000152	.002794	0	0	0	.000023	.003701	.000007	.005696	.000017	.000014	.029134	.010699	.007938	.004413	.000194	1.000410	.000096	.009351	.005769	.029768	.006373	.001016	.019615	24	
	25. Lodging	.006489	.000642	.003524	.002719	.000043	.001513	.000011	.001248	.004955	0	0	0	.000653	.030773	.000026	.003218	.000090	.000459	.004535	.009247	.001408	.013909	.000329	.001470	1.001494	.044931	.008649	.041072	.052322	.032696	.039291	25	
Utilities	26. All Other Services	.000792	.000077	.000425	.000323	.000006	.000133	.000003	.000151	.004074	0	0	0	.000195	.003711	.000007	.006984	.000040	.000135	.003099	.014710	.000911	.007987	.000894	.000179	.000355	1.035941	.008466	.036747	.029205	.009617	.039832	26	
	27. Transportation	.000052	.000005	.000028	.000022	.000002	.000012	.000002	.000010	.000562	0	0	0	.000164	.000245	.000005	.001690	.000020	.000116	.116540	.012911	.020160	.003803	.000923	.000012	.000463	.039498	1.041952	.004954	.005010	.009261	.016332	27	
	28. Electric Energy	.000032	.000003	.000017	.000013	.000002	.000009	.000001	.000006	.107248	0	0	0	.000159	.000152	.000001	.001807	.000599	.000029	.007544	.003007	.001823	.002512	.001031	.000008	.000274	.000274	.010329	.005099	1.121236	.012443	.002047	.019823	28
	29. Other Utilities	.000044	.000004	.000024	.000018	.000002	.000010	.000010	.000008	.000776	0	0	0	.000302	.000206	.000026	.005953	.000087	.000566	.007140	.004444	.001266	.003109	.001135	.000011	.000527	.005011	.002707	.005271	1.102337	.012443	.002047	.019823	29
	30. Contract Construction	.000036	.000004	.000020	.000015	.000002	.000009	.000001	.000007	.000554	0	0	0	.028064	.000173	.000923	.001510	.002967	.019870	.019081	.006739	.004790	.003665	.000956	.000009	.000640	.013979	.024281	.004569	.005321	1.414368	.017393	30	
31. Rentals and Finance	.000043	.000004	.000023	.000018	.000002	.000010	.000001	.000008	.001251	0	0	0	.000095	.000202	.000003	.004770	.000015	.000067	.002522	.001608	.001325	.003124	.001395	.000011	.000356	.012977	.001549	.008770	.011967	.004757	1.005217	31		

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37					
		Range livestock	Dairy	Field crops	Fruit	Forestry	All other agriculture	Coal	Oil and gas	Uranium	All other mining	Food and kindred products	Lumber and wood products	Printing and publishing	Stone, clay and glass	All other manufacturing	Wholesale trade	Service stations	All other retail	Eating and drinking places	Agricultural services	Oil field services	Lodging	All other services	Transportation	Electric energy	Other utilities	Contract construction	Rentals and finance	State and Federal government	Local government	Wages	Profits and other income	Inventory change (depletion)	Gross private capital formation	Exports to other (Colorado River) Sub-basins	Exports outside Colo. River Basin	Total gross output					
Agriculture	1. Range livestock	797	134	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	2. Dairy	5	7	0	0	0	25	0	0	0	229	0	0	0	0	0	0	0	0	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
	3. Field crops	0	0	0	0	0	18	0	0	0	1,081	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	4. Fruit	0	0	0	0	0	0	0	0	0	343	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	5. Forestry	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	6. All other agriculture	0	0	0	0	0	0	0	0	0	520	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	7. Coal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	8. Oil and gas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	9. Uranium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	10. All other mining	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Manufacturing	11. Food and kindred products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	12. Lumber and wood products	55	0	0	0	0	24	0	0	649	0	0	0	95	702	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	13. Printing and publishing	2	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	14. Stone, clay and glass	31	2	5	1	0	1	1	80	42	1	62	5	17	4	9	27	68	1,087	56	14	36	45	51	92	20	25	36	163	28	19	294	796	0	0	0	0	0	0				
	15. All other manufacturing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Trade	16. Wholesale trade	54	3	17	3	4	4	1	277	183	45	16	10	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	17. Service stations	92	7	31	2	12	10	1	284	252	14	12	17	5	2	30	3	49	178	10	681	12	171	998	15	12	393	58	329	176	13	946	630	0	0	0	0	0	0				
Services	18. All other retail	106	9	33	3	23	11	1	22	8	19	5	5	2	3	3	27	49	178	10	681	12	171	998	15	12	393	58	329	176	13	946	630	0	0	0	0	0	0				
	19. Eating and drinking places	188	16	98	4	15	40	4	234	108	16	20	21	14	18	36	41	89	104	6	136	5	12	882	1	4	17	32	44	169	17,430	5,360	1,048	773	2,742	29,950	18	19					
	20. Agricultural services	7	0	0	0	0	0	0	81	1	4	1	1	0	5	22	1	23	1	0	76	8	13	110	2	13	35	63	80	13	2,728	173	0	0	0	0	0	0	0				
	21. Oil field services	334	56	32	310	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	22. Lodging	2	0	0	0	0	0	0	4,641	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	23. All other services (except professional)	0	0	0	0	0	0	0	45	1	0	0	0	0	0	12	0	17	1	0	49	12	8	85	1	4	20	15	22	2	427	806	0	0	0	0	0	0	0	0			
	24. Transportation	123	65	34	7	0	2	10	552	114	69	108	121	27	52	142	319	147	893	164	10	866	293	317	1,131	105	73	1,622	654	332	388	4,160	696	248	286	824	14,954	23	24				
	25. Electric energy	73	18	13	2	0	15	0	303	6,000	0	40	65	26	15	292	2,043	79	1,702	66	0	1,843	4	308	5,612	46	78	1,593	7	714	667	13,034	0	0	3,168	20,923	58,960	24	25				
	26. Other utilities	39	6	9	1	0	6	1	709	191	178	60	75	33	102	142	793	103	384	116	25	185	137	161	97	874	45	77	163	234	298	1,828	0	22	60	98	6,528	25	26				
	27. Contract construction	0	0	0	0	0	0	0	48	136	59	79	10	27	47	81	457	217	485	159	6	138	305	185	754	53	107	336	614	258	5,195	2,927	0	98	233	13,272	26	27					
28. Rentals and finance	312	32	40	6	41	12	2	2,102	168	242	358	60	98	75	154	633	213	1,482	477	13	470	188	692	1,415	702	168	1,452	7,127	2,835	721	1,310	14,514	4,282	2,300	49,201	27	28						
Final Payments	29. State and Federal	285	6	9	3	285	4	9	3,147	446	79	337	210	42	70	175	738	93	502	118	6	853	34	60	2,885	95	32	648	1,376	7,812	310	31,588	0	0	171	334	52,762	29	30				
	30. Local	1,227	84	118	12	49	17	4	1,877	199	121	28	47	19	30	48	254	47	321	97	19	133	171	102	920	123	265	77	279	8,051	615	6,352	0	0	138	851	22,695	31	32				
	31. Profits and other income	2,007	89	108	0	590	42	66	9,571	7,559	1,955	1,502	1,941	889	318	1,941	6,050	1,270	10,285	2,203	139	8,417	946	4,738	12,270	1,222	2,045	8,334	6,636	15,138	8,952	373	0	1,076	1,638	1,815	122,127	31	32				
	32. Inventory change (depletions)	5,999	726	2,268	195	704	234	8	1,341	1,004	1,955	1,502	1,941	889	318	1,941	6,050	1,270	10,285	2,203	139	8,417	946	4,738	12,270	1,222	2,045	8,334	6,636	15,138	8,952	373	0	1,076	1,638	1,815	122,127	31	32				
	33. Depreciation allowances	350	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Imports	34. Imports from other Colorado River Sub-Basins	1,119	125	204	49	54	32	2	53,736	5,210	683	463	13	138	674	799	799	5,117	185	0	641	458	834	0	0	2,927	1,337	1,042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	35. Imports from outside Colorado River Basin	184	14	27	5	28	43	9	857	5,288	405	468	83	45	103	493	80	645	287	25	738	253	2,034	1,586	2,229	502	2,294	123	289	543	1,593	23	6,381	54	214	27,936	35	36					
	36. Imports from outside Colorado River Basin	1,563	100	462	38	150	244	43	89,694	14,185	2,195	1,340	468	859	1,466	6,750	4,630	294	1,621	2,875	165	18,927	1,542	1,907	13,516	275	2,336	6,972	3,829	6,803	4,166	55,527	27,226	38,628	11,873	24,509	342,178	36	37				
37. Total Gross Outlays		15,142	1,676	3,515	641	1,955	843	164	172,652	53,307	7,629	8,067	5,284	2,415	3,663	15,540	20,923	3,272	29,950	8,293	737	40,040	6,255	14,954	58,960	6,528	13,272	49,201	25,727	80,516	21,604	160,418	48,998	98,974	45,551	262,822	1,289,488	37	38				

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

		Industry Purchasing																												
Industry Producing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
		Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail Trade	Eating & Drinking Places	Agricultural Services	Oil Field Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance	
Agriculture	1. Range Livestock	.053890	.081509	0	0	0	.059312	0	0	0	0	.030183	0	0	0	0	0	0	0	0	.188602	0	0	0	0	0	0	0	0	
	2. Dairy	.000338	.004258	0	0	0	.029656	0	0	0	0	.142481	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3. Field Crops	0	0	0	0	0	.021352	0	0	0	0	.045209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4. Fruit	.000473	.003041	0	0	0	0	0	0	0	0	.008172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5. Forestry	.000406	0	0	0	0	0	0	0	0	0	.070633	0	.296770	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6. All Other Agriculture	.000203	0	.000569	0	0	0	0	0	0	0	0	.033742	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mining	7. Coal	0	0	0	0	0	0	0	0	0	0	.000132	0	0	0	0	0	0	0	0	0	0	0	.000496	.000373	.009191	0	0	0	
	8. Oil and Gas	0	0	0	0	0	0	0	.016611	0	0	0	0	0	0	.119575	0	0	0	0	0	0	.008655	0	.000220	.025123	.260996	.000481	0	
	9. Uranium	0	0	0	0	0	0	0	0	.228994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Manufacturing	10. All Other Mining	0	0	0	0	0	0	0	0	0	.088155	0	0	0	.031250	.051121	0	0	0	0	0	0	0	0	0	0	0	0	0	
	11. Food and Kindred Products	.003718	0	0	0	0	.028470	0	0	0	0	.011731	0	0	0	0	0	0	0	.059201	0	0	.024668	.002762	.000220	0	.000193	.000021	.000567	
	12. Lumber and Wood Products	.000135	0	0	0	0	0	.006098	0	.000056	0	0	0	0	0	0	0	0	.000403	0	0	0	0	0	0	0	0	.037063	0	
	13. Printing and Publishing	.002096	.001217	.001422	.001560	0	.001186	.006098	.000463	.000788	.000136	.008172	.001084	.007299	.001316	.000655	.001496	.021802	.043772	.006907	.018996	.000914	.007763	.003612	.001560	.003064	.002417	.000752	.006603	
	14. Stone, Clay and Glass Products	0	0	0	0	0	0	0	0	.000038	0	0	0	0	.002303	0	0	0	.000121	0	0	0	0	0	0	0	0	.050915	0	
Trade	15. All Other Manufacturing	.003651	.001825	.004836	.004680	.002046	.004745	.006098	.001604	.003433	.006112	.002109	.002168	.003864	.008553	.012016	.002327	.003206	.003745	.005673	.004071	.007158	.001380	.002337	.025884	.002145	.001257	.010948	.003281	
	16. Wholesale Trade	.006220	.004258	.008819	.003120	.006138	.011862	.006098	.001645	.004727	.001902	.001582	.003685	.002147	.007237	.002185	.001662	.000962	.001973	.021954	.013569	.017285	.002070	.012110	.016927	.002298	.001160	.008211	.002350	
	17. Service Stations	.007166	.005474	.009388	.004680	.011765	.013049	.006098	.000127	.000150	.002581	.000659	.000217	.002147	.000658	.000146	.000831	.000321	.001087	.000370	.008141	.003452	.000863	.000850	.014959	.000153	.000397	.000355	.001296	
Services	18. All Other Retail Trade	.012710	.009732	.027881	.006240	.007673	.047450	.024390	.001355	.002026	.002173	.002636	.004552	.006011	.005921	.002622	.002271	.003206	.003584	.012827	.008141	.02336	.005520	.003612	.002459	.002911	.002997	.015440	.003403	
	19. Eating and Drinking Places	.000473	0	0	0	0	0	0	.000469	.000019	.000543	.000132	.000217	.000429	0	.000364	.001219	.000321	.000926	.000123	0	.001929	.001380	.000921	.001866	.000306	.001257	.000731	.002552	
	20. Agricultural Services	.022580	.034063	.009104	.483619	0	.005931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	21. Oil Field Services	0	0	0	0	0	0	0	.026881	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Utilities	22. Lodging	.000135	0	0	0	0	0	0	.000261	.000019	0	0	0	0	0	.000146	.000665	0	.000685	.000123	0	.001244	.002070	.000567	.001442	.000153	.000387	.000418	.000608	
	23. All Other Services (Except Professional)	.008315	.039538	.009673	.010920	0	.002372	.060976	.003197	.002139	.009372	.014235	.026230	.011593	.017105	.010341	.017672	.047130	.035960	.020227	.013569	.021980	.050543	.022450	.019182	.016085	.007057	.033888	.026494	
	24. Transportation	.011628	.085158	.001422	0	0	.017794	0	.001755	.112556	0	.005272	.014091	.011164	.004934	.021264	.113179	.025329	.066538	.008140	0	.046778	.000690	.021813	.095183	.007047	.007540	.033282	.000284	
	25. Electric Energy	.004935	.010949	.003698	.003120	0	.007117	.006098	.004107	.003583	.024178	.007908	.016258	.007729	.010855	.007428	.007867	.033023	.015463	.014307	.033921	.004696	.023633	.011402	.001645	.133855	.004350	.001609	.006603	
	26. Other Utilities	.002637	.003650	.002560	.001560	0	.004745	.006098	.000278	.002551	.008014	.010413	.002168	.011593	.015461	.005899	.025317	.069574	.019530	.019610	.008141	.003503	.052613	.013102	.012758	.008119	.010343	.004137	.013612	
	27. Contract Construction	0	0	0	0	0	0	0	.001060	0	0	.000395	.001084	0	.000987	.004442	.001219	.001924	.003664	.001727	0	.047235	.015870	.000354	.000892	0	.002997	.283741	.004132	
	28. Rentals and Finance	.021092	.019465	.011380	.009360	.020972	.014235	.012195	.012175	.003152	.032872	.047186	.013007	.042078	.024671	.011215	.035067	.068291	.059679	.058831	.017639	.011929	.032431	.049008	.023999	.107537	.016240	.020433	.058821	

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing		Industry Producing																											
Industry Purchasing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Industry Purchasing		Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail Trade	Printing & Publishing	Agricultural Services	Oil Field Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Agriculture	1. Range Livestock	1.062024	.000958	.000193	.000539	.000498	.000354	.000088	.002137	0	.000272	.004105	.000163	.003866	.000020	.004753	.007565	.008165	.014117	.000657	.024277	.000057	.000212	.011958	.016606	.008237	.005064	.000365	.028677
	2. Dairy	.094091	1.004389	.000026	.003104	.000071	.000038	.000212	.003187	0	.000308	.000556	.000038	.003507	.000028	.005374	.007840	.008105	.012044	.000400	.037839	.000086	.000224	.046296	.099387	.016531	.007866	.000513	.032586
	3. Field Crops	.001865	.000029	1.000016	.000002	.000030	.0000572	.000064	.002073	0	.000307	.000079	.000025	.003295	.000022	.005385	.009383	.009658	.028357	.000120	.009151	.000056	.000056	.012558	.005786	.006034	.004756	.000360	.017009
	4. Fruit	.096873	.000099	.000021	1.000050	.000080	.000035	.000239	.003721	0	.000431	.000458	.000033	.012207	.000021	.007602	.010904	.009524	.011926	.000202	.485835	.000100	.000074	.021447	.004935	.024623	.008160	.000379	.028028
	5. Forestry	.000001	.000004	.000001	0	1.000013	.000001	.000010	.000719	0	.000132	.000026	.000012	.000797	.000014	.002301	.006302	.011847	.007872	.000090	0	.000019	.000029	.001746	.001863	.000906	.001567	.000250	.024237
	6. All Other Agriculture	.068413	.034009	.022692	.000374	.000070	1.001011	.000130	.003510	0	.000379	.029164	.000053	.004712	.000038	.006597	.013733	.014637	.050075	.000262	.009028	.000094	.000127	.009747	.030555	.011918	.009027	.000628	.027227
Mining	7. Coal	.000010	.000030	.000010	.000002	.001845	.000007	1.000118	.003376	0	.000384	.000209	.006124	.007844	.000024	.006754	.007200	.006340	.025013	.000179	.000002	.000091	.000086	.064984	.005073	.009140	.008733	.000416	.020632
	8. Oil and Gas	.000003	.000010	.000003	.000001	.000051	.000002	.000053	1.017773	0	.000178	.000067	.000129	.000737	.000176	.002096	.002383	.000320	.001630	.000592	.000001	.027358	.000323	.004834	.004184	.005287	.000935	.003443	.014905
	9. Uranium	.000005	.000014	.000004	.000001	.000063	.000003	.000122	.002967	1.297007	.000509	.000094	.000090	.001647	.000070	.008943	.009098	.002632	.003226	.000394	.000001	.000080	.000285	.007076	.163338	.006265	.006339	.004005	.010732
	10. All Other Mining	.000005	.000016	.000005	.000001	.077496	.000004	.000297	.004470	0	1.097093	.000112	.000013	.000879	.000021	.007309	.009998	.003002	.003860	.003394	.000764	.000001	.000120	.000053	.012900	.001621	.031544	.010453	.000410
Manufacturing	11. Food and Kindred Products	.049228	.146012	.046536	.008747	.000053	.034223	.000291	.004575	0	.000247	1.013183	.000053	.010030	.000058	.004141	.004506	.003333	.008333	.000426	.010942	.000123	.000111	.025134	.023448	.013720	.013996	.001118	.061577
	12. Lumber and Wood Products	.000006	.000018	.000006	.000001	.296907	.000004	.000203	.002006	0	.000225	.000125	1.000071	.001899	.000093	.003531	.006347	.004065	.007254	.000375	.000001	.000054	.000074	.028988	.018113	.019829	.003989	.001807	.025971
	13. Printing and Publishing	.000006	.000016	.000005	.000001	.000025	.000004	.000104	.004363	0	.000264	.000113	.000020	1.008168	.000024	.004605	.002786	.002470	.006456	.000630	.000001	.000117	.000073	.014322	.014043	.009967	.013353	.000450	.048421
	14. Stone, Clay and Glass Products	.000004	.000013	.000004	.000001	.002486	.000003	.000146	.006127	0	.034902	.000092	.000070	.002050	1.002400	.009405	.007927	.000989	.006450	.000185	.000001	.000165	.000065	.019919	.008059	.014511	.017366	.001787	.031872
	15. All Other Manufacturing	.000005	.000014	.000005	.000001	.004097	.000003	.000122	.125635	0	.056925	.000099	.000258	.001197	.000353	1.013671	.003384	.000810	.003378	.000602	.000001	.003377	.000254	.013554	.025711	.011483	.007708	.006911	.019301
Trade	16. Wholesale Trade	.000012	.000035	.000011	.000002	.000053	.000008	.000155	.008671	0	.000372	.000245	.000090	.002425	.000121	.006059	1.004366	.002844	.003078	.001650	.000003	.000233	.000912	.022801	.127140	.010501	.028764	.002367	.044464
	17. Service Stations	.000013	.000039	.000012	.000002	.000065	.000009	.000410	.021144	0	.000323	.000270	.000141	.023317	.000188	.004870	.002689	1.001051	.004391	.000781	.000003	.000568	.000175	.053170	.031551	.040439	.073491	.003678	.084031
	18. All Other Retail Trade	.000014	.000041	.000013	.000002	.000217	.000010	.000235	.007590	0	.000454	.000288	.000624	.045287	.000422	.006600	.004306	.002533	1.004774	.001378	.000003	.000204	.000893	.042169	.079098	.020049	.023561	.005886	.073474
Services	19. Eating and Drinking Places	.002922	.008665	.002762	.000519	.000069	.002031	.000201	.007529	0	.000431	.060130	.000125	.008900	.000164	.006915	.023143	.000962	.014047	1.000461	.000649	.000202	.000247	.026093	.015646	.019006	.023343	.003181	.072715
	20. Agricultural Services	.200304	.000192	.000040	.000102	.000118	.000069	.000399	.004819	0	.000316	.000851	.000050	.020862	.000023	.005539	.015555	.009871	.011364	.000283	1.004580	.000130	.000099	.019023	.006997	.042066	.011558	.000419	.032670
	21. Oil Field Services	.000013	.000039	.000013	.000002	.000968	.000009	.000100	.011932	0	.001949	.000273	.002463	.001685	.003388	.009833	.019412	.004449	.003970	.002216	.000003	1.000321	.001410	.027788	.058153	.007003	.006436	.066384	.020020
	22. Lodging	.001231	.003652	.001164	.000219	.000285	.000856	.000305	.015886	0	.000445	.025341	.000852	.009179	.001168	.002422	.003492	.001200	.006867	.001685	.000274	.000427	1.002190	.056052	.005440	.029524	.055842	.022867	.045308
	23. All Other Services	.000146	.000433	.000138	.000026	.000028	.000101	.000653	.004931	0	.000210	.003002	.000044	.004529	.000054	.003500	.013187	.001405	.004227	.001195	.000032	.000133	.000680	1.026189	.027276	.014510	.015549	.001043	.057534
Utilities	24. Transportation	.000025	.000074	.000024	.000004	.000142	.000017	.000464	.008541	0	.001686	.000517	.000078	.002716	.000102	.029585	.019419	.016727	.003302	.002256	.000006	.000230	.001668	.024800	1.109993	.004115	.017281	.001993	.033440
	25. Electric Energy	.000010	.000030	.000009	.000002	.000046	.000007	.010646	.033229	0	.000211	.000205	.000105	.004911	.000053	.003510	.003664	.000634	.004380	.000798	.000002	.000893	.000310	.024221	.010848	1.156495	.012232	.001026	.135293
	26. Other Utilities	.000017	.000050	.000016	.000003	.000073	.000012	.000073	.268983	0	.000203	.000345	.000199	.003031	.000272	.002276	.002215	.000666	.003731	.001515	.000004	.007230	.000514	.009834	.010513	.006948	1.011514	.005314	.023395
	27. Contract Construction	.000016	.000047	.000015	.000003	.016774	.000011	.000114	.005902	0	.019893	.000325	.051788	.002949	.071296	.018358	.014263	.001830	.023180	.001377	.000004	.000159	.000761	.055262	.059166	.007101	.010516	1.397007	.042029
	28. Rentals and Finance	.000043	.000128	.000041	.000008	.000092	.000030	.000099	.004871	0	.000303	.000886	.000237	.007535	.000324	.003880	.003123	.001487	.004058	.002799	.000010	.000131	.000689	.030002	.002481	.008998	.015690	.006331	1.066782

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry Producing	Industry Purchasing																															26	27	28	29	30	31
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	Profits & other	Inventory Changes (additions)	Gross Private Capital Formation	Exports to Other CRB Basins	Exports Outside CRB	Total Gross Output						
	Agriculture	Forestry	Oil & gas	Coal	Uranium & non-fuels	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Stone, Clay & Glass	Chemicals, Etc.	Wholesale Trade	Service stations	Eating & Drinking Places	Other retail trade	Oil field services	Lodging	Other Services	Transporta- tion	Electric energy	All Other Utilities	Contract construction	Rentals & finance	State & Federal Government	Local Government	Wages												
Mining	1. Agriculture	8,117	0	0	0	0	4,541	5	0	0	0	0	0	0	0	110	0	0	0	0	0	0	3,520	0	221				1,253	31,233	49,000	1					
	2. Forestry	0	0	0	0	0	0	923	0	0	0	0	0	0	0	0	0	0	0	0	176	0	96	0	21,165			0	112,247	118,611	3						
	3. Oil & gas	0	0	0	6	221	0	0	0	1,526	75	18	0	41	0	0	14	35	836	890	0	0	0	0	5,084		3,790	0	7,185	26,560	46,054	4					
	4. Coal	0	0	0	250	50	28	1	0	2	0	1	0	15	0	0	0	0	0	0	757	0	6,714	739	0	1,648		0	193	4,349	8,253	6					
	5. Uranium & non-fuels	0	0	0	0	4,451	0	0	0	42	0	0	0	0	0	0	0	0	0	0	0	0	20	12	0	1,648		0	0	227	1,517	2,380	7				
	6. Food & kindred products	887	0	0	21	0	62	0	0	5	2	0	0	946	36	0	0	0	2	4	282	0	0	0	4	58		0	0	3	55	832	8				
	7. Lumber & wood products	30	0	0	69	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	40		0	569	27	10	1,736	9				
	8. Printing & publishing	0	0	31	26	23	13	1	4	7	5	6	76	18	0	27	45	78	18	7	629	0	0	4	198		0	0	4	10	1,736	9					
	9. Stone, clay & glass products	3	0	150	38	0	0	2	0	42	0	0	50	13	0	0	0	0	1	0	0	97	0	0	0	1,512		120	83	133	1,582	3,990	10				
	10. Chemicals, petroleum & coal, other mfg.	2	37	20	300	29	5	0	0	0	10	0	0	0	60	0	0	0	5	21	2,279	83	58	117	3,055		207	427	48	1,121	9,911	11					
	11. Wholesale trade	370	2	53	86	51	18	29	2	2	1	13	4	94	146	13	7	725	874	5	330	36	43	205	970		14	24	41	1,173	3,988	12					
	Trade	12. Service stations	115	19	25	27	8	20	10	1	0	0	16	16	185	9	0	30	548	4	19	0	0	0	0	4,250		2,483	1,724	136	9,586	39,131	14				
13. Eating & drinking places		0	0	53	31	0	0	0	0	0	0	0	0	62	32	0	0	360	55	0	125	337	69	270	21,480		0	37,785	0	0	39,335	15					
14. Other retail		540	6	48	54	9	120	31	1	2	3	89	34	831	504	35	80	161	133	205	0	0	0	0	0	0	0	15	0	123	7,516	8,417	16				
15. Oil field services		0	0	1,350	0	0	0	0	0	0	0	0	0	0	30	0	2	110	3	0	0	0	0	0	0	4,250		0	73	18	234	9,606	17				
Services	16. Lodging	0	0	35	10	0	0	0	0	0	0	0	0	0	0	0	0	249	9	45	184	286	23	45	3,559		0	0	0	8,483	27,124	18					
	17. Other services (except professional)	1,730	0	31	20	120	85	47	30	51	15	158	6	2,370	300	35	80	3,340	580	325	808	18	130	107	2,483		419	24	0	7,776	16,373	19					
Utilities	18. Transportation	1,184	0	940	1,000	400	321	168	3	74	153	919	47	2,370	300	35	80	3,340	580	325	808	18	130	107	2,483		419	24	0	7,776	16,373	19					
	19. Electric energy	651	0	680	1,178	382	50	66	8	7	35	47	39	124	364	76	152	181	588	494	52	287	195	371	465	1,662		0	89	0	413	8,931	20				
	20. Other utilities	190	0	35	125	77	34	9	3	6	5	237	187	96	780	90	463	573	380	84	398	158	250	550	458	3,241		0	5,560	0	13,663	53,735	21				
Payments Sector	21. Contract construction	0	0	250	231	60	8	0	0	0	60	15	31	47	100	25	29	8	70	6	5,198	63	25,035	247	3,029		0	0	0	2,989	25,853	22					
	22. Rentals & finance	972	20	4,540	956	563	104	49	20	55	76	306	279	1,745	75	559	165	303	148	361	747	1,450	92	71	8,644		0	0	111	2,955	64,633	23					
	23. State & Federal	1,726	255	14,620	2,053	1,222	223	128	39	88	220	1,498	400	97	2,497	800	204	1,434	1,180	641	83	972	378	4,649	190	25,970		0	0	86	789	23,729	24				
	24. Local	2,911	23	1,650	673	228	37	37	13	24	14	135	73	147	150	109	328	359	785	208	320	814	6,878	969	5,565		0	0	210	800	49,046	26					
	25. Wages	5,175	342	4,000	17,508	5,018	914	588	329	544	574	2,889	1,576	1,952	11,100	1,865	892	1,834	12,984	1,186	601	10,833	2,074	11,281	10,463	1,380		0	0	0	0	12,121	27				
	26. Profits & other income	16,854	160	215	3,425	1,004	337	18	78	115	266	744	70	10	7,612	0	0	0	472	0	0	0	0	0	0	0	0		0	0	0	0	53,637	28			
	27. Inventory change (depletions)	0	0	0	3,566	0	0	83	0	0	162	216	0	10	7,612	0	0	0	0	0	0	621	841	0	0	0		0	0	0	0	12,516	29				
	28. Depreciation allowances	4,700	25	33,668	3,829	1,927	186	64	36	120	114	214	115	64	337	1,300	938	753	162	2,781	842	1,401	110	312	118	1,359		847	1,702	39	178	12,516	29				
	Imports	29. Imports from other Colorado River Sub-Basins	20	7	1,361	283	96	20	32	8	13	188	35	12	268	2,150	1,430	3,969	2,297	5,246	4,891	4,607	27,531	1,448	13,135	6,963	51,681		23,837	60,157	14,629	271,193	1,127,610	31			
		30. Imports from outside Colorado River Basin	2,923	43	54,656	10,289	8,313	1,125	89	257	537	619	2,270	640	4,379	5,719	32,945	3,969	2,297	5,246	4,891	4,607	27,531	1,448	13,135	6,963	51,681		23,837	60,157	14,629	271,193	1,127,610	31			
	31. Total Gross Outlays	49,000	939	118,611	46,054	24,262	8,253	2,380	832	1,736	3,990	9,911	3,988	9,752	39,131	39,335	8,417	9,606	27,124	16,373	8,931	53,735	25,853	73,170	22,766	153,645											

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

INTERINDUSTRY TRANSACTIONS (IN THOUSANDS OF DOLLARS)
GREEN RIVER SUB-BASIN 1960
Table CR-1960-a

Industry Purchasing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
Industry Producing		Agriculture	Forestry	Oil & gas	Coal	Uranium & non-fuels	Food & Kindred Products	Lumber & wood products	Printing & publishing	Stone, clay & glass	Chemicals, Etc.	Wholesale trade	Service stations	Eating & Drinking Places	Other retail trade	Oil field services	Lodging	Other Services	Transportation	Electric energy	Other utilities	Contract construction	Rentals & finance		
		.165653	0	0	0	0	.550224	.002177	0	0	0	0	0	0	0	0	.013069	0	0	0	0	0	0	1	
	1. Agriculture							.401828	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	2. Forestry	0	0	0	0	0	0	0	0	0	.398642	.007736	.004514	0	.001301	0	0	.001457	.001290	.052575	.099653	.003275	0	0	3
	3. Oil & gas	0	0	0	.000141	.009109	0	0	0	0	.000522	0	.000251	0	.000476	0	0	0	0	.192189	.003359	0	0	0	4
	4. Coal	0	0	0	.005884	.002061	.003393	.000435	0	.001152	.000522	0	.000251	0	.000476	0	0	0	0	.192189	.003359	0	0	0	4
	5. Uranium & non-fuels	0	0	0	0	.183456	0	0	0	.024194	0	0	0	0	0	0	0	0	0	0	0	.014088	0	0	5
	6. Food & kindred products	.018102	0	0	.000494	0	.007512	0	0	.002880	.000522	0	0	.097105	.001142	0	.008554	0	0	0	0	0	0	0	6
	7. Lumber & wood products	.000612	0	0	.001624	.000412	.000242	0	0	0	0	0	0	0	.001396	0	0	0	0	.000126	.000448	.005248	0	0	7
	8. Printing & publishing	0	0	.000261	.000612	.000948	.001575	.000435	.004808	.004032	.001306	.000619	.019057	.001848	.009835	0	.003208	.004685	.002876	.001132	.000784	0	.000155	0	8
	9. Stone, clay & glass products	.000061	0	.001265	.000894	0	0	.000871	0	.024194	0	0	.012538	.001334	0	0	0	0	0	.000063	0	.011706	0	0	9
	10. Chemicals, petroleum & coal, other mfg.	.000041	.039404	.000169	.007061	.001195	.000606	0	0	0	.002612	0	0	0	0	.001525	0	0	0	0	0	.001805	0	0	10
	11. Wholesale trade	.007551	.002130	.000447	.002024	.002102	.002181	.012625	.002404	.001152	.000261	.001341	.001003	.009649	.004632	.000330	.000832	.075474	.032222	.000314	.002351	.042412	.003210	0	11
	12. Service stations	.002347	.020234	.000211	.000635	.000330	.002423	.004354	.001202	0	0	0	.004012	.001642	.005869	.000229	0	.003123	.020204	.000252	.002127	.006141	.001392	0	12
	13. Eating & drinking places	0	0	.000447	.000730	0	0	0	0	0	0	0	0	0	.001967	.000814	0	0	.013272	.003459	0	0	0	0	13
	14. Other retail	.011020	.006390	.000405	.001271	.000371	.014540	.013496	.001202	.001152	.000784	.009180	.008526	.085301	.015990	.000890	.009505	.016760	.004903	.002201	.022954	.002326	.013035	0	14
	15. Oil field services	0	0	.013068	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
	16. Lodging	0	0	.000295	.000235	0	0	0	0	0	0	0	0	0	0	.000763	0	.000208	.004055	.000189	0	0	0	0	16
	17. Other services (except professional)	.035306	0	.000261	.000471	.004946	.010299	.020461	.036058	.029378	.003918	.016297	.001505	.029049	.034804	.000636	.047523	.081512	.009180	.000566	.005039	.003424	.011063	0	17
	18. Transportation	.024163	0	.007925	.023536	.016487	.038895	.073139	.003606	.042627	.039969	.094791	.023069	.004824	.075193	.007627	.004158	.008328	.123138	.036476	.036390	.015037	.000696	0	18
	19. Electric energy	.013286	0	.005733	.027725	.015745	.006058	.028733	.009615	.004032	.009143	.004848	.009779	.012728	.011549	.001932	.018059	.018842	.021678	.031067	.005822	.005341	.007543	0	19
	20. Other utilities	.003878	0	.000295	.002942	.003174	.004120	.003918	.003606	.003456	.001306	.024446	.046891	.009854	.024747	.002288	.055008	.059650	.014010	.005283	.044564	.002940	.009670	0	20
	21. Contract construction	0	0	.002108	.005437	.002473	.000969	0	0	0	0	.006189	.003761	.003182	.001491	.002542	.002970	.003019	.000295	.004402	.000672	.096734	.002437	0	21
	22. Rentals & finance	.019837	.021299	.038276	.022500	.023205	.012601	.021332	.024038	.031682	.019854	.031563	.141424	.028639	.055363	.001907	.066413	.017177	.011171	.009308	.040421	.013902	.056086	0	22

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing		Industry Producing																						
		1 Agriculture	2 Forestry	3 Oil & gas	4 Coal	5 Uranium & non-fuels	6 Food & kindred products	7 Lumber & wood products	8 Printing & publishing	9 Stone, clay & glass	10 Chemicals, petroleum, coal & other mfg.	11 Wholesale trade	12 Service stations	13 Eating & drinking places	14 Other retail trade	15 Oil field services	16 Lodging	17 Other services (except prof.)	18 Transportation	19 Electric energy	20 Other utilities	21 Contract construction	22 Rentals & finance	
Mining	1. Agriculture	1.213194	.000316	.002337	.003863	.000014	.022211	.000786	.000662	.000144	.000104	.014424	.004044	.000625	.015863	.000031	.000175	.048652	.039371	.019368	.010061	.000556	.030060	1
	2. Forestry	.000025	1.000005	.016109	.000251	.000013	.000038	.000013	.000544	.000287	.039512	.002497	.020482	.000073	.007187	.000211	.000020	.000941	.003554	.001116	.001720	.000240	.027806	2
	3. Oil & gas	.000052	.000007	1.000578	.001287	.000084	.000070	.000018	.000342	.001336	.000203	.001117	.000506	.000616	.001161	.013075	.000347	.001072	.009923	.006621	.001135	.002546	.041207	3
	4. Coal	.000436	.000677	.005137	1.011776	.000141	.000646	.001686	.000829	.001034	.007203	.003570	.001392	.001247	.002223	.000067	.000367	.001567	.029974	.030172	.004385	.006378	.026093	4
	5. Uranium & non-fuels	.000036	.000218	.013542	.006677	1.224739	.000049	.000542	.001358	.000084	.001533	.004289	.001054	.000424	.001445	.000177	.000114	.007531	.025356	.021294	.005611	.003692	.032254	5
Manufacturing	6. Food & kindred products	.672646	.000290	.002832	.007208	.000033	1.019975	.000722	.002413	.000151	.000713	.012941	.005854	.001044	.024696	.000037	.000296	.039821	.069524	.018987	.012403	.001650	.033246	6
	7. Lumber & wood products	.002762	.401849	.009435	.006966	.000045	.000224	1.000051	.001381	.001112	.015928	.018672	.014666	.001364	.018502	.000123	.000384	.025120	.090623	.033486	.009360	.000679	.038933	7
	8. Printing & publishing	.000012	.000005	.001425	.002211	.000007	.000017	.000014	1.005121	.000029	.000017	.005796	.001542	.000130	.002580	.000019	.000037	.040112	.006270	.011304	.007033	.000338	.027515	8
	9. Stone, clay & glass products	.002041	.000012	.001603	.002684	.030372	.003090	.000030	.004583	1.024821	.000059	.005773	.001297	.000731	.002963	.000021	.000223	.034517	.052589	.007219	.007514	.000435	.037725	9
	10. Chemicals, petroleum & coal, other mfg.	.000423	.000007	.400880	.003174	.000037	.000633	.000018	.001673	.000555	1.002720	.002739	.001229	.000912	.002085	.005239	.000333	.005689	.050859	.013613	.003317	.001211	.038962	10
Trade	11. Wholesale trade	.000121	.000029	.011443	.001807	.000129	.000172	.000072	.001259	.000139	.000029	1.007079	.002579	.001548	.011712	.000150	.000464	.020236	.112079	.008792	.029624	.007249	.038540	11
	12. Service stations	.000071	.000029	.010573	.002987	.000468	.000105	.000073	.019632	.012991	.000034	.003454	1.005158	.000499	.012423	.000138	.000137	.005909	.031781	.013109	.052390	.004830	.155850	12
	13. Eating & drinking places	.065421	.000092	.003056	.003882	.000118	.099200	.000230	.003292	.001475	.000103	.014969	.003318	1.000555	.090925	.000040	.000108	.040038	.023400	.017788	.017329	.004283	.041743	13
	14. Other retail	.001012	.000586	.005695	.003742	.000044	.001519	.001459	.010770	.000151	.000056	.011316	.008225	.003286	1.019612	.000074	.000387	.041396	.091803	.016233	.031922	.002294	.065631	14
Services	15. Oil field services	.000081	.000008	.001048	.000468	.000051	.000104	.000019	.000065	.000044	.001538	.000862	.000459	.000948	.001187	1.000014	.000801	.000993	.009292	.002363	.002779	.002863	.002679	15
	16. Lodging	.021639	.000038	.007600	.004454	.000071	.009059	.000093	.003778	.000076	.000048	.006211	.000851	.000268	.013674	.000099	1.000068	.054890	.011989	.021745	.062805	.003960	.076707	16
	17. Other services (except professional)	.000057	.000039	.010769	.004799	.000083	.000078	.000098	.005663	.000131	.000046	.083994	.004320	.000475	.021749	.000141	.000341	1.092372	.025779	.023503	.072006	.004593	.029044	17
Utilities	18. Transportation	.001114	.000016	.005463	.005374	.000030	.001577	.000041	.004049	.000351	.000043	.038538	.023525	.015363	.008790	.000071	.004669	.013896	1.148585	.027347	.020925	.001122	.021664	18
	19. Electric energy	.000373	.000201	.056177	.201044	.000126	.000552	.000501	.001570	.000429	.001454	.002981	.001558	.004447	.003804	.000734	.000466	.002042	.050522	1.039752	.007810	.006543	.019233	19
	20. Other utilities	.000079	.000210	.105261	.005329	.000030	.000112	.000523	.001382	.000205	.000069	.005067	.003515	.000773	.025789	.001376	.000232	.008101	.048111	.009150	1.049493	.001387	.052480	20
	21. Contract construction	.000074	.002344	.006174	.001647	.019508	.000087	.005833	.000423	.013400	.002134	.048667	.007554	.000401	.003999	.000081	.000115	.006443	.027189	.008076	.006353	1.107678	.021580	21
	22. Rentals & finance	.000020	.000019	.001807	.001788	.000054	.000030	.000046	.000444	.000064	.000019	.004802	.001741	.000113	.014706	.000024	.000021	.013584	.003813	.008994	.012310	.003044	1.061794	22

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Table CRB-10a

Total Gross Output of Processing Sector Industries
for each of the Six Sub-Basins of the Colorado River
Basin in 1960

(in thousands of dollars)

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			3	49,000								
Range Livestock	24	33,652			8	10,241	23	8,069	10	15,142	6	28,284
Feeder Livestock	15	87,069			22	550	16	18,574			23	4,010
Dairy	27	27,371			24	336	29	1,965	24	1,676	24	3,155
Food & Field Crops											18	5,793
Field Crops									20	3,515		
Forage Feed & Food	21	37,209			18	1,216	22	11,324				
Truck Crops											31	862
Vegetables	17	48,388										
Citrus Crops	32	6,788					28	3,370				
Fruit									25	641	17	6,243
Veg. & Melon Products							12	28,563				
Cotton	11	141,244					20	13,943				
"Other" Agriculture	31	9,357			25	267	26	6,560	26	843	26	2,660
Forestry	34	1,645	21	939	15	4,499	27	3,496	23	1,955	28	1,952
Coal			4	46,054	23	388			28	164	19	5,620
Oil & Gas			1	118,611	21	575			1	172,652	27	1,968
Uranium	35	563			1	138,530	25	7,283	3	53,307	2	92,422
Uranium & Nonfuels			9	24,262								
Copper	4	308,838										
Zinc											13	11,564
"Other" Mining	16	67,567			17	4,178	13	20,137	15	7,629	16	6,713
Food & Kindred Products	8	190,301	16	8,253	19	1,185	17	15,889	14	8,067	8	19,143

Table CRB-10a- Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	26	28,428	19	2,380	4	22,145	19	14,197	18	5,284	20	5,033
Furniture & Fixtures	30	13,698										
Paper & Pulp	33	4,990										
Printing & Publishing	19	42,870	22	832	20	923	24	7,979	22	2,415	25	3,049
Chemicals	28	18,337					15	19,617				
Chem, Petrol., Coal Other Manufacturing			17	3,990								
Primary Metals	3	389,571										
Fabricated Metals	20	39,614					30	1,706			29	1,663
Stone, Clay & Glass	22	34,764	20	1,736			18	15,182	19	3,663	30	1,460
Textiles & Apparel	29	14,583										
Leather & Leather Goods	36	350										
"Other" Manufacturing	6	293,930			7	16,862	9	33,836	9	15,540	11	17,929
Wholesale Trade	7	231,783	11	9,911	9	8,125	7	39,971	8	20,923	7	20,345
Service Stations	23	33,797	18	3,988	13	5,958	21	13,818	21	3,272	22	4,530
Eating & Drinking Places	12	117,728	12	9,752	10	8,074	8	35,411	13	8,293	12	12,978
"Other" Retail	2	415,783	6	39,131	5	19,683	5	93,625	6	29,950	4	42,388
Agricultural Services	25	31,982					14	19,961	27	737	21	4,754
Oil Field Services			5	39,335					5	40,040		
Lodging	18	46,936	15	8,417	14	5,072	3	122,312	17	6,255	15	7,646
"Other" Services	9	189,324	13	9,606	12	6,651	2	152,330	11	14,954	10	18,604
Transportation	14	99,414	7	27,124	3	29,301	6	48,275	2	58,960	3	50,947
Electric Energy	13	111,644	10	16,373	11	6,865	11	30,488	16	6,528	14	9,460
"Other" Utilities	10	166,106	14	8,931	16	4,188	10	31,513	12	13,272	9	19,036
Contract Construction	1	520,431	2	53,735	2	61,160	1	159,430	4	49,201	1	93,630
Rentals & Finance	5	301,885	8	25,853	6	19,291	4	96,750	7	25,727	5	36,545

Table CRB-10b

Processing Sector Industries Sales to Final Demand
for Each of the Six Colorado River Sub-Basins, 1960

(in thousands of dollars)

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			5	36,227								
Range Livestock	32	1,137			7	10,013	25	2,554	8	13,793	6	19,216
Feeder Livestock	12	57,913			19	544	11	18,028			21	3,627
Dairy	30	3,212			24	9	28	60	24	558	27	705
Food & Field Crops											19	4,131
Field Crops									18	3,154		
Forage Feed & Food	27	4,856			21	291	21	6,393				
Truck Crops											26	818
Vegetables	14	48,001										
Citrus Crops	26	6,338					24	3,370				
Fruit									23	567	15	5,252
Veg. & Melon Products							8	28,563				
Cotton	8	127,272					15	12,514				
"Other" Agriculture	25	7,218			22	36	22	5,400	22	582	24	1,908
Forestry	36	0	22	16	23	15	30	0	27	60	30	64
Coal			3	42,619	20	316			26	74	17	4,630
Oil & Gas			1	114,733	25	0			1	164,901	23	1,940
Uranium	33	563			1	90,686	23	5,131	2	41,100	1	75,568
Uranium & Nonfuels			7	19,012								
Copper	31	2,568										
Zinc											12	11,564
"Other" Mining	16	31,913			13	3,934	19	7,389	16	5,652	20	3,900
Food & Kindred Products	7	160,945	13	6,222	17	1,016	20	6,831	13	7,207	8	16,417

Table CRB-10b - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	20	18,161	19	1,937	3	21,021	16	12,042	17	3,494	16	4,764
Furniture & Fixtures	23	12,848										
Paper & Pulp	29	3,260										
Printing & Publishing	17	22,591	21	133	18	687	26	2,383	25	434	29	253
Chemicals	28	4,053					13	16,505				
Chem, Petrol., Coal Other Manufacturing			17	3,430								
Primary Metals	1	386,300										
Fabricated Metals	21	17,359					27	428			25	824
Stone, Clay & Glass	24	8,898	20	808			17	9,072	21	1,214	28	319
Textiles & Apparel	22	14,583										
Leather & Leather Goods	34	350										
"Other" Manufacturing	4	236,526			5	12,752	7	33,194	10	12,042	13	8,756
Wholesale Trade	6	176,236	14	5,033	10	6,844	10	23,630	7	17,522	7	17,155
Service Stations	19	19,838	18	2,570	12	4,363	18	8,547	20	1,181	22	2,358
Eating & Drinking Places	11	112,042	11	9,159	8	7,852	6	33,772	12	7,825	10	12,651
"Other" Retail	32	373,304	6	35,748	4	17,809	4	84,331	6	27,673	3	40,100
Agricultural Services	35	140					29	0	28	0	31	0
Oil Field Services			4	37,785					4	35,399		
Lodging	15	43,675	12	8,227	11	5,064	2	121,525	15	5,981	14	7,479
"Other" Services	9	126,126	16	3,952	14	3,077	1	127,254	14	6,934	11	12,578
Transportation	18	21,603	8	13,967	9	7,217	9	24,221	3	38,506	4	33,260
Electric Energy	13	49,181	10	10,717	16	2,577	14	14,311	19	2,540	18	4,450
"Other" Utilities	10	122,015	15	4,751	15	2,591	12	16,739	11	9,325	9	15,340
Contract Construction	3	354,308	2	47,534	2	44,325	3	106,138	5	33,089	2	68,055
Rentals & Finance	5	202,129	9	11,796	6	11,817	5	59,039	9	13,142	5	27,278

Table CRB-10c

1960

Sales to Final Demand of Processing Sector Industries as a Percent of
Total Gross Output in the Six Colorado River Sub-Basins

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%
Agriculture			12	73.93								
Range Livestock	33	3.38			3	99.77	25	31.65	5	91.09	19	67.70
Feeder Livestock	20	66.51			2	98.91	5	97.06			8	90.45
Dairy	32	11.74			23	2.68	28	3.05	24	33.29	27	22.34
Food & Field Crops											18	71.31
Field Crops									6	89.73		
Forage Feed & Food	31	13.05			21	23.93	19	56.46				
Truck Crops											5	94.90
Vegetables	4	99.20										
Citrus Crops	8	93.37					1	100.00				
Fruit									8	88.46	11	84.13
Veg. & Melon Products							2	100.00				
Cotton	10	90.11					8	89.75				
"Other" Agriculture	14	77.14			22	13.48	12	82.32	15	69.04	17	71.73
Forestry	36	0.00	22	1.70	24	0.33	30	0.00	27	3.06	30	3.28
Coal			5	92.54	7	93.04			22	45.12	12	82.38
Oil & Gas			2	96.76	25	0.00			2	95.51	2	98.58
Uranium	1	100.00	10	78.36	15	65.46	13	70.45	12	77.10	13	81.76
Uranium & Nonfuels												
Copper	34	0.83										
Zinc											1	100.00
"Other" Mining	25	47.23			6	94.16	24	36.69	13	74.08	22	58.10
Food & Kindred Products	12	84.57	11	75.39	9	85.74	23	42.99	7	89.34	9	85.76

Table CRB-10c - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%
Lumber & Wood	22	63.88	9	81.39	5	94.92	9	84.82	17	66.12	6	94.66
Furniture & Fixtures	7	93.79										
Paper & Pulp	21	65.33										
Printing & Publishing	24	52.70	21	15.91	12	74.43	26	29.87	26	17.97	29	8.30
Chemicals	29	22.10					10	84.14				
Chem, Petrol., Coal Other Manufacturing			8	85.96								
Primary Metals	5	99.16										
Fabricated Metals	27	43.82					27	25.09			24	49.55
Stone, Clay & Glass	28	25.60	18	46.54			17	59.75	25	33.14	28	21.85
Textiles & Apparel	2	100.00										
Leather & Leather Goods	3	100.00										
"Other" Manufacturing	13	80.47			11	75.62	4	98.10	11	77.49	25	48.84
Wholesale Trade	15	76.03	17	50.78	10	84.23	18	59.12	10	83.74	10	84.32
Service Stations	23	58.70	14	64.44	13	73.23	15	61.85	19	57.49	23	52.05
Eating & Drinking Places	6	95.17	4	93.92	4	97.25	6	95.37	3	94.36	4	97.48
"Other" Retail	11	89.78	6	91.35	8	90.48	7	90.07	4	92.40	7	94.60
Agricultural Services	35	0.44					29	0.00	28	0.00	31	0.00
Oil Field Services			3	96.06					9	88.41		
Lodging	9	93.05	1	97.74	1	99.84	3	99.36	1	95.62	3	97.82
"Other" Services	19	66.62	20	41.14	18	46.26	11	83.58	21	46.37	20	67.61
Transportation	30	21.73	16	51.49	20	24.63	21	50.17	18	65.31	21	65.28
Electric Energy	26	44.05	13	65.46	19	37.54	22	46.94	23	38.91	26	47.04
"Other" Utilities	16	73.46	15	53.20	16	61.87	20	53.12	14	70.26	14	80.58
Contract Construction	17	68.00	7	88.46	14	72.47	14	66.57	16	67.25	16	72.68
Rentals & Finance	18	66.96	19	45.63	17	61.25	16	61.02	20	51.08	15	74.64

Table CRB-10d

Magnitude of Processing Sector Industry Payments to Sub-Basin Households for Each of the
Six Colorado River Sub-Basins, 1960
(in thousands of dollars)

Sub-Basin	Gila			Green			Little Colorado		
	Wages & Salaries	Total Payments	Rank	Wages & Salaries	Total Payments	Rank	Wages & Salaries	Total Payments	Rank
Agriculture				5,175	22,029	1			
Range Livestock	965	10,501	23				3,425	4,841	6
Feeder Livestock	1,160	13,513	20				13	157	21
Dairy	1,524	7,700	27				38	85	23
Food & Field Crops	4,311	9,409	24						
Field Crops									
Forage Feed & Food							124	428	17
Truck Crops									
Vegetables	8,839	16,205	17						
Citrus Crops	347	863	34						
Fruit									
Veg. & Melon Products									
Cotton	12,749	44,396	9						
Other Agriculture	605	2,419	31				14	94	22
Forestry	496	976	33	342	502	21	1,359	2,978	8
Coal				17,508	20,933	2	69	73	24
Oil & Gas				4,000	4,215	8	36	55	25
Uranium	185	228	35				22,170	29,970	1
Uranium & Nonfuels				5,018	6,022	7			
Copper	93,100	101,500	5						
Zinc									
Other Mining	16,480	19,766	16				1,724	1,905	13
Food & Kindred Products	32,416	36,678	12	914	1,251	15	237	262	20

Table CRB-10d- Continued

Sub-Basin	Gila			Green			Little Colorado		
	<u>Wages & Salaries</u>	<u>Total Payments</u>	<u>Rank</u>	<u>Wages & Salaries</u>	<u>Total Payments</u>	<u>Rank</u>	<u>Wages & Salaries</u>	<u>Total Payments</u>	<u>Rank</u>
Lumber & Wood	7,893	8,849	25	588	606	20	4,195	5,055	5
Furniture & Fixtures	3,377	4,036	29						
Paper & Pulp	892	991	32						
Printing & Publishing	16,661	21,716	15	329	407	22	301	366	19
Chemicals	3,681	3,941	30						
Chem., Petro., Coal, Other Manufacturing				574	840	17			
Primary Metals	26,471	27,608	14						
Fabricated Metals	11,052	11,969	22						
Stone, Clay & Glass	10,619	12,519	21	544	659	19			
Textiles & Apparel	6,730	6,971	28						
Leather & Leather Goods	121	155	36						
Other Manufacturing	138,821	148,057	4				1,321	1,388	15
Wholesale Trade	82,874	94,812	6	2,889	3,633	9	1,455	2,432	10
Service Stations	12,402	15,266	19	1,576	1,646	13	3,135	3,549	7
Eating & Drinking Places	29,318	37,440	11	1,952	2,009	10	1,905	1,972	12
Other Retail	188,964	211,663	2	11,100	12,566	5	7,542	8,976	3
Agricultural Services	4,878	8,418	26						
Oil Field Services				1,865	1,865	12			
Lodging	13,467	15,278	18	892	1,187	16	779	1,617	14
Other Services	53,629	67,616	7	1,834	1,974	11	1,367	2,248	11
Transportation	27,249	29,254	13	12,984	12,984	4	883	1,100	16
Electric Energy	25,004	38,564	10	1,186	1,272	14	268	404	18
Other Utilities	45,358	49,670	8	601	731	18	2,789	2,821	9
Contract Construction	152,855	159,819	3	10,833	10,833	6	6,317	7,535	4
Rentals and Finance	70,447	238,185	1	2,074	19,540	3	986	13,705	2

Table CRB-10d - Continued

Sub-Basin	Upper Main Stem			Lower Main Stem			San Juan		
	Wages & Salaries	Total Payments	Rank	Wages & Salaries	Total Payments	Rank	Wages & Salaries	Total Payments	Rank
Agriculture									
Range Livestock	3,310	13,563	6	486	3,370	22	2,007	7,907	8
Feeder Livestock	11	88	31	446	1,870	25			
Dairy	123	967	25	226	522	30	89	815	23
Food & Field Crops	225	3,005	15						
Field Crops							108	2,378	13
Forage Feed & Food				878	2,103	24			
Truck Crops	111	283	29						
Vegetables									
Citrus Crops				116	744	29			
Fruit	42	2,006	20				--	195	27
Veg. & Melon Products				1,889	3,739	19			
Cotton				909	7,792	10			
Other Agriculture	213	747	26	476	2,161	23	42	276	25
Forestry	589	1,053	24	757	1,281	27	590	1,294	21
Coal	2,360	2,988	16				66	74	28
Oil & Gas	235	262	30				9,571	10,912	4
Uranium	19,476	23,090	2	858	1,418	26	7,559	8,563	7
Uranium & Nonfuels									
Copper									
Zinc	4,087	4,723	10						
Other Mining	2,344	3,795	12	4,190	5,728	12	1,955	2,063	16
Food & Kindred Products	3,118	4,543	11	3,635	4,514	16	1,502	2,126	15

Table CRB-10d - Continued

Sub-Basin	Upper Main Stem			Lower Main Stem			San Juan		
	Wages & Salaries	Total Payments	Rank	Wages & Salaries	Total Payments	Rank	Wages & Salaries	Total Payments	Rank
Lumber & Wood	1,195	1,358	22	3,981	4,646	14	1,943	2,032	17
Furniture & Fixtures									
Paper & Pulp									
Printing & Publishing	1,014	1,197	23	2,841	3,672	21	889	979	22
Chemicals				4,113	4,394	17			
Chem, Petro, Coal Other Manufacturing									
Primary Metals									
Fabricated Metals	350	457	27	653	793	28			
Stone, Clay & Glass	328	354	28	4,317	4,540	15	318	400	24
Textiles & Apparel									
Leather & Leather Goods									
Other Manufacturing	2,731	3,373	14	6,386	7,392	11	1,941	2,167	14
Wholesale Trade	4,845	6,907	7	9,835	12,017	6	6,050	7,745	9
Service Stations	1,369	2,848	18	4,537	5,639	13	1,270	1,687	18
Eating & Drinking Places	3,043	3,684	13	9,205	10,039	8	2,203	2,551	12
Other Retail	13,577	20,885	4	35,353	41,621	5	10,285	14,312	3
Agricultural Services	1,103	1,895	21	2,742	4,389	18	139	227	26
Oil Field Services							8,417	9,201	6
Lodging	1,685	2,941	17	48,360	53,008	3	946	1,547	19
Other Services	5,245	6,626	8	59,341	72,645	2	4,738	7,100	10
Transportation	14,484	19,266	5	9,485	10,327	7	12,270	17,942	1
Electric Energy	2,141	2,613	19	2,834	3,684	20	1,222	1,294	20
Other Utilities	4,382	6,366	9	8,417	9,279	9	2,045	3,077	11
Contract Construction	15,688	21,864	3	43,149	48,918	4	8,334	9,489	5
Rentals & Finance	8,918	26,790	1	8,837	74,944	1	6,636	15,011	2

Table CRB-10e

Processing Sector Industries for each of the Six Colorado River Sub-Basins Ranked by the Magnitude of the Total Dollar Production Directly and Indirectly Required by a Sub-Basin's Economy in 1960 to Sustain a One Dollar Increase in Deliveries to Final Demand by the Industry Named

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			5	1.426861								
Range Livestock	25	1.271416			16	1.217173	20	1.307723	20	1.205927	14	1.304454
Feeder Livestock	2	1.915450			2	1.814679	5	1.669837			1	2.302180
Dairy	6	1.792347			5	1.651037	3	1.743173	8	1.384646	8	1.447976
Food & Field Crops											17	1.273203
Field Crops									26	1.117048		
Forage Feed & Food	14	1.389355			10	1.302224	25	1.227023				
Truck Crops											5	1.606320
Vegetables	20	1.340530										
Citrus Crops	5	1.814381					1	2.072217				
Fruit									2	1.728007	6	1.598043
Veg. & Melon Products							2	2.032013				
Cotton	13	1.425902					16	1.316815				
"Other" Agriculture	8	1.635727			8	1.386239	15	1.352603	10	1.348210	3	1.646868
Forestry	36	1.061657	19	1.122644	25	1.105717	28	1.191575	28	1.060759	30	1.078687
Coal			17	1.137000	4	1.664711			22	1.174625	26	1.101203
Oil & Gas			21	1.083003	7	1.496498			27	1.087474	16	1.278260
Uranium	28	1.248968			3	1.795214	9	1.559151	3	1.521459	10	1.423997
Uranium & Nonfuels			8	1.352019								
Copper	30	1.217413										
Zinc											29	1.088175
"Other" Mining	11	1.487808			14	1.239706	17	1.314909	13	1.301252	25	1.103997
Food & Kindred Products	4	1.816380	1	1.927482	1	1.986005	10	1.544590	4	1.484184	2	1.756332

Table CRB-10e - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	19	1.353248	2	1.691665	9	1.379576	8	1.570118	5	1.421912	4	1.632865
Furniture & Fixtures	17	1.374402										
Paper & Pulp	3	1.845525										
Printing & Publishing	31	1.205948	20	1.111534	12	1.247036	29	1.125573	25	1.130807	27	1.090975
Chemicals	21	1.332912					12	1.487805				
Chem, Petrol., Coal Other Manufacturing			3	1.536308								
Primary Metals	1	2.084678										
Fabricated Metals	32	1.179777					24	1.228373			24	1.109868
Stone, Clay & Glass	9	1.571620	16	1.220302			11	1.508796	23	1.166999	9	1.444531
Textiles & Apparel	35	1.089611										
Leather & Leather Goods	10	1.514311										
"Other" Manufacturing	27	1.257354			23	1.119878	14	1.394310	15	1.298859	31	1.074521
Wholesale Trade	18	1.365833	15	1.255252	15	1.222058	18	1.311450	18	1.267382	19	1.228951
Service Stations	23	1.323732	10	1.332641	21	1.146977	22	1.270972	11	1.346821	21	1.180045
Eating & Drinking Places	12	1.482858	4	1.431365	13	1.240058	6	1.634003	14	1.301057	11	1.389597
"Other" Retail	29	1.245223	12	1.317213	18	1.202061	19	1.309284	12	1.320125	12	1.313331
Agricultural Services	24	1.299681					7	1.570722	7	1.388299	22	1.146885
Oil Field Services			22	1.028666					19	1.250132		
Lodging	16	1.375973	13	1.300123	24	1.119712	23	1.234207	16	1.294173	13	1.306249
"Other" Services	26	1.267591	7	1.380080	22	1.129948	26	1.206558	21	1.180755	20	1.196043
Transportation	15	1.376017	9	1.342553	11	1.286316	27	1.200331	17	1.279205	18	1.272663
Electric Energy	22	1.323990	6	1.402319	20	1.171702	13	1.483990	6	1.403760	15	1.297252
"Other" Utilities	33	1.177101	11	1.318674	17	1.203026	21	1.272228	9	1.358946	23	1.120425
Contract Construction	7	1.688948	14	1.289760	6	1.521729	4	1.737509	1	1.799126	7	1.570377
Rentals & Finance	34	1.141217	18	1.129237	19	1.179555	30	1.106150	24	1.161037	28	1.089291

Table CRB-10f

1960

Number of Processing Sector Industries Responding in Amounts of At Least
\$0.01 per Dollar of Sales to Final Demand by the Industries Listed Below
For the Six Colorado River Sub-Basins

	Gila	Green	Little Colorado	Lower Main Stem	San Juan	Upper Main Stem
Agriculture		8				
Range Livestock	4		5	6	5	7
Feeder Livestock	9		6	10		13
Dairy	10		7	10	7	11
Food & Field Crops	11					8
Field Crops					3	
Forage Feed & Food			5	7		
Truck Crops						6
Vegetables	7					
Citrus Crops	12			12		
Fruit					8	6
Veg. & Melon Products				11		
Cotton	8			8		
"Other" Agriculture	16		8	8	10	12
Forestry	2	4	3	4	2	3
Coal		3	7		3	4
Oil & Gas		2	5		2	8
Uranium	8		5	7	2	3
Uranium & Nonfuels		4				
Copper	6					
Zinc						2
"Other" Mining	13		8	9	5	5
Food & Kindred Products	13	8	10	11	11	15

Table CRB-10f - Continued

Number of Processing Sector Industries Responding in Amounts of At Least
\$0.01 per Dollar of Sales to Final Demand by the Industries Listed Below
For the Six Colorado River Sub-Basins

	Gila	Green	Little Colorado	Lower Main Stem	San Juan	Upper Main Stem
Lumber & Wood	9	9	4	7	5	7
Furniture & Fixtures	10					
Paper & Pulp	9					
Printing & Publishing	8	3	6	4	4	3
Chemicals	6			9		
Chem, Petrol., Coal Other Manufacturing		4				
Primary Metals	11					
Fabricated Metals	7			6		3
Stone, Clay & Glass	8	4		8	5	6
Textiles & Apparel	3					
Leather & Leather Goods	12					
"Other" Manufacturing	3		4	8	6	3
Wholesale Trade	8	6	5	5	5	5
Service Stations	9	8	4	8	7	6
Eating & Drinking Places	12	9	7	12	8	11
"Other" Retail	8	7	4	6	6	8
Agricultural Services	8			8	8	5
Oil Field Services		0			6	
Lodging	11	7	3	6	7	6
"Other" Services	11	7	7	7	5	4
Transportation	9	7	3	8	6	5
Electric Energy	3	4	0	7	6	4
"Other" Utilities	7	4	8	8	3	2
Contract Construction	10	5	4	9	11	6
Rentals & Finance	2	3	2	1	2	2

Projection Technique

We are striving for long-range consistent projections for the Colorado River Basin in addition to a model of the region's structural interdependence in the base year -- 1960. It is true, of course, that the quality of any attempt to forecast the future structure of a region's economy through the input-output technique will be no better than the independently determined estimates of final demand used and the validity of the input coefficients. Nevertheless, we believe that the automatic internal consistency feature of input-output analysis will impose useful limits on the range of our forecasts of final demand, assuming that we have knowledge of factor productivity and of resource constraints within the region. As Evans & Hoffenberg have noted,

. . . a reasonable structural relationship that accounts directly and positively for demand should give sensible results regardless of the values of the independent variables in the estimating equation. A regression relationship based on historical data, on the contrary, may in some instances yield estimates that contradict physical possibilities. The degree to which past variation is "explained" by the equation as judged by the coefficient of correlation, is not evidence in determining whether a representation of the underlying structural situation has been obtained.²⁸

This advantage of input-output technique is especially valuable in our study since one of our major tasks will be to determine the feasibility of alternative growth patterns in the Colorado Basin in terms of anticipated resource availability -- particularly water. Thus, once the water requirements, both quantitative and qualitative, which match alternative demand structures have been ascertained, we should be able to render a judgment on the ability of the region to sustain a particular development path.

Naturally, we have been very concerned with changes that might reasonably be expected to occur in the 1960 coefficient table. Our experience here has given us a new appreciation of the observation by

²⁸ Evans and Hoffenberg, op. cit., pp. 53-123, especially p. 112.

Evans & Hoffenberg that "The future is not always seen as through a glass, darkly, but sometimes as through a brick wall." ²⁹ Whenever input-output analysis is used as a forecasting device, regardless of the geographical area involved, attention must be paid to anticipated changes in relative prices and in technology which would influence the technical input coefficients. In regional input-output analysis however, even more attention must be directed to the influences of changing trade patterns on the region's input coefficients. The high degree of specialization found in regions of the country make such changes in trade patterns a potential threat to the stability of technical coefficients. Even if similar technology were assumed for all parts of the country, questions of interregional trade patterns and sector composition would somehow have to be handled in any effort to project through the use of input-output analysis. Here one is thrown back upon heavy reliance on location theory and analysis.

That this is not simply a theoretical difficulty is indicated by our own experience thus far in the Colorado River Basin. A group of private utility firms in the Southwest known as WEST Associates has built a huge electric generating facility near the coal pits in the four corners area of Southeastern Utah and Northwestern New Mexico. While, of course, electric generating facilities already exist in the Colorado River Basin there are none which match the sheer size of this facility. Economies of scale are to be expected and the pure technical coefficients probably differ from those presently observed in other electric generating operations in the region. The new generating facility has also caused a significant change in the balance between electric power generated from steam as opposed to hydro sources, with an inevitable change in coefficients for the electric utility sector.

Another threat to the stability of our projections is provided by recurring rumors of the imminent development of shale oil operations on

²⁹ Op. cit., p. 104.

the Western slope of the Rockies in portions of the Upper Main Stem and Green Sub-Basins. Throwing caution to the wind we have developed a separate row and column for a hypothetical oil shale industry (See appendix D). This does not reflect a conviction that such an industry will exist in a significant sense by 1980 or even 2010. Since its development would significantly influence portions of the CRB economy, however, we felt an obligation to conduct the exercise as a first approximation illustration.

We are fully cognizant of these difficulties and have attempted to do what we could to anticipate them. For example, a detailed location analysis has been completed which considers population trends, regional factor endowments, and transportation costs in an effort to determine the probable appearance in the Colorado River Basin in the next fifty years of industries which are not presently represented. It appears as Appendix C to this report.

The Influence of Changes in Technology on Direct Input Coefficients³⁰

We have developed a method to correct the input coefficients for technological change.³¹ The input coefficients in the 1960 tables represent averages based on the sample establishments included in the various sub-basin surveys. Within each industry and sector, however, there are variations around these averages, and to a large extent the different

³⁰This section is based largely on William H. Miernyk's excellent unpublished report "Illustrative Interindustry Projections of the Lower Sub-Basin Economies to 1965, 1980 and 2010," Bureau of Economic Research, University of Colorado, November 23, 1964, pp. 10-15.

³¹The general outline of this technique for adjusting input coefficients was suggested by Professor Wassily Leontief of Harvard University. The procedure is a simplified version of methods used by others for projecting technical coefficients for specific industries. See, for example, Anne P. Carter, "Incremental Flow Coefficients for a Dynamic Input-Output Model with Changing Technology," in Tibor Barna (ed.), Structural Interdependence and Economic Development (New York: St. Martin's Press, 1963), pp. 277-302; and Per Sevaldson, "Changes in Input-Output Coefficients," ibid., pp. 303-328.

input patterns are the result of variations in productivity among the establishments in each industry and sector. These variations in productivity in turn are primarily a function of the combinations of capital and labor in the sample establishments.

The measurement of productivity is not a simple process. The following formulas were used to estimate productivity in the sample establishments:

$$(1) \quad P = \frac{O}{(L)} ,$$

and

$$(2) \quad P' = \frac{O}{(C)+(L)}$$

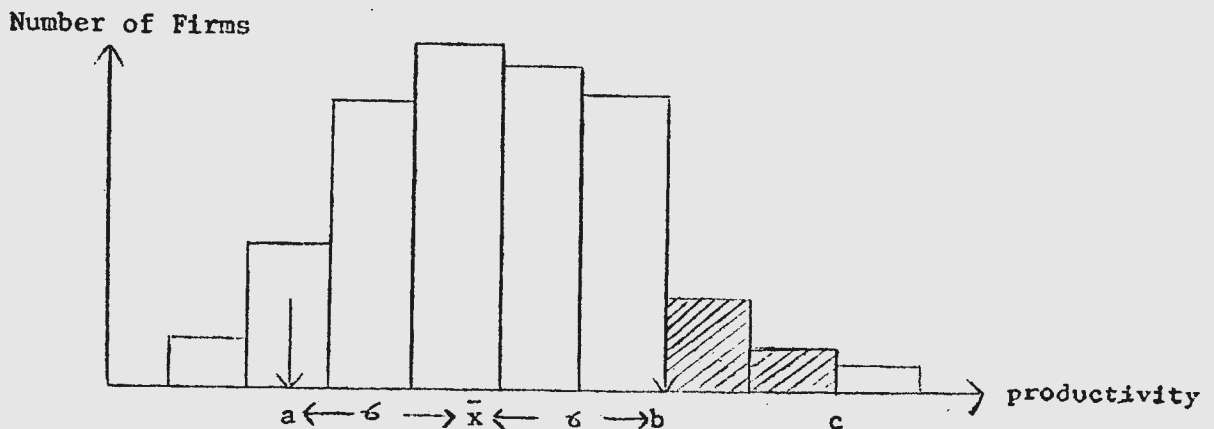
where P and P' equal "productivity," O is the gross output of the establishment measured in dollars, C represents capital inputs, and L represents labor inputs. Ideally, the labor inputs would be measured in terms of man-hours or man-years. Data were not available on this basis, however, and in our computations L measures the annual average number of production workers in each establishment. Also, ideally C should measure the stock of capital in the establishment in 1960. Since this figure could not be obtained for each establishment, that year's depreciation allowance was used as a substitute. In effect, the depreciation allowance was used to weight the labor input to give an approximation of output per unit of capital plus labor inputs. This is admittedly a rough measure, but it would have been useless to employ a more refined formula given the data limitations.

The use of two formulas to estimate "productivity" requires an explanation. It has long been customary to measure productivity in terms of labor inputs, and this practice has been followed in the present study by using formula (1) above. It is possible, however, for two establishments in the same industry to produce the same number of units of output in a given time period, and yet have widely different labor inputs. If this occurs, examination will generally reveal that the establishment with

smaller labor inputs has correspondingly higher capital inputs. For this reason, a second measure of productivity -- the one represented by formula (2) -- was also computed for each industry and sector.³² The two productivity indexes computed for sample establishments in the lower sub-basins were used to identify the more "advanced" establishments in each industry and sector. In general, it was assumed that the establishments with the highest capital/output ratios fell in this category. Thus primary reliance was on the measures computed by formula (2). The measures computed by (1) were used largely as a check to help spot unusual sample establishments in each industry or sector.

If we assume for the moment that there are a large number of establishments in each industry and sector surveyed, a frequency distribution of P's might look something like Figure 8.

Figure 8



³² For a detailed discussion of the two types of productivity measure see Solomon Fabricant, Basic Facts on Productivity Change (New York: National Bureau of Economic Research, Inc., Occasional Paper 63, 1959), pp. 3-13; and John W. Kendrick, Productivity Trends in the United States (Princeton: Princeton University Press, 1961), Chapters 1 and 2.

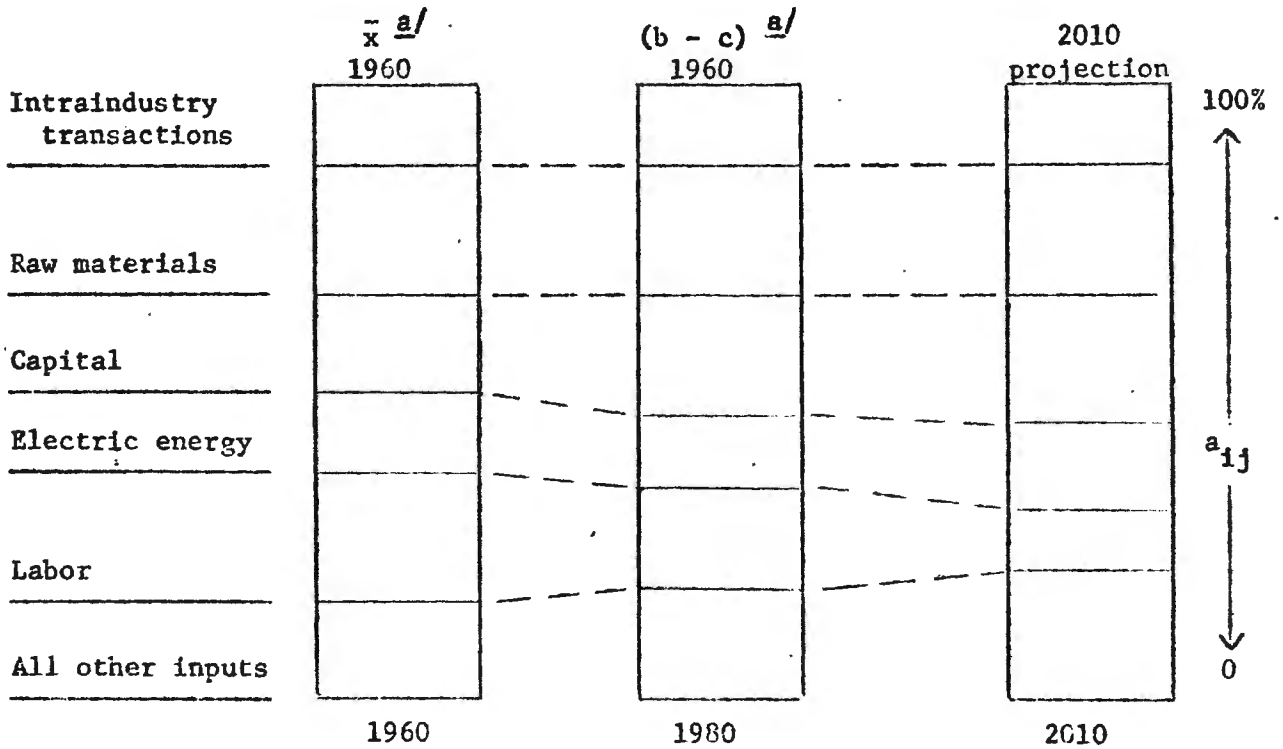
The \bar{x} represents the mean, and the interval a to b represents the mean plus or minus one standard deviation. In a normal distribution this would include about 68 percent of the firms. In this study the direct input requirements (referred to as a_{ij} 's) are approximately representative of the firms with average productivity, or \bar{x} in this distribution.

Consider the firms in the shaded interval (b - c) of Figure 8. These are establishments with relatively high levels of productivity. In general, although this is not necessarily true, these will be newer firms with more advanced equipment than those in the interval (a - b). They will also be "better managed" than those which fall in the range of the mean plus or minus one standard deviation. Let us assume that the firms in the interval (b - c) are about twenty years "newer" on the average than those which fall in the interval (a - b). We can make the further assumption that competitive pressures will force the firms in the interval (a - b) to try to emulate those in the interval (b - c), and that new firms coming into the industry will more closely resemble the newer firms than those in the interval (a - b). That is, we are assuming that there will be steady improvement in industry-wide productivity. If these assumptions are at all realistic the "average" firm in 1980 will roughly approximate the "superior" firms in 1960, and we can estimate the average input coefficients for 1980 from those of the establishments in the interval (b - c) in 1960. From these a new table of a_{ij} 's can be constructed and used to make the 1980 projections. The input coefficients can then be extrapolated to 2010. This procedure is illustrated by the hypothetical example of Figure 9.

For purposes of this illustration, assume that intraindustry transactions and the raw material coefficient in this industry remain unchanged. Assume, however, that there will be a substitution of capital for labor. The input coefficients for 1980 are the average coefficients for establishments in the 1960 interval (b - c) in Figure 8. If we

Figure 9

INPUT COEFFICIENTS FOR A HYPOTHETICAL INDUSTRY
AS A PER CENT OF TOTAL INPUTS



^aBased on 1960 interview data. Figures at bottom of each column show years for which these input patterns were used.

assume that this substitution will continue, the changes can be projected to 2010 to give the input coefficients shown by the third bar of Figure 9. ³³

The question might be raised: Why select the firms in the interval (b - c) of Figure 8 ? Why not take the "best" firm to the right of c in this Figure?

The answer is that an effort is being made to project a "representative" firm in 1980, and this is not necessarily the "best" firm in 1960. The Office of Productivity and Technological Developments of the U.S. Department of Labor at one time considered using the "best" (i.e. highest-productivity) firm in its surveys in making national projections of technological change. Upon investigation, however, it was found that the "best" firm in many cases was often so atypical that it would be unsafe to use it for projection purposes. Such firms may be relatively small, family-owned operations, and the persons who run the firm are highly motivated. They do not necessarily have the latest equipment, and are not necessarily the "best" firm in the industry in a technological sense. Hence, a safer assumption is that average productivity in some future year will be more nearly approximated by that found in a small sample of "representative" superior firms in the base period.³⁴

Some Practical Considerations Involved in Applying the Simple Dynamic Model to the Sub-Basins

The simple model sketched above was based upon a number of assumptions, and few of these assumptions apply to this study. The major problem is that in only a few sectors -- and these are largely nonmanufacturing -- are there enough establishments in the sample to provide a

³³Such projections must be made cautiously rather than mechanically and would not necessarily be the linear extrapolations suggested by Figure 9.

³⁴This paragraph is based on comments made by Mr. Leon Greenberg, Bureau of Labor Statistics, at the Conference on Manpower Projections held at the Brookings Institution, Washington, D.C., June 25-26, 1964.

frequency distribution which even begins to approximate that sketched in Figure 8 . In the cases where there are enough establishments in the sample -- say twenty or more -- variations similar to those assumed in the model were found. Unfortunately, even in these cases not all of the questionnaires were complete enough to permit the mechanical calculation of new "average" coefficients for 1980. Some approximation was required, and here it became necessary to rely upon the extrapolation of national productivity trends to round out the picture. Also, there is no way of knowing even in these cases whether the superior establishments in the sample are "twenty years ahead of the times" when compared with the average establishments in 1960.³⁵ In spite of these problems, it appears that the best estimates of a_{ij} 's for 1980 will be those computed from a small sample of superior establishments operating in 1960.

The problem is even more acute in the case of other sectors where our survey was limited to a small number of firms. Equally wide variations in "productivity" were found in these sectors, but it required discussion with the individual interviewers in most cases before a decision could be made about using one or two of the superior firms in 1960 as prototypes of the "average" firm in 1980. Again it was necessary to supplement the survey data with projections of national trends to estimate the input coefficients for these industries and sectors in 1980. The problem of extrapolation to 2010 was also a serious one, but if one assumes that "reasonable" input coefficients were projected to 1980 the latter problem may be viewed as manageable.

³⁵ For recent discussions of the time lag in the adoption of best-practice techniques, see W. E. G. Salter, Productivity and Technical Change (Cambridge: Cambridge University Press, Second Edition, 1966), Part I; Frank Lynn, "An Investigation of the Rate of Development and Diffusion of Technology in our Modern Industrial Society," pp. II-27-44, and Edwin Mansfield, "Technological Change: Measurement, Determinants, and Diffusion," pp. II-93-132, both in The Employment Impact of Technological Change, Appendix Volume II of Studies prepared for the National Commission on Technology, Automation, and Economic Progress (Washington: Government Printing Office, February 1966).

A note on the effect of price changes on direct input coefficients may be in order at this point. Future changes in the prices of productive factors may have a significant effect on the selection of alternative techniques of production. It should be noted, however, that relative rather than absolute price changes are the important consideration in questions of factor substitution. If one assumes that such relative changes in factor prices operate as an effective goad to technological change, then long-run adjustment of the a_{ij} 's to reflect technical change will also incorporate, to some extent, anticipated changes in relative prices.

The following tables (1980 and 2010 sub-basin tables a through c) contain the results of our initial round of unconstrained projections for the years 1980 and 2010 by sub-basin. The term "unconstrained" here refers to the assumption that neither water quantity nor quality considerations will be exerting a greater influence upon the region's ability to produce than they were in 1960.

Tables CRB-11, a-e and CRB-12, a-e show the magnitude and rank of processing sector industries for each of the sub-basins in 1980 and 2010 when measured by: Total Gross Output, Sales to Final Demand, Sales to Final Demand as a Percent of Total Gross Output, Direct and Indirect Requirements per Dollar of Sales, and Number of Processing Sector Industries Showing a Response of \$0.01 per Dollar of Sales to Final Demand via Business with other Industries.

Tables CRB-13, a-b are summations by processing sector industries showing Total Gross Output and Sales to Final Demand in 1960, 1980 and 2010 for the entire Colorado River Basin.

Tables CRB-14, a and b compare the absolute magnitude of the differences between the coefficients in the base year and the target years.

Industry		Industry Purchasing																																	
Producing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Products	Citrus Crops	Forestry	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output		
Agriculture	1. Range Livestock	787	4,550	0	0	0	0	0	0	0	0	0	473	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,217	8,026	1.		
	2. Feeder Livestock	0	0	0	0	0	73	0	0	0	0	0	1,995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,541	32,609	2.	
	3. Dairy	0	0	89	62	0	0	0	0	0	0	0	4,253	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	4,435	3.	
	4. Forage, Feed & Food Crops	353	5,362	1,282	41	0	0	0	218	0	0	0	2,730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,667	20,653	4.	
	5. Cotton	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,360	24,553	5.	
	6. Vegetable and Melon Products	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,169	0	0	0	0	0	0	0	73,194	73,267	6.	
	7. Citrus Crops	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,611	21,633	7.	
	8. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	3,979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,979	8.
	9. All Other Agriculture	0	455	0	0	0	0	0	0	19	0	0	3,255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,754	9,483	9.
Mining	10. Uranium	0	0	0	0	0	0	0	0	1,621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,754	9,483	9.		
	11. All Other Mining	0	0	0	0	0	0	324	0	0	64	73	0	0	8,915	0	0	9,100	7,579	0	0	0	0	0	0	0	1,910	0	0	0	0	3,694	5,315	10.	
	12. Food & Kindred Products	0	0	701	0	0	0	0	0	702	0	0	578	0	0	32	0	0	0	0	0	0	31,752	0	0	0	0	90	0	0	9,458	37,423	11.		
Manufacturing	13. Lumber & Wood Products	0	0	0	0	0	0	0	0	16	544	0	1,746	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	3,174	0	11,387	16,999	12.	
	14. Chemicals	0	0	0	1,508	1,817	3,150	736	0	76	11	36	0	0	42	0	0	2,097	0	0	0	0	0	0	0	0	0	0	0	0	0	33,175	42,647	14.	
	15. Printing & Publishing	0	0	0	0	0	0	0	0	0	5	109	158	17	42	221	15	42	46	507	876	794	12,269	116	2,188	5,502	174	90	132	529	2,289	5,818	31,937	15.	
	16. Fabricated Metals	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	227	0	0	0	0	0	0	0	0	0	0	174	0	0	912	7,672	16.		
	17. Stone, Clay & Glass	0	0	0	0	0	0	0	0	0	27	436	0	0	1,598	0	0	503	228	0	0	0	0	0	0	0	0	347	0	0	20,684	43,926	17.		
	18. All Other Manufacturing	48	0	0	0	0	0	0	0	9	0	254	0	0	757	316	0	0	228	0	0	0	0	0	0	0	0	0	0	0	46,804	48,597	18.		
	19. Wholesale Trade	72	32	31	289	295	440	195	32	28	16	544	105	101	168	63	61	84	365	1,182	375	8,203	1,704	2,142	10,065	18,951	1,736	1,441	2,499	11,110	458	114,463	177,251	19.	
	Trade	Retail	20. Service Stations	88	97	49	454	295	513	130	103	247	5	109	105	17	84	0	8	42	46	844	250	0	1,363	405	3,501	611	868	360	4,210	4,761	458	45,768	65,792
21. Eating & Drinking Places		0	0	0	0	0	0	0	0	0	0	36	0	0	42	0	0	42	46	338	125	0	0	0	3,063	611	1,215	180	0	529	458	127,182	133,868	21.	
Services	22. All Other Retail	361	32	53	991	614	2,271	324	44	398	37	181	210	218	84	158	99	294	1,013	876	1,455	1,022	405	3,501	6,113	1,736	1,441	1,316	4,232	1,831	354,837	386,470	22.		
	23. Agricultural Services	144	2,275	62	268	2,185	38,832	13,629	0	503	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57,898	23.	
	24. Lodging	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	46	338	63	0	0	341	0	0	2,083	0	0	0	458	437,000	440,364	24.		
Utilities	25. All Other Services (Except Professional)	0	0	27	21	25	0	22	4	9	43	218	1,365	504	715	253	220	671	1,187	9,793	1,252	6,483	14,314	1,100	13,566	25,065	2,257	2,342	8,551	4,761	5,036	539,105	638,904	25.	
	26. Transportation	112	812	137	62	74	1,905	173	52	9	112	1,198	735	201	2,018	822	212	713	913	16,884	4,130	1,720	5,453	15,922	0	9,170	9,549	2,161	2,105	5,819	3,662	86,784	173,622	26.	
	27. Electric Energy	8	130	49	207	98	440	195	0	76	69	1,415	578	336	1,219	411	121	2,516	1,689	4,221	2,190	1,852	14,996	347	7,002	10,393	2,431	3,963	921	2,116	2,289	29,194	91,471	27.	
	28. All Other Utilities	8	0	13	0	49	147	0	0	28	43	835	525	218	463	537	425	377	228	3,039	876	2,911	10,224	116	14,003	7,336	2,083	5,224	921	2,116	4,120	78,432	135,297	28.	
	29. Contract Construction	0	0	0	0	0	0	0	0	0	64	1,307	53	84	0	0	15	294	457	0	501	794	341	695	11,815	5,502	0	811	2,236	174,580	2,289	417,412	619,247	29.	
	30. Rentals & Finance	80	162	80	392	467	3,810	195	223	266	58	2,613	1,943	134	294	759	121	252	1,324	8,780	2,628	5,954	25,901	1,505	9,627	13,449	2,604	18,823	6,709	13,755	19,227	315,639	457,775	30.	
	31. Final Payments	5,965	18,702	1,862	16,650	18,609	21,613	5,688	3,521	6,895	3,113	27,479	35,013	9,444	26,206	28,365	6,148	26,899	33,895	130,312	51,650	71,950	298,542	30,976	362,033	536,201	144,455	54,365	105,565	365,314	415,200			31.	
	32. Total Gross Outlays	8,026	32,609	4,435	20,653	24,553	73,267	21,633	3,979	9,483	5,315	37,423	54,074	16,999	42,647	31,937	7,672	43,926	48,597	177,251	65,792	133,868	386,470	57,898	440,364	638,904	173,622	91,471	135,297	619,247	457,775			32.	

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

		Industry Purchasing																													
Industry Producing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Products	Citrus Crops	Forestry	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance
Agriculture	1. Range Livestock	.098	.140	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	2. Feeder Livestock	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	3. Dairy	.000	.000	.020	.003	.000	.000	.000	.000	.000	.000	.000	.081	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	4. Forage, Feed & Food Crops	.044	.165	.289	.002	.000	.000	.000	.000	.023	.000	.000	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	5. Cotton	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	6. Vegetable & Melon Products	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	7. Citrus Crops	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	8. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.237	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	9. All Other Agriculture	.000	.014	.000	.000	.000	.000	.000	.000	.002	.000	.000	.062	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Mining	10. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.305	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	11. All Other Mining	.000	.000	.000	.000	.000	.000	.015	.000	.012	.002	.000	.000	.212	.000	.000	.217	.166	.000	.000	.000	.000	.000	.000	.000	.011	.000	.000	.000	.000	
Manufacturing	12. Food & Kindred Products	.000	.000	.158	.000	.000	.000	.000	.074	.000	.000	.011	.000	.000	.001	.000	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000	.001	.000	.006	.000	
	13. Lumber & Wood Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.015	.000	.104	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	14. Chemicals	.000	.000	.000	.073	.074	.043	.034	.000	.008	.002	.001	.000	.000	.001	.000	.000	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	15. Printing & Publishing	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003	.003	.001	.001	.007	.002	.001	.001	.003	.014	.006	.000	.000	.000	.000	.001	.000	.000	.012	.000
	16. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.038	.000
	17. Stone, Clay & Glass	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.012	.000	.000	.038	.000	.000	.012	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	18. All Other Manufacturing	.006	.000	.000	.000	.000	.000	.000	.000	.001	.000	.007	.000	.000	.018	.010	.000	.000	.005	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000
	Trade	19. Wholesale Trade	.009	.001	.007	.014	.012	.006	.009	.008	.003	.003	.015	.002	.006	.004	.002	.008	.002	.008	.007	.006	.062	.005	.037	.023	.031	.010	.016	.019	.021
20. Service Stations		.011	.003	.011	.022	.012	.007	.006	.026	.026	.001	.003	.002	.001	.002	.000	.001	.001	.001	.005	.004	.000	.004	.007	.008	.001	.005	.004	.032	.009	.001
21. Eating & Drinking Places		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.001	.000	.000	.001	.001	.002	.002	.000	.000	.000	.007	.010	.007	.002	.000	.001	.001
22. All Other Retail		.045	.001	.012	.048	.025	.031	.015	.011	.042	.007	.005	.004	.013	.002	.005	.013	.007	.007	.006	.014	.011	.003	.007	.008	.010	.010	.016	.010	.008	.004
Services	23. Agricultural Services	.018	.070	.014	.013	.089	.530	.630	.000	.053	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.012	.000	.000	.000	.001
	24. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001	.002	.001	.000	.000	.000	.000	.012	.000	.000	.000	.000	.001
	25. All Other Services (Except Professional)	.000	.000	.006	.001	.001	.000	.001	.001	.001	.008	.006	.026	.030	.017	.008	.029	.016	.026	.058	.020	.049	.042	.019	.031	.041	.013	.026	.065	.009	.011
	26. Transportation	.014	.025	.031	.003	.003	.026	.008	.013	.001	.021	.033	.014	.012	.048	.026	.028	.017	.020	.100	.066	.013	.016	.275	.000	.015	.055	.024	.016	.011	.008
Utilities	27. Electric Energy	.001	.004	.011	.010	.004	.006	.009	.000	.008	.013	.039	.011	.020	.029	.013	.016	.060	.037	.025	.035	.014	.044	.006	.016	.017	.014	.044	.007	.004	.005
	28. All Other Utilities	.001	.000	.003	.000	.002	.002	.000	.000	.003	.008	.023	.010	.013	.011	.017	.056	.009	.005	.018	.014	.022	.030	.002	.032	.012	.012	.058	.007	.004	.009
	29. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.036	.001	.005	.000	.000	.002	.007	.010	.000	.008	.006	.001	.012	.027	.009	.000	.009	.017	.330	.005
	30. Rentals & Finance	.010	.005	.018	.019	.019	.052	.009	.056	.028	.011	.072	.037	.008	.007	.024	.016	.006	.029	.052	.042	.045	.076	.026	.022	.022	.015	.209	.051	.026	.042

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

DIRECT PURCHASES PER DOLLAR OF OUTPUT
LOWER MAIN-STEM SUB-BASIN 1980
Table IMS-1980-b

Industry Purchasing		Industry Producing																														
		1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetable & Melon Products	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	11 All Other Mining	12 Food & Kindred Products	13 Lumber & Wood Products	14 Chemicals	15 Printing & Publishing	16 Fabricated Metals	17 Stone, Clay & Glass	18 All Other Manufac- uring	19 Wholesale Trade	20 Service Stations	21 Eating & Drinking Places	22 All Other Retail	23 Agricultural Services	24 Lodging	25 All Other Services (Except Pro- fessional)	26 Transporta- tion	27 Electric Energy	28 All Other Utilities	29 Contract Construction	30 Rentals & Finance	
Agriculture	1. Range Livestock	1.108649	.000004	.000159	.048931	.001494	.000000	.000000	.000012	.000007	.000000	.002282	.000107	.000052	.003704	.002436	.000044	.000309	.006806	.012693	.014134	.000298	.053508	.020728	.000446	.005283	.026864	.006295	.004361	.001294	.021372	1.
	2. Feeder Livestock	.155231	1.000049	.000635	.172759	.005498	.000000	.000000	.000019	.014109	.000000	.003780	.001289	.000081	.013186	.001257	.000084	.000756	.001248	.009139	.010150	.000494	.018774	.076289	.000732	.005171	.055034	.009990	.003057	.002207	.019230	2.
	3. Dairy	.002640	.006320	1.035102	.309811	.001419	.000000	.000000	.000029	.010420	.000000	.005751	.166306	.000122	.022890	.002494	.000080	.001144	.000551	.015008	.020078	.000562	.030588	.019687	.000728	.017376	.049742	.022274	.009367	.002353	.044398	3.
	4. Forage, Feed & Food Crops	.000010	.000023	.003121	1.002945	.000949	.000000	.000000	.000071	.000038	.000000	.016744	.000613	.000301	.073534	.002629	.000046	.003161	.001511	.016556	.023170	.000374	.049900	.013170	.000359	.008044	.016817	.018033	.005150	.002290	.032903	4.
	5. Cotton	.000002	.000005	.000011	.000011	1.007463	.000000	.000000	.000076	.000009	.000000	.017281	.000136	.000320	.074811	.001855	.000082	.003306	.001516	.017430	.013694	.000495	.027354	.089665	.000582	.008622	.037959	.011224	.006404	.003493	.031817	5.
	6. Vegetable & Melon Products	.000162	.001018	.000037	.000210	.038489	1.001001	.000000	.000072	.000041	.000000	.012691	.000438	.000305	.046105	.003753	.000348	.002787	.001000	.030701	.013336	.001674	.039473	.534036	.002527	.020624	.192804	.018939	.010658	.012067	.085104	6.
	7. Citrus Crops	.000007	.000017	.000038	.000039	.045745	.000000	1.001001	.000128	.000029	.000000	.026028	.000456	.000541	.037622	.003290	.000386	.002729	.000942	.037863	.013105	.001737	.024394	.634706	.002624	.023040	.203314	.022482	.008747	.014292	.044112	7.
	8. Forestry	.000001	.000003	.000006	.000006	.000000	.000000	.000000	1.000003	.000004	.000000	.000213	.000070	.000012	.000004	.001209	.000030	.000075	.000019	.008762	.026434	.000267	.012001	.000001	.000328	.003845	.017475	.002458	.001908	.000959	.062139	8.
	9. All Other Agriculture	.001214	.002905	.006410	.029576	.003921	.000000	.000000	.000017	1.006794	.000000	.002846	.076456	.000073	.010547	.002820	.000056	.000593	.001288	.007307	.028377	.000343	.046122	.054409	.000424	.009429	.023803	.014806	.007826	.002553	.044706	9.
Mining	10. Uranium	.000002	.000005	.000011	.000011	.000000	.000000	.001271	.000008	1.438849	.020372	.000132	.005365	.003343	.002423	.003353	.008817	.000275	.007049	.002720	.000427	.011898	.000001	.000510	.016426	.036092	.023307	.015394	.028215	.027472	10.	
Manufacturing	11. All Other Mining	.000007	.000017	.000038	.000039	.000000	.000000	.004094	.000029	.000000	1.007220	.000457	.017275	.001743	.004306	.000747	.014611	.007253	.019143	.005279	.001641	.008156	.000004	.001663	.014525	.041989	.045709	.029044	.056906	.092634	11.	
	12. Food & Kindred Products	.016347	.039128	.085374	.087051	.000637	.000000	.000017	.064518	.000000	.001930	1.029695	.000070	.006951	.004427	.000069	.000475	.000382	.006799	.007869	.000348	.014385	.008836	.000404	.032635	.026020	.017415	.013981	.003372	.053609	12.	
	13. Lumber & Wood Products	.000002	.000004	.000009	.000010	.000000	.000000	.000000	.264531	.000007	.000000	.000358	.000113	1.116166	.000023	.002606	.000148	.000440	.000082	.011559	.009138	.000338	.019150	.000001	.000353	.039749	.022135	.026359	.018267	.010128	.035718	13.
	14. Chemicals	.000008	.000020	.000044	.000045	.000000	.000000	.000000	.000927	.000033	.000000	.226309	.000532	.003912	1.003340	.002673	.000250	.042141	.019862	.010912	.004281	.001952	.005960	.000005	.001089	.025935	.064233	.045806	.021658	.014860	.039907	14.
	15. Printing & Publishing	.000018	.000043	.000094	.000096	.000001	.000000	.000000	.000016	.000071	.000000	.002066	.001130	.000066	.000019	1.007656	.000048	.000192	.010174	.003566	.000962	.000309	.006194	.000010	.000416	.011785	.029792	.015596	.019360	.001403	.031720	15.
	16. Fabricated Metals	.000002	.000005	.000010	.000010	.000000	.000000	.000000	.000027	.000008	.000000	.000466	.000121	.000115	.000016	.003342	1.031035	.000299	.000078	.011655	.003509	.000392	.015433	.000001	.000490	.038277	.034886	.020319	.061324	.005753	.028670	16.
	17. Stone, Clay & Glass	.000008	.000020	.000044	.000045	.000000	.000000	.000000	.000971	.000033	.000000	.233059	.000534	.004097	.051189	.000352	1.018014	.002751	.009450	.003446	.001828	.011113	.000005	.000725	.025659	.034166	.077585	.021730	.025618	.046093	17.	
	18. All Other Manufacturing	.000007	.000018	.000039	.000039	.000000	.000000	.000000	.000719	.000029	.000000	.169664	.000467	.003032	.000586	.002737	.000358	.008253	1.006356	.013993	.002826	.001673	.010242	.000004	.001663	.033779	.032247	.049106	.014188	.026290	.058709	18.
Trade	19. Wholesale Trade	.000012	.000030	.000065	.000067	.000000	.000000	.000016	.000049	.000000	.001321	.000787	.000067	.000024	.004640	.000148	.000348	.000118	1.011716	.006751	.003037	.009095	.000007	.003438	.066815	.110779	.030733	.023585	.002753	.067719	19.	
	20. Service Stations	.000012	.000028	.000061	.000062	.000000	.000000	.000031	.000046	.000000	.001024	.000736	.000133	.000041	.015526	.000250	.000706	.000245	.009400	1.005530	.002747	.016533	.000006	.001995	.026880	.074487	.040295	.019459	.014038	.058590	20.	
	21. Eating & Drinking Places	.003926	.009396	.020502	.020904	.000153	.000000	.000030	.015493	.000000	.000857	.247272	.000128	.001694	.008734	.000180	.000600	.000211	.067419	.003554	1.000558	.016702	.002122	.000589	.067091	.030071	.023350	.030020	.012033	.072448	21.	
	22. All Other Retail	.000003	.000008	.000017	.000017	.000000	.000000	.000018	.000013	.000000	.000386	.000201	.000078	.000013	.037632	.000081	.000232	.000480	.008728	.005756	.000450	1.005669	.000002	.001401	.050336	.022958	.049338	.035998	.004630	.095882	22.	
Services	23. Agricultural Services	.000010	.000023	.000050	.000051	.072538	.000000	.000053	.000038	.000000	.004868	.000606	.000224	.005464	.003684	.000555	.001640	.000200	.043697	.010405	.002375	.013414	1.006461	.003771	.029727	.030098	.014718	.009310	.019784	.043038	23.	
	24. Lodging	.000029	.000069	.000151	.000154	.000001	.000000	.000079	.000114	.000000	.000472	.001826	.000332	.000096	.006313	.000533	.001659	.000109	.026997	.009948	.007280	.010108	.000016	1.000189	.039005	.006633	.020052	.035726	.042516	.034749	24.	
	25. All Other Services (Except Professional)	.000006	.000014	.000031	.000031	.000000	.000000	.000030	.000023	.000000	.000415	.000371	.000126	.000035	.010318	.000210	.000634	.000150	.034139	.002154	.001371	.011810	.000003	.000383	1.048056	.022211	.021073	.015789	.015117	.033543	25.	
Utilities	26. Transportation	.000030	.000073	.000159	.000162	.000001	.000000	.000057	.000120	.000000	.012285	.001915	.000240	.000145	.002125	.001126	.002401	.000148	.013054	.006262	.007663	.011908	.000016	.012829	.018788	1.062229	.018339	.016077	.002472	.025676	26.	
	27. Electric Energy	.000028	.000067	.000145	.000148	.000001	.000000	.000050	.000110	.000000	.000918	.001753	.000212	.000053	.003639	.000262	.000799	.002157	.020759	.007158	.002700	.019695	.000015	.000717	.038921	.033966	1.051038	.065797	.018351	.238188	27.	
	28. All Other Utilities	.000002	.000005	.000011	.000011	.000000	.000000	.000034	.000008	.000000	.000538	.000134	.001323	.000058	.003062	.000369	.001126	.000060	.023050	.033225	.000478	.012457	.000001	.000451	.072950	.024580	.012088	1.011022	.027757	.063170	28.	
	29. Contract Construction	.000008	.000019	.000042	.000042	.000000	.000000	.000043	.000031	.000000	.000000	.013518	.000501	.010253	.002912	.003001	.018526	.057845	.000207	.033916	.014569	.001954	.014361	.000004	.000474	.021256	.026078	.014335	.011314	1.495381	.050972	29.
	30. Rentals & Finance	.000005	.000011	.000025	.000025	.000000	.000000	.000017	.000019	.000000	.000000	.000204	.000302	.000072	.000020	.005653	.000115	.000349	.000072	.002222	.001602	.001170	.004816	.000003	.001180	.013671	.010153	.006476	.010581	.008457	1.047353	30.

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry Producing	Industry Purchasing																																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32				
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Products	Citrus Crops	Forestry	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output				
Agriculture	1. Range Livestock	789	4,726	0	0	0	0	0	0	0	0	1,645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,141	8,301	1.			
	2. Feeder Livestock	0	0	0	0	0	261	0	0	0	0	0	4,716	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,924	43,901	2.	
	3. Dairy	0	0	113	76	0	0	0	0	0	0	0	5,813	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	275	6,277	3.	
	4. Forage, Feed & Food Crops	340	7,045	1,770	102	0	0	0	0	400	0	0	6,032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,755	25,444	4.
	5. Cotton	0	0	0	0	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26,366	33,896	5.	
	6. Vegetable and Melon Products	0	0	0	0	0	261	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,462	0	0	0	0	0	0	0	0	0	130,024	130,285	6.	
	7. Citrus Crops	0	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37,607	37,645	7.	
	8. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,534	4,534	8.
	9. All Other Agriculture	0	569	0	0	0	0	0	0	57	0	0	7,129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,522	14,277	9.
Mining	10. Uranium	0	0	0	0	0	0	0	0	0	2,213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,926	7,139	10.	
	11. All Other Mining	0	0	0	0	0	0	715	0	0	100	183	0	0	14,777	0	0	18,295	11,504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,044	62,445	11.
Manufacturing	12. Food & Kindred Products	83	0	1,017	0	0	0	0	1,114	0	0	1,535	0	0	89	0	0	0	0	0	0	76,393	0	0	0	4,827	0	0	0	0	0	0	31,688	112,142	12.		
	13. Lumber & Wood Products	0	0	0	0	0	0	0	0	36	1,098	0	2,080	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,831	19,791	13.		
	14. Chemicals	0	0	0	2,519	2,678	8,990	1,468	0	186	36	122	0	20	134	0	0	4,845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46,709	67,706	14.		
	15. Printing & Publishing	0	0	0	0	0	0	0	0	0	14	366	548	20	67	709	32	84	68	2,213	3,115	2,228	33,590	204	6,216	16,951	402	446	378	1,052	8,077	12,558	89,340	15.			
	16. Fabricated Metals	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,417	16,031	16.		
	17. Stone, Clay & Glass	0	0	0	0	0	0	0	0	0	50	915	0	0	2,608	0	0	1,170	474	0	0	0	0	0	0	0	0	0	0	0	0	0	39,191	87,310	17.		
	18. All Other Manufacturing	0	0	0	0	0	0	0	0	29	0	793	0	0	1,337	1,064	0	84	541	0	0	0	0	0	0	0	0	669	0	0	0	0	67,384	71,900	18.		
Trade	19. Wholesale Trade	66	44	56	356	407	782	376	41	71	36	1,098	219	137	267	266	143	167	609	4,426	1,454	20,372	5,598	3,782	23,830	52,548	4,424	3,789	7,182	23,154	1,346	427,656	584,705	19.			
	20. Service Stations	91	131	69	509	407	912	264	131	414	14	244	329	20	134	0	16	84	68	3,320	831	0	3,732	716	8,289	1,695	2,413	891	12,096	9,472	1,346	171,063	219,700	20.			
	21. Eating & Drinking Places	0	0	0	0	0	0	0	0	0	0	122	110	20	67	0	0	167	68	1,107	415	0	3,732	716	8,289	1,695	2,816	669	0	1,052	1,346	304,111	322,052	21.			
	22. All Other Retail	374	88	69	1,170	780	4,039	527	50	585	86	488	658	314	134	621	238	752	677	3,873	3,323	4,138	3,732	716	10,361	18,646	4,022	4,012	4,158	9,472	5,385	975,056	1,058,542	22.			
Services	23. Agricultural Services	183	3,194	100	483	3,118	69,702	23,829	0	828	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	783	102,222	23.			
	24. Lodging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	804,756	1,226,399	29.	
	25. All Other Services (Except Professional)	0	44	44	51	68	0	75	9	29	79	488	3,071	628	2,207	886	493	1,504	1,962	33,197	4,361	16,234	40,122	2,044	33,154	71,195	5,631	6,240	25,326	11,577	17,500	1,493,257	1,771,476	25.			
Utilities	26. Transportation	125	1,356	226	102	136	3,387	414	73	14	171	2,196	1,755	275	3,343	2,482	477	1,587	1,624	58,096	14,122	4,138	15,862	28,111	0	27,122	22,524	5,794	6,426	12,630	10,769	176,880	402,217	26.			
	27. Electric Energy	17	219	107	382	203	1,173	489	0	157	121	2,501	1,535	432	2,140	1,507	302	5,931	2,639	14,386	7,892	4,456	44,787	716	16,577	30,512	6,033	10,029	2,646	5,262	6,731	55,670	225,552	27.			
	28. All Other Utilities	8	0	31	0	102	261	0	0	71	71	1,525	1,316	255	869	1,596	922	1,086	474	9,959	3,115	7,321	29,858	204	34,191	20,341	4,827	12,926	2,646	4,210	12,115	239,125	389,426	28.			
	29. Contract Construction	0	0	0	0	0	0	0	0	0	100	2,379	219	98	0	0	32	668	677	0	1,661	2,228	933	1,227	30,046	16,951	0	2,229	6,804	347,313	8,077	804,756	1,226,399	29.			
	30. Rentals & Finance	108	394	138	611	780	7,296	527	267	443	114	4,515	4,277	196	802	2,216	318	752	2,030	29,324	8,723	14,642	74,645	2,658	22,794	38,988	7,240	47,247	19,656	28,417	57,884	968,149	1,346,151	30.			
	31. Final Payments	6,117	26,091	2,537	19,083	25,149	33,221	8,923	3,963	9,908	3,877	43,290	71,235	10,762	38,820	77,904	12,550	50,134	48,417	423,697	170,480	169,902	804,750	54,382	848,863	1,474,832	331,025	130,388	301,730	709,640	1,214,229			31.			
32. Total Gross Outlays	8,301	43,901	6,277	25,444	33,896	130,285	37,645	4,534	14,277	7,139	62,445	112,142	19,791	67,706	89,340	16,031	87,310	71,900	584,705	219,700	322,052	1,058,542	102,222	1,042,610	1,771,476	402,217	225,552	389,426	1,226,399	1,346,151			32.				

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

INTERINDUSTRY TRANSACTIONS (IN THOUSANDS OF DOLLARS)
LOWER MAIN-STEM SUB-BASIN 2010
Table LMS-2010-a

Industry Producing		Industry Purchasing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
				Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Products	Citrus Crops	Forestry	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance							
Agriculture	1. Range Livestock	.095	.108	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.							
	2. Feeder Livestock	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.						
	3. Dairy	.000	.000	.018	.003	.000	.000	.000	.000	.000	.000	.000	.043	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.					
	4. Forage, Feed & Food Crops	.041	.161	.282	.004	.000	.000	.000	.000	.000	.028	.000	.000	.055	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.					
	5. Cotton	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.073	.000	.000	.000	.000	.000	.000	.000	5.					
	6. Vegetable & Melon Products	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.				
	7. Citrus Crops	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.				
	8. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.231	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.			
	9. All Other Agriculture	.000	.013	.000	.000	.000	.000	.000	.000	.004	.000	.000	.065	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.			
Mining	10. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.310	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.				
	11. All Other Mining	.000	.000	.000	.000	.000	.000	.019	.000	.000	.014	.003	.000	.000	.221	.000	.000	.219	.170	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	11.			
Manufacturing	12. Food & Kindred Products	.010	.000	.162	.000	.000	.000	.000	.000	.000	.078	.000	.014	.000	.000	.000	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	12.			
	13. Lumber & Wood Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.106	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	13.			
	14. Chemicals	.000	.000	.000	.099	.079	.069	.039	.000	.013	.005	.002	.000	.001	.002	.000	.000	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	14.		
	15. Printing & Publishing	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.006	.005	.001	.001	.008	.002	.001	.001	.004	.015	.007	.036	.002	.006	.010	.001	.001	.002	.001	.002	.001	.001	.001	.001	.001	.001	15.		
	16. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.032	.000	.014	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.013	.000	.000	16.		
	17. Stone, Clay & Glass	.000	.000	.000	.000	.000	.000	.000	.000	.000	.007	.015	.000	.000	.039	.000	.000	.014	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	17.		
	18. All Other Manufacturing	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.013	.000	.000	.020	.012	.000	.001	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	18.	
	Trade	19. Wholesale Trade	.008	.001	.009	.014	.012	.006	.010	.009	.005	.005	.018	.002	.007	.004	.003	.009	.002	.009	.008	.007	.064	.006	.037	.023	.031	.011	.017	.019	.022	.001	.001	.001	.001	.001	.001	19.		
20. Service Stations		.011	.003	.011	.020	.012	.007	.007	.029	.029	.002	.004	.003	.001	.002	.000	.001	.001	.001	.006	.004	.000	.004	.007	.008	.001	.006	.004	.032	.009	.001	.001	.001	.001	.001	.001	.001	20.		
21. Eating & Drinking Places		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.001	.001	.001	.000	.000	.002	.001	.002	.002	.000	.000	.000	.008	.001	.007	.003	.000	.001	.001	.001	.001	.001	.001	.001	.001	.001	21.	
Services	22. All Other Retail	.045	.002	.011	.046	.023	.031	.014	.011	.041	.012	.008	.006	.016	.002	.007	.015	.009	.010	.007	.016	.013	.004	.007	.010	.011	.010	.018	.011	.009	.004	.004	.004	.004	.004	.004	.004	22.		
	23. Agricultural Services	.022	.073	.016	.019	.092	.535	.633	.000	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	23.	
	24. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.001	.002	.001	.000	.001	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	24.
Utilities	25. All Other Services (Except Professional)	.000	.001	.007	.002	.002	.000	.002	.002	.002	.011	.008	.028	.032	.033	.010	.031	.018	.029	.060	.021	.051	.043	.020	.032	.042	.014	.028	.067	.011	.013	.011	.013	.011	.013	.011	.013	25.		
	26. Transportation	.015	.031	.036	.004	.004	.026	.011	.016	.001	.024	.036	.016	.014	.050	.028	.030	.019	.024	.105	.068	.013	.017	.275	.000	.016	.056	.026	.017	.012	.012	.012	.012	.012	.012	.012	.012	.012	26.	
	27. Electric Energy	.002	.005	.017	.015	.006	.009	.013	.000	.011	.017	.041	.014	.022	.032	.017	.019	.071	.039	.026	.038	.014	.048	.007	.016	.018	.015	.045	.007	.005	.005	.005	.005	.005	.005	.005	.005	.005	27.	
	28. All Other Utilities	.001	.000	.005	.000	.003	.002	.000	.000	.005	.010	.025	.012	.013	.013	.018	.058	.013	.007	.018	.015	.023	.032	.002	.033	.012	.012	.058	.007	.004	.004	.004	.004	.004	.004	.004	.004	.004	.004	28.
	29. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
30. Rentals & Finance	.013	.009	.022	.024	.023	.056	.014	.059	.031	.016	.074	.039	.010	.012	.025	.020	.009	.030	.053	.042	.046	.080	.026	.022	.023	.018	.212	.052	.027	.043	.043	.043	.043	.043	.043	.043	.043	.043	30.	

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing	Industry Producing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	27	28	29	30	
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Crops	Citrus Crops	Forestry	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	
Agriculture	1. Range Livestock	1.105222	.000494	.000762	.046447	.001862	.000000	.000000	.000011	.000756	.000000	.001522	.011488	.000047	.004787	.002604	.000050	.000332	.000174	.011898	.014125	.000343	.053462	.025461	.000478	.008090	.004799	.001434	.026261	1.
	2. Feeder Livestock	.119392	1.000108	.000647	.167273	.005861	.000000	.000000	.000028	.013218	.000000	.004894	.002521	.000123	.017297	.001386	.000099	.000993	.000496	.009171	.009514	.000590	.017836	.080129	.000836	.012701	.003559	.002557	.025652	2.
	3. Dairy	.003693	.007316	1.028436	.302229	.001728	.000000	.000000	.000046	.011199	.000000	.007935	.170147	.000201	.030371	.003129	.000106	.001584	.000875	.017863	.019852	.000888	.029624	.023621	.000859	.031994	.013005	.003386	.054349	3.
	4. Forage, Feed & Food Crops	.000015	.000029	.003106	1.004939	.001410	.000000	.000000	.000119	.000044	.000000	.023870	.000673	.000514	.100112	.002928	.000067	.004520	.002449	.017637	.021519	.000533	.048687	.019278	.000465	.025550	.006666	.003308	.042031	4.
	5. Cotton	.000003	.000007	.000009	.000013	1.008793	.000000	.000000	.000100	.000011	.000000	.019402	.000161	.000432	.080112	.002053	.000097	.003726	.001942	.018044	.013927	.000583	.025794	.092811	.000648	.014455	.008135	.004061	.038069	5.
	6. Vegetable & Melon Products	.000250	.002025	.000027	.000374	.039489	1.002004	.000000	.000119	.000058	.000000	.019720	.000486	.000514	.072720	.004204	.000381	.004124	.001856	.031906	.013860	.001826	.040171	.539869	.002624	.025156	.012119	.013164	.093756	6.
	7. Citrus Crops	.000011	.000022	.000027	.000040	.046662	.000000	1.001001	.000180	.000033	.000000	.032101	.000502	.000777	.043069	.003707	.000422	.003247	.001425	.039931	.014586	.001897	.024028	.637931	.002751	.028999	.009910	.015292	.053341	7.
	8. Forestry	.000002	.000004	.000004	.000007	.000000	.000000	.000000	1.000004	.000005	.000000	.000284	.000082	.000017	.000007	.001422	.000038	.000096	.000030	.009984	.029523	.000313	.012238	.000001	.000383	.002925	.002175	.001183	.065942	8.
Mining	9. All Other Agriculture	.001753	.003472	.004464	.034731	.004386	.000000	.000000	.000031	1.009331	.000000	.004742	.080746	.000134	.017005	.003301	.000073	.000954	.002541	.010200	.031882	.000518	.046155	.059968	.000490	.019849	.010956	.003355	.051271	9.
	10. Uranium	.000004	.000008	.000010	.000015	.000000	.000000	.000000	.002057	.000013	1.449275	.025506	.000192	.008907	.008047	.004615	.004991	.012461	.000661	.011120	.004675	.000626	.020202	.000002	.000659	.031689	.020121	.033852	.039900	10.
	11. All Other Mining	.000017	.000033	.000041	.000061	.000001	.000000	.000000	.004821	.000050	.000000	1.010585	.000760	.020872	.003112	.007875	.000887	.018222	.013571	.023176	.006677	.002838	.012127	.000008	.002766	.049824	.032218	.062425	.098240	11.
Manufacturing	12. Food & Kindred Products	.022343	.044262	.055807	.082621	.000745	.000000	.000000	.000026	.067753	.000000	.002628	1.029338	.000114	.009183	.006828	.000104	.000687	.000506	.007423	.008910	.001455	.016498	.010184	.000458	.022156	.016927	.005441	.058702	12.
	13. Lumber & Wood Products	.000009	.000018	.000022	.000033	.000000	.000000	.000000	.258417	.000027	.000000	.000717	.000413	1.118686	.001157	.002982	.000169	.000539	.000159	.013379	.009896	.001539	.022888	.000004	.000416	.029524	.018909	.010546	.040376	13.
	14. Chemicals	.000014	.000028	.000035	.000052	.000000	.000000	.000000	.001142	.000043	.000000	.237400	.000649	.004945	1.005070	.003931	.000306	.044383	.023624	.012988	.004906	.002398	.007683	.000006	.001418	.051807	.025634	.017478	.049852	14.
	15. Printing & Publishing	.000025	.000050	.000062	.000092	.000001	.000000	.000000	.000021	.000076	.000000	.002556	.001152	.000089	.000031	1.008908	.000058	.000266	.012301	.004960	.001118	.000376	.008565	.000011	.000464	.020376	.020955	.001789	.034740	15.
	16. Fabricated Metals	.000003	.000006	.000008	.000011	.000000	.000000	.000000	.000030	.000009	.000000	.000558	.000142	.000132	.000022	.003642	1.033181	.000340	.000125	.013108	.003714	.000461	.017942	.000001	.000539	.024167	.064050	.006237	.034892	16.
	17. Stone, Clay & Glass	.000020	.000039	.000050	.000073	.000001	.000000	.000000	.001173	.000060	.000000	.239103	.000914	.005077	.059859	.004171	.000437	1.021521	.005698	.011366	.004159	.003302	.014880	.000009	.001056	.091825	.028104	.029492	.055756	17.
	18. All Other Manufacturing	.000012	.000024	.000030	.000044	.000000	.000000	.000000	.000871	.000036	.000000	.175444	.000553	.003772	.001005	.003732	.000416	.011099	1.010601	.016291	.003301	.002003	.014459	.000005	.001937	.053141	.017495	.028035	.063160	18.
	Trade	19. Wholesale Trade	.000018	.000035	.000044	.000065	.000001	.000000	.000019	.000054	.000000	.001534	.000814	.000083	.000033	.005985	.000164	.000393	.000192	1.013159	.007963	.003135	.010509	.000008	.003521	.032478	.023994	.003198	.070365	19.
20. Service Stations		.000017	.000033	.000041	.000061	.000001	.000000	.000037	.000050	.000000	.001172	.000762	.000160	.000054	.016844	.000274	.000765	.000354	.010827	1.005725	.002833	.018945	.000008	.002039	.044095	.020976	.014437	.060566	20.	
21. Eating & Drinking Places		.005366	.010630	.013402	.019842	.000179	.000000	.000000	.000039	.016271	.000000	.001098	.247199	.000171	.002241	.010685	.000226	.000756	.000298	.069944	.003992	1.000867	.019586	.002446	.000625	.025115	.032045	.014397	.075895	21.
Services	22. All Other Retail	.000005	.000010	.000012	.000018	.000000	.000000	.000022	.000015	.000000	.000472	.000229	.000094	.000019	.038025	.000096	.000275	.000631	.010139	.005932	.000543	1.007183	.000002	.001436	.054145	.038555	.005227	.102112	22.	
	23. Agricultural Services	.000013	.000027	.000034	.000050	.073642	.000000	.000000	.000064	.000041	.000000	.005388	.000620	.000277	.005948	.003915	.000582	.001748	.000290	.044304	.010816	.002424	.013613	1.006781	.003795	.016692	.009695	.020106	.045299	23.
	24. Lodging	.000045	.000090	.000113	.000167	.000002	.000000	.000000	.000095	.000137	.000000	.000560	.002084	.000411	.000130	.007603	.000623	.001888	.000166	.027405	.010081	.008320	.012493	.000021	1.000202	.020609	.037026	.045820	.035775	24.
Utilities	25. All Other Services (Except Professional)	.000008	.000017	.000021	.000031	.000000	.000000	.000037	.000025	.000000	.000498	.000385	.000160	.000048	.011568	.000251	.000744	.000217	.034422	.002264	.001417	.013121	.000004	.000407	.022575	.016066	.016878	.035590	25.	
	26. Transportation	.000042	.000083	.000105	.000155	.000001	.000000	.000000	.000072	.000127	.000000	.013441	.001935	.000312	.000189	.002364	.001138	.002489	.000272	.014394	.007409	.007742	.012248	.000019	.012874	.019908	.016440	.002886	.029962	26.
	27. Electric Energy	.000044	.000087	.000110	.000163	.000001	.000000	.000000	.000060	.000133	.000000	.001230	.002027	.000261	.000076	.005209	.000316	.000958	.003266	.022289	.007312	.003800	.022223	.000020	.000768	1.052856	.066299	.020643	.243204	27.
	28. All Other Utilities	.000003	.000006	.000008	.000012	.000000	.000000	.000000	.000318	.000009	.000000	.000626	.000144	.001375	.000078	.003372	.000424	.001266	.000090	.023369	.033324	.000514	.013811	.000001	.000475	.012648	1.011268	.029579	.065046	28.
	29. Contract Construction	.000012	.000023	.000029	.000043	.000000	.000000	.000000	.002777	.000036	.000000	.014643	.000542	.012022	.003598	.003371	.020121	.061116	.000420	.035959	.014772	.002106	.016529	.000005	.000535	.017643	.012306	1.495990	.054677	29.
	30. Rentals & Finance	.000007	.000013	.000017	.000025	.000000	.000000	.000000	.000022	.000020	.000000	.000246	.000307	.000096	.000029	.006784	.000147	.000438	.000107	.002395	.001643	.001187	.004958	.000003	.001186	.006685	.010701	.010133	1.048789	30.

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

CT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
LOWER MAIN-STEM SUB-BASIN 2010
Table LMS-2010-c

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27			
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output			
Agriculture	1. Range Livestock	284	328	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,901	13,513	1.		
	2. Feeder Livestock	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	778	790	2.		
	3. Dairy	0	0	8	14	0	0	0	0	0	0	602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	638	3.	
	4. Forage, Feed & Food Crops	1,176	228	316	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	556	2,329	4.	
	5. Forestry	14	0	0	0	0	0	0	0	0	0	0	6,046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	6,078	5.	
	6. All Other Agriculture	0	0	0	0	0	2	0	0	0	0	330	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39	371	6.	
Mining	7. Coal	0	0	0	0	0	0	4	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	336	367	7.		
	8. Oil & Gas	0	0	0	0	0	0	0	309	0	0	0	0	0	922	0	0	0	0	0	0	0	0	0	0	0	0	0	1,230	8.	
	9. Uranium	0	0	0	0	0	0	0	0	65,671	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118,799	184,470	9.
	10. All Other Mining	0	0	0	0	0	0	3	0	0	0	0	0	0	490	0	0	0	0	0	0	0	0	0	0	0	0	5,036	5,528	10.	
Manufacturing	11. Food & Kindred Products	0	0	0	0	0	0	0	0	0	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,823	2,454	11.		
	12. Lumber & Wood Products	0	0	0	0	0	0	3	0	738	98	0	137	0	115	0	0	523	0	0	0	0	0	0	0	0	27,344	31,120	12.		
	13. Printing & Publishing	0	0	0	0	0	0	3	4	184	21	7	27	82	0	0	0	0	262	68	0	35	0	2,321	0	1,360	2,311	13.			
	14. All Other Manufacturing	122	0	8	72	255	11	10	28	2,214	88	17	165	9	58	32	17	0	275	16	169	0	35	0	78	1,360	2,311	13.			
Trade	15. Wholesale Trade	54	2	3	21	55	5	1	5	184	21	2	27	2	0	189	118	244	138	16	304	6,943	140	741	967	0	17,215	30,073	14.		
	16. Service Stations	81	0	4	35	128	6	1	0	184	10	2	27	5	29	252	34	349	275	16	575	1,543	70	371	193	0	30,353	34,415	15.		
	17. Eating & Drinking Places	0	0	0	0	0	0	0	2	369	5	0	0	2	0	0	236	70	275	33	34	2,875	0	342	0	0	12,627	17,004	16.		
	18. All Other Retail	419	16	16	119	55	36	4	5	1,476	46	7	55	32	29	0	0	0	0	327	34	210	35	29	0	157	33,727	34,898	17.		
Services	19. Lodging	0	0	0	0	0	0	0	2	184	5	0	0	0	0	189	118	3,975	482	114	135	210	35	200	193	157	68,295	76,418	18.		
	20. All Other Services (Except Professional)	0	0	0	0	0	11	17	1,107	41	26	165	46	58	0	0	0	0	0	0	0	0	0	0	0	0	16,186	16,378	19.		
Utilities	21. Transportation	14	0	20	0	0	3	4	12	20,292	82	171	1,374	167	144	631	219	802	2,410	540	677	351	35	1,169	774	6,123	18,634	33,833	20.		
	22. Electric Energy	54	2	8	263	0	4	3	26	2,214	206	39	852	39	835	3,534	269	174	275	16	237	4,278	245	257	13,730	549	24,283	70,131	21.		
	23. All Other Utilities	68	0	2	14	0	2	2	5	369	98	12	55	18	58	12,714	252	384	2,341	114	372	281	4,276	342	193	628	8,643	35,084	22.		
	24. Contract Construction	0	0	0	0	0	0	101	11	1,660	103	17	0	2	461	347	67	349	895	163	575	351	245	399	387	1,256	22,770	28,507	23.		
	25. Rentals & Finance	824	2	13	109	170	15	15	69	4,058	320	84	55	75	144	0	34	35	138	16	0	210	70	314	49,505	314	143,108	196,099	24.		
	26. Final Payments	10,403	212	240	1,670	5,415	234	202	735	83,566	4,384	1,030	22,108	1,832	26,730	631	824	837	4,751	131	677	421	245	1,169	5,415	3,768	53,674	78,496	25.		
	27. Total Gross Outlay	13,513	790	638	2,329	6,078	371	367	1,230	184,470	5,528	2,454	31,120	2,311	30,073	15,896	14,816	27,156	64,163	14,614	29,976	52,458	29,618	23,174	122,421	65,466			26.		
																34,415	17,004	34,898	76,418	16,378	33,833	70,131	35,084	28,507	196,099	78,496			27.		

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

Industry Producing		Industry Purchasing																										
		1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Forestry	6 All Other Agriculture	7 Coal	8 Oil & Gas	9 Uranium	10 All Other Mining	11 Food & Kindred Products	12 Lumber & Wood Products	13 Printing & Publishing	14 All Other Manu- facturing	15 Wholesale Trade	16 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (Except Pro- fessional)	21 Trans- portation	22 Electric Energy	23 All Other Utilities	24 Contract Construc- tion	25 Rentals & Finance		
Agriculture	1. Range livestock	.021	.416	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.	
	2. Feeder livestock	.000	.000	.000	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.
	3. Dairy	.000	.000	.012	.006	.000	.000	.000	.000	.000	.000	.250	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.
	4. Forage, feed & food crops	.087	.289	.495	.000	.000	.144	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.
	5. Forestry	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.220	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.
	6. All other agriculture	.000	.000	.000	.000	.000	.005	.000	.000	.000	.000	.137	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.
Mining	7. Coal	.000	.000	.000	.000	.000	.000	.011	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.	
	8. Oil & gas	.000	.000	.000	.000	.000	.000	.000	.251	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.
	9. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.356	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.
	10. All other mining	.000	.000	.000	.000	.000	.000	.008	.000	.000	.000	.000	.000	.000	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.
Manufacturing	11. Food & kindred products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.045	.000	.000	.000	.000	.000	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	11.
	12. Lumber & wood products	.000	.000	.000	.000	.000	.000	.008	.000	.004	.019	.000	.005	.000	.004	.000	.000	.000	.000	.016	.002	.000	.001	.000	.012	.000	.000	12.
	13. Printing & publishing	.000	.000	.000	.000	.000	.000	.007	.003	.001	.004	.003	.001	.036	.000	.001	.001	.000	.004	.001	.005	.000	.001	.000	.000	.001	.001	13.
	14. All other manufacturing	.009	.000	.012	.031	.042	.031	.029	.023	.012	.017	.007	.006	.004	.002	.006	.007	.007	.002	.001	.009	.099	.004	.026	.005	.000	.000	14.
Trade	15. Wholesale trade	.004	.002	.005	.009	.009	.014	.003	.004	.001	.004	.001	.001	.001	.000	.008	.002	.010	.004	.001	.017	.022	.002	.013	.001	.000	.000	15.
	16. Service stations	.006	.000	.007	.015	.021	.015	.003	.000	.001	.002	.001	.001	.002	.001	.000	.014	.002	.004	.002	.001	.041	.000	.012	.000	.000	.000	16.
	17. Eating & drinking places	.000	.000	.000	.000	.000	.000	.000	.002	.002	.001	.000	.000	.001	.000	.000	.000	.000	.000	.020	.001	.003	.001	.001	.000	.002	.002	17.
	18. All other retail	.031	.020	.025	.051	.009	.097	.011	.004	.008	.009	.003	.002	.014	.001	.006	.007	.114	.007	.007	.004	.003	.001	.007	.001	.002	.002	18.
Services	19. Lodging	.000	.000	.000	.000	.000	.000	.000	.002	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	19.
	20. All other services (except professional)	.000	.000	.000	.000	.000	.000	.030	.014	.006	.008	.011	.006	.020	.002	.020	.013	.023	.035	.033	.020	.005	.001	.041	.004	.078	.000	20.
Utilities	21. Transportation	.001	.000	.031	.000	.000	.009	.011	.010	.110	.016	.071	.050	.073	.005	.112	.016	.005	.004	.001	.007	.061	.007	.009	.071	.007	.007	21.
	22. Electric energy	.004	.002	.012	.113	.000	.011	.008	.021	.012	.040	.016	.031	.017	.029	.403	.015	.011	.034	.007	.011	.004	.122	.012	.001	.008	.000	22.
	23. All other utilities	.005	.000	.003	.006	.000	.006	.006	.004	.002	.019	.005	.002	.008	.002	.011	.004	.010	.013	.010	.017	.005	.007	.014	.002	.016	.000	23.
	24. Contract construction	.000	.000	.000	.000	.000	.000	.280	.009	.009	.020	.007	.000	.001	.016	.000	.002	.001	.002	.001	.000	.003	.002	.011	.256	.004	.000	24.
	25. Rentals & finance	.061	.002	.021	.047	.028	.041	.042	.056	.022	.062	.035	.002	.033	.005	.020	.049	.024	.069	.008	.020	.006	.007	.041	.028	.048	.000	25.

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

	Industry Purchasing	Industry Producing																									
		1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Forestry	6 All Other Agriculture	7 Coal	8 Oil & Gas	9 Uranium	10 All Other Mining	11 Food & Kindred Products	12 Lumber & Wood Products	13 Printing & Publishing	14 All Other Manufacturing	15 Wholesale Trade	16 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (except professional)		21 Transportation	22 Electric Energy	23 All Other Utilities	24 Contract Construction	25 Rentals & Finance
Agriculture	1. Range livestock	1.021640	.000446	.000543	.089281	.001045	.000000	.000000	.000551	.000000	.000219	.000003	.000105	.000310	.012892	.005463	.007897	.000196	.036913	.000001	.007840	.003081	.021583	.007849	.000995	.073956	1.
	2. Feeder livestock	.425619	1.001637	.001989	.327487	.000457	.000000	.000000	.000641	.000000	.000255	.000003	.000144	.000371	.015000	.007313	.008020	.000178	.050718	.000002	.006505	.002833	.053035	.006313	.001017	.050841	2.
	3. Dairy	.001069	.002517	1.015204	.503346	.000059	.000001	.000000	.001389	.000000	.000553	.000005	.000266	.000438	.032516	.011192	.016772	.000327	.052172	.000003	.007380	.036938	.088143	.008948	.001726	.053984	3.
	4. Forage, feed & food crops	.002135	.005023	.006102	1.004658	.000072	.000001	.000000	.001405	.000000	.000559	.000004	.000318	.000493	.032881	.010035	.015872	.000284	.052539	.000003	.007465	.003881	.138242	.009156	.001752	.056680	4.
	5. Forestry	.000000	.000000	.000000	.000000	1.000047	.000000	.000000	.001824	.000000	.000726	.000001	.000215	.000139	.042683	.009305	.021492	.000087	.009442	.000004	.003553	.002220	.006864	.001069	.001258	.032008	5.
	6. All other agriculture	.000309	.000727	.000884	.145398	.000056	1.005026	.000000	.001631	.000000	.000649	.000004	.000254	.000648	.038172	.016696	.018695	.000234	.106335	.000004	.009927	.013831	.045661	.010333	.001855	.061023	6.
Mining	7. Coal	.000000	.000000	.000001	.000001	.002893	.000001	1.011136	.001575	.000000	.008716	.000005	.013150	.007741	.036855	.005401	.005265	.000337	.012474	.000012	.038971	.044157	.016337	.009502	.382325	.060012	7.
	8. Oil & gas	.000000	.000000	.000012	.000007	.000108	.000007	.000000	1.336541	.000000	.000568	.000047	.000493	.004462	.033409	.006518	.000963	.003022	.006340	.002674	.026821	.018140	.037806	.007938	.017666	.081556	8.
	9. Uranium	.000000	.000000	.000015	.000009	.001483	.000008	.000007	.001621	1.552795	.000645	.000060	.006742	.001851	.037933	.006247	.009539	.003830	.013965	.001557	.015124	.185886	.027960	.005726	.020840	.040645	9.
	10. All other mining	.000000	.000000	.000005	.000003	.004318	.000003	.000020	.000887	.000000	1.000353	.000021	.019627	.004432	.020765	.005349	.03437	.001322	.009952	.001002	.015709	.022668	.051243	.021558	.028322	.069298	10.
Manufacturing	11. Food & kindred products	.000324	.000763	.265888	.152625	.000080	.144177	.000000	.001282	.000000	.000510	1.047128	.000363	.003644	.029996	.008651	.011669	.000497	.032720	.000003	.019540	.093191	.052153	.010853	.011671	.063883	11.
	12. Lumber & wood products	.000000	.000000	.000001	.000001	.221143	.000001	.001016	.000909	.000000	.000370	.000004	1.005197	.001179	.021281	.004543	.008110	.000240	.004480	.000002	.007944	.055020	.039157	.003124	.001328	.010710	12.
	13. Printing & publishing	.000000	.000000	.000006	.000003	.000036	.000003	.000000	.000558	.000000	.000222	.000022	.000163	1.037621	.013061	.003596	.005761	.001425	.015407	.000001	.025972	.082314	.024120	.010414	.002510	.039375	13.
	14. All other manufacturing	.000000	.000000	.000001	.000000	.001031	.000000	.000005	.042920	.000000	.017078	.000003	.004686	.000287	1.004608	.000665	.001489	.000195	.001545	.000103	.004067	.008613	.035806	.003172	.022827	.010383	14.
Trade	15. Wholesale trade	.000000	.000000	.000004	.000002	.000142	.000002	.000001	.000905	.000000	.000360	.000015	.000644	.001736	.021173	1.012496	.005502	.000945	.007446	.000002	.025156	.125433	.467289	.016340	.002668	.027909	15.
	16. Service stations	.000000	.000000	.000001	.000000	.000031	.000000	.000000	.000404	.000000	.000161	.000003	.000141	.001262	.009459	.002938	1.015115	.000211	.007534	.000001	.018521	.018853	.020237	.005729	.003469	.053996	16.
	17. Eating & drinking places	.000005	.000011	.003989	.002290	.000035	.002163	.000000	.000400	.000000	.000159	.015710	.000159	.000774	.009363	.011631	.003222	1.000173	.115769	.000001	.031659	.009736	.024376	.013329	.002522	.036553	17.
Services	18. All other retail	.000000	.000000	.000001	.000001	.000042	.000001	.000000	.000162	.000000	.000065	.000004	.000190	.004539	.003797	.005272	.004630	.000279	1.007721	.000000	.043043	.007018	.043232	.015733	.003597	.075637	18.
	19. Lodging	.000000	.000000	.000080	.000046	.003563	.000043	.000016	.000105	.000000	.000042	.000316	.016196	.001312	.002451	.002172	.002518	.020093	.009755	1.000000	.036132	.003201	.011068	.011468	.001744	.011422	19.
Utilities	20. All other services (except professional)	.000000	.000000	.000005	.000003	.000470	.000002	.000002	.000475	.000000	.000189	.000018	.002138	.005403	.011115	.018130	.001780	.001152	.004715	.000001	1.023901	.011037	.022467	.018615	.000785	.023719	20.
	21. Transportation	.000000	.000000	.000013	.000008	.000130	.000007	.000001	.004579	.000000	.001822	.000052	.000589	.000189	.107176	.024185	.044735	.003282	.004354	.000011	.008355	1.070253	.021022	.006742	.007081	.011748	21.
	22. Electric energy	.000000	.000000	.000005	.000003	.000268	.000003	.000001	.000249	.000000	.000099	.000019	.001218	.001218	.005834	.002693	.000523	.001201	.001457	.000001	.002510	.009471	1.140818	.008439	.003420	.009290	22.
	23. All other utilities	.000000	.000000	.000005	.000003	.000096	.000003	.000000	.001227	.000000	.000488	.000019	.000438	.000387	.028727	.014586	.013072	.001227	.007901	.000003	.047329	.014072	.023263	1.016462	.016107	.047360	23.
	24. Contract construction	.000000	.000000	.000002	.000001	.003592	.000001	.000017	.000751	.000000	.000299	.000007	.016326	.000138	.017589	.003969	.004497	.000416	.002022	.000002	.009879	.103731	.005739	.004310	1.345226	.041428	24.
	25. Rentals & finance	.000000	.000000	.000009	.000005	.000059	.000005	.000000	.000100	.000000	.000040	.000035	.000267	.001563	.002346	.001987	.000740	.002254	.002948	.000000	.084995	.009647	.012165	.018819	.006084	1.053775	25.

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
LITTLE COLORADO SUB-BASIN 1980
Table 1980 - c

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output	
Agriculture	1. Range Livestock	320	405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14,490	15,215	1.
	2. Feeder Livestock	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	943	962	2.
	3. Dairy	0	0	16	23	0	0	0	0	0	0	1,030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	1,093	3.
	4. Forage, Feed & Food Crops	1,947	337	546	0	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	910	3,825	4.
	5. Forestry	30	0	0	0	0	0	0	0	0	0	0	6,407	0	0	0	0	0	0	0	0	0	0	0	0	0	19	6,456	5.
	6. All Other Agriculture	0	0	0	0	0	4	0	0	0	0	438	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	485	6.
Mining	7. Coal	0	0	0	0	0	0	3	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	220	254	7.	
	8. Oil & Gas	0	0	0	0	0	0	0	593	0	0	0	0	1,680	0	0	0	0	0	0	0	0	0	0	0	0	0	2,273	8.
	9. Uranium	0	0	0	0	0	0	0	0	120,372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	214,926	335,298	9.
	10. All Other Mining	0	0	0	0	0	0	2	0	0	0	0	0	1,008	0	0	0	0	0	0	0	0	0	0	0	0	7,553	8,563	10.
Manufacturing	11. Food & Kindred Products	0	0	0	0	0	0	0	0	0	206	0	0	0	0	0	1,762	0	53	0	0	0	0	0	0	2,331	4,352	11.	
	12. Lumber & Wood Products	0	0	0	0	0	0	3	0	1,676	160	0	214	0	288	0	0	0	906	166	0	52	0	4,652	0	25,827	33,944	12.	
	13. Printing & Publishing	0	0	0	0	0	0	2	7	335	32	13	61	229	48	97	44	104	819	53	996	135	52	91	332	545	2,075	6,070	13.
	14. All Other Manufacturing	167	0	15	138	316	16	8	70	5,365	168	39	275	30	192	682	307	933	409	107	1,659	13,808	258	2,636	2,326	0	19,511	49,435	14.
Trade	15. Wholesale Trade	122	4	9	46	84	8	1	9	1,006	32	4	61	6	0	779	175	1,244	1,228	53	3,153	3,113	155	1,273	665	273	92,626	106,128	15.
	16. Service Stations	137	0	12	65	161	8	1	0	335	24	9	31	18	96	97	614	207	1,024	160	166	5,956	52	1,182	332	273	33,345	44,304	16.
	17. Eating & Drinking Places	0	0	0	0	0	0	0	9	1,006	8	4	31	6	0	0	44	0	205	1,173	332	677	103	182	332	818	98,800	103,729	17.
	18. All Other Retail	593	24	34	218	77	48	3	14	4,024	96	26	92	84	48	779	351	14,613	1,433	480	830	541	103	818	665	818	200,071	226,883	18.
Services	19. Lodging	0	0	0	0	0	0	0	7	335	8	0	0	0	0	0	0	0	0	0	0	52	0	0	0	52,989	53,391	19.	
	20. All Other Services (Except Professional)	0	0	0	0	0	0	8	36	3,353	80	56	214	133	192	2,045	570	2,384	7,165	1,812	3,485	812	155	3,818	1,994	22,363	115,271	165,944	20.
Utilities	21. Transportation	46	0	40	0	0	6	3	34	36,883	168	322	1,586	452	384	11,102	701	518	1,024	107	1,162	8,934	464	1,091	24,923	2,454	42,965	135,369	21.
	22. Electric Energy	107	4	20	455	0	7	4	64	6,035	352	82	1,007	115	1,536	390	701	1,244	7,779	533	2,157	677	6,446	1,364	997	2,727	16,831	51,631	22.
	23. All Other Utilities	91	0	4	34	0	4	2	9	671	152	26	92	54	96	1,169	175	1,036	3,480	586	2,987	812	464	1,455	997	4,909	71,604	90,909	23.
	24. Contract Construction	0	0	0	0	0	0	65	30	3,688	176	34	61	12	864	0	131	104	614	160	0	541	206	1,182	86,399	1,636	240,978	336,882	24.
	25. Rentals & Finance	1,050	7	27	195	207	21	11	130	9,724	520	155	122	211	384	2,142	2,279	2,902	14,329	693	3,651	1,218	567	4,091	10,966	14,181	202,934	272,717	25.
	26. Final Payments	10,605	181	370	2,632	5,611	278	138	1,261	140,490	6,587	1,908	23,659	4,720	42,619	86,846	38,212	76,678	187,374	46,515	145,200	98,145	42,502	71,726	201,302	221,720			26.
	27. Total Gross Outlays	15,215	962	1,093	3,825	6,456	485	254	2,273	335,298	8,563	4,352	33,944	6,070	49,435	106,128	44,304	103,729	226,883	53,391	165,944	135,369	51,631	90,909	336,882	272,717			27.

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

Industry Purchasing		Industry Producing																										
		1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Forestry	6 All Other Agriculture	7 Coal	8 Oil & Gas	9 Uranium	10 All Other Mining	11 Forage, Feed & Food Crops	12 Lumber & Wood Products	13 Printing & Publishing	14 All Other Manufacturing	15 Wholesale Trade	16 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (Except professional)	21 Transportation	22 Electric Energy	23 All Other Utilities	24 Contract Construction	25 Rentals & Finance		
Agriculture	1. Range livestock	.021	.421	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.	
	2. Feeder livestock	.000	.000	.000	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.
	3. Dairy	.000	.000	.015	.006	.000	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.
	4. Forage, feed & food crops	.128	.350	.500	.000	.000	.175	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.
	5. Forestry	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.210	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.
	6. All other agriculture	.000	.000	.000	.000	.000	.008	.000	.000	.000	.000	.102	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.
Mining	7. Coal	.000	.000	.000	.000	.000	.000	.013	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.	
	8. Oil & gas	.000	.000	.000	.000	.000	.000	.000	.261	.000	.000	.000	.000	.000	.035	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.
	9. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.359	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.
	10. All other mining	.000	.000	.000	.000	.000	.000	.008	.000	.000	.000	.000	.000	.000	.021	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.
Manufacturing	11. Food & kindred products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.048	.000	.000	.000	.000	.000	.017	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	11.
	12. Lumber & wood products	.000	.000	.000	.000	.000	.000	.012	.000	.005	.020	.000	.007	.000	.006	.000	.000	.000	.000	.017	.001	.000	.001	.000	.014	.000	.000	12.
	13. Printing & publishing	.000	.000	.000	.000	.000	.000	.007	.003	.001	.004	.003	.002	.038	.001	.001	.001	.004	.001	.006	.001	.001	.001	.001	.001	.001	.002	13.
	14. All other manufacturing	.011	.000	.014	.036	.049	.033	.033	.031	.016	.021	.009	.009	.005	.004	.007	.007	.009	.002	.002	.010	.102	.005	.029	.007	.000	.000	14.
Trade	15. Wholesale trade	.008	.004	.008	.012	.013	.016	.005	.004	.003	.004	.001	.002	.001	.000	.008	.004	.012	.006	.001	.019	.023	.003	.014	.002	.001	.001	15.
	16. Service stations	.009	.000	.011	.017	.025	.016	.005	.000	.001	.003	.002	.001	.003	.002	.001	.014	.002	.005	.003	.001	.044	.001	.013	.001	.001	.001	16.
	17. Eating & drinking places	.000	.000	.000	.000	.000	.000	.000	.004	.003	.001	.001	.001	.001	.000	.000	.001	.000	.001	.022	.002	.005	.002	.002	.001	.003	.003	17.
	18. All other retail	.039	.025	.031	.057	.012	.099	.014	.006	.012	.012	.006	.003	.014	.001	.008	.008	.141	.007	.009	.005	.004	.002	.009	.002	.003	.003	18.
Services	19. Lodging	.000	.000	.000	.000	.000	.000	.000	.003	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	19.
	20. All other services (except professional)	.000	.000	.000	.000	.000	.000	.032	.016	.010	.010	.013	.007	.022	.004	.021	.013	.023	.035	.034	.021	.006	.003	.042	.006	.082	.000	20.
Utilities	21. Transportation	.003	.000	.037	.000	.000	.012	.014	.015	.110	.021	.075	.052	.075	.008	.114	.016	.005	.005	.002	.007	.066	.009	.012	.075	.009	.009	21.
	22. Electric energy	.007	.004	.018	.119	.000	.015	.015	.028	.018	.044	.019	.033	.019	.032	.004	.016	.012	.038	.010	.013	.005	.125	.015	.003	.010	.010	22.
	23. All other utilities	.006	.000	.004	.009	.000	.008	.007	.004	.002	.019	.006	.003	.009	.002	.012	.004	.010	.017	.011	.018	.006	.009	.016	.003	.018	.018	23.
	24. Contract construction	.000	.000	.000	.000	.000	.000	.261	.013	.011	.022	.008	.002	.002	.018	.000	.003	.001	.003	.003	.000	.004	.004	.013	.260	.006	.006	24.
	25. Rentals & finance	.069	.007	.025	.051	.032	.044	.046	.057	.029	.065	.036	.004	.035	.008	.022	.052	.028	.070	.013	.022	.009	.011	.045	.033	.052	.052	25.

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing	Industry Producing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	All Other Manufactur- ing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Lodging	All Other Services (Except Pro- fessional)	Trans- portation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	
Agriculture	1. Range livestock	1.021733	.000657	.000803	.131413	.002082	.000001	.000000	.000840	.000000	.000372	.000008	.000182	.000547	.017732	.010910	.012528	.000468	.048535	.000033	.010186	.006847	.030551	.010630	.001806	.087541	1.
	2. Feeder livestock	.430906	1.002036	.002482	.407110	.000913	.000001	.000000	.001006	.000000	.000446	.000009	.000245	.000622	.021239	.013667	.011936	.000497	.066438	.000072	.009388	.005665	.068606	.009886	.002000	.068555	2.
	3. Dairy	.001097	.002551	1.018339	.510203	.000086	.000001	.000000	.001843	.000000	.000817	.000014	.000401	.000708	.038907	.016680	.022967	.000757	.062426	.000103	.009609	.045584	.096490	.012817	.002864	.063691	3.
	4. Forage, feed & food crops	.002161	.005025	.006125	1.005098	.000098	.000001	.000000	.001831	.000000	.000812	.000012	.000446	.000691	.038652	.013692	.018459	.000641	.059194	.000149	.009252	.005471	.142516	.013287	.002863	.063324	4.
	5. Forestry	.000000	.000000	.000001	.000001	1.000075	.000000	.000000	.002371	.000000	.001051	.000004	.000358	.000275	.050061	.013541	.025755	.000200	.012686	.000012	.004590	.003290	.003611	.001453	.001815	.037388	5.
	6. All other agriculture	.000381	.000887	.001083	.177312	.000081	1.008066	.000000	.002044	.000000	.000906	.000011	.000382	.000869	.043151	.020284	.021268	.000598	.111829	.000057	.011622	.018592	.049813	.014266	.002834	.068689	6.
Mining	7. Coal	.000000	.000000	.000005	.000003	.003744	.000002	1.013189	.002028	.000000	.009005	.000019	.017829	.008458	.042816	.008390	.008328	.001035	.016450	.000039	.043378	.048993	.024360	.011688	.360022	.067518	7.
	8. Oil & gas	.000000	.000000	.000028	.000016	.000172	.000012	.000001	1.355368	.000000	.000970	.000114	.000820	.004832	.046199	.007271	.001735	.006129	.010063	.004115	.031374	.027395	.047736	.008884	.026314	.086268	8.
	9. Uranium	.000000	.000000	.000027	.000015	.001809	.000011	.000009	.002170	1.560062	.000962	.000110	.000861	.002352	.045825	.010200	.010580	.006046	.021293	.001605	.023960	.189718	.037814	.006985	.026349	.055132	9.
	10. All other mining	.000000	.000000	.000008	.000004	.004379	.000003	.000021	.001233	.000000	1.000547	.000031	.020853	.004723	.026039	.005935	.005115	.001667	.013460	.001059	.019082	.029421	.054729	.022325	.032009	.074317	10.
Manufacturing	11. Food & kindred products	.000317	.000738	.256848	.147625	.000105	.108011	.000001	.001597	.000000	.000708	1.050456	.000496	.003968	.033712	.010209	.014419	.002017	.035222	.000061	.023009	.100939	.055286	.013433	.014067	.067179	11.
	12. Lumber & wood products	.000000	.000000	.000006	.000004	.211543	.000003	.001021	.001242	.000000	.000559	.000027	1.007347	.002385	.026214	.006672	.009242	.001483	.006491	.000045	.009895	.058595	.040335	.004606	.004566	.014681	12.
	13. Printing & publishing	.000000	.000000	.000008	.000004	.000045	.000003	.000000	.000709	.000000	.000314	.000031	.000215	1.040003	.014968	.004044	.007375	.001762	.015821	.000028	.028975	.085777	.025674	.012008	.004455	.042820	13.
	14. All other manufacturing	.000000	.000000	.000002	.000001	.001458	.000001	.000007	.047743	.000000	.021169	.000009	.006943	.001476	1.008061	.001032	.002905	.000471	.002024	.000205	.007147	.013338	.040417	.003693	.026514	.015172	14.
Trade	15. Wholesale trade	.000000	.000000	.000004	.000002	.000041	.000002	.000000	.000983	.000000	.000436	.000015	.000194	.001499	.020758	1.011818	.006951	.000827	.009247	.000011	.026011	.124871	.007687	.014421	.001800	.027518	15.
	16. Service stations	.000000	.000000	.000006	.000004	.000037	.000003	.000000	.000462	.000000	.000205	.000025	.000177	.001408	.009764	.005216	1.015343	.001399	.008917	.000022	.019371	.019706	.020604	.006139	.005207	.058043	16.
	17. Eating & drinking places	.000005	.000013	.004368	.002511	.000038	.001837	.000000	.000565	.000000	.000250	.017866	.000180	.002082	.011922	.014340	.003762	1.000504	.143367	.000025	.033803	.011210	.022784	.014759	.003254	.043891	17.
	18. All other retail	.000000	.000000	.000007	.000004	.000042	.000003	.000000	.000209	.000000	.000093	.000027	.000198	.004736	.004411	.007721	.006000	.001528	1.008236	.000047	.044099	.009121	.046204	.020338	.005531	.078041	18.
Services	19. Lodging	.000000	.000001	.000354	.000203	.003626	.000149	.000017	.000192	.000000	.000085	.001448	.017267	.001482	.004050	.002568	.003766	.022253	.012867	1.000015	.038171	.005109	.014324	.012966	.004806	.017855	19.
	20. All other services (except professional)	.000000	.000000	.000010	.000006	.000241	.000004	.000001	.000589	.000000	.000261	.000041	.001146	.006573	.012444	.020367	.001983	.002284	.006134	.000019	1.025623	.011735	.017057	.019962	.001101	.026615	20.
	21. Transportation	.000000	.000000	.000024	.000014	.000184	.000010	.000001	.005286	.000000	.002344	.000100	.000876	.001505	.111612	.025705	.048540	.005589	.006155	.000031	.010603	1.077179	.012465	.008195	.009284	.016700	21.
Utilities	22. Electric energy	.000000	.000000	.000011	.000006	.000278	.000005	.000001	.000360	.000000	.000160	.000045	.001323	.001323	.007597	.004118	.001959	.002472	.002994	.001145	.005754	.012726	1.144010	.011125	.006801	.014970	22.
	23. All other utilities	.000000	.000000	.000011	.000006	.000117	.000005	.000001	.001546	.000000	.000686	.000044	.000558	.001662	.032651	.016085	.014560	.002486	.010482	.000026	.049647	.018517	.021154	1.019071	.019501	.053131	23.
	24. Contract construction	.000000	.000000	.000009	.000005	.004041	.000004	.000019	.001035	.000000	.000459	.000039	.019243	.001831	.021863	.005934	.006721	.002157	.004050	.000012	.014196	.111722	.008153	.006387	1.353194	.050329	24.
	25. Rentals & finance	.000000	.000000	.000015	.000009	.000054	.000006	.000000	.000146	.000000	.000065	.000063	.000256	.002859	.003090	.003543	.002097	.003515	.004542	.000015	.0090264	.012832	.014417	.021470	.009234	1.059365	25.

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
LITTLE COLORADO SUB-BASIN 2010
Table LC - 2010 - c

	Industry Purchasing	Industry Producing	Final Demand by Industry																																						
			1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetables	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	11 Copper	12 All Other Mining	13 Food & Kindred Products	14 Lumber & Wood Products	15 Furniture & Fixtures	16 Paper & Pulp	17 Chemicals	18 Primary Metals	19 Printing & Publishing	20 Fabricated Metals	21 Textiles & Apparel	22 Leather & Leather Goods	23 Stone, Clay & Glass	24 All Other Manufacturing	25 Wholesale Trade	26 Service Stations	27 Eating & Drinking Places	28 All Other Retail	29 Agricultural Services	30 Lodging	31 All Other Services (Except Professional)	32 Transportation	33 Electric Energy	34 All Other Utilities	35 Contract Construction	36 Rentals & Finance			
Agriculture	Agriculture	1. Range Livestock	1.001642	.004514	.002888	.062190	.001246	.000070	.000123	.000007	.000164	.000001	.000062	.00002316	.017538	.000198	.000000	.000337	.003334	.000083	.001431	.000797	.000000	.000000	.000552	.002953	.006459	.013538	.000865	.008805	.005511	.000386	.003810	.017612	.011150	.006873	.008244	.131804	1.		
		2. Feeder Livestock	.361658	1.015549	.010013	.208923	.004360	.000246	.000430	.000015	.000561	.000002	.000133	.002316	.061342	.000413	.000001	.000925	.001048	.000177	.001852	.001394	.000000	.000000	.000659	.006714	.016704	.011116	.001044	.039224	.026553	.000634	.006951	.038045	.013114	.008230	.007177	.085254	2.		
		3. Dairy	.006637	.018414	1.022747	.427605	.002895	.000163	.000285	.000013	.000375	.000004	.000184	.004394	.040733	.000357	.000001	.000742	.022116	.000243	.001850	.001731	.000000	.000000	.000000	.000608	.008318	.017685	.016521	.001103	.041650	.036650	.000699	.007793	.053848	.021909	.009436	.005516	.050629	3.	
		4. Forage, Feed & Food Crops	.010265	.028816	.010654	1.011229	.000225	.000013	.000022	.000008	.000037	.000010	.000256	.009976	.003170	.000230	.000001	.000316	.051695	.000326	.001792	.001676	.000000	.000000	.000000	.000695	.008385	.019438	.018549	.001208	.048142	.085219	.000739	.009401	.043577	.018641	.009243	.005362	.051074	4.	
		5. Cotton	.001123	.003049	.002461	.001660	1.002350	.000076	.000133	.000011	.000182	.000006	.000287	.006147	.018988	.000307	.000001	.000512	.031034	.000380	.002041	.001648	.000000	.000000	.000000	.000824	.017700	.023625	.018537	.001441	.058137	.165601	.000795	.011181	.032894	.023107	.014561	.007108	.074415	5.	
		6. Vegetables	.000058	.000157	.000127	.000086	.000070	1.001005	.000007	.000008	.000016	.000014	.000303	.013325	.000978	.000231	.000001	.000265	.069489	.000382	.001565	.001617	.000000	.000000	.000000	.000729	.009073	.016873	.010697	.000997	.044889	.002025	.000705	.007750	.038918	.025473	.006832	.004530	.041821	6.	
		7. Citrus Crops	.006837	.019138	.009740	.007911	.000854	.000048	1.001085	.000015	.000125	.000012	.000316	.012251	.012014	.000419	.000001	.000607	.062966	.000403	.005146	.001928	.000000	.000000	.000000	.001164	.010961	.017701	.023140	.002342	.036402	.345334	.000942	.016645	.036495	.040275	.018017	.012157	.171345	7.	
		8. Forestry	.000026	.000072	.000058	.000039	.000032	.000002	.000003	1.000002	.000007	.000000	.000039	.000093	.000445	.000066	.000000	.000117	.000058	.000053	.000813	.000581	.000000	.000000	.000000	.000194	.002186	.004355	.020286	.000399	.010881	.000010	.000217	.002133	.019559	.002293	.002235	.002736	.031093	8.	
		9. All Other Agriculture	.013969	.038032	.029108	.146506	.015251	.000859	.001504	.000068	1.004957	.000004	.000233	.003750	.214584	.001894	.000001	.004969	.017848	.000312	.003402	.002217	.000000	.000000	.000000	.001236	.013079	.030531	.010287	.001558	.137656	.035745	.001099	.014968	.034702	.023464	.013379	.009767	.057928	9.	
Mining	Mining	10. Uranium	.000067	.000183	.000148	.000101	.000081	.000005	.000008	.000292	.000026	1.015244	.001009	.015656	.001139	.008121	.000002	.000532	.006038	.001353	.005919	.020286	.000000	.000000	.053741	.019316	.009314	.003322	.002191	.015710	.000027	.001736	.018458	.030803	.078080	.022854	.037200	.041732	10.		
		11. Copper	.000730	.001982	.001600	.001079	.000877	.000049	.000086	.000135	.000119	.000016	1.032433	.015639	.012342	.003755	.000006	.000976	.021940	.002041	.010315	.012169	.000000	.000000	.007899	.019223	.014393	.005635	.001018	.008710	.000283	.005978	.028465	.051471	.029003	.026823	.017891	.019464	11.		
		12. All Other Mining	.000217	.000590	.000476	.000328	.000261	.000015	.000026	.000253	.000094	.001206	.016517	1.187828	.003671	.007023	.000013	.001424	.024158	.019494	.016223	.025715	.000000	.000000	.000000	.031349	.029927	.027922	.008678	.031247	.000086	.012235	.040178	.098219	.088640	.047960	.036743	.229992	12.		
Manufacturing	Manufacturing	13. Food & Kindred Products	.062691	.170145	.137348	.092549	.075311	.004243	.007425	.000166	.092582	.000003	.000309	.002531	1.059664	.004622	.000002	.012429	.009556	.000421	.011561	.002343	.000000	.000000	.000000	.002805	.023138	.041105	.007699	.002357	.025130	.024316	.002078	.026546	.054388	.023612	.014810	.019573	.071032	13.	
		14. Lumber & Wood Products	.000104	.000282	.000228	.000156	.000125	.000007	.000012	.036614	.000032	.000004	.000465	.003771	.001758	1.017048	.000002	.001660	.001893	.000633	.005009	.008994	.000000	.000000	.000000	.022051	.015241	.024366	.004253	.002275	.035941	.000041	.001897	.041674	.065707	.036557	.022771	.017273	.061331	14.	
		15. Furniture & Fixtures	.000097	.000264	.000213	.000146	.000117	.000007	.000012	.002379	.000033	.000001	.000296	.000582	.001643	.066073	1.072964	.047505	.000579	.000409	.012814	.002177	.000000	.000000	.000000	.001955	.025152	.030683	.003527	.002550	.009601	.000038	.002099	.017608	.054915	.037104	.027051	.005615	.047647	15.	
		16. Paper & Pulp	.000201	.000546	.000441	.000307	.000242	.000014	.000024	.013865	.000112	.000002	.000316	.001867	.003401	.385142	.000004	1.082421	.002149	.000432	.009717	.005079	.000000	.000000	.000000	.008666	.015081	.012764	.003720	.011525	.015667	.000081	.003377	.031291	.093915	.035594	.032918	.010066	.059030	16.	
		17. Chemicals	.000092	.000250	.000202	.000139	.000111	.000006	.000011	.000051	.000043	.000196	.002833	.193047	.001556	.001417	.000004	.000801	1.018662	.003374	.009869	.005169	.000000	.000000	.000000	.005540	.018273	.011061	.002010	.004063	.010981	.000037	.003362	.034952	.040180	.035985	.020338	.011146	.084616	17.	
		18. Primary Metals	.000653	.001773	.001432	.000967	.000785	.000044	.000077	.000197	.000120	.000081	.731264	.079490	.011045	.005481	.000007	.001374	.01823	1.013096	.015325	.014777	.000000	.000000	.000000	.012058	.033873	.015456	.006176	.002868	.010845	.000254	.006321	.031410	.074910	.060097	.041712	.028559	.055322	18.	
		19. Printing & Publishing	.000148	.000401	.000324	.000221	.000177	.000010	.000017	.000856	.000048	.000001	.000301	.000857	.002497	.023781	.000004	.066445	.000716	.000414	1.021397	.005080	.000000	.000000	.000000	.000414	.021670	.014894	.020907	.009493	.003583	.015946	.000058	.003892	.030339	.039518	.028186	.024218	.013582	.048896	19.
		20. Fabricated Metals	.000104	.000281	.000227	.000156	.000125	.000007	.000012	.000027	.000038	.000040	.033986	.039129	.001752	.000761	.000004	.000625	.002272	.046983	.006815	1.056449	.000000	.000000	.000000	.000000	.002268	.038770	.029017	.003683	.003222	.012643	.000041	.003427	.033438	.028387	.032397	.022502	.009525	.047576	20.
		21. Textiles & Apparel	.000071	.000192	.000155	.000107	.000085	.000005	.000008	.000009	.000028	.000001	.000162	.000499	.001195	.000262	.000001	.000271	.000331	.000223	.002880	.001202	1.007094	.002014	.001204	.013430	.007612	.005610	.002515	.013688	.000028	.001310	.012368	.010889	.017925	.010868	.018307	.036901	.01861	21.	
		22. Leather & Leather Goods	.015690	.042582	.034374	.023163	.018848	.001062	.001858	.000067	.002401	.000001	.000159	.001132	.265204	.001869	.000001	.004666	.002872	.000217	.009770	.001660	.022156	1.000044	.001868	.010537	.012649	.002797	.001021	.007950	.006086	.000780	.032878	.020649	.020738	.019055	.024066	.048257	.048257	22.	
23. Stone, Clay & Glass	.000157	.000427	.000345	.000235	.000189	.000011	.000019	.000046	.000048	.000160	.002392	.157478	.002658	.001270	.000003	.000874	.003991	.002865	.008663	.005776	.000000	.000000	.000000	1.206650	.018615	.019103	.003608	.003401	.016783	.000062	.002340	.048742	.102277	.040162	.027120	.011869	.057686	.057686	23.		
24. All Other Manufacturing	.000570	.001547	.001249	.000843	.000685	.000039	.000068	.000095	.000100	.000008	.010703	.007453	.009634	.002648	.000002	.003415	.007864	.014810	.010814	.010272	.000000	.000000	.000000	.012571	1.174766	.008267	.004434	.001860	.007119	.000221	.001721	.014493	.026296	.026438	.015033	.015760	.021099	.021099	24.		
Trade	Retail	25. Wholesale Trade	.000201	.000546	.000441	.000300	.000242	.000014	.000024	.000026	.000057	.000002	.001382	.001553	.003398	.000723	.000014	.000853	.001624	.001910	.004364	.004212	.000000	.000000	.002888	.140462	1.020433	.003185	.003814	.036323	.000079	.013065	.041253	.080710	.080520	.029884	.025087	.071159	.071159	25.	
		26. Service Stations	.000116	.000316	.000255	.000177	.000140	.000008	.000014	.000034	.000055	.000001	.000222	.000975	.001967	.000955	.000003	.001753	.000654	.000305	.024212	.004065	.000000	.000000	.002234	.009336	.016053	1.006729	.005308	.011013	.000046	.002863	.031534	.057900	.055789	.041486	.036365	.069776	.069776	26.	
		27. Eating & Drinking Places	.007110	.019298	.015567	.011388	.008531	.000481	.000841	.000031	.008184	.000001	.000213	.000993	.120033	.000859	.000002	.001906	.002573	.000292	.007249	.001915	.000000	.000000	.000000	.001441	.015998	.073820	.003812	1.011263	.018732	.002973	.001478	.084927	.029029	.024027	.027835	.018908	.051759	.051759	27.

	Industry Purchasing	1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetable	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	11 Copper	12 All Other Mining	13 Food & Kindred Products	14 Lumber & Wood Products	15 Furniture & Fixtures	16 Paper & Pulp	17 Chemicals	18 Primary Metals	19 Printing & Publishing	20 Fabricated Metals	21 Textiles & Apparel	22 Leather & Leather Goods	23 Stone, Clay & Glass	24 All Other Manufacturing	25 Wholesale Trade	26 Service Stations	27 Eating & Drinking Places	28 All Other Retail	29 Agricultural Services	30 Lodging	31 All Other Services (Except Professional)	32 Transportation	33 Electric Energy	34 All Other Utilities	35 Contract Construction	36 Rentals & Finance	37 Final Demand	38 Total Gross Output								
Industry Producing		0	52,198	0	0	0	0	0	0	0	0	0	0	828	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,674	59,700	1.					
Agriculture	1. Range Livestock	0	0	0	1,678	0	0	318	0	0	0	0	0	138,243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11,060	151,299	2.				
	2. Feeder Livestock	0	0	1,681	480	0	0	149	0	0	0	0	0	111,753	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38,733	152,796	3.		
	3. Dairy	2,985	13,617	38,657	60	0	0	0	0	4,622	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59,941	4.
	4. Forage, Feed & Food Crops	0	0	0	0	776	0	0	0	0	0	0	0	0	55,463	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	202,330	258,568	5.	
	5. Cotton	0	0	0	0	0	193	0	0	0	0	0	0	0	11,589	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84,895	96,678	6.
	6. Vegetables	0	0	0	0	0	0	56	0	0	0	0	0	0	9,106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,524	18,686	7.
	7. Citrus Crops	0	0	0	0	0	0	0	0	0	0	0	0	0	2,139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,139	8.
	8. Forestry	0	0	0	0	0	0	0	0	0	170	0	0	0	9,934	0	0	0	0	0	0	0	0	0	0	0	0	0	11,324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,975	42,403	9.
	9. All Other Agriculture	0	0	0	0	0	0	0	0	0	0	67	0	1,714	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	906	2,687	10.	
Mining	10. Uranium	0	0	0	0	0	0	0	0	0	0	34,673	2,856	0	0	0	0	0	821,838	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,447	866,814	11.			
	11. Copper	0	0	0	0	0	0	0	0	0	27	13,002	114,243	0	0	0	0	29,132	73,597	0	36,134	0	0	104,390	12,209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115,841	0	74,996	573,571	12.		
	12. All Other Mining	1,075	7,868	5,653	0	4,913	0	224	0	8,693	0	15,603	0	37,251	0	2,026	648	19,607	0	1,227	0	0	0	0	0	18,314	0	0	127,967	0	8,675	2,167	17,234	2,100	0	0	0	0	0	0	0	587,210	849,431	13.			
Manufacturing	13. Food & Kindred Products	0	0	0	0	0	0	0	0	0	11	2,600	2,285	0	2,026	648	19,607	0	1,227	0	0	0	0	0	0	3,052	0	0	0	0	0	0	0	1,050	0	24,387	0	0	0	0	0	0	74,460	131,354	14.		
	14. Lumber & Wood Products	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	482	0	0	0	0	0	0	0	0	0	0	30,321	32,807	15.		
	15. Furniture & Fixtures	0	0	0	0	0	0	0	0	85	0	0	0	10,761	225	1,444	6,274	0	0	0	0	0	3	0	9,157	0	0	0	6,981	0	964	0	2,872	0	0	0	0	0	0	0	0	10,758	80,030	16.			
	16. Paper & Pulp	0	0	0	5,395	15,773	7,251	1,271	0	594	27	17,336	14,280	2,483	225	0	157	3,075	1,227	0	0	0	0	0	18,314	0	0	0	0	0	0	0	0	0	0	0	0	24,387	0	0	0	0	31,694	178,146	17.		
	17. Chemicals	0	0	0	0	0	0	0	0	0	0	1,734	10,282	0	0	0	0	0	22,079	0	40,385	0	0	0	30,523	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,124,133	1,229,136	18.	
	18. Primary Metals	0	0	0	0	0	0	56	0	0	16	10,402	10,282	11,589	450	442	706	1,457	11,040	8,948	4,960	137	13	5,176	15,261	4,275	6,691	6,795	115,188	114	12,530	28,174	7,659	4,200	2,573	6,097	29,413	0	106,855	411,500	19.						
	19. Printing & Publishing	0	0	0	0	0	0	0	0	0	54	13,002	11,424	0	788	0	0	0	6,133	2,440	51,013	0	0	0	18,314	0	268	0	27,924	0	8,669	17,234	5,250	1,286	463,362	0	0	0	0	0	0	0	101,377	728,538	20.		
	20. Fabricated Metals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	384	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,334	30,759	21.	
	21. Textiles & Apparel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,614	1,751	22.
	22. Leather & Leather Goods	0	0	0	0	0	0	0	0	0	0	121	5,201	17,136	828	2,139	0	0	0	6,133	1,220	0	0	0	147,527	19,840	0	0	6,981	0	0	0	0	0	0	0	0	0	621,881	0	44,134	873,140	23.				
	23. Stone, Clay & Glass	0	0	0	120	2,844	387	93	0	170	27	13,002	8,568	12,417	900	531	314	2,104	20,853	3,254	23,381	384	5	4,314	236,551	254,391	0	0	17,453	0	0	41,178	60,318	16,800	12,220	67,066	0	0	0	808,917	1,608,560	24.					
24. All Other Manufacturing	0	0	0	0	0	0	0	6	594	11	9,535	9,711	37,251	2,364	973	0	971	3,680	7,321	20,547	247	0	7,765	9,157	36,342	3,212	74,742	38,396	515	14,458	60,683	19,149	4,200	10,290	262,165	14,706	1,699,314	2,357,119	25.								
Trade	25. Wholesale Trade	179	908	1,070	839	4,396	1,257	168	6	594	11	9,535	9,711	37,251	2,364	973	0	971	3,680	7,321	20,547	247	0	7,765	9,157	36,342	3,212	74,742	38,396	515	14,458	60,683	19,149	4,200	10,290	262,165	14,706	1,699,314	2,357,119	25.							
	26. Service Stations	716	303	1,070	779	2,586	870	131	45	297	5	6,935	3,427	1,656	450	147	157	162	3,680	4,067	2,834	219	0	863	6,105	4,275	1,873	1,132	3,491	2,345	8,193	32,509	4,787	1,050	10,933	18,291	0	0	0	0	175,791	302,174	26.				
	27. Eating & Drinking Places	0	0	0	0	0	0	0	0	0	3	0	5,141	828	450	59	1,098	809	2,453	2,034	3,543	137	0	863	3,052	6,413	1,338	11,324	10,472	172	7,229	4,334	6,702	4,200	2,573	6,097	24,511	1,041,724	1,147,558	27.							
	28. All Other Retail	239	3,631	2,750	2,458	13,187	3,964	505	26	4,749	35	7,801	14,852	4,967	4,277	118	0	1,295	4,906	6,101	9,211	494	0	7,765	7,631	72,683	1,873	11,324	38,396	572	9,157	34,676	8,617	15,750	7,075	48,775	29,413	3,515,822	3,895,093	28.							
Services	29. Agricultural Services	119	756	458	4,855	42,405	1,063	6,335	6	848	0	0	0	0	0	59	392	324	1,227	2,440	2,834	82	0	0	3,052	32,066	535	0	6,981	0	0	2,167	2,872	1,050	3,859	0	9,804	396,127	481,933	30.							
	30. Lodging	0	0	0	0	0	0	0	0	0	3	6,068	7,997	1,656	338	354	1,020	4,693	8,586	10,168	20,547	384	42	28,470	18,314	70,545	6,423	82,669	115,188	1,087	36,145	97,526	29,680	4,200	31,514	54,872	58,826	1,526,874	2,275,362	31.							
	31. All Other Services (Except Professional)	0	0	0	120	1,034	290	56	2	127	40	30,3																																			

Industry Producing		Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36											
			Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetables	Citrus Crops	Forestry	All Other Agriculture	Uranium	Copper	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Furniture & Fixtures	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance											
Agriculture		1. Range Livestock	.000	.345	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.							
		2. Feeder Livestock	.000	.000	.000	.028	.000	.000	.017	.000	.000	.000	.000	.000	.167	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.					
		3. Dairy	.000	.000	.011	.008	.000	.000	.008	.000	.000	.000	.000	.000	.135	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.				
		4. Forage, Feed & Food Crops	.050	.090	.253	.001	.000	.000	.000	.000	.109	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.				
		5. Cotton	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.067	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.			
		6. Vegetables	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.			
		7. Citrus Crops	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.			
		8. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.		
		9. All Other Agriculture	.000	.000	.000	.000	.000	.000	.000	.000	.004	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.		
Mining		10. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.025	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.		
		11. Copper	.000	.000	.000	.000	.000	.000	.000	.000	.040	.005	.000	.000	.000	.000	.000	.000	.000	.670	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	11.		
		12. All Other Mining	.000	.000	.000	.000	.000	.000	.000	.000	.010	.015	.200	.000	.000	.000	.000	.000	.180	.060	.000	.051	.000	.000	.121	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.019	.000	.000	12.	
Manufacturing		13. Food & Kindred Products	.018	.052	.037	.000	.019	.000	.012	.000	.205	.000	.018	.000	.045	.000	.000	.000	.002	.004	.000	.000	.250	.000	.012	.000	.000	.000	.113	.000	.000	.000	.018	.001	.018	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	13.		
		14. Lumber & Wood Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.004	.000	.018	.022	.250	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	14.	
		15. Furniture & Fixtures	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.068	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	15.	
		16. Paper & Pulp	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.013	.002	.049	.080	.000	.000	.075	.000	.000	.002	.000	.006	.000	.000	.000	.000	.002	.000	.002	.000	.002	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	16.	
		17. Chemicals	.000	.000	.000	.090	.061	.075	.068	.000	.014	.010	.020	.025	.003	.002	.000	.002	.019	.001	.000	.000	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.004	.000	.000	.000	17.	
		18. Primary Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.018	.000	.014	.004	.015	.009	.009	.009	.022	.007	.005	.008	.006	.010	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	18.
		19. Printing & Publishing	.000	.000	.000	.000	.000	.000	.003	.000	.000	.006	.012	.018	.014	.000	.000	.000	.009	.009	.009	.022	.007	.005	.008	.006	.010	.002	.025	.006	.033	.002	.026	.013	.008	.004	.004	.004	.001	.006	.000	.000	.000	.000	.006	.000	19.		
		20. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.020	.015	.020	.000	.007	.000	.000	.000	.005	.006	.072	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.004	.018	.005	.002	.002	.000	.000	.000	.000	.006	.000	20.	
		21. Textiles & Apparel	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.014	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	21.	
		22. Leather & Leather Goods	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	22.	
		23. Stone, Clay & Glass	.000	.000	.000	.000	.000	.000	.000	.000	.045	.006	.030	.001	.019	.000	.000	.000	.000	.005	.003	.000	.000	.000	.171	.013	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.102	.000	.000	.000	23.	
		24. All Other Manufacturing	.000	.000	.000	.002	.011	.004	.005	.000	.010	.015	.015	.015	.015	.008	.018	.004	.013	.017	.008	.033	.014	.003	.005	.155	.119	.000	.000	.005	.000	.000	.000	.000	.019	.063	.016	.019	.011	.000	.000	.000	.000	.000	.000	.000	.000	24.	
Trade	Retail	25. Wholesale Trade	.003	.006	.007	.014	.017	.013	.009	.003	.014	.004	.011	.017	.045	.021	.033	.000	.006	.003	.018	.029	.009	.000	.009	.017	.012	.066	.011	.009	.030	.028	.020	.004	.016	.019	.063	.016	.019	.011	.008	.006	.000	.000	.000	25.			
		26. Service Stations	.012	.002	.007	.013	.010	.009	.007	.021	.007	.002	.008	.006	.002	.004	.005	.002	.001	.003	.010	.004	.008	.000	.001	.004	.002	.007	.001	.001	.041	.017	.015	.005	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	26.	
		27. Eating & Drinking Places	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.009	.001	.004	.002	.014	.005	.002	.005	.005	.005	.000	.001	.002	.003	.005	.010	.003	.003	.015	.002	.007	.004	.004	.004	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	27.
		28. All Other Retail	.004	.024	.018	.041	.051	.041	.027	.012	.112	.013	.009	.026	.006	.038	.004	.000	.008	.004	.015	.013	.018	.000	.009	.005	.034	.007	.010	.011	.010	.019	.016	.009	.015	.011	.008	.008	.006	.000	.000	.000	.000	.000	.000	.000	.000	28.	
Services		29. Agricultural Services	.002	.005	.003	.081	.164	.011	.339	.003	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	29.
		30. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.001	.007	.014	.002	.003	.002	.005	.002	.001	.006	.004	.003	.000	.000	.002	.015	.002	.002	.000	.002	.000	.000	.000	.000	.001	.003	.001	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	30.
		31. All Other Services (Except Professional)	.000	.000	.000	.002	.004	.003	.003	.001	.003	.015	.035	.025	.020	.039	.012	.013	.029	.007	.025	.029	.014</																										

Industry Purchasing	Industry Producing																																					
	1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetables	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	11 Copper	12 All Other Mining	13 Food & Kindred Products	14 Lumber & Wood Products	15 Furniture & Fixtures	16 Paper & Pulp	17 Chemicals	18 Paper & Pulp	19 Printing & Publishing	20 Fabricated Metals	21 Textiles & Apparel	22 Leather & Leather Goods	23 Stone, Clay & Glass	24 All Other Manufacturing	25 Wholesale Trade	26 Service Stations	27 Eating & Drinking Places	28 All Other Retail	29 Agricultural Services	30 Lodging	31 All Other Services (Except Professional)	32 Transportation	33 Electric Energy	34 All Other Utilities	35 Contract Construction	36 Rentals & Finance		
Agriculture	1. Range Livestock	.004776	.003142	.051387	.001342	.000280	.000220	.000004	.000253	.000005	.000146	.001738	.019962	.000217	.000001	.000581	.005117	.000197	.002312	.001478	.000000	.000000	.001372	.003866	.006974	.013589	.001199	.008683	.006502	.000660	.005058	.019522	.013567	.007762	.009650	.140361	1.	
	2. Feeder Livestock	.349800	.009570	.111343	.004265	.000890	.000700	.000009	.000778	.000010	.000249	.003159	.063468	.000448	.000001	.001455	.011145	.000334	.003739	.002046	.000000	.000000	.001438	.007696	.014821	.009326	.001310	.034035	.015778	.000925	.007705	.038099	.013899	.008511	.008257	.089227	2.	
	3. Dairy	.004966	.008629	.259641	.002814	.000587	.000462	.000008	.000518	.000019	.000337	.006162	.041879	.000400	.000001	.001193	.024652	.000437	.003627	.002282	.000000	.000000	.001276	.009370	.016356	.012656	.001375	.033081	.024804	.000961	.008380	.051672	.025671	.009709	.006070	.049165	3.	
	4. Forage, Feed & Food Crops	.009931	.008629	1.006283	.000241	.000050	.000040	.000007	.000065	.000067	.000690	.021873	.003584	.000379	.000001	.000804	.093338	.000825	.004942	.002908	.000000	.000000	.002054	.012453	.019916	.017990	.002162	.047530	.081753	.001390	.013958	.049503	.026380	.012631	.007381	.059239	4.	
	5. Cotton	.001294	.002995	.001187	1.004478	.000307	.000241	.000009	.000288	.000047	.000731	.015411	.021855	.000484	.000002	.001179	.063710	.000932	.005646	.003024	.000000	.000000	.002284	.023215	.024483	.018364	.002412	.058015	.164951	.001462	.018099	.038983	.032063	.019102	.009351	.083525	5.	
	6. Vegetables	.000081	.000188	.000076	.000092	1.002023	.000015	.000006	.000033	.000056	.000630	.018226	.001372	.000339	.000001	.000694	.077496	.000766	.004157	.002628	.000000	.000000	.001779	.013653	.017222	.010582	.001688	.045239	.011051	.001189	.012098	.044388	.031975	.009852	.006172	.048631	6.	
	7. Citrus Crops	.006859	.010318	.004768	.001066	.000222	1.003184	.000010	.000226	.000053	.000671	.017226	.015860	.000539	.000002	.001288	.071168	.000832	.009125	.003346	.000000	.000000	.002809	.015763	.018572	.022872	.003498	.036958	.340791	.001589	.021373	.040382	.046537	.019984	.014398	.176833	7.	
	8. Forestry	.000033	.000077	.000031	.000038	.000008	.000006	1.000002	.000013	.000001	.000082	.000286	.000561	.000089	.000000	.000255	.000128	.000115	.001563	.000944	.000000	.000000	.000517	.002712	.004537	.021572	.000579	.013153	.003012	.000327	.003857	.023254	.002897	.002852	.003434	.036162	8.	
	9. All Other Agriculture	.014183	.040469	.031257	.122113	.014892	.003109	.002445	.000036	1.006709	.000024	.000584	.007654	.221606	.001875	.000002	.006690	.028441	.000779	.010038	.003840	.000000	.000000	.002847	.020364	.032619	.012645	.002273	.127517	.033655	.001970	.020412	.040811	.042866	.018337	.012894	.068749	9.
Mining	10. Uranium	.000124	.000286	.000117	.000140	.000029	.000023	.000099	.000059	1.025736	.002245	.030816	.022089	.005188	.000003	.001297	.012490	.002987	.010817	.032722	.000000	.000000	.068737	.025425	.014604	.004488	.003352	.020808	.000045	.002659	.028869	.048109	.116352	.033401	.091830	.062943	10.	
	11. Copper	.001345	.003831	.003112	.001233	.001526	.000319	.000251	.000079	.000091	1.045081	.029728	.022710	.004134	.000010	.002295	.023758	.004671	.017632	.022724	.000000	.000000	.012991	.033320	.020955	.011462	.002280	.016116	.000476	.009142	.050642	.078100	.043594	.042559	.029023	.036003	11.	
	12. All Other Mining	.000403	.001147	.000931	.000386	.000457	.000095	.000075	.000128	.000248	.003916	.025171	1.272848	.006796	.006718	.000022	.003704	.034926	.026567	.032786	.037793	.000000	.000000	.054611	.048633	.037467	.012310	.016497	.045535	.020851	.059156	.140263	.142008	.062535	.055599	.291385	12.	
	13. Food & Kindred Products	.063390	.180635	.146720	.058015	.071954	.015020	.011813	.000089	.000019	.000850	.006046	1.070719	.004665	.000004	.017321	.016578	.001173	.019652	.005081	.000000	.000000	.005715	.037592	.060436	.009128	.003435	.028698	.022399	.004156	.034732	.071760	.038139	.021085	.027258	.089296	13.	
	14. Lumber & Wood Products	.000167	.000477	.000387	.000160	.000190	.000040	.000031	.019370	.000096	.000022	.001005	.007001	.002825	1.019485	.000005	.003502	.003616	.001388	.009034	.013229	.000000	.000000	.028012	.024041	.029614	.006926	.006180	.045027	.000119	.004574	.053135	.074836	.052900	.031319	.031324	.078319	14.
	15. Furniture & Fixtures	.000152	.000434	.000352	.000145	.000173	.000036	.000028	.000747	.000005	.000692	.001539	.002570	.039324	1.072966	.059378	.001186	.000980	.020040	.003393	.000000	.000000	.002665	.037008	.041753	.007680	.004807	.010745	.000057	.004076	.024943	.061937	.050484	.037732	.008249	.060890	15.	
	16. Paper & Pulp	.000306	.000873	.000709	.000301	.000347	.000073	.000058	.005273	.000010	.000646	.003275	.005169	.277530	.000008	1.089429	.003915	.000902	.015034	.006690	.000000	.000000	.008727	.022192	.013953	.005950	.018665	.015933	.000129	.007608	.038122	.114476	.058301	.042847	.014547	.073620	16.	
	17. Chemicals	.000190	.000541	.000440	.000184	.000216	.000045	.000035	.000032	.000132	.000722	.005051	.234693	.003208	.001680	.000007	.001951	1.026754	.005485	.017675	.009311	.000000	.000000	.011730	.031060	.017160	.004736	.009297	.015973	.000070	.006614	.047314	.061640	.056195	.030364	.020218	.114953	17.
Manufacturing	18. Primary Metals	.001171	.003337	.002710	.001078	.001329	.000277	.000218	.000091	.000296	.000312	.715384	.101330	.019778	.004804	.000010	.003104	.020182	1.024272	.025442	.026720	.000000	.000000	.021600	.052848	.023930	.012980	.005742	.020919	.000416	.009298	.051625	.100743	.080878	.058139	.044335	.080722	18.
	19. Printing & Publishing	.000406	.001156	.000938	.000380	.000460	.000096	.000076	.000411	.000162	.000009	.000767	.002833	.006848	.021615	.000008	.084202	.001349	.001078	1.026750	.010362	.000000	.000000	.007190	.020768	.025085	.012441	.007941	.020625	.000147	.007754	.037344	.048467	.038076	.029759	.020156	.059918	19.
	20. Fabricated Metals	.000239	.000681	.000553	.000227	.000271	.000057	.000045	.000024	.000240	.046233	.078022	.004035	.001240	.000008	.001818	.004622	.065662	.014224	1.084403	.000000	.000000	.006865	.058610	.040193	.007728	.008066	.022382	.000087	.007304	.046916	.046463	.055486	.035042	.018206	.068238	20.	
	21. Textiles & Apparel	.000173	.000494	.000401	.000165	.000197	.000041	.000032	.000008	.000006	.000479	.001789	.002927	.000421	.000004	.000934	.000808	.000673	.007646	.003219	1.014327	.005072	.003541	.022204	.013332	.009313	.006094	.021172	.000063	.003752	.020507	.017785	.028022	.017346	.024609	.048378	21.	
	22. Leather & Leather Goods	.015881	.045256	.036759	.014536	.018027	.003763	.002960	.000039	.003249	.000009	.000438	.002815	.268254	.002073	.000002	.007382	.004872	.000607	.014462	.003655	.025358	1.000127	.004131	.016786	.018347	.003610	.001672	.009676	.005612	.001568	.039361	.028459	.035361	.024988	.026919	.056161	22.
	23. Stone, Clay & Glass	.000212	.000605	.000492	.000200	.000241	.000050	.000040	.000028	.000095	.000575	.004120	.187015	.003587	.001450	.000004	.001885	.006259	.004507	.015083	.009122	.000000	.000000	1.215915	.026572	.021968	.005046	.005113	.021518	.000077	.004073	.057703	.114285	.059800	.035298	.018093	.076119	23.
	24. All Other Manufacturing	.001017	.002897	.002353	.000935	.001154	.000241	.000189	.000098	.000248	.000071	.018182	.022963	.017173	.000004	.009470	.016330	.025881	.015689	.019277	.000000	.000000	.022411	1.193315	.013670	.006797	.004063	.010933	.000361	.003799	.024347	.037360	.041478	.025336	.019132	.033165	24.	
Trade	25. Wholesale Trade	.000301	.000858	.000697	.000282	.000342	.000071	.000056	.000021	.000118	.000015	.002618	.004779	.005087	.000124	.000018	.002205	.003083	.003716	.008481	.007595	.000000	.000000	.006533	.156227	1.026256	.005249	.005693	.041190	.000108	.016783	.048380	.089873	.088074	.036455	.030285	.079172	25.
	26. Service Stations	.000151	.000430	.000349	.000146	.000171	.000036	.000028	.000018	.000100	.000008	.000477	.002541	.002549	.000939	.000004	.002681	.000987	.000665	.028597	.006580	.000000	.000000	.005255	.011563	.019231	1.009368	.006867	.012041	.000055	.003314	.034639	.062202	.059651				

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33		
		Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Truck Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	Zinc	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output		
Agriculture	1. Range Livestock	2,918	15,269	52	0	0	0	318	0	0	0	0	0	4,523	0	0	0	0	0	0	0	0	0	61	0	0	0	0	0	0	0	6,942	30,083	1.		
	2. Feeder Livestock	0	0	0	0	0	0	0	0	0	0	0	0	8,733	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,149	26,882	2.	
	3. Dairy	90	54	0	0	0	0	48	0	0	0	0	0	1,705	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	680	2,577	3.
	4. Food & Field Crops	0	296	0	0	0	0	0	0	0	0	0	0	2,192	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,396	6,884	4.
	5. Truck Crops	0	0	0	0	0	0	0	0	0	0	0	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,140	1,210	5.	
	6. Fruit	90	0	44	0	0	0	0	0	0	0	0	0	1,635	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,682	9,451	6.	
	7. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,367	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,291	3,658	7.	
	8. All Other Agriculture	0	0	0	0	0	0	0	0	0	0	0	0	0	1,009	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,400	2,409	8.	
Mining	9. Coal	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	3	6	0	0	0	0	0	0	17	47	0	1,566	150	0	0	6,380	8,177	9.		
	10. Oil & Gas	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	1,015	10.	
	11. Uranium	0	0	0	0	0	0	0	0	0	16,271	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72,640	88,911	11.	
	12. Zinc	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,317	16,333	12.	
	13. All Other Mining	0	0	0	0	0	0	0	0	0	1,067	16	9	0	0	0	0	733	0	0	0	0	0	0	0	0	0	0	0	0	2,444	0	4,613	8,883	13.	
Manufacturing	14. Food & Kindred Products	0	4,355	111	0	0	0	241	0	0	0	0	0	209	0	0	0	0	0	0	0	0	3,561	27	524	141	0	0	0	0	25,625	34,794	14.			
	15. Lumber & Wood Products	30	0	0	0	0	9	0	0	0	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	144	0	5,868	6,229	15.		
	16. Printing & Publishing	0	0	0	0	0	9	0	0	8	1	0	62	70	0	125	3	11	73	0	9	5,354	263	34	35	328	64	15	210	0	351	341	7,366	16.		
	17. Fabricated Metals	0	0	0	0	0	0	0	0	0	445	278	107	0	0	0	3	0	18	0	0	0	0	0	0	0	0	15	0	288	0	1,418	2,570	17.		
	18. Stone, Clay & Glass	0	0	0	0	0	0	0	0	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,301	0	384	2,832	18.		
	19. All Other Manufacturing	511	27	57	503	39	132	77	12	82	15	356	131	53	418	56	29	162	147	110	43	9	272	29	191	35	47	7,252	91	270	1,582	175	5,341	18,253	19.	
	20. Wholesale Trade	301	27	28	89	11	66	26	14	0	14	356	98	133	244	12	15	3	8	55	85	9	272	1,372	68	122	703	706	15	120	575	88	37,088	42,724	20.	
Trade	21. Service Stations	301	27	26	151	4	47	44	26	0	6	89	0	9	209	31	7	3	17	18	43	0	91	29	55	0	0	1,219	15	30	431	88	5,706	8,722	21.	
	22. All Other Retail	632	54	64	110	37	180	26	12	0	11	89	0	36	35	12	37	5	3	55	85	26	363	438	27	245	328	193	30	288	263	87,015	90,788	22.		
	23. Eating & Drinking Places	30	0	3	0	0	0	0	0	0	1	0	0	0	35	0	7	0	0	55	43	9	91	0	0	0	47	64	15	30	144	88	28,530	29,191	23.	
Services	24. Agricultural Services	722	430	271	503	520	4,291	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	28	6,829	24.		
	25. Lodging	0	0	0	0	0	0	0	0	1	0	0	0	35	0	0	0	0	37	43	0	0	0	0	35	0	0	0	0	0	0	17,291	17,471	25.		
	26. All Other Services (Except Professional)	90	54	3	76	1	38	7	14	8	43	178	49	36	209	31	44	26	17	73	513	140	2,269	263	55	734	1,688	2,182	152	600	1,150	1,052	35,105	46,897	26.	
Utilities	27. Transportation	361	699	144	110	1	9	0	51	0	23	8,358	0	0	70	710	37	28	68	274	4,186	366	4,719	263	20	87	281	2,310	61	30	2,157	88	38,668	64,180	27.	
	28. Electric Energy	120	27	36	28	5	38	0	17	237	10	445	572	187	348	137	88	15	45	219	214	253	1,361	525	164	594	1,641	64	1,596	120	144	614	5,341	15,205	28.	
	29. Other Utilities	60	0	5	14	1	9	0	12	82	2	267	65	89	209	44	110	13	31	110	342	113	1,633	759	34	856	1,453	193	152	360	431	877	21,670	29,997	29.	
	30. Contract Construction	0	0	0	0	0	0	0	0	0	16	89	16	0	35	0	15	0	0	128	256	52	726	642	0	367	281	257	46	1,200	42,994	263	96,428	143,811	30.	
	31. Rentals and Finance	1,203	457	67	48	17	57	84	34	155	82	89	16	71	139	106	103	5	42	310	2,136	297	6,806	701	116	646	1,266	1,027	304	480	2,876	2,192	65,745	87,678	31.	
	32. Final Payments	22,624	5,106	1,666	5,252	574	4,566	3,396	1,552	7,450	775	60,634	15,076	8,091	12,662	2,723	6,749	2,301	1,704	16,718	34,735	7,439	66,831	20,346	5,970	13,174	38,646	48,649	11,132	26,277	85,862	81,539			32.	
	33. Total Gross Outlays	30,083	26,882	2,577	6,884	1,210	9,451	3,658	2,409	8,177	1,015	88,911	16,333	8,883	34,794	6,229	7,366	2,570	2,832	18,253	42,724	8,722	90,788	29,191	6,829	17,471	46,897	64,180	15,205	29,997	143,811	87,678			33.	

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

Industry Producing		Industry Purchasing																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
		Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Truck Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	Zinc	All Other Mining	Food and Kindred Products	Lumber and Wood Products	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating and Drinking Places	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals and Finance			
Agriculture	1. Range Livestock	.097	.568	.020	.000	.000	.000	.000	.132	.000	.000	.000	.000	.000	.130	.000	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000	1.			
	2. Feeder Livestock	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.251	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.			
	3. Dairy	.003	.002	.000	.000	.000	.000	.000	.020	.000	.000	.000	.000	.000	.049	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.		
	4. Food and Field Crops	.000	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.		
	5. Truck Crops	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.		
	6. Fruit	.003	.000	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.047	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.	
	7. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.380	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.	
	8. All Other Agriculture	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.	
Mining	9. Coal	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001	.002	.000	.000	.000	.000	.000	.000	.000	.001	.001	.000	.103	.005	.000	.000	9.		
	10. Oil and Gas	.000	.000	.000	.000	.000	.000	.000	.000	.000	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.	
	11. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.183	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	11.
	12. Zinc	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	12.
	13. All Other Mining	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.001	.001	.000	.000	.000	.000	.259	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	13.
Manufacturing	14. Food and Kindred Products	.000	.162	.043	.000	.000	.000	.000	.100	.000	.000	.000	.000	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.122	.004	.030	.003	.000	.000	.000	.000	.000	14.		
	15. Lumber and Wood Products	.001	.000	.000	.000	.000	.001	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	15.	
	16. Printing and Publishing	.000	.000	.000	.000	.000	.001	.000	.000	.001	.001	.000	.000	.007	.002	.000	.017	.001	.004	.004	.000	.001	.059	.009	.005	.002	.007	.001	.001	.007	.000	.000	.000	16.	
	17. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.017	.012	.000	.000	.000	.001	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	17.
	18. Stone, Clay and Glass Products	.000	.000	.000	.000	.000	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	18.
	19. All Other Manufacturing	.017	.001	.022	.073	.032	.014	.021	.005	.010	.015	.004	.008	.006	.012	.009	.004	.063	.052	.006	.001	.001	.003	.001	.028	.002	.001	.113	.006	.009	.011	.002	.000	19.	
	Trade	20. Wholesale Trade	.010	.001	.011	.013	.009	.007	.007	.006	.000	.014	.004	.006	.015	.007	.002	.002	.001	.003	.003	.002	.001	.003	.047	.010	.007	.015	.011	.001	.004	.004	.001	.000	20.
21. Service Stations		.010	.001	.010	.022	.003	.005	.012	.011	.000	.006	.001	.000	.001	.006	.005	.001	.001	.006	.001	.001	.000	.001	.001	.008	.000	.000	.019	.001	.001	.003	.001	.000	21.	
22. All Other Retail		.021	.002	.025	.016	.031	.019	.007	.005	.000	.011	.001	.000	.004	.001	.002	.005	.002	.001	.003	.002	.003	.004	.015	.004	.014	.007	.003	.002	.003	.002	.003	.000	.000	22.
23. Eating and Drinking Places		.001	.000	.001	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.001	.000	.001	.000	.000	.003	.001	.001	.001	.000	.000	.000	.000	.001	.001	.001	.001	.001	.000	.000	23.
Services	24. Agricultural Services	.024	.016	.105	.073	.430	.454	.000	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.001	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	24.	
	25. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.001	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	25.
Utilities	26. All Other Services (Except Professional)	.003	.002	.001	.011	.001	.004	.002	.006	.001	.042	.002	.003	.004	.006	.005	.006	.010	.006	.004	.012	.016	.025	.009	.008	.042	.036	.034	.010	.020	.008	.012	.000	26.	
	27. Transportation	.012	.026	.056	.016	.001	.001	.000	.021	.000	.023	.094	.000	.000	.002	.114	.005	.011	.024	.015	.098	.042	.052	.009	.003	.005	.006	.036	.036	.004	.001	.015	.001	.000	27.
	28. Electric Energy	.004	.001	.014	.004	.004	.004	.000	.007	.029	.010	.005	.035	.021	.010	.022	.012	.006	.016	.012	.005	.029	.015	.018	.024	.034	.035	.001	.105	.004	.001	.007	.000	.000	28.
	29. Other Utilities	.002	.000	.002	.002	.001	.001	.000	.005	.010	.002	.003	.004	.010	.006	.007	.015	.005	.011	.006	.008	.013	.018	.026	.005	.049	.031	.003	.010	.012	.003	.010	.000	.000	29.
	30. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.016	.001	.001	.000	.001	.000	.002	.000	.000	.007	.006	.006	.008	.022	.000	.021	.006	.004	.003	.040	.299	.003	.000	.000	30.
	31. Rentals and Finance	.040	.017	.026	.007	.014	.006	.023	.014	.019	.081	.001	.001	.008	.004	.017	.014	.002	.015	.017	.050	.034	.075	.024	.017	.037	.027	.016	.020	.016	.020	.025	.000	31.	

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing	Industry Producing																22	23	24	25	26	27	28	29	30	31								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16											17	18	19	20	21			
		Range Livestock	Feeder Livestock	Dairy	Food and Field Crops	Truck Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil and Gas	Uranium	Zinc	All Other Mining	Food and Kindred Products	Lumber and Wood Products	Printing & Publishing	Fabricated Metals	Stone, Clay and Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricultural Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance		
Agriculture	1. Range Livestock	1.107919	.000116	.003347	.000030	.000001	.003402	.000423	.000013	.000824	.000000	.000000	.000000	.000033	.000462	.001113	.002014	.000033	.000037	.022247	.012045	.011838	.024067	.001316	.028519	.000061	.006233	.017773	.007730	.004152	.001390	.050164	1.	
	2. Feeder Livestock	.682156	1.043014	.012629	.022269	.000343	.010316	.000264	.004970	.001022	.000000	.000000	.000000	.000042	.171369	.000694	.002145	.000037	.000047	.023107	.010910	.010868	.018264	.001097	.041003	.000234	.009286	.041546	.009594	.004579	.001760	.052325	2.	
	3. Dairy	.037446	.011556	1.002418	.003028	.000092	.019317	.000022	.001335	.002283	.000000	.000000	.000000	.000053	.046042	.000059	.002847	.000061	.000073	.034849	.014268	.013154	.027536	.001385	.115516	.000135	.006902	.063861	.021821	.005124	.001985	.036689	3.	
	4. Food and Field Crops	.00853	.000102	.000023	1.000027	.000001	.000022	.000001	.000012	.001006	.000000	.000000	.000000	.000045	.000406	.000003	.001962	.000092	.000049	.078263	.014609	.023155	.016976	.000359	.073110	.000176	.014522	.021664	.009402	.004428	.001921	.013848	4.	
	5. Truck Crops	.004869	.000471	.000109	.000123	1.000004	.000105	.000003	.000054	.001908	.000000	.000000	.000000	.000043	.001877	.000007	.004618	.000068	.000060	.045631	.013920	.006795	.033388	.000269	.430626	.000112	.006913	.006894	.018185	.005108	.001626	.027314	5.	
	6. Fruit	.005139	.000496	.000114	.000130	.000004	1.000110	.000382	.000057	.001944	.000000	.000000	.000000	.000036	.001977	.001007	.004950	.000050	.000056	.028076	.012098	.008944	.021387	.000198	.454661	.000075	.009718	.006084	.018520	.004925	.001287	.018382	6.	
	7. Forestry	.000608	.000007	.000001	.000002	.000000	.000001	1.000000	.000001	.000130	.000000	.000000	.000000	.000015	.000027	.000001	.000672	.000024	.000013	.021486	.007223	.012106	.007261	.000125	.000001	.000051	.003077	.002056	.001188	.000874	.000672	.025505	7.	
	8. All Other Agriculture	.179739	.026765	.025880	.007012	.000213	.005991	.000071	1.003092	.001386	.000000	.000000	.000000	.000039	.106632	.000187	.001395	.000032	.000050	.015260	.010055	.014873	.010435	.000484	.034892	.000155	.010362	.029452	.012962	.007783	.001535	.027440	8.	
Mining	9. Coal	.000007	.000005	.000001	.000001	.000000	.000001	.000000	.000001	1.004547	.000000	.000000	.000000	.004710	.000022	.000001	.001409	.000104	.018098	.011557	.000315	.000213	.000267	.000107	.000001	.000035	.002131	.000898	.033476	.011149	.001025	.021128	9.	
	10. Oil and Gas	.000109	.000089	.000018	.000023	.000001	.000017	.000010	.000010	.001618	1.015228	.000000	.000000	.000539	.000355	.000025	.002657	.000091	.000431	.019277	.015683	.006867	.012163	.001322	.000016	.001077	.047601	.027972	.014944	.005482	.025105	.089510	10.	
	11. Uranium	.000017	.000014	.000003	.000004	.000000	.000003	.000031	.000001	.004150	.000000	.000000	1.223990	.000000	.014773	.000054	.002451	.000551	.006338	.000067	.019405	.006719	.003627	.001873	.000221	.000002	.000051	.007511	.121106	.008272	.004943	.003154	.004954	11.
	12. Zinc	.000008	.000006	.000001	.000002	.000000	.000001	.000001	.000001	.004150	.000000	.000000	1.001001	.001066	.000025	.000002	.000200	.017101	.000108	.009660	.006231	.000113	.000223	.000091	.000001	.000031	.004040	.001232	.039804	.004882	.002088	.002741	12.	
	13. All Other Mining	.000010	.000008	.000002	.000002	.000000	.000002	.000000	.000001	.002589	.000000	.000000	.000000	.000000	1.001037	.000032	.000001	.000762	.012059	.000065	.007447	.015306	.001142	.004303	.000106	.000001	.000041	.005391	.002309	.024402	.011137	.001135	.010584	13.
Manufacturing	14. Food and Kindred Products	.324611	.264823	.053814	.069383	.002110	.051477	.000144	.030597	.001977	.000000	.000000	.000000	.000078	1.055071	.000379	.003688	.000056	.000088	.030070	.014226	.013442	.012831	.001664	.047803	.001141	.012299	.022047	.018571	.009609	.003273	.030022	14.	
	15. Lumber and Wood Products	.000025	.000020	.000004	.000005	.000000	.000004	.380001	.000002	.002790	.000000	.000000	.000000	.000057	.000080	1.000002	.000897	.000063	.000084	.031196	.006416	.011968	.005457	.000319	.000004	.000078	.011658	.120480	.026508	.008962	.002092	.031226	15.	
	16. Printing and Publishing	.000051	.000042	.000009	.000011	.000000	.000008	.000002	.000005	.001579	.000000	.000000	.000000	.000000	.000097	.000167	.000004	1.017908	.000029	.000096	.005168	.002423	.001212	.005361	.001108	.000008	.000029	.007505	.006171	.014447	.016247	.004242	.016310	16.
	17. Fabricated Metals	.000022	.000018	.000004	.000005	.000000	.000004	.000001	.000002	.001900	.000000	.000000	.000000	.000000	.000036	.000073	.000001	.001599	1.001077	.000055	.065101	.001583	.001342	.002399	.000247	.000003	.000138	.011515	.012936	.008301	.006127	.001295	.004404	17.
	18. Stone, Clay and Glass Products	.000023	.000018	.000004	.000005	.000000	.000004	.000001	.000002	.004770	.000000	.000000	.000000	.000000	.259326	.000074	.000002	.006645	.003203	1.000119	.057667	.007690	.006927	.002620	.000299	.000003	.000139	.009740	.027336	.025974	.015363	.002081	.021112	18.
	19. All Other Manufacturing	.000149	.000121	.000025	.000032	.000001	.000024	.000004	.000014	.001525	.000000	.000000	.000000	.000000	.000240	.000483	.000011	.004548	.001049	.000204	1.008398	.003601	.001423	.003377	.003113	.000022	.002032	.005724	.016685	.014356	.007120	.011018	.019414	19.
Trade	20. Wholesale Trade	.000077	.000063	.000013	.000016	.000000	.000012	.000004	.000007	.000824	.000000	.000000	.000000	.000224	.000249	.000011	.000770	.000044	.000182	.013134	1.003670	.003085	.002769	.001253	.000011	.001042	.017420	.102921	.007325	.009929	.010422	.054827	20.	
	21. Service Stations	.000066	.000054	.000011	.000014	.000000	.000011	.000004	.000006	.003597	.000000	.000000	.000000	.000235	.000216	.000010	.001759	.000064	.000230	.006712	.002060	1.000985	.003591	.001190	.000010	.000031	.019587	.044629	.033966	.014906	.010318	.037970	21.	
	22. All Other Retail	.000083	.000067	.000014	.000018	.000001	.000013	.000005	.000008	.002204	.000000	.000000	.000000	.000309	.000269	.000014	.061172	.000062	.000265	.010358	.004567	.002315	1.005157	.001328	.000012	.000047	.030370	.055889	.020023	.021634	.014100	.081598	22.	
Services	23. Eating and Drinking Places	.039625	.032326	.006569	.008469	.000258	.006284	.000031	.003735	.002656	.000000	.000000	.000000	.000743	.128791	.000080	.011031	.000110	.000600	.007545	.049604	.003211	.017228	1.000434	.005835	.000223	.014010	.018705	.024182	.029495	.034504	.034509	23.	
	24. Agricultural Services	.011299	.001076	.000249	.000282	.000009	.000240	.000005	.000124	.002985	.000000	.000000	.000000	.000040	.004286	.000013	.005755	.000061	.000074	.029531	.010614	.008383	.004681	.000207	1.001452	.000081	.009846	.005737	.028536	.006539	.001244	.020921	24.	
	25. Lodging	.009815	.008007	.001627	.002098	.000064	.001556	.000017	.000925	.005619	.000000	.000000	.000000	.000751	.031900	.000046	.004018	.000125	.000649	.005254	.008777	.000837	.015327	.000318	.001445	1.002108	.047220	.008743	.041724	.052956	.034242	.044630	25.	
	26. All Other Services	.001061	.000866	.000176	.000227	.000007	.000168	.000005	.000100	.005516	.000000	.000000	.000000	.000270	.003449	.000013	.008339	.000071	.000284	.003079	.016143	.000397	.007788	.001215	.000156	.000060	1.039834	.009145	.041751	.033986	.011539	.032442	26.	
Utilities	27. Transportation	.000100	.000082	.000017	.000021	.000001	.000016	.000003	.000009	.000621	.000000	.000000	.000000	.000179	.000325	.000008	.002234	.000143	.000144	.118809	.012622	.020001	.004007	.001518	.000015	.000257	.038410	1.042023	.005359	.005934	.008306	.022369	27.	
	28. Electric Energy	.000061	.000050	.000010	.000013	.000000	.000010	.000002	.000006	.115786	.000000	.000000	.000000	.000668	.000199	.000006	.001779	.001152	.002180	.009030	.016000	.001318	.002565	.001221	.000009	.000033	.012815	.005463	1.122184	.013468	.006015	.026650	28.	
	29. Other Utilities	.000078	.000064	.000013	.000017	.000001	.000012	.000022	.000007	.005749	.000000	.000000	.000000	.001264	.000254	.000059	.007756	.000149	.001039	.010472	.004840	.001314	.003535	.001173	.000012	.001042	.022283	.003145	.006303	1.013766	.058455	.019708	29.	
	30. Contract Construction	.000077	.000063	.000013	.000016	.000001	.000012	.000543	.000007	.000529	.000000	.000000	.000000	.030220	.000250	.001428	.000926	.003246	.022853	.020402	.006954	.005013	.003443	.001587	.000011	.000054	.013967	.024587	.004222	.006177	1.427701	.032131	30.	
	31. Rentals and Finance	.000056	.000046	.000009	.000012	.000000	.000009	.000002	.000005	.000984	.000000	.000000	.000000	.000000	.000117	.000183	.000005	.004588	.000023	.000103	.002544	.001408	.001112	.003311	.001086	.000008	.000018	.013389	.001730	.008871	.011141	.005326	1.027044	31.

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
UPPER MAIN-STEM SUB-BASIN 1980
Table UMS-1980-c

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
		Range Livestock	Feeder Livestock	Dairy	Food & Kindred Products	Truck Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	Zinc	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Fabricated Metals	Stone, Clay, & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output
Agriculture	1. Range Livestock	4,216	25,505	70	0	0	0	264	0	0	0	0	0	6,314	0	0	0	0	0	0	0	0	0	108	0	0	0	0	0	0	0	7,901	44,377	
	2. Feeder Livestock	0	0	0	0	0	0	0	0	0	0	0	0	13,279	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,862	45,141
	3. Dairy	133	90	0	0	0	0	40	0	0	0	0	0	2,405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	655	3,324
	4. Food & Field Crops	0	497	0	0	0	0	0	0	0	0	0	0	2,806	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,758	8,061
	5. Truck Crops	0	0	0	0	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,729	1,879
	6. Fruit	222	0	60	0	0	16	0	0	0	0	0	0	2,455	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,900	15,653	
	7. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,106	0	0	0	1,787	0	0	0	0	0	0	0	0	0	0	0	0	2,118	8,011
	8. All Other Agriculture	0	0	3	8	2	0	0	2	0	0	0	0	802	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,180	1,997
Mining	9. Coal	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	137	0	3,352	505	0	0	0	5,891	9,954	
	10. Oil & Gas	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	1,016	
	11. Uranium	0	0	0	0	0	0	0	0	0	15,784	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70,000	85,784	
	12. Zinc	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,431	22,453	
	13. All Other Mining	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	1,066	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22,431
Manufacturing	14. Food & Kindred Products	0	7,313	146	0	0	0	202	0	0	1,115	45	11	0	351	0	0	0	0	0	0	0	9,317	43	1,513	411	0	0	3,531	0	5,233	11,001		
	15. Lumber & Wood Products	44	0	0	0	0	16	0	0	0	172	0	0	0	0	0	0	0	596	0	0	0	0	0	0	0	0	0	208	0	9,770	10,805		
	16. Printing & Publishing	0	0	3	8	0	16	0	0	10	1	86	0	77	100	11	332	4	21	128	0	17	12,622	722	54	98	1,095	81	31	505	208	842	419	17,491
	17. Fabricated Metals	0	0	0	0	0	0	0	0	0	515	404	132	0	0	0	0	8	0	43	0	0	0	0	0	0	0	31	0	415	0	2,328	3,876	
	18. Stone, Clay & Glass	0	0	0	0	0	0	0	0	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,531	0	406	4,116	
	19. All Other Manufacturing	799	45	80	596	62	235	176	50	109	17	429	225	77	852	108	385	248	218	298	573	17	1,425	131	346	98	548	9,359	282	618	2,493	421	21,235	42,555
	20. Wholesale Trade	488	90	37	113	19	125	56	12	0	15	343	135	176	401	22	35	4	12	128	191	35	814	3,346	108	390	2,601	895	63	225	831	210	83,567	95,487
Trade	21. Service Stations	444	45	37	177	6	78	96	22	6	86	22	11	351	65	17	4	25	43	95	0	204	66	87	0	1,628	63	56	623	210	12,857	17,423		
	22. All Other Retail	932	135	86	137	60	313	64	12	0	11	172	0	55	100	22	87	8	4	128	191	52	814	984	43	732	958	244	63	168	415	631	196,062	203,686
	23. Eating & Drinking Places	44	0	3	0	0	0	0	0	0	2	86	0	0	50	0	17	0	0	85	95	17	204	0	0	0	137	81	31	56	208	210	64,283	65,612
Services	24. Agricultural Services	1,154	767	352	596	810	6,997	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	116	10,816	
	25. Lodging	0	0	0	0	0	0	0	0	1	0	0	0	50	0	0	0	0	85	95	0	0	0	0	98	0	0	31	56	208	210	47,977	48,812	
	26. All Other Services (Except Professional)	133	90	3	89	2	63	16	14	20	43	172	67	55	351	54	105	47	25	298	1,241	279	5,090	590	87	2,148	5,066	2,848	376	1,235	1,662	2,736	111,946	136,948
Utilities	27. Transportation	533	1,174	189	137	2	16	44	0	24	8,150	0	11	150	1,232	87	0	99	1,872	9,643	732	9,772	590	32	244	821	3,011	157	112	3,324	210	39,016	81,385	
	28. Electric Energy	266	45	50	32	9	78	16	299	12	515	808	242	601	249	227	47	74	596	573	540	3,054	1,247	260	1,660	5,750	81	3,478	281	208	1,473	8,561	31,331	
	29. Other Utilities	89	0	7	16	2	16	0	10	109	2	257	90	110	301	108	262	31	49	766	764	226	3,665	1,706	54	2,441	5,339	244	345	786	623	2,104	35,651	56,173
	30. Contract Construction	0	0	0	0	0	0	0	0	17	86	22	0	50	0	17	27	0	213	573	122	1,629	1,706	0	1,074	958	407	157	2,583	63,978	631	133,494	207,745	
	31. Rentals and Finance	1,864	858	93	64	28	125	200	30	209	83	172	45	110	301	194	280	0	66	1,532	4,869	627	15,473	1,706	205	2,148	3,970	1,628	752	1,123	5,401	5,682	160,598	210,436
	32. Final Payments	33,016	8,487	2,105	6,088	877	7,559	7,403	1,267	8,999	766	57,644	20,568	9,934	17,890	4,634	15,640	3,448	2,457	33,957	76,584	14,759	148,920	43,501	9,378	36,119	109,157	60,878	22,119	47,864	119,878	194,866		
33. Total Gross Outlays	44,377	45,141	3,324	8,061	1,879	15,653	8,011	1,997	9,954	1,016	85,784	22,453	11,001	50,110	10,805	17,491	3,876	4,116	42,555	95,487	17,423	203,686	65,612	10,816	48,812	136,948	81,385	31,331	56,173	207,745	210,436			

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

		Industry Purchasing																														
		1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Food & Field Crops	5 Truck Crops	6 Fruit	7 Forestry	8 All Other Agriculture	9 Coal	10 Oil & Gas	11 Uranium	12 Zinc	13 All Other Mining	14 Food & Kindred Products	15 Lumber & Wood Products	16 Printing & Publishing	17 Fabricated Metals	18 Stone, Clay & Glass	19 All Other Manufacturing	20 Wholesale Trade	21 Service Stations	22 All Other Retail	23 Eating & Drinking Places	24 Agricultural Services	25 Lodging	26 All Other Services	27 Transportation	28 Electric Energy	29 Other Utilities	30 Contract Construction	31 Rentals & Finance
Industry Producing																																
Agriculture	1. Range Livestock	.095	.565	.021	.000	.000	.000	.132	.000	.000	.000	.000	.000	.126	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.010	.000	.000	.000	.000	.000	.000	.000
	2. Feeder Livestock	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.265	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	3. Dairy	.003	.002	.000	.000	.000	.000	.000	.020	.000	.000	.000	.000	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	4. Food & Field Crops	.000	.011	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.056	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	5. Truck Crops	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	6. Fruit	.005	.000	.018	.000	.000	.001	.000	.000	.000	.000	.000	.000	.049	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	7. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.380	.000	.000	.000	.000	.042	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	8. All Other Agriculture	.000	.000	.001	.001	.001	.000	.000	.001	.000	.000	.000	.000	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Mining	9. Coal	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.001	.000	.107	.009	.000	.000	
	10. Oil & Gas	.000	.000	.000	.000	.000	.000	.000	.000	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	11. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.000	.184	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	12. Zinc	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	13. All Other Mining	.000	.000	.000	.000	.000	.000	.000	.000	.000	.013	.002	.001	.000	.000	.000	.000	.259	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.017	.000	
Manufacturing	14. Food & Kindred Products	.000	.162	.044	.000	.000	.000	.101	.000	.000	.000	.000	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.142	.004	.031	.003	.000	.000	.000	.000		
	15. Lumber & Wood Products	.001	.000	.000	.000	.000	.001	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		
	16. Printing & Publishing	.000	.000	.001	.001	.000	.001	.000	.000	.001	.001	.001	.000	.007	.002	.001	.019	.001	.005	.003	.000	.001	.062	.011	.005	.002	.008	.001	.001	.009		
	17. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.006	.018	.000	.000	.000	.002	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000		
	18. Stone, Clay & Glass	.000	.000	.000	.000	.000	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.017	.000	
	19. All Other Manufacturing	.018	.001	.024	.074	.033	.015	.022	.025	.011	.017	.005	.010	.007	.017	.010	.022	.064	.053	.007	.006	.001	.007	.002	.032	.002	.004	.115	.009	.011	.012	
	20. Wholesale Trade	.011	.002	.011	.014	.010	.008	.007	.006	.000	.015	.004	.006	.016	.008	.002	.002	.001	.003	.003	.002	.002	.004	.051	.010	.008	.019	.011	.002	.004	.001	
	21. Service Stations	.010	.001	.011	.022	.003	.005	.012	.011	.000	.006	.001	.001	.001	.007	.006	.001	.001	.006	.001	.001	.000	.001	.001	.008	.000	.000	.020	.002	.001	.003	
Trade	22. All Other Retail	.021	.003	.026	.017	.032	.020	.008	.006	.000	.011	.002	.000	.005	.002	.005	.002	.001	.003	.002	.003	.004	.015	.004	.015	.007	.003	.002	.003	.002		
	23. Eating & Drinking Places	.001	.000	.001	.000	.000	.000	.000	.000	.002	.001	.000	.000	.001	.000	.001	.000	.000	.002	.001	.001	.001	.000	.000	.000	.001	.001	.001	.001	.001		
	24. Agricultural Services	.026	.017	.106	.074	.431	.447	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000		
Services	25. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.001	.000	.000	.000	.000	.002	.001	.000	.000	.000	.000	.002	.000	.000	.000	.001	.001		
	26. All Other Services	.003	.002	.001	.011	.001	.004	.002	.007	.002	.042	.002	.003	.005	.007	.005	.012	.006	.007	.013	.016	.025	.009	.008	.044	.037	.035	.012	.022	.008		
	27. Transportation	.012	.026	.057	.017	.001	.001	.000	.022	.000	.024	.095	.000	.001	.003	.114	.005	.000	.024	.044	.101	.042	.048	.009	.003	.005	.034	.042	.037	.037		
Utilities	28. Electric Energy	.006	.001	.015	.004	.005	.005	.008	.030	.012	.006	.036	.022	.012	.023	.013	.012	.018	.014	.006	.031	.015	.019	.024	.034	.042	.001	.111	.005	.001		
	29. Other Utilities	.002	.000	.002	.002	.001	.001	.000	.005	.011	.002	.003	.004	.010	.006	.010	.015	.008	.012	.018	.008	.013	.018	.026	.005	.050	.039	.003	.011	.014		
	30. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.017	.001	.001	.000	.001	.000	.001	.000	.005	.006	.007	.008	.026	.000	.022	.007	.005	.046	.308	.003		
	31. Rentals & Finance	.042	.019	.028	.008	.015	.008	.025	.015	.021	.082	.002	.002	.010	.006	.018	.016	.000	.036	.051	.036	.076	.026	.019	.044	.029	.020	.024	.020	.026		

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing	Industry Producing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Truck Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	Zinc	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricultural Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Agriculture	1. Range Livestock	1.105556	.000135	.003342	.000030	.000002	.005619	.001562	.000012	.001189	.000000	.000000	.000000	.000039	.000509	.001450	.002147	.000038	.000048	.024083	.013301	.011929	.024125	.001305	.031647	.000133	.006617	.018687	.010631	.004652	.001567	.053553
	2. Feeder Livestock	.677824	1.045520	.012425	.021120	.000515	.012042	.001470	.002785	.001345	.000000	.000000	.000000	.000050	.171775	.001049	.002381	.000042	.000059	.025501	.012961	.011108	.019522	.001089	.043943	.000313	.009947	.042892	.012011	.005168	.002028	.057637
	3. Dairy	.039236	.012546	1.002450	.002789	.000142	.020581	.001856	.001765	.002616	.000000	.000000	.000000	.000062	.047343	.000604	.004089	.000068	.000087	.038717	.014632	.014430	.028773	.002376	.117088	.000213	.007589	.066527	.023834	.005911	.002320	.041163
	4. Food & Field Crops	.001126	.000138	.000049	1.000031	.000002	.000032	.003817	.001009	.001147	.000000	.000000	.000000	.000049	.000521	.001132	.003104	.000096	.000056	.080641	.015850	.023352	.018080	.000299	.074134	.000213	.015199	.025563	.010072	.005720	.002057	.017446
	5. Truck Crops	.005533	.000530	.000134	.000118	1.000006	.000128	.002332	.001033	.002192	.000000	.000000	.000000	.000049	.001999	.000697	.004821	.000073	.000070	.049227	.015115	.006932	.034483	.000242	.431674	.000175	.007427	.008698	.019875	.005958	.001793	.030969
	6. Fruit	.005556	.000519	.000112	.000115	.000006	1.001127	.001867	.000032	.002200	.000000	.000000	.000000	.000042	.001959	.001447	.005093	.000055	.000065	.031349	.013199	.008987	.022447	.000187	.448128	.000128	.010066	.007289	.019963	.005525	.001477	.022500
	7. Forestry	.000009	.000008	.000001	.000002	.000000	.000002	1.001077	.000000	.000164	.000000	.000000	.000000	.000016	.000030	.000319	.000767	.000026	.000015	.022757	.007291	.012146	.008294	.000112	.000001	.000085	.003311	.002864	.001394	.001255	.000725	.028310
	8. All Other Agriculture	.179956	.028619	.025836	.006363	.000324	.006663	.001801	1.002763	.001707	.000000	.000000	.000000	.000051	.107997	.000700	.001576	.000056	.000065	.036538	.010462	.015022	.011682	.000526	.017527	.000248	.011955	.032302	.015089	.008568	.001995	.030789
Mining	9. Coal	.000009	.000008	.000002	.000002	.000000	.000002	.000611	.000000	1.005885	.000000	.000000	.004723	.000030	.000182	.001492	.000108	.018129	.012906	.000417	.000277	.000311	.000106	.000001	.000099	.003468	.001426	.035110	.012552	.001351	.023935	
	10. Oil & Gas	.000168	.000144	.000027	.000032	.000002	.000028	.001061	.000009	.002035	1.016260	.000000	.000000	.000594	.000544	.000338	.002829	.000102	.000500	.022199	.017079	.006998	.012251	.002339	.000025	.001225	.048201	.030111	.017989	.006348	.027276	.092208
	11. Uranium	.000076	.000065	.000012	.000014	.000001	.000013	.001952	.000004	.001145	.000000	1.225490	.000000	.016031	.000245	.002756	.001952	.007599	.000083	.021530	.006942	.003842	.003200	.001443	.000011	.000077	.008048	.123490	.010138	.005523	.003647	.007684
	12. Zinc	.000009	.000008	.000002	.000002	.000000	.000002	.000572	.000000	.004507	.000000	.000000	1.001001	.002079	.000030	.000171	.000243	.018138	.000124	.012062	.006340	.001182	.000262	.000092	.000001	.000084	.004351	.001610	.041553	.005278	.002520	.004414
	13. All Other Mining	.000013	.000011	.000002	.000002	.000000	.000002	.000430	.000001	.002903	.000000	.000000	.000000	1.001047	.000041	.000129	.007775	.012075	.000078	.009070	.016427	.001216	.005349	.000112	.000002	.000087	.006776	.003797	.026041	.011534	.001531	.013361
Manufacturing	14. Food & Kindred Products	.326393	.280197	.052633	.062294	.003172	.054444	.001894	.017053	.002521	.000000	.000000	.000000	.000091	1.057346	.000902	.004052	.000068	.000108	.036942	.016150	.014462	.014416	.001671	.049294	.001222	.013967	.024952	.022493	.010445	.003690	.035790
	15. Lumber & Wood Products	.000028	.000024	.000004	.000005	.000000	.000005	.381581	.000001	.003154	.000000	.000000	.000000	.000073	.000090	1.000470	.000232	.000068	.000103	.033381	.006586	.013182	.005905	.000307	.000004	.000152	.012288	.121870	.028235	.012710	.002725	.034865
	16. Printing & Publishing	.000062	.000053	.000010	.000012	.000001	.000010	.001138	.000003	.001897	.000000	.000000	.000000	.000078	.000201	.000339	1.020131	.000048	.000089	.024012	.002577	.001297	.005461	.001149	.000009	.000107	.007900	.007293	.016195	.016883	.003251	.019612
	17. Fabricated Metals	.000024	.000021	.000004	.000005	.000000	.000004	.003112	.000001	.001774	.000000	.000000	.000000	.000258	.000079	.000931	.001645	1.002112	.000230	.065677	.001688	.001278	.002468	.000198	.000004	.000175	.013837	.003872	.015553	.010292	.011666	.004342
	18. Stone, Clay & Glass	.000024	.000021	.000004	.000005	.000000	.000004	.002830	.000001	.003287	.000000	.000000	.000000	.259327	.000079	.000840	.007745	.003212	1.000101	.059792	.008118	.007084	.002955	.000259	.000004	.000202	.010626	.029698	.029094	.017406	.002464	.024615
	19. All Other Manufacturing	.000134	.000115	.000022	.000026	.000001	.000022	.048028	.000007	.002113	.000000	.000000	.000000	.000219	.000435	.014218	.003941	.001057	.000204	1.014877	.004540	.002814	.004054	.002196	.000020	.002129	.011065	.049330	.017874	.020333	.009748	.042451
	Trade	20. Wholesale Trade	.000089	.000076	.000014	.000017	.000001	.000015	.000907	.000005	.001072	.000000	.000000	.000240	.000287	.000278	.000877	.000053	.000206	.019080	1.003872	.003303	.002837	.001263	.000013	.001132	.019002	.106938	.008922	.010506	.010970	.057326
		21. Service Stations	.000076	.000065	.000012	.000015	.000001	.000013	.000347	.000004	.004097	.000000	.000000	.000000	.000282	.000247	.000114	.001861	.000072	.000283	.007224	.003223	1.001097	.003625	.001195	.000012	.000124	.019973	.045151	.036740	.015336	.012292
22. All Other Retail		.000094	.000080	.000015	.000018	.000001	.000016	.000745	.000005	.002454	.000000	.000000	.000000	.000325	.000304	.000234	.064490	.000070	.000293	.015628	.005733	.002352	1.005206	.001334	.000014	.000179	.030698	.052587	.020728	.022281	.014643	.084035
Services	23. Eating & Drinking Places	.046374	.039811	.007478	.008851	.000451	.007735	.000566	.002423	.003160	.000000	.000000	.000000	.000900	.150228	.000252	.013412	.000132	.000759	.011185	.054336	.003724	.017777	1.000489	.007004	.000365	.014992	.020558	.026785	.030257	.041311	.039363
	24. Agricultural Services	.012393	.001140	.000247	.000253	.000013	.000277	.001623	.000069	.003197	.000000	.000000	.000000	.000046	.004302	.000493	.005822	.000067	.000082	.034191	.010782	.008491	.004761	.000194	1.001518	.000146	.010236	.007013	.029120	.007187	.001456	.024253
	25. Lodging	.010202	.008758	.001645	.001947	.000099	.001702	.000317	.000533	.006148	.000000	.000000	.000000	.000822	.033050	.000137	.004425	.000133	.000740	.006307	.010202	.000971	.016469	.000337	.001541	1.002249	.049974	.009423	.042892	.054880	.037029	.053450
	26. All Other Services	.001080	.000927	.000174	.000206	.000010	.000180	.000345	.000056	.006863	.000000	.000000	.000000	.000340	.003497	.000116	.009670	.000091	.000368	.007175	.020510	.000527	.007906	.001254	.000163	.000183	1.041692	.010167	.050664	.042960	.014389	.036219
	27. Transportation	.000109	.000093	.000018	.000021	.000001	.000018	.005784	.000006	.000796	.000000	.000000	.000000	.000218	.000353	.001720	.002289	.000151	.000184	.122141	.012987	.021254	.004137	.001427	.000016	.000313	.040407	1.047238	.006366	.008003	.010010	.029931
Utilities	28. Electric Energy	.000086	.000074	.000014	.000016	.000001	.000014	.000628	.000004	.121376	.000000	.000000	.000777	.000278	.000195	.001948	.001175	.002352	.013197	.002947	.002539	.002688	.001249	.000013	.001221	.015858	.007471	1.130626	.006366	.008003	.010010	.029931
	29. Other Utilities	.000091	.000078	.000015	.000017	.000001	.000015	.000660	.000005	.010069	.000000	.000000	.000000	.001511	.000296	.000256	.010033	.000177	.001343	.013408	.005105	.001420	.003641	.001196	.000014	.001153	.024873	.005002	.008167	1.016519	.009835	.032857
	30. Contract Construction	.000105	.000090	.000017	.000020	.000001	.000017	.001632	.000005	.000604	.000000	.000000	.000000	.030995	.000339	.001767	.002544	.003299	.024603	.022865	.007247	.005200	.003617	.001608	.000016	.001558	.014725	.027320	.004893	.006992	1.446588	.042596
	31. Rentals & Finance	.000076	.000065	.000012	.000014	.000001	.000013	.000135	.000004	.001106	.000000	.000000	.000000	.000126	.000245	.000045	.004678	.000025	.000115	.002803	.001522	.001133	.003350	.001089	.000011	.001065	.014631	.001882	.009202	.011457	.005619	1.029516

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry Producing		Industry Purchasing																															
		1 Range Livestock	2 Dairy	3 Field Crops	4 Fruit	5 Forestry	6 All Other Agriculture	7 Coal	8 Oil & Gas	9 Uranium	10 All Other Mining	11 Food & Kindred Products	12 Lumber & Wood Products	13 Printing & Publishing	14 Stone, Clay & Glass Products	15 All Other Manufactur- ing	16 Wholesale Trade	17 Service Stations	18 All Other Retail	19 Eating & Drinking Places	20 Agricul- tural Services	21 Oil Field Services	22 Lodging	23 All Other Services (Except Pro- fessional)	24 Transportation	25 Electric Energy	26 Other Utilities	27 Contract Construction	28 Rentals & Finance	29 Final Demand	30 Total Gross Output		
Agriculture	1. Range Livestock	858	304	0	0	0	66	0	0	0	443	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16,196	17,866	1.	
	2. Dairy	0	19	0	0	0	33	0	0	0	2,749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	910	3,710	2.	
	3. Field Crops	0	0	0	0	0	23	0	0	0	519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,935	4,477	3.	
	4. Fruit	0	15	0	0	0	0	0	0	0	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	706	812	4.	
	5. Forestry	0	0	0	0	0	0	0	0	0	696	0	1,905	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	2,697	5.	
	6. All Other Agriculture	0	0	4	0	0	0	0	0	0	351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	740	1,096	6.	
Mining	7. Coal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0	449	0	0	93	578	7.		
	8. Oil & Gas	0	0	0	0	0	0	0	2,259	0	0	0	0	0	2,701	0	0	0	0	0	0	101	0	0	66	660	7,203	102	0	148,261	161,353	8.	
	9. Uranium	0	0	0	0	0	0	0	0	11,825	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37,241	49,066	9.	
Manufacturing	10. All Other Mining	0	0	0	0	0	0	0	0	953	0	0	0	238	1,170	0	0	0	0	0	0	0	0	0	0	0	0	1,224	0	7,128	10,714	10.	
	11. Food & Kindred Products	71	0	0	0	0	31	0	0	0	214	0	0	0	0	0	0	0	1,355	0	0	0	396	109	66	0	0	0	64	12,963	15,271	11.	
	12. Lumber & Wood Products	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,079	0	2,333	6,416	12.
	13. Printing & Publishing	36	4	4	2	0	1	3	0	49	0	122	6	40	8	23	66	151	3,195	123	17	17	127	146	133	79	76	102	384	802	5,716	13.	
	14. Stone, Clay & Glass Products	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	127	146	133	79	76	102	384	802	5,716	13.	
Trade	15. All Other Manufacturing	71	7	22	4	8	5	4	323	196	64	46	19	29	69	315	98	25	290	141	4	118	16	109	1,727	106	51	1,122	256	17,261	22,508	15.	
	16. Wholesale Trade	107	15	40	2	19	13	3	323	245	21	31	26	17	54	45	66	6	145	475	13	287	32	474	1,129	79	25	816	128	28,196	32,834	16.	
	17. Service Stations	125	22	40	4	32	15	4	161	0	32	15	6	11	8	23	33	0	73	18	8	68	16	36	996	0	25	102	64	4,338	6,277	17.	
	18. All Other Retail	232	37	125	5	22	55	14	323	98	21	46	32	34	54	68	66	19	290	299	7	34	95	146	199	79	76	1,632	192	68,322	72,623	18.	
Services	19. Eating & Drinking Places	18	0	0	0	0	0	0	161	0	11	0	0	0	0	33	0	73	0	0	34	16	36	133	0	25	0	192	16,870	17,602	19.		
	20. Agricultural Services	375	122	45	370	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	919	20.	
	21. Oil Field Services	0	0	0	0	0	0	0	4,034	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,872	16,906	21.
	22. Lodging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	0	73	0	0	34	32	36	66	0	0	0	64	15,521	15,859	22.	
Utilities	23. All Other Services (Except Professional)	143	148	45	9	3	2	35	484	98	96	173	74	138	248	591	301	2,614	370	13	338	809	839	1,328	423	204	3,569	1,729	21,433	36,486	23.		
	24. Transportation	214	334	4	0	0	20	0	323	5,544	0	92	96	63	38	563	3,743	176	5,301	194	0	761	16	803	6,375	211	204	3,467	0	37,865	66,405	24.	
	25. Electric Energy	89	48	18	3	0	10	5	645	196	279	137	109	46	84	203	263	1,234	264	31	85	381	401	133	3,538	211	102	204	448	17,242	26,406	25.	
	26. Other Utilities	54	15	13	2	0	5	3	0	147	86	168	19	69	123	135	821	446	1,452	352	7	68	840	474	863	211	255	510	896	17,422	25,457	26.	
	27. Contract Construction	0	0	0	0	0	0	0	161	0	0	15	13	0	8	90	33	13	363	18	0	693	254	0	66	0	76	31,411	256	68,517	101,987	27.	
	28. Rentals & Finance	393	78	54	9	81	18	8	2,420	147	354	764	90	246	192	293	1,182	433	4,357	1,144	17	220	539	1,788	1,660	2,852	433	2,448	3,778	38,043	64,036	28.	
	29. Final Payments	15,080	2,542	4,063	402	2,532	792	496	149,736	30,521	8,101	9,238	3,922	5,087	6,640	16,631	25,806	4,500	53,163	12,849	802	14,048	12,290	31,053	51,465	17,719	16,702	45,692	55,585			29.	
	30. Total Gross Outlays	17,866	3,710	4,477	812	2,697	1,096	578	161,353	49,066	10,714	15,271	6,416	5,716	7,677	22,508	32,834	6,277	72,623	17,602	919	16,906	15,859	36,486	66,405	26,406	25,457	101,987	64,036			30.	

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

INTERINDUSTRY TRANSACTIONS (IN THOUSANDS OF DOLLARS)
SAN JUAN SUB-BASIN 1980
Table SJ-1980-a

		Industry Purchasing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	25	26	27	28						
		Industry Producing		Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil and Gas	Uranium	All Other Mining	Food and Kindred Products	Lumber and Wood Products	Printing and Publishing	Stone, Clay and Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail Trade	Eating and Drinking Places	Agricultural Services	Oil Field Services	Lodging	All Other Services	Transportation	Electric Energy	Electric Energy	Other Utilities	Contract Construction	Rentals and Finance						
Agriculture		1. Range Livestock		.048	.082	.000	.000	.000	.060	.000	.000	.000	.000	.029	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.						
		2. Dairy		.000	.005	.000	.000	.000	.030	.000	.000	.000	.000	.180	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.						
		3. Field Crops		.000	.000	.000	.000	.000	.021	.000	.000	.000	.000	.034	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.					
		4. Fruit		.000	.004	.000	.000	.000	.000	.000	.000	.000	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.				
		5. Forestry		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.297	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.			
		6. All Other Agriculture		.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.023	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.			
Mining		7. Coal		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.017	.017	.000	.000	.000	7.					
		8. Oil and Gas		.000	.000	.000	.000	.000	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	.120	.000	.000	.000	.000	.000	.006	.000	.000	.025	.025	.283	.001	.000	.000	8.				
		9. Uranium		.000	.000	.000	.000	.000	.000	.000	.000	.241	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.			
		10. All Other Mining		.000	.000	.000	.000	.000	.000	.000	.000	.000	.089	.000	.000	.000	.000	.031	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.000	.000	10.			
Manufacturing		11. Food and Kindred Products		.004	.000	.000	.000	.000	.028	.000	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	.000	.077	.000	.000	.025	.003	.001	.000	.000	.000	.000	.000	.001	11.				
		12. Lumber and Wood Products		.000	.000	.000	.000	.000	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.040	.000	.000	12.			
		13. Printing and Publishing		.002	.001	.001	.002	.000	.001	.006	.000	.001	.000	.008	.001	.007	.001	.001	.002	.002	.024	.044	.007	.019	.001	.008	.004	.002	.003	.003	.003	.001	.006	.000	13.			
		14. Stone, Clay and Glass Products		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.054	.000	.000	14.			
		15. All Other Manufacturing		.004	.002	.005	.005	.003	.005	.007	.002	.004	.006	.003	.003	.003	.005	.009	.014	.003	.004	.004	.008	.004	.007	.001	.003	.026	.004	.004	.002	.011	.004	.000	15.			
Trade	Retail	16. Wholesale Trade		.006	.004	.009	.003	.007	.012	.006	.002	.005	.002	.002	.004	.003	.007	.002	.002	.001	.002	.027	.014	.017	.002	.013	.017	.003	.003	.001	.008	.002	.000	16.				
		17. Service Stations		.007	.006	.009	.005	.012	.014	.007	.002	.001	.000	.003	.001	.001	.001	.002	.001	.001	.000	.001	.001	.009	.004	.001	.001	.015	.000	.000	.001	.001	.001	.001	.000	17.		
		18. All Other Retail Trade		.013	.010	.028	.006	.008	.050	.025	.002	.002	.002	.003	.005	.006	.007	.003	.002	.003	.004	.004	.017	.008	.002	.006	.004	.003	.003	.003	.003	.016	.003	.000	.000	18.		
		19. Eating and Drinking Places		.001	.000	.000	.000	.000	.000	.000	.000	.001	.000	.001	.000	.000	.000	.000	.000	.001	.000	.001	.000	.000	.002	.001	.001	.001	.002	.000	.000	.001	.000	.003	.000	.000	19.	
Services		20. Agricultural Services		.021	.033	.010	.456	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	20.		
		21. Oil Field Services		.000	.000	.000	.000	.000	.000	.000	.025	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	21.	
		22. Lodging		.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.001	.000	.000	.002	.002	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	22.
		23. All Other Services		.008	.040	.010	.011	.001	.002	.061	.003	.002	.009	.015	.027	.013	.018	.011	.018	.048	.036	.021	.014	.020	.051	.023	.020	.016	.016	.008	.008	.008	.035	.027	.000	.000	23.	
Utilities		24. Transportation		.012	.090	.001	.000	.000	.018	.000	.002	.113	.000	.006	.015	.011	.005	.025	.114	.028	.073	.011	.000	.045	.001	.022	.096	.008	.008	.008	.034	.000	.000	.000	.000	24.		
		25. Electric Energy		.005	.013	.004	.004	.000	.009	.009	.004	.004	.026	.009	.017	.008	.011	.009	.008	.033	.017	.015	.034	.005	.024	.011	.002	.134	.134	.004	.002	.007	.000	.000	.000	.000	25.	
		26. Other Utilities		.003	.004	.003	.002	.000	.005	.006	.000	.003	.008	.011	.003	.012	.016	.006	.025	.071	.020	.020	.008	.004	.053	.013	.013	.008	.008	.010	.005	.014	.000	.000	.000	.000	.000	26.
		27. Contract Construction		.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.001	.002	.000	.001	.004	.001	.002	.005	.001	.000	.041	.016	.000	.001	.000	.000	.003	.308	.004	.000	.000	.000	.000	.000	27.
	28. Rentals and Finance		.022	.021	.012	.011	.030	.016	.013	.015	.003	.033	.050	.014	.043	.025	.013	.036	.069	.060	.065	.018	.013	.034	.049	.025	.108	.108	.017	.024	.059	.000	.000	.000	.000	28.		

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
		Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil and Gas	Uranium	All Other Mining	Food and Kindred Products	Lumber and Wood Products	Printing and Publishing	Stone, Clay and Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail Trade	Eating and Drinking Places	Agricultural	Oil Field Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals and Finance	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Industry Purchasing	Industry Producing																													
Agriculture	1. Range Livestock	1.050631	.000807	.000153	.000030	.000025	.000102	.000151	.002413	.000000	.000301	.004444	.000017	.003730	.000022	.005170	.007273	.007908	.014263	.001215	.022106	.000060	.000080	.011588	.017002	.008228	.005426	.000402	.029502	1.
	2. Dairy	.086600	1.005149	.000023	.004025	.000030	.000016	.000370	.003731	.000000	.000343	.000680	.000025	.003388	.000031	.005863	.007706	.008699	.012356	.000482	.036824	.000093	.000208	.047160	.105099	.019009	.008458	.000567	.034918	2.
	3. Field Crops	.000071	.000049	1.000024	.000001	.000027	.001002	.000123	.002357	.000000	.000327	.000103	.000018	.002922	.000023	.005624	.009597	.009280	.028503	.000124	.010010	.000059	.000075	.012967	.005568	.006486	.005231	.000422	.017783	3.
	4. Fruit	.000005	.000019	.000004	1.000001	.000033	.000002	.000427	.003795	.000000	.000433	.000106	.000017	.011793	.000020	.007487	.009963	.009273	.010127	.000141	.456001	.000095	.000071	.020387	.003522	.023917	.007919	.000366	.026917	4.
	5. Forestry	.000003	.000010	.000002	.000000	1.000017	.000001	.000021	.000963	.000000	.000198	.000058	.000014	.000910	.000018	.003374	.007213	.012095	.008241	.000128	.000001	.000024	.000055	.003150	.002176	.001078	.001818	.000337	.034083	5.
Mining	6. All Other Agriculture	.066994	.035383	.021994	.000314	.000037	1.000685	.000256	.004022	.000000	.000417	.028809	.000034	.004716	.000044	.007093	.013920	.015619	.052702	.000312	.008942	.000101	.000139	.009829	.031802	.014479	.009608	.000805	.030034	6.
	7. Coal	.000012	.000044	.000008	.000002	.001818	.000006	1.000280	.003810	.000000	.000455	.000245	.006020	.007864	.000025	.007841	.007204	.007271	.025692	.000189	.000003	.000095	.000126	.065305	.005439	.012621	.008811	.000469	.022157	7.
	8. Oil and Gas	.000006	.000023	.000004	.000001	.000050	.000003	.000094	1.015031	.000000	.000192	.000128	.000126	.000334	.000169	.002540	.002728	.001222	.002289	.001140	.000001	.025376	.000083	.004706	.004456	.005243	.000793	.003128	.018086	8.
	9. Uranium	.000011	.000043	.000008	.000002	.000043	.000006	.000128	.003600	1.317523	.000574	.000239	.000019	.002050	.000025	.009942	.009651	.002565	.003353	.000399	.000003	.000090	.000199	.007230	.166901	.007114	.007104	.000455	.011101	9.
Manufacturing	10. All Other Mining	.000009	.000034	.000007	.000001	.071384	.000004	.000590	.004791	.000000	1.098124	.000189	.000020	.000745	.000023	.007407	.003185	.004274	.003211	.001276	.000002	.000120	.000068	.012740	.001764	.033956	.010541	.000418	.046560	10.
	11. Food and Kindred Products	.048282	.184373	.035010	.006829	.000047	.023386	.000301	.005422	.000000	.000340	1.015273	.000085	.009897	.000113	.005407	.004991	.003828	.008477	.000368	.010703	.000136	.000137	.027903	.029000	.016045	.015069	.002089	.066389	11.
	12. Lumber and Wood Products	.000008	.000029	.000006	.000001	.297060	.000004	.000385	.002604	.000000	.000329	.000160	1.000132	.001929	.000175	.004907	.007029	.004958	.007887	.000184	.000002	.000065	.000096	.030480	.019541	.020856	.005067	.003237	.030405	12.
	13. Printing and Publishing	.000006	.000024	.000005	.000001	.000028	.000003	.000192	.004966	.000000	.000342	.000133	.000020	1.007876	.000026	.005873	.003674	.002332	.006462	.000223	.000001	.000124	.000090	.015905	.014127	.010367	.013841	.000477	.049640	13.
	14. Stone, Clay and Glass Products	.000006	.000023	.000004	.000001	.002280	.000003	.000274	.006774	.000000	.034730	.000124	.000077	.001809	1.003111	.009998	.007748	.001373	.007562	.000211	.000001	.000169	.000078	.021014	.008380	.014859	.018011	.001878	.032576	14.
Trade	15. All Other Manufacturing	.000006	.000023	.000004	.000001	.003853	.000003	.000246	.126352	.000000	.058089	.000127	.000261	.001584	.000352	1.015967	.003365	.001893	.003893	.000348	.000001	.003159	.000081	.014549	.030153	.013608	.008024	.006492	.022324	15.
	16. Wholesale Trade	.000019	.000071	.000014	.000003	.000054	.000009	.000207	.009449	.000000	.000426	.000393	.000087	.003009	.000117	.006905	1.004767	.003063	.002900	.001466	.000004	.000236	.001208	.023428	.128328	.010784	.028576	.002155	.045866	16.
	Retail 17. Service Stations	.000016	.000060	.000011	.000002	.000074	.000008	.000743	.023349	.000000	.000405	.000331	.000161	.025562	.000212	.006073	.002881	1.000840	.004266	.000487	.000003	.000584	.000183	.054449	.034780	.040521	.075047	.003906	.085362	17.
	18. All Other Retail Trade	.000021	.000080	.000015	.000003	.000131	.000010	.000416	.008501	.000000	.000535	.000438	.000324	.045592	.000435	.007266	.004542	.002544	1.005319	.001480	.000005	.000213	.001215	.042762	.084409	.021981	.024263	.008036	.074636	18.
	19. Eating and Drinking Places	.003728	.014235	.002703	.000527	.000068	.001806	.000378	.008792	.000000	.000596	.078386	.000100	.009449	.000132	.009803	.028470	.001792	.018458	1.000401	.000826	.000220	.000179	.028288	.020934	.020587	.024571	.002435	.081806	19.
Services	20. Agricultural Services	.000005	.000018	.000003	.000001	.000024	.000002	.000709	.004653	.000000	.000277	.000099	.000019	.020180	.000020	.004760	.014634	.009198	.008584	.000148	1.000001	.000116	.000073	.017385	.004112	.040701	.010580	.000366	.027900	20.
	21. Oil Field Services	.000018	.000070	.000013	.000003	.000804	.000009	.000152	.009577	.000000	.001447	.000386	.002389	.001826	.003233	.009646	.019043	.005027	.003562	.002245	.000004	1.000239	.002130	.025738	.056042	.007409	.007008	.059699	.021296	21.
	22. Lodging	.001225	.004678	.000888	.000173	.000316	.000593	.000568	.017255	.000000	.000491	.025760	.000958	.009498	.001293	.002317	.003532	.001426	.007435	.001301	.000272	.000431	1.002127	.056918	.006190	.030082	.056362	.023869	.047581	22.
Utilities	23. All Other Services	.000159	.000607	.000115	.000022	.000026	.000077	.001268	.005386	.000000	.000256	.003344	.000031	.004965	.000031	.004329	.014136	.001580	.004656	.001298	.000035	.000135	.001134	1.026982	.027788	.014172	.015575	.000574	.057824	23.
	24. Transportation	.000070	.000265	.000050	.000010	.000139	.000034	.000106	.009942	.000000	.001736	.001461	.000090	.003317	.000121	.029830	.019588	.016839	.003949	.002409	.000015	.000249	.001199	1.111388	.004707	.017632	.002226	.035123	24.	
	25. Electric Energy	.000013	.000049	.000009	.000002	.000071	.000006	.019692	.033599	.000000	.000356	.000272	.000160	.004848	.000056	.005966	.004560	.000563	.004722	.000516	.000003	.000840	.000185	.024908	.012322	1.156901	.012268	.001040	.136369	25.
	26. Other Utilities	.000009	.000034	.000006	.000001	.000083	.000004	.000125	.290870	.000000	.000269	.000185	.000219	.003545	.000296	.003282	.002242	.001565	.003982	.001434	.000002	.007272	.000069	.010976	.011300	.006713	1.011222	.005460	.025586	26.
	27. Contract Construction	.000016	.000061	.000012	.000002	.018664	.000008	.000205	.007733	.000000	.022828	.000334	.057847	.003567	.078327	.019501	.014659	.003005	.025060	.000418	.000004	.000193	.000212	.059654	.062011	.008555	.012585	1.446154	.050181	27.
	28. Rentals and Finance	.000070	.000266	.000050	.000010	.000100	.000034	.000193	.005458	.000000	.000366	.001462	.000255	.006909	.000344	.004740	.002826	.001198	.003684	.003267	.000015	.000136	.001109	.030657	.002222	.009524	.016131	.006353	1.067186	28.

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
SAN JUAN SUB-BASIN 1980
Table SJ-1980-c

Industry Producing		Industry Purchasing																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
		Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil & Gas	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Stone, Clay & Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricultural Services	Oil Field Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output	
Agriculture	1. Range Livestock	1,185	731	0	0	0	112	0	0	0	0	513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23,799	26,341		
	2. Dairy	0	53	0	0	0	57	0	0	0	0	5,674	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,129	8,913		
	3. Field Crops	0	0	0	0	0	40	0	0	0	0	540	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,441	5,022		
	4. Fruit	0	45	0	0	0	0	0	0	0	0	351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	804	1,200	
	5. Forestry	0	0	0	0	0	0	0	0	0	878	0	1,984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	2,971	
	6. All Other Agriculture	0	0	10	0	0	0	0	0	0	0	811	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,015	1,836	
Mining	7. Coal	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	161	1,361		
	8. Oil & Gas	0	0	0	0	0	0	0	1,811	0	0	0	0	0	0	4,374	0	0	0	0	0	0	54	0	294	1,146	969	294	1,146	0	0	125,000	150,886	
	9. Uranium	0	0	0	0	0	0	0	0	13,266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,980	54,206	
	10. All Other Mining	0	0	0	0	0	0	0	0	0	1,420	0	0	0	533	1,870	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,342	15,957	
Manufacturing	11. Food & Kindred Products	105	0	0	0	0	53	0	0	0	0	486	0	0	0	0	0	0	0	4,838	0	0	1,309	433	98	0	98	0	0	228	19,468	27,019		
	12. Lumber & Wood Products	0	0	0	0	0	0	10	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,799	817	6,679	
	13. Printing & Publishing	53	18	5	4	0	4	10	151	54	0	216	7	117	34	35	256	439	8,607	329	32	14	403	578	196	132	196	172	1,370	1,161	14,609			
	14. Stone, Clay & Glass Products	0	0	0	0	0	0	0	0	0	0	0	0	0	69	0	0	0	191	0	0	0	0	0	0	0	0	0	0	12,671	0	4,268	17,199	
	15. All Other Manufacturing	132	27	30	7	12	11	11	453	271	112	108	27	88	189	564	426	63	956	470	8	82	50	578	2,642	264	2,642	264	115	2,792	913	23,881	35,282	
Trade	16. Wholesale Trade	184	45	50	5	24	24	10	453	325	48	54	27	73	120	106	170	16	574	1,409	24	245	151	2,022	1,762	176	1,762	176	115	1,718	457	74,810	85,196	
	17. Service Stations	211	53	50	7	39	26	11	302	54	48	27	7	29	34	35	170	0	383	47	14	68	50	289	1,664	44	1,664	44	57	215	228	11,509	15,672	
	18. All Other Retail	369	98	146	8	27	94	35	302	163	32	81	40	102	138	106	170	47	765	1,080	14	27	352	578	391	132	391	132	172	3,866	685	181,270	191,291	
	19. Eating & Drinking Places	26	0	0	0	0	0	0	302	0	16	27	0	15	17	35	85	16	191	0	0	27	50	144	196	44	196	44	115	215	685	44,766	46,973	
Services	20. Agricultural Services	632	330	50	583	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,000	13,621
	21. Oil Field Services	0	0	0	0	0	0	0	3,621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	22. Lodging	26	0	0	0	0	0	0	151	0	0	27	7	0	17	35	85	0	191	0	0	27	50	144	196	44	196	44	57	215	228	48,843	50,345	
Utilities	23. All Other Services (Except Professional)	316	365	55	14	6	86	604	163	160	459	194	219	327	459	1,704	768	7,268	1,080	24	259	2,668	3,466	2,153	749	2,153	749	460	7,946	6,622	105,828	144,426		
	24. Transportation	342	811	10	0	0	35	0	453	6,180	0	216	107	175	103	953	9,966	486	15,492	752	0	599	50	3,177	9,493	441	9,493	441	575	7,732	0	39,720	97,868	
	25. Electric Energy	158	134	25	6	0	20	20	604	325	447	297	127	131	224	423	767	533	3,634	752	55	68	1,208	1,589	196	5,905	196	5,905	230	430	1,598	24,163	44,068	
	26. Other Utilities	79	36	15	4	0	9	8	151	163	128	324	33	175	292	212	2,130	1,144	4,016	939	13	41	2,769	1,877	1,272	308	1,272	308	575	1,074	3,425	36,295	57,508	
	27. Contract Construction	0	0	0	0	0	0	-1	151	0	0	27	27	0	34	176	170	31	1,339	47	0	477	906	144	98	0	98	0	230	74,095	913	135,906	214,774	
	28. Rentals & Finance	632	205	70	17	98	33	20	2,716	217	558	1,378	107	628	464	564	3,237	1,113	11,858	3,476	32	218	1,812	7,221	2,642	4,980	2,642	4,980	1,035	5,584	13,928	163,499	228,344	
29. Final Payments		21,891	5,962	4,506	545	2,765	1,299	1,139	138,661	32,971	12,110	15,349	3,985	12,857	14,604	25,335	65,860	11,016	135,826	31,754	1,392	11,415	38,517	122,186	74,575	28,734	74,575	28,734	35,431	87,200	197,064			
30. Total Gross Outlays		26,341	8,913	5,022	1,200	2,971	1,836	1,361	150,886	54,206	15,957	27,019	6,679	14,609	17,199	35,282	85,196	15,672	191,291	46,973	1,608	13,621	50,345	144,426	97,868	44,068	97,868	44,068	57,508	214,774	228,344			

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

		Industry Producing → Industry Purchasing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28							
				Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil and Gas	Uranium	All Other Mining	Food and Kindred Products	Lumber and Wood Products	Printing and Publishing	Stone, Clay and Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail Trade	Eating and Drinking Places	Agricultural Services	Oil Field Services	Lodging	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals and Finance							
Agriculture		1. Range Livestock	.045	.082	.000	.000	.000	.061	.000	.000	.000	.000	.019	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.						
		2. Dairy	.000	.006	.000	.000	.000	.031	.000	.000	.000	.000	.210	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.					
		3. Field Crops	.000	.000	.000	.000	.000	.022	.000	.000	.000	.000	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.				
		4. Fruit	.000	.005	.000	.000	.000	.000	.000	.000	.000	.000	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.				
		5. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.055	.000	.297	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.			
		6. All Other Agriculture	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.			
Mining		7. Coal	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.				
		8. Oil and Gas	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.			
		9. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.224	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.		
Manufacturing		10. All Other Mining	.000	.000	.000	.000	.000	.000	.000	.000	.000	.089	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.			
		11. Food and Kindred Products	.004	.000	.000	.000	.000	.029	.000	.000	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.			
		12. Lumber and Wood Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	11.		
		13. Printing and Publishing	.002	.002	.001	.003	.000	.002	.000	.007	.000	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	12.		
		14. Stone, Clay and Glass Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	13.		
Trade		15. All Other Manufacturing	.005	.003	.006	.006	.004	.006	.004	.006	.008	.003	.005	.007	.004	.004	.006	.011	.016	.005	.004	.005	.010	.005	.006	.001	.004	.004	.000	.000	.000	.000	.000	.000	.000	14.		
	Retail	16. Wholesale Trade	.007	.005	.010	.004	.008	.013	.007	.003	.006	.003	.002	.004	.004	.006	.011	.016	.005	.004	.005	.010	.005	.006	.001	.004	.004	.000	.000	.000	.000	.000	.000	.000	.000	15.		
			17. Service Stations	.008	.006	.010	.006	.013	.014	.008	.002	.001	.003	.001	.001	.001	.002	.002	.001	.002	.000	.002	.001	.009	.005	.001	.002	.014	.018	.004	.002	.008	.002	.000	.000	16.		
			18. All Other Retail Trade	.014	.011	.029	.007	.009	.014	.008	.002	.001	.003	.001	.001	.001	.001	.002	.002	.001	.002	.000	.002	.001	.009	.005	.001	.002	.017	.001	.001	.001	.001	.001	.001	.001	17.	
		19. Eating and Drinking Places	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	18.	
Services		20. Agricultural Services	.024	.037	.010	.486	.000	.007	.000	.000	.000	.000	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	19.	
		21. Oil Field Services	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	20.
		22. Lodging	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	21.
		23. All Other Services	.012	.041	.011	.012	.002	.003	.063	.004	.003	.010	.017	.029	.015	.019	.015	.019	.013	.020	.049	.038	.023	.015	.019	.053	.024	.022	.001	.001	.001	.001	.001	.001	.001	.001	.001	22.
Utilities		24. Transportation	.013	.091	.002	.000	.000	.019	.000	.003	.003	.114	.010	.017	.029	.015	.019	.013	.020	.049	.038	.023	.015	.019	.053	.024	.022	.001	.001	.001	.001	.001	.001	.001	.001	.001	23.	
		25. Electric Energy	.006	.015	.005	.005	.000	.011	.015	.004	.006	.028	.011	.019	.009	.013	.012	.013	.012	.009	.034	.019	.016	.034	.005	.024	.011	.002	.134	.004	.002	.007	.000	.000	.000	.000	24.	
		26. Other Utilities	.003	.004	.003	.003	.000	.005	.006	.001	.003	.008	.012	.012	.005	.012	.017	.006	.025	.073	.021	.020	.008	.003	.055	.013	.013	.007	.010	.005	.015	.004	.004	.004	.004	.004	.004	25.
		27. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	28. Rentals and Finance	.024	.023	.014	.014	.033	.018	.015	.018	.004	.035	.051	.016	.043	.027	.016	.038	.071	.062	.074	.020	.016	.036	.050	.027	.113	.018	.026	.061	.028	.028	.028	.028	.028	.028	.028	28.	

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing		Industry Producing																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	23	24	25	26	27	28		
		Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agriculture	Coal	Oil and Gas	Uranium	All Other Mining	Food and Kindred Products	Lumber and Wood Products	Printing and Publishing	Stone, Clay and Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	All Other Retail Trade	Eating and Drinking Places	Agricultural Services	Oil Field Services	Lodging	All Other Services	All Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals and Finance		
Agriculture	1. Range Livestock	1.047302	.000963	.000094	.000064	.000027	.000136	.000266	.002972	.000000	.000388	.004539	.000018	.004024	.000052	.006486	.008588	.009098	.015428	.001278	.025204	.000071	.001190	.016546	.016546	.018914	.009877	.005878	.000610	.032898	1.	
	2. Dairy	.086411	1.006190	.000015	.005040	.000032	.000022	.000571	.004580	.000000	.000446	.000724	.000026	.004747	.000062	.007432	.009254	.009209	.013743	.000563	.041753	.000110	.000458	.049569	.049569	.107296	.021922	.008854	.000820	.038917	2.	
	3. Field Crops	.000139	.000095	1.000047	.000002	.000028	.002005	.000207	.002838	.000000	.000411	.000155	.000019	.003141	.000068	.006863	.010782	.010415	.029631	.000179	.010023	.000068	.000115	.014514	.014514	.007475	.007931	.005555	.000640	.020780	3.	
	4. Fruit	.000006	.000029	.000003	1.000002	.000037	.000004	.000692	.004862	.000000	.000556	.000139	.000021	.014140	.000047	.009390	.012093	.010671	.011972	.000247	.486002	.000117	.000141	.023097	.023097	.004495	.026621	.009616	.000591	.033082	4.	
	5. Forestry	.000003	.000016	.000002	.000001	1.000018	.000002	.000034	.001275	.000000	.000269	.000075	.000013	.001089	.000037	.004488	.008289	.013143	.009285	.000169	.000001	.000031	.000075	.000075	.004580	.004580	.002686	.001283	.002108	.000460	.037799	5.
	6. All Other Agriculture	.067756	.037554	.022621	.000578	.000039	1.000945	.000516	.004803	.000000	.000523	.029996	.000035	.006091	.000122	.008642	.015383	.015987	.054049	.000431	.010529	.000115	.000325	.012178	.012178	.034546	.017546	.010072	.001150	.034016	6.	
Mining	7. Coal	.000011	.000058	.000006	.000004	.002130	.000008	1.000518	.004573	.000000	.000574	.000276	.007067	.009106	.000165	.009197	.008496	.008453	.026844	.000273	.000004	.000110	.000196	.068190	.068190	.006433	.019915	.009234	.002329	.026123	7.	
	8. Oil and Gas	.000012	.000065	.000006	.000004	.000040	.000009	.000142	1.013526	.000000	.000265	.000307	.000085	.001460	.000187	.003674	.003875	.002320	.002382	.002188	.000005	.024325	.001124	.006143	.006143	.005887	.005451	.002120	.003121	.021996	8.	
	9. Uranium	.000011	.000059	.000006	.000004	.000437	.000008	.000274	.004628	1.322751	.000692	.000277	.001342	.002265	.000042	.011719	.011353	.004336	.004947	.000464	.000004	.000111	.000417	.009547	.009547	.169956	.010516	.007523	.000631	.014104	9.	
	10. All Other Mining	.000010	.000052	.000005	.000003	.060408	.000007	.000953	.005347	.000000	1.098212	.000243	.000021	.000822	.000036	.008734	.004411	.004291	.003244	.001358	.000004	.000128	.000139	.014343	.014343	.002234	.036639	.010717	.000545	.049667	10.	
Manufacturing	11. Food and Kindred Products	.040828	.216406	.021070	.014339	.000051	.030636	.002565	.006871	.000000	.000466	1.019801	.000084	.010568	.000154	.007312	.005909	.004399	.009360	.001488	.016381	.000165	.001307	.032889	.032889	.035608	.020189	.016860	.002448	.070959	11.	
	12. Lumber and Wood Products	.000009	.000047	.000005	.000003	.297082	.000007	.000610	.003797	.000000	.000489	.000219	1.000185	.002127	.000405	.006537	.007578	.005428	.009360	.000267	.000004	.000091	.001178	.033624	.033624	.021414	.023453	.007449	.006685	.034777	12.	
	13. Printing and Publishing	.000011	.000056	.000005	.000004	.000029	.000008	.000306	.005718	.000000	.000423	.000264	.000019	1.009015	.000045	.007098	.005894	.002456	.007566	.001288	.000004	.000137	.000155	.018447	.018447	.015966	.011736	.014120	.000632	.050652	13.	
	14. Stone, Clay and Glass Products	.000011	.000060	.000006	.000004	.001953	.000009	.000458	.008197	.000000	.034945	.000285	.000104	.003008	1.004246	.012358	.008037	.002511	.008727	.001304	.000005	.000197	.001164	.022835	.022835	.010180	.017596	.019443	.003735	.036124	14.	
	15. All Other Manufacturing	.000013	.000067	.000007	.000004	.003336	.000009	.000458	.131087	.000000	.059396	.000316	.000234	.001847	.000511	1.018544	.004860	.002211	.004103	.001572	.000005	.003146	.001314	.017613	.017613	.033248	.017579	.008565	.008550	.027602	15.	
Trade	16. Wholesale Trade	.000019	.000099	.000010	.000007	.000066	.000014	.000318	.011118	.000000	.000609	.000468	.000110	.004160	.000239	.009359	1.005161	.004466	.003157	.001565	.000008	.000267	.001417	.026398	.026398	.132364	.012208	.028966	.003984	.049383	16.	
	17. Service Stations	.000020	.000104	.000010	.000007	.000063	.000015	.001092	.026645	.000000	.000453	.000492	.000127	.029743	.000266	.006541	.003372	1.001140	.004475	.001704	.000008	.000639	.000391	.056387	.056387	.038840	.041951	.077429	.004420	.089126	17.	
	18. All Other Retail Trade	.000021	.000112	.000011	.000007	.000137	.000016	.000643	.010243	.000000	.000749	.000529	.000323	.046825	.001707	.008982	.006152	.004002	1.005672	.001656	.000008	.000246	.001411	.046144	.046144	.094299	.024679	.025847	.011779	.078727	18.	
	19. Eating and Drinking Places	.004216	.022347	.002176	.001481	.000069	.003164	.000812	.010469	.000000	.000790	.105308	.000088	.010258	.000205	.012714	.032097	.002260	.024955	1.000671	.001692	.000251	.000430	.032924	.032924	.029555	.023113	.025839	.003037	.095427	19.	
Services	20. Agricultural Services	.000005	.000027	.000003	.000002	.000026	.000004	.001064	.005127	.000000	.000359	.000125	.000022	.021363	.000042	.006023	.015832	.009324	.009666	.000257	1.000002	.000123	.000149	.018906	.018906	.004789	.040927	.010770	.000537	.030822	20.	
	21. Oil Field Services	.000019	.000099	.000010	.000007	.000511	.000014	.000197	.007524	.000000	.001395	.000465	.001460	.001933	.003205	.008854	.020106	.006184	.003659	.002348	.000007	1.000181	.002276	.025054	.025054	.055219	.007528	.006169	.054041	.024883	21.	
	22. Lodging	.001079	.005717	.000557	.000379	.000265	.000809	.000844	.019837	.000000	.000625	.026940	.000776	.009679	.001699	.002745	.004890	.001617	.008679	.001504	.000433	.000476	1.001312	.059840	.059840	.007358	.030401	.058662	.028533	.051028	22.	
Utilities	23. All Other Services	.000137	.000724	.000070	.000048	.000039	.000102	.000380	.006171	.000000	.000361	.003411	.000064	.005062	.000140	.005557	.015312	.002720	.004741	.001364	.000055	.000148	.001214	1.028509	1.028509	.028382	.014361	.015834	.002282	.059654	23.	
	24. Transportation	.000064	.000338	.000033	.000022	.000124	.000048	.000138	.013232	.000000	.001861	.001592	.000072	.003606	.000160	.031259	.020936	.019189	.005167	.002529	.000026	.000318	.002396	.028979	.028979	1.113465	.005168	.018163	.002618	.038670	24.	
	25. Electric Energy	.000019	.000100	.000010	.000007	.000102	.000014	.030097	.030695	.000000	.000528	.000471	.000247	.005141	.000085	.008691	.006081	.001989	.005142	.001766	.000008	.000737	.001428	.027786	.027786	.015516	1.157544	.011809	.001340	.143943	25.	
	26. Other Utilities	.000017	.000089	.000009	.000006	.000079	.000013	.000185	.324375	.000000	.000349	.000419	.000202	.003980	.000446	.003917	.003865	.002052	.004209	.002852	.000007	.007785	.001451	.012019	.012019	.014522	.007090	1.011895	.007449	.029045	26.	
	27. Contract Construction	.000025	.000131	.000013	.000009	.013705	.000019	.000253	.009562	.000000	.026318	.000617	.041273	.004175	.090576	.024465	.015925	.003566	.029816	.002165	.000010	.000229	.002032	.067116	.067116	.069921	.009694	.014118	1.528549	.058085	27.	
	28. Rentals and Finance	.000063	.000334	.000033	.000022	.000077	.000047	.000254	.006383	.000000	.000396	.001576	.000187	.006976	.000409	.004894	.002984	.001274	.003768	.003336	.000025	.000153	.001164	.033110	.033110	.002530	.009654	.017318	.006845	1.069917	28.	

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		Agriculture	Forestry	Oil & Gas	Coal	Uranium & Non-Fuels	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Stone, Clay & Glass Products	Chemicals, Petroleum & Coal Other Mfg.	Wholesale Trade	Service Stations	Eating & Drinking Places	Other Retail	Oil Field Services	Lodging	Other Services (Except Professional)	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals and Finance	Final Demand	Total Gross Output	
Mining	1. Agriculture	9,599	0	0	0	0	5,490	10	0	0	0	0	0	0	0	0	324	0	0	0	0	0	0	42,400	57,822	1.
	2. Forestry	0	0	0	0	0	0	1,982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	2,022	2.
	3. Oil & Gas	0	0	1,619	0	252	0	0	0	0	1,140	158	46	0	55	0	0	17	35	1,712	1,700	143	0	173,046	179,922	3.
	4. Coal	0	0	0	328	0	0	5	0	4	3	0	0	0	0	0	0	0	0	6,529	67	0	0	52,578	59,514	4.
	5. Uranium & Non-Fuels	0	0	0	0	4,596	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	717	0	17,505	22,864	5.
Manufacturing	6. Food & Kindred Products	983	0	0	0	0	190	0	0	6	3	0	0	1,987	165	0	225	0	0	0	0	0	0	6,999	10,557	6.
	7. Lumber & Wood Products	58	0	0	109	0	0	25	0	0	0	0	0	0	110	0	0	0	0	0	287	0	4,544	5,133	7.	
	8. Printing & Publishing	0	0	0	55	23	21	0	7	8	3	20	154	41	550	0	75	86	104	32	17	0	51	230	1,474	8.
	9. Stone, Clay & Glass Products	0	0	180	55	0	0	5	0	54	0	0	100	20	0	0	0	0	0	0	0	574	0	931	1,918	9.
	10. Chemicals, Petroleum & Coal, Other Mfg.	116	83	360	657	91	11	0	133	0	14	0	0	0	0	43	0	0	0	0	0	96	0	1,312	2,914	10.
Trade	11. Wholesale Trade	463	4	0	109	46	21	64	3	2	0	20	8	203	275	0	25	1,295	1,105	0	33	2,008	152	14,537	20,372	11.
	12. Service Stations	0	40	180	55	0	32	20	1	0	0	0	31	41	330	0	0	52	691	32	33	287	51	5,815	7,689	12.
	13. Eating & Drinking Places	0	0	180	55	0	0	0	0	0	0	0	0	0	110	21	0	0	449	95	0	0	0	19,382	20,292	13.
	14. Other Retail	636	14	0	0	0	158	64	1	2	3	20	69	1,723	880	21	250	294	173	63	383	96	659	67,841	73,350	14.
Services	15. Oil Field Services	0	0	2,699	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,731	21,430	15.
	16. Lodging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0	0	138	0	0	0	0	24,801	24,961	16.
	17. Other Services (Except Professional)	2,139	4	0	0	114	158	104	55	58	11	316	15	608	1,925	21	1,198	1,416	311	32	100	143	709	7,829	17,267	17.
Utilities	18. Transportation	1,388	0	1,439	1,368	366	412	360	6	82	114	1,873	185	101	4,125	171	100	138	4,247	1,141	600	717	51	15,545	34,529	18.
	19. Electric Energy	810	0	1,259	1,641	389	106	148	15	12	34	118	77	264	660	43	449	328	760	983	100	287	405	23,910	32,796	19.
	20. Other Utilities	231	0	0	164	69	84	20	6	6	3	473	384	203	1,430	43	1,373	1,036	483	158	750	143	507	9,097	16,664	20.
	21. Contract Construction	0	0	0	274	46	11	0	0	0	0	118	31	61	55	64	75	52	0	158	17	4,733	101	42,017	47,813	21.
	22. Rentals and Finance	1,214	46	7,197	1,368	594	158	108	37	61	63	631	1,100	588	3,080	64	1,672	345	414	349	700	813	2,888	27,174	50,665	22.
	23. Final Payments	40,185	1,831	164,809	53,276	16,278	3,705	2,218	1,210	1,577	1,523	16,625	5,489	14,452	59,600	20,918	19,195	12,208	25,619	21,512	12,164	36,769	45,091			23.
	24. Total Gross Outlays	57,822	2,022	179,922	59,514	22,864	10,557	5,133	1,474	1,918	2,914	20,372	7,689	20,292	73,350	21,430	24,961	17,267	34,529	32,796	16,664	47,813	50,665			24.

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

Industry Producing		Industry Purchasing																					
		1 Agriculture	2 Forestry	3 Oil & gas	4 Coal	5 Uranium & non-fuels	6 Food & kindred products	7 Lumber & wood products	8 Printing & publishing	9 Stone, clay & glass products	10 Chemicals, petroleum & coal, other mfg.	11 Wholesale trade	12 Service stations	13 Eating & drinking places	14 Other retail	15 Oil field services	16 Lodging	17 Other services (except pro- fessional)	18 Trans- portation	19 Electri- energy	20 Other utilities	21 Contract construction	22 Rentals & finance
Mining	1. Agriculture	.166	.000	.000	.000	.000	.520	.002	.000	.000	.000	.000	.000	.000	.000	.013	.000	.000	.000	.000	.000	.000	
	2. Forestry	.000	.000	.000	.000	.000	.000	.402	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	3. Oil & gas	.000	.000	.009	.000	.011	.000	.000	.000	.000	.400	.008	.006	.000	.001	.000	.000	.001	.001	.054	.102	.003	.000
	4. Coal	.000	.000	.000	.006	.000	.000	.001	.000	.002	.001	.000	.000	.000	.000	.000	.000	.000	.000	.206	.004	.000	.000
	5. Uranium & non-fuels	.000	.000	.000	.000	.201	.000	.000	.000	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.015	.000
	6. Food & kindred products	.017	.000	.000	.000	.000	.018	.000	.000	.003	.001	.000	.000	.098	.003	.000	.009	.000	.000	.000	.000	.000	.000
	7. Lumber & wood products	.001	.000	.000	.002	.000	.000	.005	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.006	.000
Manufacturing	8. Printing & publishing	.000	.000	.000	.001	.001	.002	.000	.005	.004	.001	.001	.020	.002	.010	.000	.003	.005	.003	.001	.001	.000	.001
	9. Stone, clay & glass products	.000	.000	.001	.001	.000	.000	.001	.000	.028	.000	.000	.013	.001	.000	.000	.000	.000	.000	.000	.000	.012	.000
	10. Chemicals, petroleum & coal, other mfg.	.002	.041	.002	.012	.004	.001	.000	.090	.000	.005	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.002	.000
	11. Wholesale trade	.008	.002	.000	.002	.002	.002	.013	.002	.001	.000	.001	.001	.010	.005	.000	.001	.075	.032	.000	.002	.042	.003
Trade	12. Service stations	.000	.020	.001	.001	.000	.003	.004	.001	.000	.000	.000	.004	.002	.006	.000	.000	.003	.020	.001	.002	.006	.001
	13. Eating & drinking places	.000	.000	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.001	.000	.000	.013	.003	.000	.000	.000
	14. Other retail	.011	.007	.000	.000	.000	.015	.013	.001	.001	.001	.001	.009	.085	.016	.001	.010	.017	.005	.002	.023	.002	.013
Services	15. Oil field services	.000	.000	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	16. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.004	.000	.000	.000	.000
	17. Other services (except professional)	.037	.002	.000	.000	.005	.015	.021	.037	.030	.004	.016	.002	.030	.035	.001	.048	.082	.009	.001	.006	.003	.014
Utilities	18. Transportation	.024	.000	.008	.025	.016	.039	.073	.004	.043	.040	.095	.024	.005	.075	.008	.004	.008	.123	.036	.036	.015	.001
	19. Electric energy	.014	.000	.007	.030	.017	.010	.030	.010	.006	.012	.006	.010	.013	.012	.002	.018	.019	.022	.031	.006	.006	.008
	20. Other utilities	.004	.000	.000	.003	.003	.008	.004	.004	.003	.001	.024	.050	.010	.026	.002	.055	.060	.014	.005	.045	.003	.010
	21. Contract construction	.000	.000	.000	.005	.002	.001	.000	.000	.000	.000	.006	.004	.003	.001	.003	.003	.003	.000	.005	.001	.099	.002
	22. Rentals & finance	.021	.023	.040	.025	.026	.015	.022	.025	.032	.022	.032	.143	.029	.056	.003	.067	.020	.012	.011	.042	.017	.057

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

DIRECT PURCHASES PER DOLLAR OF OUTPUT
GREEN SUB-BASIN 1980
Table GR-1980-b

Industry Purchasing		Industry Producing																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		Agriculture	Forestry	Oil & gas	Coal	Uranium & non-fuels	Food & kindred products	Lumber & wood products	Printing & publishing	Stone, clay & glass products	Chemicals, petroleum & coal, other mfg.	Wholesale trade	Service stations	Eating & drinking places	Other retail	Oil field services	Lodging	Other services (except professional)	Transportation	Electric energy	Other utilities	Contract Construction	Rentals & finance
Mining	1. Agriculture	1.212201	.000507	.003475	.004295	.000011	.021099	.001262	.000687	.000033	.002601	.015099	.001203	.000612	.015764	.000052	.000157	.051128	.039296	.020505	.010395	.000539	.031671
	2. Forestry	.000048	1.000007	.017108	.000339	.000013	.000077	.000018	.000594	.000292	.041300	.002537	.020269	.000087	.007876	.000257	.000015	.003298	.003785	.001392	.001975	.000206	.029975
	3. Oil & gas	.000081	.000003	1.010483	.001682	.000036	.000128	.000006	.000134	.001062	.002095	.000561	.001286	.001185	.000819	.015157	.000056	.000937	.010164	.008080	.000872	.000220	.043638
	4. Coal	.000116	.000834	.007344	1.012866	.000146	.000176	.002074	.001258	.001151	.012391	.003543	.001812	.001536	.000960	.000110	.000128	.001203	.031955	.032786	.004489	.005916	.029233
	5. Uranium & non-fuels	.000034	.000012	.017948	.004890	1.251624	.000053	.000030	.001479	.000071	.005268	.004187	.000654	.000425	.000994	.000269	.000102	.007920	.025313	.023464	.005525	.003085	.036954
Manufacturing	6. Food & kindred products	.641981	.000288	.004400	.004948	.000035	1.029629	.000716	.002961	.000098	.002677	.013230	.004916	.001035	.025116	.000066	.000279	.045484	.069612	.023528	.017041	.001695	.036813
	7. Lumber & wood products	.002577	.404044	.010106	.008371	.000050	.000259	1.005085	.001021	.001254	.016870	.019155	.014293	.001345	.018244	.000152	.000365	.026883	.091095	.035233	.009677	.000651	.041032
	8. Printing & publishing	.000079	.000005	.038401	.002892	.000009	.000126	.000013	1.005481	.000067	.091062	.005669	.001486	.000235	.002580	.000576	.000046	.041817	.011361	.013360	.007821	.000361	.032619
	9. Stone, clay & glass products	.002038	.000007	.001993	.004077	.030911	.003263	.000018	.004635	1.028836	.000605	.005679	.001283	.000734	.002790	.000030	.000213	.035530	.053350	.009543	.007174	.000410	.038654
Trade	10. Chemicals, petroleum & coal, other mfg.	.000727	.000007	.407409	.004616	.000019	.001161	.000016	.001326	.000449	1.006035	.002276	.001550	.001142	.002204	.006111	.000211	.005875	.051316	.017326	.002982	.000290	.042591
	11. Wholesale trade	.000111	.000021	.011906	.002184	.000135	.000167	.000053	.001616	.000136	.000213	1.006568	.002488	.001501	.003318	.000179	.000446	.019736	.111552	.009972	.028931	.006977	.038805
	12. Service stations	.000088	.000025	.013479	.003089	.000501	.000137	.000063	.020766	.013523	.001957	.003547	1.005139	.000516	.013015	.000202	.000133	.007208	.033279	.013677	.055913	.005035	.158388
	13. Eating & drinking places	.063117	.000112	.003461	.003952	.000110	.101226	.000278	.003585	.001135	.000621	.015440	.003600	1.000553	.090621	.000052	.000095	.041865	.023740	.018699	.018210	.004045	.042948
Services	14. Other retail	.002185	.000832	.006124	.003648	.000036	.003487	.002069	.011054	.000148	.001102	.011668	.008340	.003295	1.019658	.000092	.000368	.042039	.091926	.016937	.033437	.001703	.066973
	15. Oil field services	.000098	.000010	.001248	.000530	.000065	.000131	.000024	.000073	.000048	.002033	.000601	.000245	.001138	.001331	1.000019	.001039	.001448	.009735	.002496	.002535	.003377	.003909
	16. Lodging	.021580	.000034	.008021	.004792	.000077	.009609	.000084	.003686	.000073	.000470	.006391	.000791	.000262	.014174	.000120	1.000048	.055889	.011920	.021894	.063017	.003981	.077928
Utilities	17. Other services (except professional)	.000073	.000033	.010889	.005248	.000089	.000114	.000081	.006090	.000129	.000647	.083456	.004185	.000460	.021373	.000163	.000102	1.093145	.025359	.023909	.072487	.004555	.032645
	18. Transportation	.001063	.000014	.005501	.005856	.000024	.001589	.000035	.004252	.000348	.000472	.038219	.023302	.015042	.008565	.000083	.004594	.013808	1.148416	.027844	.020982	.000742	.022883
	19. Electric energy	.000270	.000194	.058783	.215734	.000145	.000426	.000483	.001559	.000408	.002887	.002700	.002466	.004065	.003308	.000882	.000204	.002490	.050796	1.040798	.007647	.007090	.022481
	20. Other utilities	.000106	.000030	.108938	.006225	.000034	.000165	.000073	.001655	.000184	.000452	.004722	.003445	.000818	.025814	.001634	.000193	.009379	.047734	.009644	1.050093	.001491	.054830
	21. Contract construction	.000078	.002696	.006240	.001949	.021262	.000097	.006707	.000468	.013824	.002507	.048289	.007414	.000397	.003287	.000094	.000109	.006101	.027293	.009099	.006439	1.110431	.025534
	22. Rentals & finance	.000036	.000020	.002012	.002048	.000050	.000058	.000049	.001372	.000054	.000159	.004828	.001350	.000118	.014719	.000030	.000017	.017072	.004259	.009630	.012933	.002551	1.063030

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
GREEN SUB-BASIN 1980
Table GR-1980-c

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		Agriculture	Forestry	Oil & Gas	Coal	Uranium & Non-Fuels	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing	Stone, Clay & Glass Products	Chemicals, Petroleum & Coal, Other Mfg.	Wholesale Trade	Service Stations	Eating & Drinking Places	Other Retail	Oil Field Services	Lodging	Other Services (except professional)	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output	
Mining	1. Agriculture	10,695	0	0	0	0	6,554	10	0	0	0	0	0	0	0	923	0	0	0	0	0	0	45,859	64,041	1.	
	2. Forestry	0	0	0	0	0	0	2,048	0	0	815	0	0	0	0	0	0	0	0	0	0	0	0	60	2,923	2.
	3. Oil & Gas	0	0	4,142	0	385	0	0	0	0	1,979	322	110	0	0	0	0	62	47	2,887	3,870	248	0	262,050	276,101	3.
	4. Coal	0	0	0	432	0	0	5	0	4	13	0	0	0	0	0	0	0	0	11,031	184	0	0	55,140	66,810	4.
	5. Uranium & Non-Fuels	0	0	0	0	6,835	0	0	0	45	0	0	0	0	0	0	0	0	0	464	0	1,242	0	23,502	32,088	5.
Manufacturing	6. Food & Kindred Products	1,025	0	0	0	0	347	0	0	6	13	0	0	3,579	586	0	710	0	0	0	0	0	7,082	13,348	6.	
	7. Lumber & Wood Products	64	0	0	124	32	0	51	0	0	155	0	0	195	0	0	0	0	0	37	497	0	4,123	5,278	7.	
	8. Printing & Publishing	0	0	276	62	32	27	5	18	7	26	40	288	72	1,075	0	284	155	142	52	37	0	131	251	2,980	8.
	9. Stone, Clay & Glass Products	0	0	276	62	0	0	5	0	58	0	0	178	36	0	0	0	0	0	0	0	1,077	0	168	1,859	9.
	10. Chemicals, Petroleum & Coal, Other Mfg.	256	129	1,104	927	225	414	0	313	4	103	121	0	0	488	35	0	0	0	258	0	166	0	8,833	13,374	10.
Trade	11. Wholesale Trade	512	6	276	185	96	27	66	6	2	26	80	14	398	488	17	71	2,357	1,516	52	74	3,561	394	31,372	41,597	11.
	12. Service Stations	0	61	552	62	0	40	20	3	0	13	0	55	72	586	0	0	93	948	52	74	497	131	10,457	13,716	12.
	13. Eating & Drinking Places	0	0	276	62	0	0	0	0	0	13	0	0	0	195	17	0	0	616	155	0	0	0	34,858	36,192	13.
	14. Other Retail	704	23	276	0	0	1,829	71	3	2	39	442	123	3,109	1,563	17	710	527	237	103	848	166	1,709	116,772	129,274	14.
Services	15. Oil Field Services	0	0	4,694	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,688	17,382	15.	
	16. Lodging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	190	0	0	0	70,806	71,013	16.	
	17. Other Services (Except Professional)	2,498	12	0	62	160	240	107	113	58	103	643	27	1,121	3,517	17	3,409	2,543	426	52	258	331	2,234	13,086	31,018	17.
Utilities	18. Transportation	1,537	0	2,761	1,668	513	547	372	12	80	1,164	3,818	329	181	7,326	139	355	248	5,827	1,907	1,327	1,242	131	15,889	47,375	18.
	19. Electric Energy	961	0	2,485	2,039	642	200	163	36	15	181	322	151	470	1,270	35	1,349	620	1,042	1,598	221	497	1,052	37,949	53,296	19.
	20. Other Utilities	256	0	276	185	96	147	20	12	7	272	1,005	686	362	2,637	35	3,977	1,861	663	258	1,695	248	1,314	20,842	36,855	20.
	21. Contract Construction	0	0	0	309	64	27	0	0	0	0	241	55	108	195	52	213	93	0	258	37	8,531	263	72,377	82,823	21.
	22. Rentals and Finance	1,473	73	11,320	1,668	931	227	122	77	61	388	1,326	1,989	1,085	5,568	87	4,829	713	663	670	1,622	1,905	7,624	87,020	131,441	22.
	23. Final Payments	44,060	2,619	247,387	58,963	22,077	2,722	2,213	2,387	1,510	8,071	33,237	9,711	25,599	103,585	16,914	54,183	21,746	35,058	33,499	28,571	62,615	116,458			23.
	24. Total Gross Outlays	64,041	2,923	276,101	66,810	32,088	13,348	5,278	2,980	1,859	13,374	41,597	13,716	36,192	129,274	17,382	71,013	31,018	47,375	53,296	36,855	82,823	131,441			24.

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

Industry Producing		Industry Purchasing																					
		1 Agriculture	2 Forestry	3 Oil & gas	4 Coal	5 Uranium & non-fuels	6 Food & kindred products	7 Lumber & wood products	8 Printing & publishing	9 Stone, clay & glass products	10 Chemicals, petroleum & coal other mfg.	11 Wholesale trade	12 Service stations	13 Eating & drinking places	14 Other retail	15 Oil field services	16 Lodging	17 Other services (except professional)	18 Transportation	19 Electric energy	20 Other utilities	21 Contract construction	22 Rentals & finance
Mining	1. Agriculture	.167	.000	.000	.000	.000	.491	.002	.000	.000	.000	.000	.000	.000	.000	.013	.000	.000	.000	.000	.000	.000	
	2. Forestry	.000	.000	.000	.000	.000	.000	.402	.000	.000	.063	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	3. Oil & gas	.000	.000	.015	.000	.012	.000	.000	.000	.000	.153	.008	.008	.000	.000	.000	.000	.002	.001	.056	.105	.003	.000
	4. Coal	.000	.000	.000	.007	.000	.000	.001	.000	.002	.001	.000	.000	.000	.000	.000	.000	.000	.000	.214	.005	.000	.000
	5. Uranium & non-fuels	.000	.000	.000	.000	.213	.000	.000	.000	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000	.015	.000
Manufacturing	6. Food & kindred products	.016	.000	.000	.000	.000	.026	.000	.000	.003	.001	.000	.000	.099	.006	.000	.010	.000	.000	.000	.000	.000	
	7. Lumber & wood products	.001	.000	.000	.002	.001	.000	.010	.000	.000	.012	.000	.000	.000	.002	.000	.000	.000	.000	.000	.001	.006	.000
	8. Printing & publishing	.000	.000	.001	.001	.001	.002	.001	.006	.004	.002	.001	.021	.002	.011	.000	.004	.005	.003	.001	.001	.000	.001
	9. Stone, clay & glass products	.000	.000	.001	.001	.000	.000	.001	.000	.031	.000	.000	.013	.001	.000	.000	.000	.000	.000	.000	.000	.013	.000
	10. Chemicals, petroleum & coal, other mfg.	.004	.044	.004	.015	.007	.031	.000	.105	.002	.008	.003	.000	.000	.005	.002	.000	.000	.000	.005	.000	.002	.000
Trade	11. Wholesale trade	.008	.002	.001	.003	.003	.002	.013	.002	.001	.002	.002	.001	.011	.005	.001	.001	.076	.032	.001	.002	.043	.003
	12. Service stations	.000	.021	.002	.001	.000	.003	.004	.001	.000	.001	.000	.004	.002	.006	.000	.000	.003	.020	.001	.002	.006	.001
	13. Eating & drinking places	.000	.000	.001	.001	.000	.000	.000	.000	.000	.001	.000	.000	.000	.002	.001	.000	.000	.013	.003	.000	.000	.000
	14. Other retail	.011	.008	.001	.007	.000	.137	.014	.001	.001	.003	.011	.009	.086	.016	.001	.010	.017	.005	.002	.023	.002	.013
Services	15. Oil field services	.000	.000	.017	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
	16. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.004	.000	.000	.000	.000
	17. Other services (except professional)	.039	.004	.000	.001	.005	.018	.021	.038	.031	.008	.016	.002	.031	.036	.001	.048	.082	.009	.001	.007	.004	.017
Utilities	18. Transportation	.024	.000	.010	.027	.016	.041	.073	.004	.043	.090	.095	.024	.005	.075	.008	.005	.008	.123	.037	.036	.015	.001
	19. Electric energy	.015	.000	.009	.033	.020	.015	.032	.012	.008	.014	.008	.011	.013	.013	.002	.019	.020	.022	.031	.006	.006	.008
	20. Other utilities	.004	.000	.001	.003	.003	.011	.004	.004	.004	.021	.025	.050	.010	.027	.002	.056	.060	.014	.005	.046	.003	.010
	21. Contract construction	.000	.000	.000	.005	.002	.002	.000	.000	.000	.000	.006	.004	.003	.002	.003	.003	.003	.000	.005	.001	.103	.002
	22. Rentals & finance	.023	.025	.041	.027	.029	.017	.024	.026	.033	.030	.033	.145	.030	.057	.005	.068	.023	.014	.013	.044	.023	.058

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

DIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
GREEN SUB-BASIN 2010
Table GR-2010-b

Industry Purchasing		Industry Producing																					
		1 Agriculture	2 Forestry	3 Oil & gas	4 Coal	5 Uranium & non-fuels	6 Food & kindred products	7 Lumber & wood products	8 Printing & publishing	9 Stone, clay & glass products	10 Chemicals, petroleum, & coal other mfg.	11 Wholesale trade	12 Service stations	13 Eating & drinking places	14 Other retail	15 Oil field services	16 Lodging	17 Other services (except professional)	18 Transportation	19 Electric energy	20 Other utilities	21 Contract Construction	22 Rentals and finance
Mining	1. Agriculture	1.212335	.000923	.003656	.004852	.000267	.020103	.001360	.000776	.000036	.005984	.015509	.001273	.000642	.018553	.000062	.000161	.054214	.040285	.022223	.010978	.000622	.035194
	2. Forestry	.000074	1.003042	.007608	.000436	.000034	.000122	.000566	.000748	.000300	.044676	.002979	.021465	.000164	.009223	.000129	.000027	.005990	.006764	.001730	.003299	.000247	.032842
	3. Oil & gas	.000089	.000303	1.016801	.002274	.000158	.000150	.000066	.001223	.001089	.004389	.001779	.002407	.001250	.002014	.017286	.000071	.001327	.013391	.010466	.002280	.000270	.045732
	4. Coal	.000122	.001916	.005185	1.014911	.000564	.000195	.002287	.001325	.001163	.015821	.004906	.001949	.001613	.001205	.000088	.000143	.002660	.035806	.036263	.005098	.005998	.032119
	5. Uranium & non-fuels	.000045	.001179	.019313	.006099	1.271033	.000068	.001440	.001564	.000081	.009532	.005731	.000767	.000474	.001252	.000328	.000109	.008434	.027079	.028106	.006027	.003202	.042340
Manufacturing	6. Food & kindred products	.611785	.002888	.010717	.007188	.000441	1.037901	.001437	.004700	.000151	.036679	.015336	.006282	.001601	.154647	.000182	.000351	.055390	.087663	.032566	.026034	.003348	.051112
	7. Lumber & wood products	.002630	.407371	.006635	.009256	.000486	.000337	1.010407	.002157	.001270	.018845	.019590	.014882	.001400	.020199	.000113	.000373	.028425	.093186	.037883	.010451	.000721	.045277
	8. Printing & publishing	.000108	.007283	.018857	.003649	.000195	.000176	.001326	1.006699	.000056	.107136	.006418	.001921	.000427	.003196	.000321	.000075	.043876	.018628	.016179	.010476	.000410	.035169
	9. Stone, clay & glass products	.001957	.000235	.002653	.004723	.031619	.003314	.000099	.004690	1.032024	.003101	.005940	.001327	.000757	.003376	.000045	.000217	.037040	.054135	.012055	.008535	.000452	.040664
	10. Chemicals, petroleum & coal, other mfg.	.000846	.068734	.161454	.005556	.000249	.001373	.012326	.002911	.000264	1.012369	.007311	.005280	.002696	.006611	.002745	.000446	.012295	.110704	.020378	.026269	.000430	.046774
Trade	11. Wholesale trade	.000157	.000281	.012897	.002839	.000282	.000254	.000150	.001780	.000148	.003501	1.007822	.002620	.001556	.013728	.000219	.000453	.020470	.113208	.012440	.030563	.007072	.041414
	12. Service stations	.000110	.000228	.015519	.003541	.000682	.000183	.000154	.021843	.013574	.002640	.003694	1.005183	.000531	.013168	.000264	.000135	.007986	.033682	.014978	.056187	.005094	.161307
	13. Eating & drinking places	.060928	.000450	.004238	.004400	.000346	.103362	.000385	.003890	.001151	.004684	.016896	.003773	1.000621	.104795	.000072	.000104	.044380	.026050	.019928	.019469	.004351	.046143
	14. Other retail	.003962	.001327	.006220	.004165	.000271	.006703	.002212	.012162	.000168	.006943	.012041	.008428	.003326	1.020834	.000106	.000373	.043821	.093187	.018465	.034990	.002889	.069308
Services	15. Oil field services	.000099	.000152	.000791	.000565	.000096	.000140	.000053	.000085	.002081	.001644	.000259	.001144	.001410	1.000013	.001040	.001550	.009994	.002548	.002650	.003407	.006165	
	16. Lodging	.021948	.000149	.008594	.005349	.000346	.010756	.000170	.004757	.000081	.001278	.006634	.000862	.000294	.015699	.000146	1.000055	.056549	.013636	.023308	.064392	.004053	.079979
	17. Other services (except professional)	.000115	.000153	.012406	.005849	.000383	.000191	.000175	.006161	.000138	.001314	.084760	.004229	.000477	.022360	.000211	.000104	1.093544	.025900	.025429	.072870	.004635	.036901
Utilities	18. Transportation	.001046	.000087	.005703	.006164	.000347	.001653	.000070	.004314	.000351	.000942	.038372	.023325	.015049	.009235	.000097	.004595	.014051	1.148680	.028100	.021168	.000771	.025771
	19. Electric energy	.000276	.000840	.061867	.224709	.012072	.000460	.000638	.001695	.000433	.009268	.004310	.002646	.004137	.003622	.001052	.000218	.003146	.054289	1.042449	.008205	.007237	.026676
	20. Other utilities	.000154	.000526	.112975	.007488	.000152	.000252	.001152	.001826	.000196	.001001	.005047	.003608	.000836	.026146	.001921	.000196	.010886	.048445	.010166	1.051546	.001555	.057923
	21. Contract construction	.000088	.002931	.005899	.002135	.021829	.000118	.006837	.000531	.015081	.002899	.049897	.007493	.000411	.003996	.000100	.000112	.007730	.027975	.009558	.006870	1.115427	.033338
	22. Rentals and finance	.000063	.000049	.002131	.002179	.000163	.000106	.000068	.001416	.000058	.000344	.005153	.001372	.000121	.014879	.000036	.000018	.020633	.004424	.009798	.013236	.002599	1.064474

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
GREEN SUB-BASIN 2010
Table GR-2010-c

Table CRB-11a

Total Gross Output of Processing Sector Industries
for Each of the Six Sub-Basins of the Colorado River
Basin in 1980

(in thousands of dollars)

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			4	57,822								
Range Livestock	28	45,596			15	13,513	26	8,026	12	17,866	9	30,083
Feeder Livestock	20	115,599			22	790	19	32,609			12	26,882
Dairy	23	72,399			23	638	29	4,435	23	3,710	27	2,577
Food & Field Crops											22	6,884
Field Crops									22	44,477		
Forage Feed & Food	26	57,544			19	2,329	23	20,653				
Truck Crops											30	1,210
Vegetables	22	78,050										
Citrus Crops	33	11,286					22	21,633				
Fruit									27	812	17	9,451
Veg. & Melon Products							11	73,267				
Cotton	14	214,861					21	24,553				
"Other" Agriculture	31	22,214			24	371	25	9,483	25	1,096	29	2,409
Forestry	34	2,100	20	2,022	16	6,078	30	3,979	24	2,697	25	3,658
Coal			3	59,514	25	367			28	578	20	8,177
Oil & Gas			1	179,822	21	1,230			1	161,353	31	1,015
Uranium	36	790			2	184,470	28	5,315	6	49,066	3	88,911
Uranium & Nonfuels			10	22,864								
Copper	11	439,262										
Zinc											15	16,333
"Other" Mining	17	165,734			17	5,528	18	37,423	17	10,714	18	8,883
Food & Kindred Products	9	546,863	16	10,557	18	2,454	14	54,074	16	15,271	8	34,794

Table CRB-11a - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	24	67,407	18	5,133	10	31,120	24	16,999	19	6,416	24	6,229
Furniture & Fixtures	30	22,479										
Paper & Pulp	29	23,143										
Printing & Publishing	21	105,868	22	1,474	20	2,311	20	31,937	21	5,716	21	7,366
Chemicals	25	62,432					17	42,647				
Chem, Petrol., Coal Other Manufacturing			19	2,914								
Primary Metals	8	604,014										
Fabricated Metals	16	173,675					27	7,672			28	2,570
Stone, Clay & Glass	15	179,933	21	1,918			16	43,926	18	7,677	26	2,832
Textiles & Apparel	32	20,709										
Leather & Leather Goods	35	884										
"Other" Manufacturing	6	759,463			11	30,073	15	48,597	11	22,508	13	18,253
Wholesale Trade	4	1,018,362	12	20,372	8	34,415	6	177,251	8	32,834	7	42,724
Service Stations	19	125,532	17	7,689	13	17,004	12	65,792	20	6,277	19	8,722
Eating & Drinking Places	10	483,538	13	20,292	7	34,898	9	133,868	13	17,602	11	29,191
"Other" Retail	2	1,673,830	2	73,350	4	76,418	5	386,470	3	72,623	2	90,788
Agricultural Services	27	45,893					13	57,898	26	919	23	6,829
Oil Field Services			11	21,430					14	16,906		
Lodging	18	165,283	9	24,961	14	16,378	4	440,364	15	15,859	14	17,471
"Other" Services	5	812,268	14	17,267	9	33,833	1	638,904	7	36,486	6	46,897
Transportation	13	360,442	7	34,529	5	71,131	7	173,622	4	66,405	5	64,180
Electric Energy	12	416,054	8	32,796	6	35,084	10	91,471	9	26,406	16	15,205
"Other" Utilities	7	649,717	15	16,664	12	28,507	8	135,297	10	25,457	10	29,997
Contract Construction	1	2,520,746	6	47,813	1	196,099	2	619,247	2	101,987	1	143,811
Rentals & Finance	3	1,361,356	5	50,665	3	78,496	3	457,775	5	64,036	4	87,678

Table CRB-11b

Processing Sector Industries Sales to Final Demand
for Each of the Six Colorado River Sub-Basins, 1980

(in thousands of dollars)

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			4	42,400								
Range Livestock	31	3,381			13	12,901	26	2,217	13	16,196	15	6,942
Feeder Livestock	21	29,930			19	788	14	30,541			11	18,149
Dairy	30	3,381			24	14	28	32	22	910	28	680
Food & Field Crops											22	4,396
Field Crops									19	3,935		
Forage Feed & Food	32	1,171			20	556	21	10,667				
Truck Crops											26	1,140
Vegetables	15	75,849										
Citrus Crops	27	7,559					16	21,611				
Fruit									25	706	14	7,682
Veg. & Melon Products							10	73,194				
Cotton	11	176,959					18	20,360				
"Other" Agriculture	25	14,031			22	39	24	5,754	24	740	24	1,400
Forestry	36	-0-	22	40	23	18	30	-0-	26	95	25	1,291
Coal			3	52,578	21	336			27	93	16	6,380
Oil & Gas			1	173,046	25	-0-			1	148,261	27	1,000
Uranium	34	614			2	118,799	25	3,694	6	37,241	3	72,640
Uranium & Nonfuels			11	17,505								
Copper	29	3,852										
Zinc											13	16,317
"Other" Mining	18	47,231			16	5,036	22	9,458	17	7,128	21	4,613
Food & Kindred Products	10	436,161	16	6,999	17	1,823	19	20,220	15	12,963	9	25,625

Table CRB-11b - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	20	35,959	18	4,544	7	27,344	20	11,387	20	2,333	17	5,868
Furniture & Fixtures	22	20,942										
Paper & Pulp	28	5,216										
Printing & Publishing	17	49,474	21	230	18	1,360	23	5,818	23	802	30	341
Chemicals	26	12,159					13	33,175				
Chem, Petrol., Coal Other Manufacturing			19	1,312								
Primary Metals	5	579,450										
Fabricated Metals	19	46,552					27	912			23	1,418
Stone, Clay & Glass	24	18,063	20	931			17	20,684	21	2,147	29	384
Textiles & Apparel	23	20,562										
Leather & Leather Goods	33	847										
"Other" Manufacturing	8	451,765			11	17,215	11	46,804	10	17,261	19	5,341
Wholesale Trade	4	736,362	13	14,537	6	30,353	7	114,463	7	28,196	6	37,088
Service Stations	14	76,176	17	5,815	14	12,627	12	45,768	18	4,338	18	5,706
Eating & Drinking Places	9	451,409	9	19,382	5	33,727	6	127,182	12	16,870	8	28,530
"Other" Retail	2	1,523,507	2	67,841	3	68,295	4	354,837	3	68,322	2	87,015
Agricultural Services	35	200					29	-0-	28	-0-	31	28
Oil Field Services			10	18,731					16	12,872		
Lodging	13	139,330	7	24,801	12	16,186	2	437,000	14	15,521	12	17,291
"Other" Services	6	533,142	15	7,829	10	18,634	1	539,105	8	21,433	7	35,105
Transportation	16	71,516	12	15,545	8	24,283	8	86,784	5	37,865	5	38,668
Electric Energy	12	154,428	8	23,910	15	8,643	15	29,194	11	17,242	20	5,341
"Other" Utilities	7	464,209	14	9,097	9	22,770	9	78,432	9	17,422	10	21,970
Contract Construction	1	1,731,315	5	42,017	1	143,108	3	417,412	2	68,517	1	96,428
Rentals & Finance	3	933,083	6	27,174	4	53,674	5	315,639	4	38,043	4	65,745

Table CRB-11c

1980

Sales to Final Demand of Processing Sector Industries as a Percent of
Total Gross Output in the Six Colorado River Sub-Basins

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%
Agriculture			11	73.33								
Range Livestock	31	7.42			4	95.47	24	27.62	5	90.65	28	23.08
Feeder Livestock	26	25.89			2	98.48	6	93.66			16	67.51
Dairy	32	4.67			23	2.19	28	0.72	24	24.53	27	26.39
Food & Field Crops											19	63.86
Field Crops									6	87.89		
Forage Feed & Food	33	2.03			21	23.87	19	51.65				
Truck Crops											6	94.21
Vegetables	2	97.18										
Citrus Crops	16	66.98					2	99.90				
Fruit									7	86.95	10	81.28
Veg. & Melon Products							1	99.90				
Cotton	9	82.36					9	82.92				
"Other" Agriculture	18	63.16			22	10.51	17	60.68	15	67.52	21	58.12
Forestry	36	0.00	22	1.98	24	0.30	29	0.00	27	3.52	24	35.29
Coal			6	88.35	5	91.55			25	16.09	11	78.02
Oil & Gas			2	96.18	25	0.00			4	91.89	3	98.52
Uranium	11	77.72			15	64.40	12	69.50	12	75.90	9	81.70
Uranium & Nonfuels			9	76.56								
Copper	34	0.88										
Zinc											1	99.90
"Other" Mining	24	28.50			6	91.10	25	25.27	17	66.53	23	51.93
Food & Kindred Products	10	79.76	14	66.30	11	74.29	22	37.39	9	84.89	14	73.65

Table CRB-11c - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%
Lumber & Wood	21	53.35	5	88.53	9	87.87	15	66.99	22	36.36	7	94.20
Furniture & Fixtures	6	93.16										
Paper & Pulp	27	22.54										
Printing & Publishing	22	46.73	21	15.60	16	58.85	26	18.22	26	14.03	30	4.63
Chemicals	29	19.48					10	77.79				
Chem, Petrol., Coal Other Manufacturing			20	45.02								
Primary Metals	3	95.93										
Fabricated Metals	25	26.08					27	11.89			22	55.18
Stone, Clay & Glass	30	10.04	17	48.54			21	47.09	23	27.97	29	13.56
Textiles & Apparel	1	99.29										
Leather & Leather Goods	4	95.81										
"Other" Manufacturing	20	59.48			17	57.24	4	96.31	10	76.69	26	29.26
Wholesale Trade	12	72.31	13	71.36	8	88.20	16	64.58	8	85.87	8	86.81
Service Stations	19	60.68	10	75.63	12	74.26	11	69.56	13	69.11	18	65.42
Eating & Drinking Places	5	93.36	3	95.52	3	96.64	5	95.01	2	95.84	4	97.74
"Other" Retail	7	91.02	4	92.49	7	89.37	7	91.81	3	94.08	5	95.84
Agricultural Services	35	0.44					30	0.00	28	0.00	31	0.41
Oil Field Services			8	87.41					11	76.14		
Lodging	8	84.30	1	99.36	1	98.83	3	99.24	1	97.87	2	98.97
"Other" Services	17	65.63	18	45.34	18	55.08	8	84.38	20	58.74	13	74.86
Transportation	28	19.84	19	45.02	19	34.63	20	49.98	21	57.02	20	60.25
Electric Energy	23	37.12	12	72.91	20	24.64	23	31.92	18	65.30	25	35.13
"Other" Utilities	13	71.45	15	54.59	10	79.88	18	57.97	14	68.44	15	72.24
Contract Construction	14	68.68	7	87.88	13	72.98	14	67.41	16	67.18	17	67.05
Rentals & Finance	15	68.54	16	53.63	14	68.38	13	68.95	19	59.41	12	74.98

Table CRB-11d

Processing Sector Industries of the Sub-Basins of the Colorado River Basin
 Ranked by the Magnitude of the Total Dollar Production Directly and Indirectly
 Required by a Sub-Basin Economy to Sustain a \$1.00 Increase in Deliveries to
 Final Demand by the Industries Named, 1980

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			5	1.432592								
Range Livestock	30	1.001642			13	1.292809	4	1.108649	7	1.050631	14	1.307302
Feeder Livestock	20	1.015549			1	1.960378	29	1.000049			1	2.175890
Dairy	14	1.022747			4	1.834948	9	1.035102	15	1.005149	9	1.469857
Food & Field Crops											17	1.277037
Field Crops									25	1.000024		
Forage Feed & Food	25	1.011229			11	1.349560	24	1.002945				
Truck Crops											4	1.611100
Vegetables	33	1.001005										
Citrus Crops	31	1.001085					26	1.001001				
Fruit									27	1.000001	6	1.600807
Veg. & Melon Products							25	1.001001				
Cotton	29	1.002350					16	1.007463				
"Other" Agriculture	28	1.004957			9	1.478352	18	1.006794	20	1.000685	7	1.534172
Forestry	36	1.000002	20	1.131468	25	1.132937	30	1.000003	26	1.000017	30	1.082527
Coal			18	1.152027	6	1.656867			22	1.000280	25	1.111209
Oil & Gas			22	1.095685	7	1.585098			11	1.015031	16	1.288240
Uranium	21	1.015244			3	1.934488	2	1.438849	2	1.317523	11	1.431928
Uranium & Nonfuels			7	1.390301								
Copper	13	1.032433										
Zinc											29	1.094810
"Other" Mining	3	1.187828			15	1.280294	17	1.007220	5	1.098124	26	1.106734
Food & Kindred Products	8	1.059664	1	1.026548	2	1.951611	11	1.029695	10	1.015273	2	2.075294

Table CRB-11d - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	19	1.017048	2	1.707762	10	1.385760	3	1.116166	24	1.000132	3	1.641398
Furniture & Fixtures	7	1.072964										
Paper & Pulp	6	1.082421										
Printing & Publishing	15	1.021397	15	1.256066	16	1.262590	15	1.007656	13	1.007876	28	1.100239
Chemicals	17	1.018662					23	1.003340				
Chem, Petrol., Coal			3	1.555639								
Other Manufacturing	23	1.013096	9	1.056449								
Primary Metals	23	1.013096										
Fabricated Metals	99	1.056449					10	1.031035			24	1.120188
Stone, Clay & Glass	2	1.206650	17	1.231773			12	1.018014	17	1.003111	10	1.451147
Textiles & Apparel	26	1.007094										
Leather & Leather Goods	35	1.000044										
"Other" Manufacturing	5	1.174766			21	1.159484	20	1.006345	9	1.015967	27	1.104713
Wholesale Trade	16	1.020433	16	1.247015	5	1.716170	13	1.011716	16	1.004767	19	1.230304
Service Stations	27	1.006729	9	1.349680	22	1.158066	22	1.005530	19	1.000840	21	1.192232
Eating & Drinking Places	24	1.011263	5	1.437465	14	1.284029	27	1.000558	21	1.000401	8	1.480793
"Other" Retail	22	1.013671	12	1.327121	18	1.214964	21	1.005669	14	1.005319	15	1.301892
Agricultural Services	34	1.000048					19	1.006461	28	1.000001	23	1.154270
Oil Field Services			21	1.032133					23	1.000239		
Lodging	32	1.001065	13	1.304841	24	1.133743	28	1.000118	18	1.004147	12	1.330798
"Other" Services	10	1.050925	8	1.385232	23	1.146122	7	1.048056	8	1.026982	20	1.215087
Transportation	11	1.039599	10	1.343634	12	1.316334	5	1.062229	4	1.111388	18	1.253533
Electric Energy	4	1.186529	6	1.425816	20	1.188740	6	1.051038	3	1.156901	13	1.324293
"Other" Utilities	18	1.018515	11	1.327659	17	1.232773	14	1.011022	12	1.011222	22	1.162532
Contract Construction	1	1.366429	14	1.300315	8	1.559942	1	1.495381	1	1.446154	5	1.606433
Rentals & Finance	12	1.033249	19	1.136395	19	1.197843	8	1.047353	6	1.067180	31	1.081125

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Table CRB-11e

1980

Number of Processing Sector Industries Responding in Amounts of At Least
\$0.01 per Dollar of Sales to Final Demand by the Industries Listed Below
For the Six Colorado River Sub-Basins

	Gila	Green	Little Colorado	Lower Main Stem	San Juan	Upper Main Stem
Agriculture		8				
Range Livestock	7		5	7	5	7
Feeder Livestock	11		6	9		12
Dairy	11		8	13	7	12
Food & Field Crops						8
Field Crops					4	
Forage Feed & Food	11		6	9		
Truck Crops						6
Vegetables	8					
Citrus Crops	15			12		
Fruit					6	6
Veg. & Melon Products				13		
Cotton	12			9		
"Other" Agriculture	17		9	9	10	13
Forestry	4	4	3	4	2	3
Coal		4	8		4	5
Oil & Gas		3	5		2	8
Uranium	11		7	8	2	3
Uranium & Nonfuels		4				
Copper	13					
Zinc						2
"Other" Mining	16		9	9	5	5
Food & Kindred Products	17	8	12	11	10	15

Table CRB-11e - Continued

	Gila	Green	Little Colorado	Lower Main Stem	San Juan	Upper Main Stem
Lumber & Wood	11	10	5	8	5	7
Furniture & Fixtures	10					
Paper & Pulp	12					
Printing & Publishing	11	6	7	6	5	3
Chemicals	10			10		
Chem, Petrol., Coal Other Manufacturing		4				
Primary Metals	16					
Fabricated Metals	11			7		33
Stone, Clay & Glass	10	4		9	5	6
Textiles & Apparel	8					
Leather & Leather Goods	15					
"Other" Manufacturing	11		5	9	6	4
Wholesale Trade	9	5	6	5	5	5
Service Stations	9	8	4	8	7	6
Eating & Drinking Places	13	9	7	12	9	12
"Other" Retail	8	7	4	6	6	8
Agricultural Services	8			9	6	5
Oil Field Services		0			5	
Lodging	12	7	6	7	7	7
"Other" Services	11	7	6	8	5	5
Transportation	10	7	5	7	6	5
Electric Energy	5	4	0	7	6	4
"Other" Utilities	9	4	8	8	4	4
Contract Construction	12	5	4	12	11	6
Rentals & Finance	4	3	3	3	2	2

Table CRB-12a

Total Gross Output of Processing Sector Industries
for Each of the Six Sub-Basins of the Colorado River
Basin in 2010
(in thousands of dollars)

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			7	64,041								
Range Livestock	28	59,700			15	15,215	27	8,301	15	26,341	13	44,377
Feeder Livestock	23	151,599			23	962	20	43,901			12	45,141
Dairy	22	152,796			22	1,093	29	6,277	21	8,913	28	3,324
Food & Field Crops											24	8,061
Field Crops									23	5,022		
Forage Feed & Food	27	59,941			20	3,825	23	25,444				
Truck Crops											30	1,879
Vegetables	25	96,678										
Citrus Crops	33	18,686						21	37,645			
Fruit									28	1,200	19	15,653
Veg. & Melon Products							12	130,285				
Cotton	20	258,568					22	33,896				
"Other" Agriculture	30	42,403			24	485	26	14,277	25	1,836	29	1,997
Forestry	35	2,139	21	2,923	17	6,456	30	4,534	24	2,971	25	8,011
Coal			6	66,801	25	254			27	1,361	23	9,954
Oil & Gas			1	276,101	21	2,273			4	150,886	31	1,016
Uranium	34	2,687			2	335,298	28	7,139	9	54,206	6	85,784
Uranium & Nonfuels			13	32,088								
Copper	12	866,814										
Zinc											16	22,453
"Other" Mining	16	573,571			16	8,563	19	62,445	17	15,957	20	11,001
Food & Kindred Products	13	849,431	18	13,348	19	4,352	13	112,142	14	27,019	10	50,110

Table CRB-12a - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	24	131,354	19	5,278	14	33,944	24	19,791	22	6,679	22	10,805
Furniture & Fixtures	31	32,807										
Paper & Pulp	26	80,030										
Printing & Publishing	18	411,500	20	2,980	18	6,070	15	89,340	19	14,609	17	17,491
Chemicals	21	174,164					18	67,706				
Chem, Petrol., Coal Other Manufacturing			17	13,374								
Primary Metals	7	1,229,136										
Fabricated Metals	14	728,538					25	16,031			27	3,876
Stone, Clay & Glass	11	873,140	22	1,859			16	87,310	16	17,199	26	4,116
Textiles & Apparel	32	30,759										
Leather & Leather Goods	36	1,751										
"Other" Manufacturing	6	1,608,560			12	49,435	17	71,900	13	35,282	14	42,555
Wholesale Trade	4	2,357,119	10	41,597	7	106,128	6	584,705	7	85,196	5	95,487
Service Stations	19	302,174	16	13,716	13	44,304	11	219,700	18	15,672	18	17,423
Eating & Drinking Places	8	1,147,558	12	36,192	8	103,729	9	322,052	11	46,973	8	65,612
"Other" Retail	3	3,895,093	3	129,274	4	226,883	4	1,058,542	3	191,291	3	203,686
Agricultural Services	29	57,197					14	102,222	26	1,608	21	10,816
Oil Field Services			15	17,382					20	13,621		
Lodging	17	481,933	5	71,013	10	53,391	5	1,042,610	10	50,345	11	48,812
"Other" Services	5	2,275,362	14	31,018	5	165,944	1	1,771,476	5	144,426	4	136,948
Transportation	10	957,428	9	47,375	6	135,369	7	402,217	6	97,868	7	81,385
Electric Energy	9	1,067,848	8	53,296	11	51,631	10	225,552	12	44,068	15	31,331
"Other" Utilities	15	647,350	11	36,885	9	90,909	8	389,426	8	57,508	9	56,173
Contract Construction	1	6,213,687	4	82,823	1	336,882	3	1,226,399	2	214,774	2	207,745
Rentals & Finance	2	4,905,958	2	131,441	3	272,717	2	1,346,151	1	228,344	1	210,436

Table CRB-12b

Processing Sector Industries Sales to Final Demand
for Each of the Six Colorado River Sub-Basins, 2010

(in thousands of dollars)

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			7	45,859								
Range Livestock	31	6,674			15	14,490	27	1,141	14	23,799	19	7,901
Feeder Livestock	27	11,060			19	943	16	38,924			11	31,862
Dairy	22	38,733			23	23	29	275	21	3,129	28	655
Food & Field Crops											22	4,758
Field Crops									19	4,441		
Forage Feed & Food	36	0			20	910	22	9,755				
Truck Crops											27	1,729
Vegetables	18	84,895					17	37,607				
Citrus Crops	29	9,524										
Fruit									25	804	15	12,900
Veg. & Melon Products							11	130,024				
Cotton	12	202,330					19	26,366				
"Other" Agriculture	26	20,975			22	43	24	6,522	23	1,015	25	1,180
Forestry	35	0	22	60	24	19	30	0	27	110	24	2,118
Coal			6	55,140	21	220			26	161	20	5,891
Oil & Gas			1	262,050	25	0			4	125,000	26	1,000
Uranium	33	906			2	214,926	25	4,926	9	40,980	6	70,000
Uranium & Nonfuels			11	23,502								
Copper	30	7,447										
Zinc											13	22,431
"Other" Mining	19	74,996			16	7,553	21	12,044	18	9,342	21	5,231
Food & Kindred Products	9	587,210	18	7,082	17	2,331	18	31,688	15	19,468	12	30,811

Table CRB-12b - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	20	74,460	19	4,123	12	25,827	23	8,831	24	817	17	9,770
Furniture & Fixtures	25	30,321										
Paper & Pulp	28	10,758										
Printing & Publishing	16	106,855	20	251	18	2,075	20	12,558	22	1,161	29	419
Chemicals	23	31,694			14	46,709						
Chem, Petrol., Coal Other Manufacturing			17	8,833								
Primary Metals	6	1,124,133										
Fabricated Metals	17	101,377					26	1,417			23	2,328
Stone, Clay & Glass	21	44,134	21	168	15	39,191			20	4,268	30	406
Textiles & Apparel	24	30,334										
Leather & Leather Goods	32	1,614										
"Other" Manufacturing	8	808,917			13	19,511	12	67,384	13	23,881	14	21,235
Wholesale Trade	4	1,699,314	10	31,372	7	92,626	6	427,656	6	74,810	5	83,567
Service Stations	13	175,791	16	10,457	11	33,345	10	171,063	16	11,509	16	12,857
Eating & Drinking Places	7	1,041,724	9	34,858	6	98,800	7	304,111	8	44,766	7	64,283
"Other" Retail	3	3,515,822	2	116,772	4	200,071	3	975,056	1	181,270	1	196,062
Agricultural Services	34	350					28	783	28	0	31	116
Oil Field Services			15	12,688					17	10,000		
Lodging	10	396,127	5	70,806	9	52,989	2	1,034,000	7	48,843	8	47,977
"Other" Services	5	1,526,874	14	13,086	5	115,271	1	1,493,257	5	105,828	4	111,946
Transportation	14	166,664	13	15,889	10	42,965	9	176,880	10	39,720	9	39,016
Electric Energy	11	327,545	8	37,949	14	16,831	13	55,670	12	24,163	18	8,561
"Other" Utilities	15	124,365	12	20,842	8	71,604	8	239,125	11	36,295	10	35,651
Contract Construction	1	4,185,393	4	72,377	1	240,978	5	804,756	3	135,906	3	133,494
Rentals & Finance	2	3,776,377	3	87,020	3	202,934	4	968,149	2	163,499	2	160,598

Table CRB-12c

2010

Sales to Final Demand of Processing Sector Industries as a Percent of
Total Gross Output in the Six Colorado River Sub-Basins

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%
Agriculture			12	71.61								
Range Livestock	30	11.18			3	95.23	26	13.75	4	90.35	28	17.80
Feeder Livestock	31	7.31			2	98.02	7	88.66			14	70.58
Dairy	22	25.35			23	2.10	28	4.38	22	35.11	27	19.71
Food & Field Crops											21	59.02
Field Crops									5	88.43		
Forage Feed & Food	36	0.00			21	23.79	21	38.34				
Truck Crops											6	92.02
Vegetables	6	87.81										
Citrus Crops	16	50.97					1	99.90				
Fruit									15	67.00	9	82.41
Veg. & Melon Products							2	99.80				
Cotton	8	78.25					10	77.78				
"Other" Agriculture	18	49.47			22	8.87	17	45.68	19	55.28	20	59.09
Forestry	35	0.00	22	2.05	24	0.29	30	0.00	27	3.70	26	26.44
Coal			6	82.53	7	86.61			25	11.83	19	59.18
Oil & Gas			3	94.91	25	0.00			7	82.84	2	98.43
Uranium	19	33.72			14	64.10	13	69.00	8	75.60	11	81.60
Uranium & Nonfuels			10	73.24								
Copper	33	0.86										
Zinc											1	99.90
"Other" Mining	29	13.08			4	88.21	24	19.29	18	58.54	24	47.57
Food & Kindred Products	11	69.13	17	53.06	15	53.56	22	28.26	12	72.05	17	61.49

Table CRB-12c - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%	Rank	%
- Lumber & Wood	15	56.69	7	78.12	9	76.09	19	44.62	24	12.23	7	90.42
Furniture & Fixtures	2	92.42										
Paper & Pulp	28	13.44										
Printing & Publishing	21	25.97	21	8.42	18	34.18	25	14.06	26	7.95	30	2.40
Chemicals	24	17.79					14	68.99				
Chem, Petrol., Coal Other Manufacturing			15	66.05								
Primary Metals	4	91.46										
Fabricated Metals	27	13.92					27	8.84			18	60.06
Stone, Clay & Glass	32	5.05	20	9.04			18	44.89	23	24.82	29	9.86
Textiles & Apparel	1	98.62										
Leather & Leather Goods	3	92.18										
"Other" Manufacturing	17	50.29			17	39.47	5	93.72	14	67.69	22	49.90
Wholesale Trade	10	72.09	9	75.42	6	87.28	11	73.14	6	87.81	8	87.52
Service Stations	14	58.18	8	76.24	10	75.26	9	77.86	9	73.44	13	73.79
Eating & Drinking Places	26	15.31	2	96.31	16	51.00	4	94.43	2	95.30	4	97.97
"Other" Retail	5	90.26	4	90.33	5	88.18	6	92.11	3	94.76	5	96.26
Agricultural Services	34	0.61					29	0.77	28	0.00	31	1.07
Oil Field Services			11	73.00					10	73.42		
Lodging	7	82.20	1	99.71	1	99.25	3	99.17	1	97.02	3	98.29
"Other" Services	13	67.10	18	42.19	13	69.46	8	84.29	11	73.27	10	81.74
Transportation	25	17.41	19	33.54	20	31.74	20	43.98	21	40.59	23	47.94
Electric Energy	20	30.67	13	71.20	19	32.60	23	24.68	20	54.83	25	27.32
"Other" Utilities	23	19.21	16	56.55	8	78.76	16	61.40	17	63.11	16	63.47
Contract Construction	12	67.36	5	87.39	12	71.53	15	65.62	16	63.28	15	64.26
Rentals & Finance	9	76.98	14	66.20	11	74.41	12	71.92	13	71.60	12	76.32

Table CRB-12d

Processing Sector Industries of the Sub-Basins of the Colorado River Basin
 Ranked by the Magnitude of the Total Dollar Production Directly and Indirectly
 Required by a Sub-Basin Economy to Sustain a \$1.00 Increase in Deliveries to
 Final Demand by the Industries Named, 2010

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Agriculture			6	1.450008								
Range Livestock	32	1.001668			10	1.396405	4	1.105222	7	1.047302	4	1.105556
Feeder Livestock	24	1.013729			1	2.123725	29	1.000108			7	1.045520
Dairy	21	1.018943			4	1.908955	11	1.028436	14	1.006190	18	1.002450
Food & Field Crops											30	1.000031
Field Crops									25	1.000047		
Forage Feed & Food	28	1.006283			11	1.389800	24	1.004939				
Truck Crops											31	1.000006
Vegetables	31	1.002023										
Citrus Crops	30	1.003184					26	1.001001				
Fruit									27	1.000002	22	1.001127
Veg. & Melon Products							25	1.002004				
Cotton	29	1.004478					19	1.008793				
"Other" Agriculture	27	1.006709			8	1.555025	17	1.009331	20	1.000945	17	1.002763
Forestry	36	1.000002	20	1.142465	24	1.158538	30	1.000004	26	1.000018	24	1.001077
Coal			18	1.171337	5	1.687299			22	1.000518	14	1.005885
Oil & Gas			21	1.124815	6	1.665816			11	1.013526	12	1.016260
Uranium	17	1.025736			2	2.011647	2	1.449275	2	1.322751	2	1.225490
Uranium & Nonfuels			7	1.434203								
Copper	11	1.045081										
Zinc											26	1.00100
"Other" Mining	2	1.272848			14	1.316960	16	1.010585	5	1.098212	25	1.00104
Food & Kindred Products	9	1.070719	1	2.148399	3	1.940423	10	1.029338	9	1.009801	5	1.05734

Table CRB-12d - Continued

	Gila		Green		Little Colorado		Lower Main Stem		San Juan		Upper Main Stem	
	Rank		Rank		Rank		Rank		Rank		Rank	
Lumber & Wood	20	1.019485	2	1.731894	9	1.406962	3	1.118686	23	1.000185	28	1.000470
Furniture & Fixtures	8	1.072966										
Paper & Pulp	6	1.089429										
Printing & Publishing	15	1.026750	15	1.282581	15	1.285039	18	1.008908	13	1.009015	10	1.020131
Chemicals	14	1.026754						23	1.005070			
Chem, Petrol., Coal Other Manufacturing			3	1.508021								
Primary Metals	18	1.024272										
Fabricated Metals	7	1.084403					9	1.033181			20	1.002112
Stone, Clay & Glass	3	1.215915	17	1.248959			12	1.021521	17	1.004246	29	1.000101
Textiles & Apparel	23	1.014327										
Leather & Leather Goods	34	1.000127										
"Other" Manufacturing	5	1.193315			21	1.199788	15	1.010601	10	1.018544	13	1.014877
Wholesale Trade	16	1.026256	16	1.273854	17	1.255096	13	1.013159	16	1.005161	16	1.003872
Service Stations	26	1.009368	9	1.360683	22	1.172058	22	1.005725	19	1.001140	23	1.001097
Eating & Drinking Places	25	1.011787	4	1.470416	13	1.333336	27	1.000867	21	1.000671	27	1.000489
"Other" Retail	22	1.015393	10	1.351901	18	1.236596	20	1.007183	15	1.005672	15	1.005206
Agricultural Services	35	1.000052					21	1.006781	28	1.000002	21	1.001518
Oil Field Services			22	1.035838					24	1.000181		
Lodging	33	1.001635	14	1.309035	23	1.163574	28	1.000202	18	1.001312	19	1.002249
"Other" Services	10	1.054990	8	1.398305	25	1.154196	7	1.049706	8	1.028509	8	1.041692
Transportation	12	1.044671	11	1.349891	12	1.342402	5	1.064004	4	1.113465	6	1.047238
Electric Energy	4	1.202525	5	1.470245	20	1.219183	6	1.052856	3	1.157544	3	1.130626
"Other" Utilities	19	1.023155	12	1.343997	16	1.261947	14	1.011268	12	1.011895	11	1.016519
Contract Construction	1	1.367708	13	1.321255	7	1.611403	1	1.495990	1	1.528549	1	1.446588
Rentals & Finance	13	1.037027	19	1.143320	19	1.222857	8	1.048789	6	1.069917	9	1.029516

Table CRB-12e

2010

Number of Processing Sector Industries Responding in Amounts of At Least
\$0.01 per Dollar of Sales to Final Demand by the Industries Listed Below
For the Six Colorado River Sub-Basins

	Gila	Green	Little Colorado	Lower Main Stem	San Juan	Upper Main Stem
Agriculture		8				
Range Livestock	6		9	8	5	8
Feeder Livestock	10		8	9		13
Dairy	11		9	13	7	12
Food & Field Crops						9
Field Crops					6	
Forage Feed & Food	13		7	10		
Truck Crops						6
Vegetables	11					
Citrus Crops	16			12		
Fruit					8	7
Veg. & Melon Products				13		
Cotton	13			10		
"Other" Agriculture	19		10	12	13	13
Forestry	4	3	5	4	2	3
Coal		4	9		4	5
Oil & Gas		4	7		2	8
Uranium	14		9	10	5	4
Uranium & Nonfuels		4				
Copper	16					
Zinc						3
"Other" Mining	18		9	11	5	5
Food & Kindred Products	21	10	13	12	12	16

Table CRB-12e - Continued

	Gila	Green	Little Colorado	Lower Main Stem	San Juan	Upper Main Stem
Lumber & Wood	12	10	5	9	5	8
Furniture & Fixtures	11					
Paper & Pulp	12					
Printing & Publishing		7	7	6	5	4
Chemicals	12			10		
Chem, Petrol., Coal Other Manufacturing		8				
Primary Metals	17					
Fabricated Metals	13			7		5
Stone, Clay & Glass	11	5		10	7	7
Textiles & Apparel	9					
Leather & Leather Goods	16					
"Other" Manufacturing	16		6	10	6	7
Wholesale Trade	9	7	5	6	6	6
Service Stations	10	8	4	9	7	6
Eating & Drinking Places	14	9	9	14	12	13
"Other" Retail	10	7	4	7	8	8
Agricultural Services	9			9	6	6
Oil Field Services		0			5	
Lodging	13	8	7	8	7	9
"Other" Services	11	7	6	8	5	6
Transportation	11	7	6	8	7	6
Electric Energy	7	5	3	7	6	5
"Other" Utilities	9	6	9	8	4	6
Contract Construction	11	5	5	12	11	6
Rentals & Finance	5	3	3	4	2	2

Table CRB-13a
 Processing Sector Industry Sales to Final Demand,
 1960, 1980, 2010, for the Colorado River Basin
 (summation of six sub-basins)

	<u>1960</u>	<u>1980</u>	<u>2010</u>
Agriculture	36,227	42,400	45,859
Range Livestock	80,157	41,637	54,005
Feeder Livestock	46,713	79,408	82,789
Dairy	4,544	5,017	42,815
Food & Field Crops	4,131	4,396	4,758
Field Crops	3,154	3,935	4,441
Forage Feed & Food	11,540	12,394	10,665
Truck Crops	818	1,140	1,729
Vegetables	48,001	75,849	84,895
Citrus Crops	9,708	29,170	47,131
Fruit	5,819	8,388	12,900
Veg. & Melon Products	28,563	73,194	130,024
Cotton	139,786	197,319	228,696
"Other" Agriculture	15,144	21,964	29,735
Forestry	155	1,444	2,307
Coal	47,639	59,387	61,412
Oil & Gas	281,574	322,307	388,050
Uranium	213,048	232,988	331,738
Uranium & Nonfuels	19,012	17,505	23,502
Copper	2,568	3,852	7,447
Zinc	11,564	16,317	22,431
"Other" Mining	52,788	73,466	109,168
Food & Kindred Products	198,638	503,791	678,594

Table CRB-13a- Continued

Processing Sector Industry Sales to Final Demand,
1960, 1980, 2010, for the Colorado River Basin
(summation of six sub-basins)
(cont'd.)

	1960	1980	2010
Lumber & Wood	61,419	87,435	123,828
Furniture & Fixtures	12,848	20,942	30,321
Paper & Pulp	3,260	5,213	10,758
Printing & Publishing	26,481	58,025	123,319
Chemicals	20,558	45,334	78,403
Chem, Petrol., Coal Other Manufacturing	3,430	1,312	8,833
Primary Metals	386,300	579,450	1,124,133
Fabricated Metals	18,611	48,882	105,122
Stone, Clay & Glass	20,311	42,209	88,167
Textiles & Apparel	14,583	20,562	30,334
Leather & Leather Goods	350	847	1,614
"Other" Manufacturing	303,270	538,386	940,928
Wholesale Trade	246,420	960,999	2,409,345
Service Stations	38,857	150,430	415,022
Eating & Drinking Places	183,301	677,100	1,588,542
"Other" Retail	578,965	2,169,817	5,185,053
Agricultural Services	140	288	1,249
Oil Field Services	73,184	31,603	22,688
Lodging	191,951	650,129	1,650,742
"Other" Services	279,921	1,153,248	3,366,262
Transportation	138,774	274,661	481,134
Electric Energy	83,776	238,758	470,719
"Other" Utilities	170,761	613,900	527,882
Contract Construction	653,449	2,498,797	5,572,904
Rentals & Finance	325,201	1,433,358	5,358,577

Table CRB-13b

Total Gross Output for Processing Sector Industries,
1960, 1980 and 2010, for the Colorado River Basin
(summation of six sub-basins)

	<u>1960</u>	<u>1980</u>	<u>2010</u>
Agriculture	49,000	57,882	64,041
Range Livestock	95,298	115,184	153,934
Feeder Livestock	110,203	175,880	241,603
Dairy	34,503	83,759	172,403
Food & Field Crops	5,793	6,884	8,061
Field Crops	3,515	4,477	5,022
Forage Feed & Food	49,749	80,526	89,210
Truck Crops	862	1,210	1,879
Vegetables	48,388	78,050	96,678
Citrus Crops	10,158	32,919	56,331
Fruit	6,884	10,263	16,853
Veg. & Melon Products	28,563	73,267	130,285
Cotton	155,187	239,414	292,464
"Other" Agriculture	19,687	35,213	60,998
Forestry	14,486	20,534	27,034
Coal	52,226	68,636	78,370
Oil & Gas	293,806	343,420	430,276
Uranium	292,105	328,552	485,114
Uranium & Nonfuels	24,262	22,864	32,088
Copper	308,838	439,262	866,814
Zinc	11,564	16,335	22,453
"Other" Mining	106,224	228,282	671,537
Food & Kindred Products	242,838	664,013	1,056,402

Table CRB-13b - Continued

Total Gross Output for Processing Sector Industries,
1960, 1980 and 2010, for the Colorado River Basin
(summation of six sub-basins)
(cont'd.)

	<u>1960</u>	<u>1980</u>	<u>2010</u>
Lumber & Wood	77,467	133,304	207,851
Furniture & Fixtures	13,698	2,479	32,807
Paper & Pulp	4,990	23,143	80,030
Printing & Publishing	58,068	154,672	541,990
Chemicals	37,954	105,079	241,870
Chem, Petrol., Coal Other Manufacturing	3,990	2,914	13,374
Primary Metals	389,571	604,014	1,229,136
Fabricated Metals	42,983	183,917	748,445
Stone, Clay & Glass	56,805	236,286	983,624
Textiles & Apparel	14,583	20,709	30,759
Leather & Leather Goods	350	884	1,751
"Other" Manufacturing	378,097	878,894	1,807,732
Wholesale Trade	331,058	1,325,958	3,270,232
Service Stations	65,363	231,016	612,989
Eating & Drinking Places	192,236	722,389	1,722,116
"Other" Retail	640,560	2,373,479	5,704,769
Agricultural Services	57,434	111,539	171,843
Oil Field Services	79,395	38,336	31,003
Lodging	196,638	680,316	1,748,104
"Other" Services	391,469	1,585,655	4,525,184
Transportation	314,021	770,309	1,721,642
Electric Energy	181,358	617,016	1,473,726
"Other" Utilities	210,046	885,639	1,278,251
Contract Construction	937,587	3,629,706	8,282,310
Rentals & Finance	506,051	2,100,006	7,086,047

Table CRB-LMS-14a (1960-1980)

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Lower Main Stem Sub-Basin

Industry Producing Industry Purchasing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed, Food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Printing & Publishing	Fabricated Metals
Range Livestock													
Feeder Livestock	-.109			-.003					.005				
Dairy				-.005									
Forage, Feed, & Food											.017		
Cotton						.006					.007		
Vegetable & Melon											.019		
Citrus											.010		
Forestry													
Other Agriculture				.004					.004				
Uranium							.010	.003					
Other Mining									.004				
Food & Kindred		.004	-.038			.004							
Lumber & Wood					-.013					.004			
Chemicals								.010					
Printing & Publishing													
Fabricated Metals													
Stone, Clay & Glass								.006			.005		
Other Manufacturing													
Wholesale Trade													
Service Stations													
Eating & Drinking									.007				
Other Retail													
Ag. Services													
Lodging													
Other Services													
Transportation													
Electric Energy													
Other Utilities													
Contract Construction													.004
Rentals & Finance													

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Table CRB-LMS-14a (1960-1980) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1960-1980 for
 the Lower Main Stem Sub-Basin
 (cont'd)

Industry Producing / Industry Purchasing	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock		.006					.014					.003
Feeder Livestock							.025					
Dairy						.014	-.012	.004	.005			.006
Forage, Feed, & Food						.006		.003	.010			.006
Cotton								.003				.004
Vegetable & Melon						.008		-.029	.006			.004
Citrus		.005				.004		.008	.009			.005
Forestry							.068	.013				.006
Other Agriculture			-.011			.006			.005			.004
Uranium								.004	.005		.005	
Other Mining	.004		.003					.004	.004			
Food & Kindred							.003					
Lumber & Wood								.006				.005
Chemicals												.003
Printing & Publishing												
Fabricated Metals										.003		
Stone, Clay & Glass								.007				.003
Other Manufacturing		.003						.003				
Wholesale Trade							.003	.005				.004
Service Stations												
Eating & Drinking												
Other Retail												
Ag. Services												
Lodging												
Other Services												
Transportation												
Electric Energy												.003
Other Utilities												
Contract Construction											.004	
Rentals and Finance												

Table CRB-LMS-14a (1980-2010)
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the Lower Main Stem Sub-Basin

Industry Producing	Industry Purchasing	Range Livestock	Feeder Livestock	Dairy	Forage, feed & food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Printing & Publishing	Fabricated Metals
Range Livestock		-.003								.010				
Feeder Livestock		-.032			-.004									
Dairy				-.007						.004				
Forage, Feed, & Food												.026		
Cotton												.005		
Vegetable & Melon												.026		
Citrus									.004			.005		
Forestry														
Other Agriculture					.005		.005			.004		.005		
Uranium								.005				.003		
Other Mining											.003		.003	
Food & Kindred		.006	.005	-.028	.003		.003			.003				
Lumber & Wood						-.006								
Chemicals										.009				
Printing & Publishing														
Fabricated Metals														
Stone, Clay & Glass												.008		
Other Manufacturing									.004					
Wholesale Trade														
Service Stations														
Eating & Drinking														
Other Retail														
Ag. Services														
Lodging														
Other Services														
Transportation														
Electric Energy														
Other Utilities														
Contract Construction														
Rentals & Finance														

Table CRB-LMS-14a (1980-2010) - Continued

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Lower Main Stem Sub-Basin

(Cont'd)

Industry Producing / Industry Purchasing	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
	Range Livestock		.006				.004					
Feeder Livestock						.003		.006				.004
Dairy								.005	.006			.004
Forage, Feed, & Food						.006			.005			.005
Cotton						.003						.004
Vegetable & Melon						.005			.003			.004
Citrus						.003		.003	.004			.005
Forestry				.003				.003				.003
Other Agriculture				.003					.003			.003
Uranium					.005		.003	.003	.004			.005
Other Mining	.003	.006	.003		.003			.003			.003	
Food & Kindred									.003			
Lumber & Wood					.003							
Chemicals							.016					.005
Printing & Publishing									.004			
Fabricated Metals									.003			.004
Stone, Clay & Glass									.011	.004		.003
Other Manufacturing		.003			.003	.003	.003	.004				
Wholesale Trade								.005				
Service Stations									.003			
Eating & Drinking												
Other Retail									.004			.004
Ag. Services												
Lodging												
Other Services												
Transportation												.003
Electric Energy												.003
Other Utilities												
Contract Construction												
Rentals & Finance												

Table CRB-LMS-14b (1960-1980)
 Absolute Changes in Direct-Indirect Input Requirements per
 Dollar of Output Greater Than or Equal to \$0.003, 1960-1980
 for the Lower Main Stem Sub-Basin

Industry Producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed, Food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Printing & Publishing	Fabricated Metal
Industry Purchasing													
Range Livestock				-.003									
Feeder Livestock	-.121			-.009									
Dairy			-.008	.005				.005			.005		
Forage, Feed, & Food							.005				.017		
Cotton											.008		
Vegetable & Melon							.005				.020		
Citrus							.006				.010		
Forestry													
Other Agriculture				.004				.004					
Uranium						.019	.006				.003		
Other Mining							.004		.004				
Food & Kindred		.004	-.040	-.007		.004							
Lumber & Wood					-.013					.005			
Chemicals							.012						
Printing & Publishing													
Fabricated Metals													
Stone, Clay & Glass							.009				.006		
Other Manufacturing							.005						
Wholesale Trade													
Service Stations													
Eating & Drinking			-.009					.007					
Other Retail													
Ag. Services													
Lodging													
Other Services												.003	
Transportation													
Electric Energy													
Other Utilities													
Contract Construction									.004				.006
Rentals & Finance													

Table CRB-LMS-14b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements Per
Dollar of Output Greater Than or Equal to \$0.003, 1960-1980
for the Lower Main Stem Sub-Basin
(Cont'd)

Industry Producing Industry Purchasing	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock		.007						.018				.005
Feeder Livestock					-.005			.030	.004			.005
Dairy			.003			.016	-.011	.011	.010	.003		.013
Forage, Feed, & Food						.006		.007	.012			.010
Cotton						.006		.006	.003			.006
Vegetable & Melon				.003		.009		-.025	.007			.008
Citrus		.007				.005	.003	.014	.011			.011
Forestry							-.070	.013				.004
Other Agriculture			-.010			.007		.003	.006			.006
Uranium					.005		.006	.008	.009	.005	.013	.007
Other Mining	.004		.004				.004	.007	.006		.004	.006
Food & Kindred								.004	.004			.004
Lumber & Wood					.003		-.017	.011				.007
Chemicals								.003	.004			.007
Printing & Publishing												
Fabricated Metals							.004	.004		.004		.004
Stone, Clay & Glass	.004				.003		.005	.006	.010		.004	.009
Other Manufacturing		.004	.004				.003		.005			.006
Wholesale Trade							.004	.006	.004			.006
Service Stations												
Eating & Drinking							.004	.003				.003
Other Retail												
Ag. Services								.004				
Lodging												
Other Services												
Transportation												.003
Electric Energy							.003	.003				.005
Other Utilities												
Contract Construction	.005							.006	.006		.009	.005
Rentals and Finance												

Table CRB-LMS-14b (1980-2010)

Absolute Changes in Direct-Indirect Input Requirements Per Dollar of Output Greater Than or Equal to \$0.003, 1980-2010 for the Lower Main Stem Sub-Basin

Industry Producing Industry Purchasing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed, Food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Printing & Publishing	Fabricated Metal
Range Livestock	-.003							.011					
Feeder Livestock	-.036			-.005						.004			
Dairy		-.007	-.008					.004		.007			
Forage, Feed, & Food							.007			.027			
Cotton										.005			
Vegetable & Melon							.007			.027			
Citrus							.006			.005			
Forestry													
Other Agriculture			.005					.004		.006			
Uranium						.010	.005		.004	.005			
Other Mining							.003		.004			.004	
Food & Kindred	.006	.005	-.030	-.004		.003							
Lumber & Wood					-.006								
Chemicals							.011						
Printing & Publishing													
Fabricated Metals													
Stone, Clay & Glass							.006			.009			
Other Manufacturing							.006						
Wholesale Trade													
Service Stations													
Eating & Drinking			-.007										
Other Retail													
Ag. Services													
Lodging													
Other Services													
Transportation													
Electric Energy													
Other Utilities													
Contract Construction													
Rentals & Finance													

Table CRB-LMS-14b (1980-2010) - Continued

Absolute Changes in Direct-Indirect Input Requirements Per Dollar of Output Greater Than or Equal to \$0.003, 1980-2010 for the Lower Main Stem Sub-Basin (Cont'd)

Industry Producing	Industry Purchasing												
	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance	
Range Livestock		-.007				.005						.005	
Feeder Livestock						.004	.008					.006	
Dairy						.004	.004	.009	.010	.004		.010	
Forage, Feed, & Food						.006	.004	.005	.008			.009	
Cotton						.003	.003	.003	.003			.006	
Vegetable & Melon						.006	.003	.004	.006			.009	
Citrus						.003	.004	.006	.007			.009	
Forestry				.003				.004				.004	
Other Agriculture				.004		.006	.003	.004	.005			.007	
Uranium	.004		.004		.008		.007	.007	.008	.005	.006	.012	
Other Mining	.004	.006	.004		.004		.004	.005	.004	.003	.006	.006	
Food & Kindred							.003	.003	.005			.005	
Lumber & Wood					.004		.004	.004	.003			.005	
Chemicals		.004					.019	.005	.006	.004		.010	
Printing & Publishing									.005			.003	
Fabricated Metals							.003	.003	.004			.006	
Stone, Clay & Glass	.004				.004		.006	.005	.014	.006	.004	.009	
Other Manufacturing					.004		.005	.006	.004	.003		.004	
Wholesale Trade							.003	.006					
Service Stations									.004				
Eating & Drinking							.004					.003	
Other Retail									.005			.006	
Ag. Services													
Lodging											.003		
Other Services													
Transportation												.004	
Electric Energy							.004	.003				.005	
Other Utilities													
Contract Construction	.003						.004		.003			.004	
Rentals and Finance													

Table CRB-LC-14a (1960-1980)

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Little Colorado Sub-Basin

Industry Producing	Range Livestock	Dairy	Forage, Feed & Food Crops	Forestry	Other Agriculture	Oil & Gas	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Other Manufacturing
Range Livestock	.021		.024								
Feeder Livestock			.073								
Dairy			.093								.003
Forage, Feed & Food											.004
Forestry											.003
Other Agriculture			.032		.005						.005
Coal											
Oil & Gas						.013					.004
Uranium							.011				.010
Other Mining											.005
Food & Kindred		-.023									
Lumber & Wood											
Printing & Publishing											
Other Manufacturing											.004
Wholesale Trade											
Service Stations											
Eating & Drinking											
Other Retail											
Lodging											
Other Services											
Transportation											
Electric Energy											
Other Utilities											
Contract Construction											
Rentals & Finance											

Table CRB-LC-14a (1960-1980) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1960-1980 for
 the Little Colorado Sub-Basin
 (Cont'd)

Industry Producing	Industry Purchasing	Wholesale	Eating &	Other	Service	Other	Transportation	Electric	Other	Contract	Rentals &
		Trade	Drinking	Retail	Stations	Services		Energy	Utilities	Construction	Finance
Range Livestock											
Feeder Livestock											
Dairy			.004	.004		.004	.006				.003
Forage, Feed & Food			.006				.010				.004
Forestry											.007
Other Agriculture			.003				.004				.004
Coal									.026		
Oil & Gas						.003	.010		.006		.007
Uranium			.007		.005	.009	.004		.003		.009
Other Mining					.004	.006	.004				
Food & Kindred						.004	.003				.004
Lumber & Wood											
Printing & Publishing											
Other Manufacturing							.009				
Wholesale Trade							.400				
Service Stations											
Eating & Drinking			.026								
Other Retail											
Lodging											.003
Other Services											
Transportation											
Electric Energy											.003
Other Utilities							.003				.004
Contract Construction						.007					.005
Rentals & Finance											.005

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Table CRB-LC-14a (1980-2010)
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the Little Colorado Sub-Basin

Industry Producing	Range Livestock	Dairy	Forage, Feed & Food Crops	Forestry	Other Agriculture	Oil & Gas	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Other Manufacturing
Range Livestock			.041								
Feeder Livestock	.005		.061								
Dairy		.003	.005								
Forage, Feed & Food											.005
Forestry											.007
Other Agriculture			.030		.003						
Coal										.004	.004
Oil & Gas						.010					.008
Uranium							.003				.004
Other Mining											.004
Food & Kindred							.003				
Lumber & Wood											.003
Printing & Publishing											
Other Manufacturing							.003	.004			
Wholesale Trade											
Service Stations											
Eating & Drinking											
Other Retail											
Lodging											
Other Services											
Transportation											.003
Electric Energy											
Other Utilities											.003
Contract Construction											
Rentals & Finance											

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Table CRB-LC-14a (1980-2010) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the Little Colorado Sub-Basin
 (Cont'd)

Industry Purchasing	Industry Producing									
	Wholesale Trade	Eating & Drinking	Other Retail	Service Stations	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock	.004		.008	.003			.003			.008
Feeder Livestock			.005							.005
Dairy	.003		.006	.004		.006				.004
Forage, Feed & Food	.003		.006			.006		.003		.004
Forestry	.004		.003	.004						.004
Other Agriculture						.003	.004			.003
Coal		.003				.003	.007	-.019		.004
Oil & Gas						.005	.007	.004		
Uranium		.004		.004			.006			.007
Other Mining		.003				.005	.004			.003
Food & Kindred		.003				.004	.003			
Lumber & Wood										
Printing & Publishing										
Other Manufacturing						.003				.003
Wholesale Trade							-.399			
Service Stations										
Eating & Drinking		.027								.004
Other Retail						.004		.004		
Lodging						.003				.005
Other Services										
Transportation				.003		.005				.003
Electric Energy							.003			.004
Other Utilities						.003	.003			.004
Contract Construction						.004		.004		.005
Rentals & Finance				.004						.004

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Table CRB-LC-14b (1960-1980)
 Absolute Changes in Direct-Indirect Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1960-1980 for
 the Little Colorado Sub-Basin

Industry Producing Industry Purchasing	Range Livestock	Dairy	Forage, Feed & Food Crops	Forestry	Other Agriculture	Oil & Gas	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Other Manufacturing
Range Livestock	.022		.026								
Feeder Livestock	.010		.084								.004
Dairy			.095								.009
Forage, Feed & Food											.005
Forestry											.004
Other Agriculture			.033		.005						.007
Coal											.004
Oil & Gas						.023					.007
Uranium							.025			.003	.018
Other Mining											.005
Food & Kindred		-.023	.013		-.064				.005		.005
Lumber & Wood				-.011							
Printing & Publishing											
Other Manufacturing						.007					
Wholesale Trade											.003
Service Stations											
Eating & Drinking											
Other Retail											
Lodging											
Other Services											
Transportation											
Electric Energy											
Other Utilities											
Contract Construction										.004	
Rentals & Finance											

Table CRB-LC-14b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Little Colorado Sub-Basin
(Cont'd)

Industry Producing	Industry Purchasing									
	Wholesale Trade	Eating & Drinking	Other Retail	Service Stations	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock			.003				.008	.003		.006
Feeder Livestock			.008				.018			.008
Dairy	.004		.012	.006	.006		.030			.012
Forage, Feed & Food			.006				.018	.003		.006
Forestry	.003		.003				.005			.008
Other Agriculture	.004		.006				.019	.003		.008
Coal							.007		-.034	.005
Oil & Gas					.006		.020		.011	.013
Uranium		.003	.011		.009	.019	.013		.008	.017
Other Mining			.003		.005	.008	.008			
Food & Kindred						.006	.014			.005
Lumber & Wood							.006			.003
Printing & Publishing							.004			
Other Manufacturing					.003	.011				.005
Wholesale Trade					.005	.463		.004		.006
Service Stations										
Eating & Drinking			.026				.007			.003
Other Retail							.005			
Lodging							.003			.004
Other Services							.009			
Transportation							.013			
Electric Energy							.004			.004
Other Utilities							.016			.005
Contract Construction				.003	.010	.004		.008		
Rentals & Finance				.003		.003				.006

Table CRB-LC-14b (1980-2010)

Absolute Changes in Direct-Indirect Input Requirements per Dollar of Output Greater Than or Equal to \$0.003, 1980-2010 for the Little Colorado Sub-Basin

Industry Purchasing \ Industry Producing	Range Livestock	Dairy	Forage, Feed & Food Crops	Forestry	Other Agriculture	Oil & Gas	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Other Manufacturing
Range Livestock			.042								.005
Feeder Livestock	.005		.080								.006
Dairy		.003	.007								.006
Forage, Feed & Food											.006
Forestry											.007
Other Agriculture			.032		.003						.005
Coal										.005	.006
Oil & Gas						.019					.012
Uranium							.007				.008
Other Mining											.005
Food & Kindred		-.009	-.005		-.036				.003		.004
Lumber & Wood				-.009							.005
Printing & Publishing											
Other Manufacturing						.005					
Wholesale Trade											
Service Stations											
Eating & Drinking											
Other Retail											
Lodging											
Other Services											
Transportation											.004
Electric Energy											
Other Utilities											
Contract Construction											.004
Rentals & Finance											

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Table CRB-LC-14b (1980-2010) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Little Colorado Sub-Basin
(Cont'd)

Industry Producing Industry Purchasing	Wholesale Trade	Eating & Drinking	Other Retail	Service Stations	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock	.005		.012	.005		.004	.009			.014
Feeder Livestock	.006		.015	.004			.015	.004		.008
Dairy	.005		.010	.006		.009	.008	.004		.010
Forage, Feed & Food	.004		.007				.004	.004		.006
Forestry	.004		.003	.004			.003			.005
Other Agriculture	.004		.005		.005		.004	.004		.008
Coal			.004	.003	.004	.004	.008		-.022	.008
Oil & Gas		.003	.004		.005	.009	.010		.009	.005
Uranium	.004		.007		.009	.004	.010		.006	.014
Other Mining			.004		.003	.007	.003		.004	.005
Food & Kindred				.003	.003	.008	.003			.003
Lumber & Wood						.004			.003	.004
Printing & Publishing				.003	.003					.003
Other Manufacturing			.004	.003	.007				.004	.005
Wholesale Trade						-.459				
Service Stations										.004
Eating & Drinking			.028							.007
Other Retail						.003		.004		
Lodging			.003			.003			.003	.006
Other Services						-.005				.003
Transportation				.003	.007	-.009				.005
Electric Energy				.003	.003	.003			.003	.006
Other Utilities									.003	.006
Contract Construction				.004	.007				.008	.009
Rentals & Finance				.005	.003				.003	.006

Table CRB-G-14a (1960-1980)
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1960-1980 for
 The Gila Sub-Basin

Industry producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining	Food & Kindred
Industry Purchasing													
Range Livestock													.003
Feeder Livestock	-.011			-.018									.004
Dairy				-.017									.003
Forage, Feed & Food													
Cotton													.017
Vegetables													
Citrus Crops													
Forestry													
Other Agriculture				-.008					.003				.009
Uranium										.015		.005	
Copper											.012	.006	
Other Mining												.047	
Food & Kindred		.006			-.005		.005						.013
Lumber & Wood													.006
Furniture & Fixtures													
Paper & Pulp													
Chemicals													
Primary Metals												.010	
Printing & Publishing												.010	
Fabricated Metals													.028
Textiles & Apparel													
Leather & Leather goods													.010
Stone, Clay & Glass													
Other Manufacturing													.006
Wholesale Trade													
Service Stations													
Eating & Drinking													.006
Other Retail													
Agricultural Services													
Lodging													
Other Services													
Transportation													-.009
Electric Energy													
Other Utilities													
Contract Construction													
Rentals & Finance													

Table CRB-G-14a (1960-1980) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1960-1980 for
 the Gila Sub-Basin (Cont'd)

Industry Producing	Industry Purchasing	Lumber & Wood	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drink,
Range Livestock														
Feeder Livestock														
Dairy														
Forage, Feed & Food				.030										
Cotton				.015							.009			
Vegetables				.012										
Citrus Crops				.013							.003			
Forestry														
Other Agriculture													-.020	
Uranium	-.003			.005			.009		.008		.010			
Copper				.007		.005					.007			
Other Mining				.005		.007	.006		.010					.003
Food & Kindred			.009			.008					.008	.028		
Lumber & Wood														
Furniture & Fixtures	-.005		.016								.005	.005		
Paper & Pulp	-.094		.009											
Chemicals				.008							.004			
Primary Metals					.010	.004					.008			
Printing & Publishing			.044									.005	.005	
Fabricated Metals					.023		.021				.011	.007		
Textiles & Apparel								.007			.008			
Leather & Leather goods								.022		.010				
Stone, Clay & Glass										.018				
Other Manufacturing				.006	.007	.004				.007	.010			
Wholesale Trade											.099			
Service Stations														
Eating & Drinking														
Other Retail													.023	
Agricultural Services					-.028			.004						
Lodging													.003	
Other Services												.004		
Transportation											.004			
Electric Energy											.005			
Other Utilities											.004		.004	
Contract Construction	-.003						.008			.013				
Rentals & Finance														

Table CRB-G-14a (1960-1980) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1960-1980 for
 the Gila Sub-Basin (Cont'd)

Industry	Other Retail	Agricultural Services	Lodging	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing									
Range Livestock					.012				.009
Feeder Livestock					.018				
Dairy									.004
Forage, Feed & Food						.005			.004
Cotton						.009			
Vegetables					-.076	.013			
Citrus						.003			
Forestry					.017				.006
Other Agriculture	-.010	-.008			.004	.007			.003
Uranium					.020	.005	.008	.019	.014
Copper				.007	.014	.005			
Other Mining			.008	.005	.019	.027	.013	.012	.130
Food & Kindred				.004	.005	.004			
Lumber & Wood	.004				.014	.010	.005	.004	.010
Furniture & Fixtures				.003	.005	.006	.004		.008
Paper & Pulp					.016	.009	.005		.010
Chemicals				.011	.008	.008			.011
Primary Metals				.003	.009	.011	.013	.006	.020
Printing & Publishing				.006	.007	.009	.004		.007
Fabricated Metals				-.120	.010	.011	.008		.013
Textiles & Apparel				.005	.003	.005	.003		.005
Leather & Leather Goods						.005	.004		.006
Stone, Clay & Glass	.005			.003	.005	.005			.006
Other Manufacturing				.004	.006	.009	.006		.004
Wholesale Trade	.004		.004			.005			.005
Service Stations					.005			.004	.008
Eating & Drinking				.009				.005	.004
Other Retail					.007				.006
Agricultural Services									
Lodging				.003				.003	
Other Services	.004								
Transportation									.004
Electric Energy	.005				.005	.009	.004		.006
Other Utilities	.003	.003	.012	.003	.003	.003	.004	.003	.005
Contract Construction									
Rentals & Finance									.003

Table CRB-G-14a (1980-2010)
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 The Gila Sub-Basin

Industry producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining	Food & Kindred
Industry Purchasing													
Range Livestock													
Feeder Livestock	-.011			-.090									
Dairy				-.161									
Forage, Feed & Food													
Cotton													
Vegetables													
Citrus Crops													.003
Forestry													
Other Agriculture				-.017									.004
Uranium										.010			.005
Copper											.010	.007	.008
Other Mining											.003	.050	
Food & Kindred		.009	.008		-.004	.010	.004		.003				.007
Lumber & Wood								-.017					
Furniture & Fixtures													
Paper & Pulp													
Chemicals												.020	
Primary Metals											-.030	.004	
Printing & Publishing													.003
Fabricated Metals													
Textiles & Apparel													
Leather & Leather goods													
Stone, Clay & Glass												.011	
Other Manufacturing												.006	.005
Wholesale Trade													
Service Stations													
Eating & Drinking									.003				.003
Other Retail													
Agricultural Services													
Lodging													
Other Services													
Transportation													
Electric Energy													
Other Utilities													
Contract Construction												.010	
Rentals & Finance													

Table CRB-G-14a (1980-2010) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the Gila Sub-Basin (Cont'd)

Industry Producing	Industry Purchasing	Lumber & Wood	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drink
Range Livestock														
Feeder Livestock														
Dairy														
Forage, Feed & Food				.040										
Cotton				.031										
Vegetables				.007										
Citrus Crops				.007										
Forestry														
Other Agriculture				.005										
Uranium	-.003			.005			.005			.005				
Copper						.004	.006				.006		.004	
Other Mining				.006	.003	.008	.003			.010	.005			.004
Food & Kindred		.003		.006	.006	.005						.016		
Lumber & Wood											.004	.003	.003	.007
Furniture & Fixtures	-.023	.009				.005					.006	.009	.003	
Paper & Pulp	-.100	.005				.003								.005
Chemicals				.005		.003					.005			.003
Primary Metals					.008	.003					.005			
Printing & Publishing		.015				.003	.003							.003
Fabricated Metals					.014	.023	.003	.021			.009	.006		.003
Textiles & Apparel						.003		.007	.003		.005	.004	.003	.003
Leather & Leather goods								.003						
Stone, Clay & Glass										.003				
Other Manufacturing		.004	.006	.008		.005				.005	.010			
Wholesale Trade											.009	.004		
Service Stations						.003								.003
Eating & Drinking														.003
Other Retail						.003				.003		-.020		
Agricultural Services														
Lodging														
Other Services												.004		
Transportation														
Electric Energy														
Other Utilities														
Contract Construction	-.003						.042			.055	.003		.003	
Rentals & Finance														

Table CRB-G-14a (1980-2010) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the Gila Sub-Basin (Cont'd)

Industry Producing	Other Retail	Agricultural Services	Lodging	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing									
Range Livestock									.007
Feeder Livestock		-.003							.005
Dairy		.003			.003				.003
Forage, Feed & Food		-.003			.003				
Cotton				.003	.004				
Vegetables		.009			.003				
Citrus		-.005							
Forestry		.003							.004
Other Agriculture	-.011				.012				.004
Uranium					.010	.025	.005	.010	.010
Copper	.004			.015	.018	.006	.010	.005	.005
Other Mining	.006		.005	.005	.020	.025		.005	.025
Food & Kindred				.003	.010	.006		.003	.008
Lumber & Wood				.007	.005	.010	.005	.008	.011
Furniture & Fixtures				.004	.003	.007	.007		.008
Paper & Pulp			.003	.004	.020	.015	.006		.010
Chemicals	.004			.005	.009	.005	.004		.010
Primary Metals	.003				.003	.004	.003	.004	.006
Printing & Publishing	.003		.003	.003	.003	.004		.003	.005
Fabricated Metals	.005			.005	.006	.009	.005		.003
Textiles & Apparel	.006			.005	.004	.006	.004	.003	.007
Leather & Leather Goods				.003		.008	.003		
Stone, Clay & Glass				.003		.006	.003		.003
Other Manufacturing				.004	.003	.006	.005		
Wholesale Trade	.003		.003	.003	.005		.003		.003
Service Stations									
Eating & Drinking									
Other Retail									
Agricultural Services				.003					
Lodging				.004					
Other Services									
Transportation									
Electric Energy						.010	.003		
Other Utilities				.003			.003		
Contract Construction					.003				
Rentals & Finance				.003				.003	

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Table CRB-G-14b (1960-1980)

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Gila Sub-Basin

Industry producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining	Food & Kindred
Industry Purchasing													
Range Livestock													.003
Feeder Livestock	-.011			-.019									.008
Dairy				-.018									.005
Forage, Feed & Food												.006	
Cotton												.003	.018
Vegetables													
Citrus Crops												.003	.003
Forestry													
Other Agriculture		.003		-.007					.003				.014
Uranium										.015		.010	
Copper											.013	.009	.003
Other Mining											.004	.068	
Food & Kindred		.009			-.004		.004					.019	.003
Lumber & Wood													
Furniture & Fixtures													
Paper & Pulp													
Chemicals													
Primary Metals													
Printing & Publishing													
Fabricated Metals													
Textiles & Apparel													
Leather & Leather goods		.004											.016
Stone, Clay & Glass													.013
Other Manufacturing										.006	.006	.008	
Wholesale Trade													
Service Stations													
Eating & Drinking													
Other Retail													
Agricultural Services													
Lodging													
Other Services													
Transportation													
Electric Energy													
Other Utilities													
Contract Construction													
Rentals & Finance											.010		-.004

Table CRB-G-14b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Gila Sub-Basin (Cont'd)

Industry Producing	Lumber & Wood	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drink
Range Livestock													
Feeder Livestock			.006							.005	.003		
Dairy			.013							.004			
Forage, Feed & Food			.031							.005			
Cotton			.016							.015	.003		
Vegetables			.012										
Citrus Crops			.014							.007			
Forestry													
Other Agriculture		.004	.007							.009	-.011		
Uranium	-.003		.005		.013			.014		.017	.004		
Copper			.008	.006						.013	.004	.003	
Other Mining			.008	.004	.010	.011		.017		.012	.008	.003	.005
Food & Kindred		.011	.005		.009					.018	.030		
Lumber & Wood	.006									.008	.005		
Furniture & Fixtures		.019								.012	.007		
Paper & Pulp	-.095	.011		.003						.008			.004
Chemicals			.009	.003				.003		.009	.005		.003
Primary Metals			.005	.011	.010	.004		.005		.022	.005	.004	
Printing & Publishing	.016	.049								.007	.007	.006	
Fabricated Metals				.026	.024					.019	.008		
Textiles & Apparel							.007			.011	.003	.003	
Leather & Leather goods		.004		.006			.022			.008	.008		
Stone, Clay & Glass				.004				.029		.007	.005		
Other Manufacturing			.007	.008	.006	.004		.010		.017	.003	.003	
Wholesale Trade										.122	.004		
Service Stations										.004			
Eating & Drinking										.011	.007		
Other Retail										.007	.024		
Agricultural Services													
Lodging										.006	.006		
Other Services										.007	.005		
Transportation										.010			
Electric Energy					.003					.009			
Other Utilities										.009	.005		
Contract Construction					.014			.023		.013			
Rentals & Finance													

Table CRB-G-14b (1960-1980) - Continued
 Absolute Changes in Direct-Indirect Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1960-1980 for
 the Gila Sub-Basin (Cont'd)

Industry Producing	Other Retail	Agricultural Services	Lodging	Other Services	Transpor- tation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing									
Range Livestock					.014				.013
Feeder Livestock	-.012				.024	.004			.008
Dairy	-.006				.005	-.007			.008
Forage, Feed & Food	-.010			.003	.005	.008			.009
Cotton	.006			.003	.005	.013	.003		.006
Vegetables					.076	.016			.004
Citrus	-.009			.005	.004	.006			.007
Forestry	.003				.018				.007
Other Agriculture	-.009	-.010		.003	.007	.011			.008
Uranium				.004	.025	.011	.011	.030	.023
Copper	.004		.005	.009	.019	.010	.004		.010
Other Mining	.006	.010		.013	.034	.047	.025	.032	.175
Food & Kindred	.004			.008	.015	.013	.006	.005	.012
Lumber & Wood	.006			.004	.019	.014	.007	.007	.015
Furniture & Fixtures				.006	.010	.011	.006		.014
Paper & Pulp				.004	.022	.016	.009	.004	.016
Chemicals	.004	.003		.016	.016	.018	.008	.008	.044
Primary Metals	.005	.005		.012	.026	.024	.019	.014	.042
Printing & Publishing		.003		.009	.014	.015	.008	.006	.014
Fabricated Metals	.008	.003		.124	.018	.019	.011	.005	.022
Textiles & Apparel	.007			.007	.005	.007	.005	.004	.008
Leather & Leather Goods				.015	.007	.010	.006	.006	.013
Stone, Clay & Glass	.009			.008	.016	.015	.008	.009	.034
Other Manufacturing	.004			.008	.012	.015	.009		.011
Wholesale Trade	.006	.004		.003	.011	.010	.005	.006	.011
Service Stations	.003			.004	.007			.007	.012
Eating & Drinking				.013	.004	.005	.003	.009	.008
Other Retail	.004			.004	.010	.004	.004	.005	.009
Agricultural Services				.003					.004
Lodging				.006	.003	.004	.004	.006	.005
Other Services	.005			.004	.004	.005			.006
Transportation					.004			.004	.008
Electric Energy				.004	.008	.015	.007	.005	.010
Other Utilities	.004	.003		.015	.005	.005	.006	.006	.009
Contract Construction					.006	.004			.008
Rentals & Finance				.003				.004	.005

Table CRB-G-14b (1980-2010)

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Gila Sub-Basin

Industry producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining	Food & Kindred
Industry Purchasing													
Range Livestock													
Feeder Livestock	-.012			-.097									
Dairy		-.004	-.004	-.168									
Forage, Feed & Food				-.005								.012	
Cotton												.009	
Vegetables												.004	
Citrus Crops				-.003								.005	.004
Forestry													
Other Agriculture				-.024								.004	.007
Uranium										.010		.015	
Copper											.013	.014	.010
Other Mining											.009	.085	.003
Food & Kindred		.010	.009	-.034	-.003	.010	.004		.003			.003	.011
Lumber & Wood								-.017				.003	
Furniture & Fixtures													
Paper & Pulp								-.008					
Chemicals												.041	
Primary Metals											-.016	.021	.008
Printing & Publishing													.004
Fabricated Metals											.012	.039	
Textiles & Apparel													
Leather & Leather goods				-.009									.003
Stone, Clay & Glass												.029	
Other Manufacturing											.007	.015	.007
Wholesale Trade												.003	
Service Stations													
Eating & Drinking				-.003					.003				.002
Other Retail													
Agricultural Services													
Lodging													
Other Services													
Transportation													
Electric Energy													
Other Utilities													
Contract Construction											.004	.042	
Rentals & Finance													

Table CRB-G-14b (1980-2010) - Continued
 Absolute Changes in Direct-Indirect Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the Gila Sub-Basin (Cont'd)

Industry Producing	Industry Purchasing	Lumber & Wood	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking
Range Livestock														
Feeder Livestock														
Dairy													-.003	
Forage, Feed & Food				.041	.003					.004				
Cotton				.032	.004					.005				
Vegetables				.008						.005				
Citrus Crops				.008	.004					.005				
Forestry														
Other Agriculture				.010	.006					.007				
Uranium				.006	.005	.012			.015	.006	.005			
Copper					.007	.010			.005	.014	.006	.005		
Other Mining				.010	.007	.017	.012		.023	.019	.010	.005		.008
Food & Kindred		.004	.007		.008					.014	.019			
Lumber & Wood					.004	.004			.005	.008	.005			.003
Furniture & Fixtures	-.027	.012			.007					.012	.011	.004		
Paper & Pulp	-.108	.007			.005					.007		.007		
Chemicals			.008		.007	.004			.006	.012	.006			.005
Primary Metals				.011	.010	.012			.009	.018	.008	.006		
Printing & Publishing		.017			.005	.005			.004	.005	.004			.004
Fabricated Metals				.019	.007	.027			.004	.019	.011	.004		.005
Textiles & Apparel					.005		.007	.003		.009	.006	.004		.004
Leather & Leather goods					.005	.003				.006	.006			
Stone, Clay & Glass					.006	.003			.009	.008				
Other Manufacturing		.006	.008	.011	.005	.009			.010	.019	.005			.004
Wholesale Trade					.004	.003			.004	.016	.005			
Service Stations					.004				.003		.003			
Eating & Drinking					.004					.004	.006			
Other Retail		.004			.035	.004			.003	.003	.019			
Agricultural Services														
Lodging						.003			.004		.004			
Other Services										.005	.005			
Transportation					.004	.003				.005				
Electric Energy		.005			.004									
Other Utilities										.006	.003	.004		
Contract Construction	-.004		.005	.006	.004	.065			.093	.013	.005			
Rentals & Finance						.003			.004					

Table CRB-G-14b (1980-2010) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Gila Sub-Basin (Cont'd)

Industry Producing	Other Retail	Agricultural Services	Lodging	Other Services	Transpor- tation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing									
Range Livestock									.009
Feeder Livestock	-.005	-.011							.004
Dairy	-.008	-.012			.004				
Forage, Feed & Food		-.003		.004	.006	.008	.003		.008
Cotton				.007	.006	.008	.005		.009
Vegetables				.004	.005	.006	.003		.007
Citrus		-.004		.004	.004	.006			.005
Forestry		.003							.005
Other Agriculture	-.010			.005	.006	.019	.005	.003	.010
Uranium				.010	.017	.038	.010	.018	.021
Copper	.007		.003	.022	.027	.015	.015	.011	.016
Other Mining	.014		.009	.019	.042	.053	.015	.018	.061
Food & Kindred	.003			.008	.017	.014	.006	.007	.018
Lumber & Wood	.009			.011	.009	.016	.008	.014	.016
Furniture & Fixtures				.007	.007	.013	.010		.013
Paper & Pulp				.004	.006	.020	.009	.044	.014
Chemicals	.008			.003	.012	.021	.010	.009	.030
Primary Metals	.010				.025	.020	.016	.015	.025
Printing & Publishing	.005			.003	.007	.008	.009	.006	.011
Fabricated Metals	.009			.004	.013	.018	.023	.013	.009
Textiles & Apparel	.007				.008	.007	.010	.006	.011
Leather & Leather Goods					.006	.007	.015	.006	.008
Stone, Clay & Glass	.004				.008	.012	.019	.008	.018
Other Manufacturing					.010	.011	.015	.010	.003
Wholesale Trade	.004		.004		.007	.009	.007	.007	.005
Service Stations					.003	.004	.004	.004	.004
Eating & Drinking					.004	.005	.005	.003	.006
Other Retail					.003			.004	.004
Agricultural Services					.004				.004
Lodging	.003				.006	.003	.003		.004
Other Services					.004	.005	.004		.004
Transportation					.005	.005	.006	.004	.003
Electric Energy	.003				.003	.004	.016	.006	.005
Other Utilities					.005	.004	.004	.005	.004
Contract Construction	.003				.010	.020	.015	.009	.018
Rentals & Finance					.004			.005	.003

Table CRB-UMS-14a (1960-1980)

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Upper Main Stem Sub-Basin

Industry Purchasing	Industry Producing	Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Forestry	Other Agriculture	Coal	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass
Range Livestock												
Feeder Livestock			-.120	-.016								
Dairy												
Food and Field Crops												
Truck Crops												
Fruit												
Forestry												
Other Agriculture				-.087								
Coal												.018
Oil & Gas												
Uranium												
Zinc												
Other Mining												
Food & Kindred		-.037	.230	-.060	-.025		-.011					
Lumber & Wood												
Printing & Publishing												
Fabricated Metals												
Stone, Clay & Glass												
Other Manufacturing												
Wholesale Trade												
Service Stations												
Other Retail												
Eating and Drinking Pl.									.019			
Agricultural Services												
Lodging												
Other Services												
Transportation												
Electric Energy								.007				
Other Utilities								.005				
Contract Construction												
Rentals & Finance												

Table CRB-UMS-14a (1960-1980) - Continued
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater than or Equal to \$0.003, 1960-1980 for
 the Upper Main Stem Sub-Basin
 (Cont'd)

Industry Producing / Industry Purchasing	Other Manufacturing	Wholesale Trade	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock										
Feeder Livestock										
Dairy										
Food & Field Crops										
Truck Crops										
Fruit										
Forestry										
Other Agriculture	-.019									
Coal	-.008	-.009								
Oil & Gas										
Uranium										
Zinc										
Other Mining										
Food & Kindred										
Lumber & Wood										
Printing & Publishing										
Fabricated Metals										
Stone, Clay & Glass										
Other Manufacturing										.013
Wholesale Trade										
Service Stations										
Other Retail Trade										
Eating & Drinking Pl.		.006				-.004				
Agricultural Services										
Lodging										.005
Other Services					.003		.004	.004		
Transportation										.004
Electric Energy										.005
Other Utilities								.003	.012	.003
Contract Construction										.010
Rentals and Finance										

Table CRB-UMS-14a (1980-2010)

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Upper Main Stem Sub-Basin

Industry Purchasing	Industry Producing	Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Forestry	Other Agriculture	Coal	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass
Range Livestock												
Feeder Livestock												
Dairy												
Food and Field Crops												
Truck Crops												
Fruit												
Forestry												
Other Agriculture												
Coal												
Oil & Gas												
Uranium												
Zinc												
Other Mining												
Food & Kindred												
Lumber & Wood												
Printing & Publishing												
Fabricated Metals												
Stone, Clay & Glass												
Other Manufacturing												
Wholesale Trade												
Service Stations												
Other Retail												
Eating and Drinking Pl.												
Agricultural Services												
Lodging												
Other Services												
Transportation												
Electric Energy												
Other Utilities												
Contract Construction												
Rentals & Finance												

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Table CRB-UMS-14a (1980-2010) - Continued

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater than or Equal to \$0.003, 1980-2010 for
the Upper Main Stem Sub-Basin
(Cont'd)

Industry Purchasing	Industry Producing									
	Other Manufacturing	Wholesale Trade	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock										
Feeder Livestock										
Dairy										
Food & Field Crops										
Truck Crops										
Fruit										
Forestry										
Other Agriculture	.020									
Coal										
Oil & Gas										
Uranium										
Zinc										
Other Mining										
Food & Kindred	.005									
Lumber & Wood										.003
Printing & Publishing	.018									
Fabricated Metals										
Stone, Clay & Glass										
Other Manufacturing										
Wholesale Trade	.005									
Service Stations										
Other Retail Trade	.004									
Eating & Drinking Pl.										
Agricultural Services	.004									
Lodging										
Other Services	.003	.004								
Transportation										
Electric Energy	.003									
Other Utilities										
Contract Construction										
Rentals and Finance										

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Table CRB-UMS-14b (1960-1980)

Absolute Changes in Direct-Indirect Input Requirements Per Dollar
of Output Greater Than or Equal To \$0.003, 1960-1980 for
the Upper Main Stem Sub-Basin

Industry Purchasing	Industry Producing											
	Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Forestry	Other Agriculture	Coal	Other Mining	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass
Range Livestock	-.003											
Feeder Livestock	-.118	.040	-.027	-.003					.006			
Dairy	.004	.010										
Food and Field Crops												
Truck Crops												
Fruit												
Forestry												
Other Agriculture	.008	.025	-.094									
Coal							.005					.018
Oil & Gas												
Uranium												
Zinc												
Other Mining												
Food & Kindred	.110	.244	-.063	-.021		-.011			.037			
Lumber & Wood												
Printing & Publishing												
Fabricated Metals												
Stone, Clay & Glass												
Other Manufacturing												
Wholesale Trade												
Service Stations												
Other Retail												
Eating and Drinking Pl.	.018	.030	-.005						.024			
Agricultural Services												
Lodging	.003	.007										
Other Services												
Transportation												
Electric Energy												.009
Other Utilities												.005
Contract Construction												
Rentals & Finance												

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Table CRB-UMS-14b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements Per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Upper Main Stem Sub-Basin
(Cont'd)

Industry Producing	Industry Purchasing	Other Manufacturing	Wholesale Trade	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock											
Feeder Livestock			-.003	-.005						.003	
Dairy										.004	
Food & Field Crops											
Truck Crops											
Fruit											
Forestry											
Other Agriculture	-.022			-.009		-.006					
Coal	.007	.009									
Oil & Gas											
Uranium											
Zinc											
Other Mining											
Food & Kindred						.004				.009	
Lumber & Wood											
Printing & Publishing											
Fabricated Metals											
Stone, Clay & Glass											
Other Manufacturing								.003		.015	
Wholesale Trade											
Service Stations											
Other Retail Trade						-.005					
Eating & Drinking Pl.		.007							.005	.005	
Agricultural Services											
Lodging											.006
Other Services					.004		.005	.005			
Transportation											.006
Electric Energy									.004	.007	
Other Utilities	.003							.004	.018	.005	
Contract Construction									.013	.015	
Rentals and Finance											

Table CRB-UMS-14b (1980-2010)

Absolute Changes in Direct-Indirect Input Requirements Per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Upper Main Stem Sub-Basin

Industry Purchasing	Industry Producing	Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Forestry	Other Agriculture	Coal	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass
Range Livestock												
Feeder Livestock		.004										
Dairy												
Food and Field Crops					.004							
Truck Crops												
Fruit												
Forestry												
Other Agriculture												
Coal												
Oil & Gas												
Uranium												
Zinc												
Other Mining												
Food & Kindred			.015									
Lumber & Wood												
Printing & Publishing												
Fabricated Metals												
Stone, Clay & Glass												
Other Manufacturing										.014		
Wholesale Trade												
Service Stations												
Other Retail											.003	
Eating and Drinking Pl.		.007	.007						.021			
Agricultural Services												
Lodging												
Other Services												
Transportation						.006						
Electric Energy								.006				
Other Utilities								.004				
Contract Construction												
Rentals & Finance												

Table CRB-UMS-14b (1980-2010) - Continued

Absolute Changes in Direct-Indirect Input Requirements Per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Upper Main Stem Sub-Basin
(Cont'd)

Industry Producing Industry Purchasing	Other Manufacturing	Wholesale Trade	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock				.003						.003
Feeder Livestock										.005
Dairy	.003									
Food & Field Crops						.004				.004
Truck Crops	.004									.004
Fruit	.003			-.007						
Forestry										
Other Agriculture	.021			-.017						.003
Coal										
Oil & Gas							.003			
Uranium										
Zinc										
Other Mining										
Food & Kindred	.006						.003			.006
Lumber & Wood								.004		.004
Printing & Publishing	.019									.003
Fabricated Metals						-.009	.007	.004	.010	
Stone, Clay & Glass							.003			.004
Other Manufacturing	.006				.005	.033	.004	.013		.023
Wholesale Trade	.006					.004				
Service Stations										.003
Other Retail Trade	.005					-.003				
Eating & Drinking Pl.	.004	.005							.007	
Agricultural Services	.004									.003
Lodging										.009
Other Services	.004	.004					.009	.009		.004
Transportation	.003					.005				.008
Electric Energy	.004				.003		.008		.004	.006
Other Utilities									.010	.006
Contract Construction									.018	.010
Rentals and Finance										

Table CRB-SJ-14a (1960-1980)

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the San Juan River Sub-Basin

Industry Producing	Range Livestock	Dairy	Field Crops	Fruit	Forestry	Other Agriculture	Coal	Oil & Gas	Uranium	Food & Kindred	Printing & Publishing
Range Livestock	-.006										
Dairy											
Field Crops											
Fruit											
Forestry											
Other Agriculture											
Coal											
Oil & Gas											
Uranium									.012		
Other Mining					.006						
Food & Kindred		.038	-.011			-.010					
Lumber & Wood											
Printing & Publishing											
Stone, Clay & Glass											
Other Manufacturing											
Wholesale Trade											
Service Stations											
Other Retail Trade											
Eating & Drinking Pl.										.018	
Agricultural Services	-.189										
Oil Field Services											
Lodging											
Other Services											
Transportation											
Electric Energy							.008				
Other Utilities								.022			
Contract Construction											
Rentals & Finance											

Table CRB-SJ-14a (1960-1980) - Continued

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the San Juan River Sub-Basin
(Cont'd)

Industry Purchasing	Industry Producing	Stone, Clay & Glass	Other Manufacturing	Wholesale	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Contract Construction	Rentals & Finance
Range Livestock											
Dairy							.005				
Field Crops											
Fruit					-.028						
Forestry										.009	
Other Agriculture											
Coal											
Oil & Gas											
Uranium											
Other Mining											
Food & Kindred											
Lumber & Wood											
Printing & Publishing											
Stone, Clay & Glass											
Other Manufacturing										.004	
Wholesale Trade											
Service Stations'											
Other Retail Trade							.004				
Eating & Drinking Pl.			.005	.004							.006
Agricultural Services											
Oil Field Services									-.006		
Lodging											
Other Services											
Transportation											
Electric Energy											
Other Utilities											
Contract Construction	.003									.024	.004
Rentals & Finance											

Table CRB-SJ-14a (1980-2010)
 Absolute Changes in Direct Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the San Juan River Sub-Basin

Industry Purchasing \ Industry Producing	Range Livestock	Dairy	Field Crops	Fruit	Forestry	Other Agriculture	Coal	Oil & Gas	Uranium	Food & Kindred	Printing & Publishing	Lumber & Wood
Range Livestock	-.003											
Dairy												
Field Crops												
Fruit												
Forestry												
Other Agriculture												
Coal												
Oil & Gas												
Uranium									.003			
Other Mining					-.010							
Food & Kindred	-.010	.030	-.014	.007		.007				.004		
Lumber & Wood												
Printing & Publishing												
Stone, Clay & Glass												
Other Manufacturing								.004				
Wholesale Trade												
Service Stations											.004	
Other Retail Trade												
Eating & Drinking Pl.										.026		
Agricultural Services												
Oil Field Services												
Lodging												
Other Services												
Transportation												
Electric Energy							.009	-.003				
Other Utilities								.033				
Contract Construction												.013
Rentals & Finance												

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Table CRB-SJ-14a (1980-2010) - Continued

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the San Juan River Sub-Basin
(Cont'd)

Industry Producing	Stone, Clay & Glass	Other Manufacturing	Wholesale	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Contract Construction	Rentals & Finance
Industry Purchasing										
Range Livestock				.003						
Dairy				.004						
Field Crops										
Fruit				.030					.003	
Forestry									.003	
Other Agriculture										
Coal							.006			
Oil & Gas									.003	
Uranium										
Other Mining										
Food & Kindred										
Lumber & Wood										
Printing & Publishing										
Stone, Clay & Glass										
Other Manufacturing							.003		.003	
Wholesale Trade										
Service Stations'										
Other Retail Trade										
Eating & Drinking Pl.			.003	.006						.009
Agricultural Services										
Oil Field Services								-.006	.003	
Lodging										
Other Services										
Transportation										
Electric Energy										.005
Other Utilities										
Contract Construction	.005								.037	
Rentals & Finance										

Table CRB-SJ-14b (1960-1980)

Absolute Changes in Direct-Indirect Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the San Juan River Sub-Basin

Industry Purchasing	Industry Producing												
	Range Livestock	Dairy	Field Crops	Fruit	Forestry	Other Agriculture	Coal	Oil & Gas	Uranium	Food & Kindred	Printing & Publishing	Lumber & Wood	
Range Livestock	-.011												
Dairy	-.007												
Field Crops													
Fruit	-.097												
Forestry													
Other Agriculture													
Coal													
Oil & Gas													
Uranium									.020				
Other Mining					.006								
Food & Kindred		.039	-.012			-.011							
Lumber & Wood													
Printing & Publishing													
Stone, Clay & Glass													
Other Manufacturing													
Wholesale Trade													
Service Stations													
Other Retail Trade													
Eating & Drinking Pl.		.006								.018			
Agricultural Services	-.200												
Oil Field Services													
Lodging													
Other Services													
Transportation													
Electric Energy							.009						
Other Utilities								.022					
Contract Construction												.006	
Rentals & Finance													

Table CRB-SJ-14b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the San Juan River Sub-Basin

(Cont'd)

Industry Purchasing	Industry Producing	Stone, Clay & Glass	Other Manufacturing	Wholesale	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Contract Construction	Rentals & Finance
Range Livestock											
Dairy							.005				
Field Crops											
Fruit					-.030						
Forestry											.010
Other Agriculture											
Coal								.003			
Oil & Gas											.003
Uranium							.004				
Other Mining							.005				.005
Food & Kindred											.004
Lumber & Wood											
Printing & Publishing											
Stone, Clay & Glass											
Other Manufacturing							.004				.003
Wholesale Trade											
Service Stations'							.003				
Other Retail Trade							.005				
Eating & Drinking Pl.			.005	.004			.005				.009
Agricultural Services					.005						.005
Oil Field Services									-.007		
Lodging											
Other Services											
Transportation											
Electric Energy											
Other Utilities											
Contract Construction	.007					.004	.004			.050	.008
Rentals & Finance											

Table CRB-SJ-14b (1980-2010)

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the San Juan River Sub-Basin
(Cont'd)

Industry Purchasing	Industry Producing	Stone, Clay & Glass	Other Manufacturing	Wholesale	Other Retail	Agricultural Services	Other Services	Transportation	Electric Energy	Contract Construction	Rentals & Finance
Range Livestock					.003	.005					.003
Dairy					.005						.004
Field Crops											
Fruit					.030						.006
Forestry											.004
Other Agriculture								.003			.004
Coal								.007			.004
Oil & Gas											.004
Uranium							.003	.003			.003
Other Mining											.003
Food & Kindred					.006	.004	.007	.004			.005
Lumber & Wood						.003				.003	.004
Printing & Publishing											
Stone, Clay & Glass											.004
Other Manufacturing						.003	.003	.004			.005
Wholesale Trade							.004				.004
Service Stations							.004				.004
Other Retail Trade						.003	.010			.004	.004
Eating & Drinking Pl.			.004	.006		.005	.009				.014
Agricultural Services											
Oil Field Services									-.006		.004
Lodging									.005		.003
Other Services											
Transportation						.003					.004
Electric Energy							.003				.008
Other Utilities											.003
Contract Construction	.012	.005		.005		.007	.008			.082	.008
Rentals & Finance											

Table CRB-SJ-14b (1980-2010) - Continued
 Absolute Changes in Direct-Indirect Input Requirements per Dollar
 of Output Greater Than or Equal to \$0.003, 1980-2010 for
 the San Juan River Sub-Basin

Industry Producing	Range Livestock	Dairy	Field Crops	Fruit	Forestry	Other Agriculture	Coal	Oil & Gas	Uranium	Food & Kindred	Printing & Publishing	Lumber & Wood
Industry Purchasing												
Range Livestock	-.003											
Dairy												
Field Crops												
Fruit												
Forestry												
Other Agriculture												
Coal												
Oil & Gas												
Uranium									.005			
Other Mining												
Food & Kindred	-.007	.032	-.014	.007		.007				.005		
Lumber & Wood												
Printing & Publishing												
Stone, Clay & Glass												
Other Manufacturing												
Wholesale Trade												
Service Stations											.004	
Other Retail Trade												
Eating & Drinking Pl.		.008								.027		
Agricultural Services												
Oil Field Services												
Lodging												
Other Services												
Transportation								.003				
Electric Energy						.010						
Other Utilities								.034				
Contract Construction								.003				.017
Rentals & Finance					-.005							

Table CRB-GR-14a (1960-1980)

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Green River Sub-Basin

Industry Producing	Agriculture	Forestry	Oil & Gas	Coal	Uranium & Nonfuels	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass	Chemicals, Petro., Coal, & Other Mfg.	Wholesale Trade
Agriculture											
Forestry											
Oil & Gas			.009								
Coal										.005	
Uranium & Nonfuels					.017						
Food & Kindred	-.030			-.003		.010					
Lumber & Wood							.005				
Printing & Publishing										.090	
Stone, Clay & Glass								.004			
Chemicals, Petro., Coal & Other Mfg.											
Wholesale Trade											
Service Stations											
Eating & Drinking											
Other Retail											
Oil Field Services											
Lodging											
Other Services											
Transportation											
Electric Energy				.014							
Other Utilities											
Contract Construction											
Rentals & Finance											

Table CRB-GR-14a (1960-1980) - Continued

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Green River Sub-Basin

(Cont'd)

Industry Producing	Service Stations	Other Retail	Oil Field Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Agriculture									
Forestry									
Oil & Gas									
Coal									
Uranium & Nonfuels									
Kood & Kindred				.004		.004	.004		
Lumber & Wood									
Printing & Publishing									
Stone, Clay & Glass									
Chemicals, Petro., Coal, & Other Mfg.									
Wholesale Trade									
Service Stations		-.008							
Eating & Drinking							.003		
Other Retail									
Oil Field Services									
Lodging									
Other Services									
Transportation									
Electric Energy									
Other Utilities									
Contract Construction									.003
Rentals & Finance									

Table CRB-GR-14a (1980-2010)

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Green River Sub-Basin

Industry Purchasing	Industry Producing	Agriculture	Forestry	Oil & Gas	Coal	Uranium & Nonfuels	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass	Chemicals, Petro., Coal, & Other Mfg.	Wholesale Trade
Agriculture												
Forestry												.003
Oil & Gas				.006								
Coal												.003
Uranium & Nonfuels												.003
Food & Kindred							.008					.030
Lumber & Wood								.005				
Printing & Publishing												.015
Stone, Clay & Glass										.003		
Chemicals, Petro., Coal & Other Mfg.								.012				.003
Wholesale Trade												.003
Service Stations												
Eating & Drinking												
Other Retail							.003					.005
Oil Field Services												
Lodging												
Other Services												
Transportation												
Electric Energy					.008	.009						.005
Other Utilities				.003								
Contract Construction												
Rentals & Finance												

Table CRB-GR-14a (1980-2010) - Continued

Absolute Changes in Direct Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Green River Sub-Basin

(Cont'd)

Industry Producing	Service Stations	Other Retail	Oil Field Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Agriculture									
Forestry									
Oil & Gas									
Coal					.003				
Uranium & Nonfuels					.003			.003	
Kood & Kindred		.122		.003	.005	.003			
Lumber & Wood									
Printing & Publishing									
Stone, Clay & Glass									
Chemicals, Petro., Coal, & Other Mfg.				.004	.050	.020		.008	
Wholesale Trade									
Service Stations									
Eating & Drinking									
Other Retail									
Oil Field Services									
Lodging									
Other Services								.003	
Transportation									
Electric Energy									
Other Utilities									
Contract Construction								.004	.006
Rentals & Finance				.003					

Table CRB-GR-14b (1960-1980)

Absolute Changes in Direct-Indirect Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1960-1980 for
the Green River Sub-Basin

Industry Purchasing	Industry Producing	Agriculture	Forestry	Oil & Gas	Coal	Uranium & Nonfuels	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass	Chemicals, Petro., Coal, & Other Mfg.	Wholesale Trade
Agriculture												
Forestry												
Oil & Gas				.010								
Coal											.005	
Uranium & Nonfuels				.004		.027					.004	
Food & Kindred							.009					
Lumber & Wood								.005				
Printing & Publishing											.091	
Stone, Clay & Glass										.004		
Chemicals, Petro., Coal & Other Mfg.											.003	
Wholesale Trade												
Service Stations												
Eating & Drinking												
Other Retail												
Oil Field Services												
Lodging												
Other Services												
Transportation												
Electric Energy					.015							
Other Utilities				.004								
Contract Construction												
Rentals & Finance												

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Table CRB-GR-14b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$ 0.003, 1960-1980 for
the Green River Sub-Basin

(Cont'd)

Industry Purchasing	Industry Producing		Service Stations	Other Retail	Oil Field Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
	Industry Purchasing	Industry Producing									
Agriculture											
Forestry											
Oil & Gas											
Coal											.003
Uranium & Nonfuels											.005
Food & Kindred					.006		.005	.005			.004
Lumber & Wood											
Printing & Publishing						.005					.005
Stone, Clay & Glass											
Chemicals, Petro., Coal, & Other Mfg.							.004				.004
Wholesale Trade				-.008							
Service Stations								.004			
Eating & Drinking											
Other Retail											
Oil Field Services											
Lodging											
Other Services											.004
Transportation											
Electric Energy											.003
Other Utilities											
Contract Construction											.004
Rentals & Finance					.003						

Table CRB-GR-14b (1980-2010)

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Green River Sub-Basin

Industry Purchasing	Industry Producing	Agriculture	Forestry	Oil & Gas	Coal	Uranium & Nonfuels	Food & Kindred	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass	Chemicals, Petro., Coal, & Other Mfg.	Wholesale Trade
Agriculture											.003	
Forestry			.003	-.010							.003	
Oil & Gas				.006								
Coal											.003	
Uranium & Nonfuels						.019					.004	
Food & Kindred				.006					.008		.034	
Lumber & Wood			.003	-.003			.005					
Printing & Publishing			.007	-.020							.016	
Stone, Clay & Glass										.003		
Chemicals, Petro., Coal & Other Mfg.			.069	-.246							.006	.005
Wholesale Trade											.003	
Service Stations												
Eating & Drinking											.004	
Other Retail							.003				.005	
Oil Field Services												
Lodging												
Other Services												
Transportation												
Electric Energy				.003	.009	.012					.006	
Other Utilities				.004								
Contract Construction												
Rentals & Finance												

Table CRB-GR-14b (1980-2010) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar
of Output Greater Than or Equal to \$0.003, 1980-2010 for
the Green River Sub-Basin

(Cont'd)

Industry Producing	Industry Purchasing									
	Service Stations	Other Retail	Oil Field Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance	
Agriculture			.003							.004
Forestry										
Oil & Gas					.003					
Coal					.003	.003				
Uranium & Nonfuels						.005				.005
Kood & Kindred		.129		.009	.018	.009	.009			.014
Lumber & Wood										.004
Printing & Publishing					.007					
Stone, Clay & Glass										
Chemicals, Petro., Coal, & Other Mfg.	.004	.004	-.003	.006	.060	.003	.023			.004
Wholesale Trade		.010								
Service Stations										
Eating & Drinking		.014								.003
Other Retail										
Oil Field Services										
Lodging										
Other Services										.004
Transportation										
Electric Energy					.003					.004
Other Utilities										.003
Contract Construction								.005		.008
Rentals & Finance				.004						

Use of Input-Output to Determine Water Requirements and
Measure Damages from Quality Deterioration

Let us now turn to the use of these I-O tables in calculating resource requirements -- in this case concentrating on water. In order to make the exercise more realistic we shall shift to a simplified and highly aggregated version of the 1960 transactions table for the Lower Main Stem Sub-Basin, presented in Table CRB-15. The corresponding tables of direct coefficients, and of direct and indirect coefficients (transposed) appear in Tables CRB-16 and CRB-17.

A mathematical solution to the I-O system is given by the matrix equation:

$$[I-A]^{-1} \cdot Y = X$$

Where $[I-A]^{-1}$ is the matrix of direct and indirect requirements

Y is the column vector of final demands by sector, and

X is the column vector of gross outputs by sector.

To determine each processing sector industry's total output by this method we multiply the direct and indirect requirements in each row by its respective final demand and sum the totals. Thus, in the case of agriculture, we use the equation:

$$1.122 (76,200) + .071 (92,600) + .005 (619,200) = 95,167$$

For TABLE 3, we write the following matrix multiplication with answers:

$$\begin{bmatrix} 1.122 & .071 & .005 \\ .062 & 1.181 & .039 \\ .441 & .257 & 1.275 \end{bmatrix} \cdot \begin{bmatrix} 76,200 \\ 92,600 \\ 619,200 \end{bmatrix} = \begin{bmatrix} 95,167 \\ 138,234 \\ 846,882 \end{bmatrix}$$

A comparison of the answers with Table CRB-15's gross outputs indicates substantial similarity with rounding errors accounting for differences.

One of the most common criticisms of I-O analysis focuses on the assumption of unchanging technical (direct) coefficients over time. Thus, if one were confident of an unchanging technology in a region as well as a given pattern of trade (no import substitution), one would need

Table CRB-15

ILLUSTRATIVE INTERINDUSTRY TRANSACTIONS LOWER MAIN STEM SUB-BASIN, 1960

Producing \ Purchasing	Agriculture	Mining & mfg.	Trade services, etc.	Final Demand	Total gross output
	1,000 dollars				
Agriculture	10,000	7,500	1,400	76,200	95,100
Mining & mfg.	3,500	20,100	22,500	92,600	138,700
Trade, services, utilities, etc.	28,700	21,400	177,400	619,200	846,700
Final payments	52,900	89,700	645,400	549,500	1,337,500
Total gross outlay	95,100	138,700	846,700	1,337,500	2,418,000

Table CRB-16

ILLUSTRATIVE DIRECT INPUT COEFFICIENTS
LOWER MAIN STEM SUB-BASIN, 1960

Producing \ Purchasing	Agriculture	Mining & mfg.	Trade services, etc.
	Agriculture	.105	.054
Mining & mfg.	.037	.145	.026
Trade, services, utilities, etc.	.302	.154	.210

Table CRB-17

ILLUSTRATIVE DIRECT AND INDIRECT INPUT COEFFICIENTS
LOWER MAIN STEM SUB-BASIN, 1960 (transposed)

Producing \ Purchasing	Agriculture	Mining & mfg.	Trade services, etc.
	Agriculture	1.122	.071
Mining & mfg.	.062	1.181	.039
Trade, services, utilities, etc.	.441	.257	1.275

to project only a new set of final demands to determine the structure of that region's economy. As explained above, no such assumptions were made in the Colorado River study. In making our projections, both the matrices of direct coefficients and the final demands were altered from the 1960 base data in order to derive figures for 1980 and 2010.

Our projections have been made within the context of a series of ever tightening resource constraints.

1. Our initial assumption is that the level and composition of output in our target years is not constrained by limitations on water quantity or quality except as such influences operated in the base year of 1960. Thus, 1960 levels of salinity and of water availability were assumed to prevail. In the CRB, other pollution parameters appear to be of limited significance.
2. In the next round of projections the possibility of an explicit water quantity constraint is recognized and a careful accounting is made for water use by sector and in the aggregate. Water quality levels of 1960 are assumed to prevail. Quantity available is limited by river flow and by institutional rules.
3. In the third round, both water quantity and quality are assumed fully operative as potential constraints. Quantity is limited as in case (2) above and quality is influenced by the uses to which water is subjected upstream.

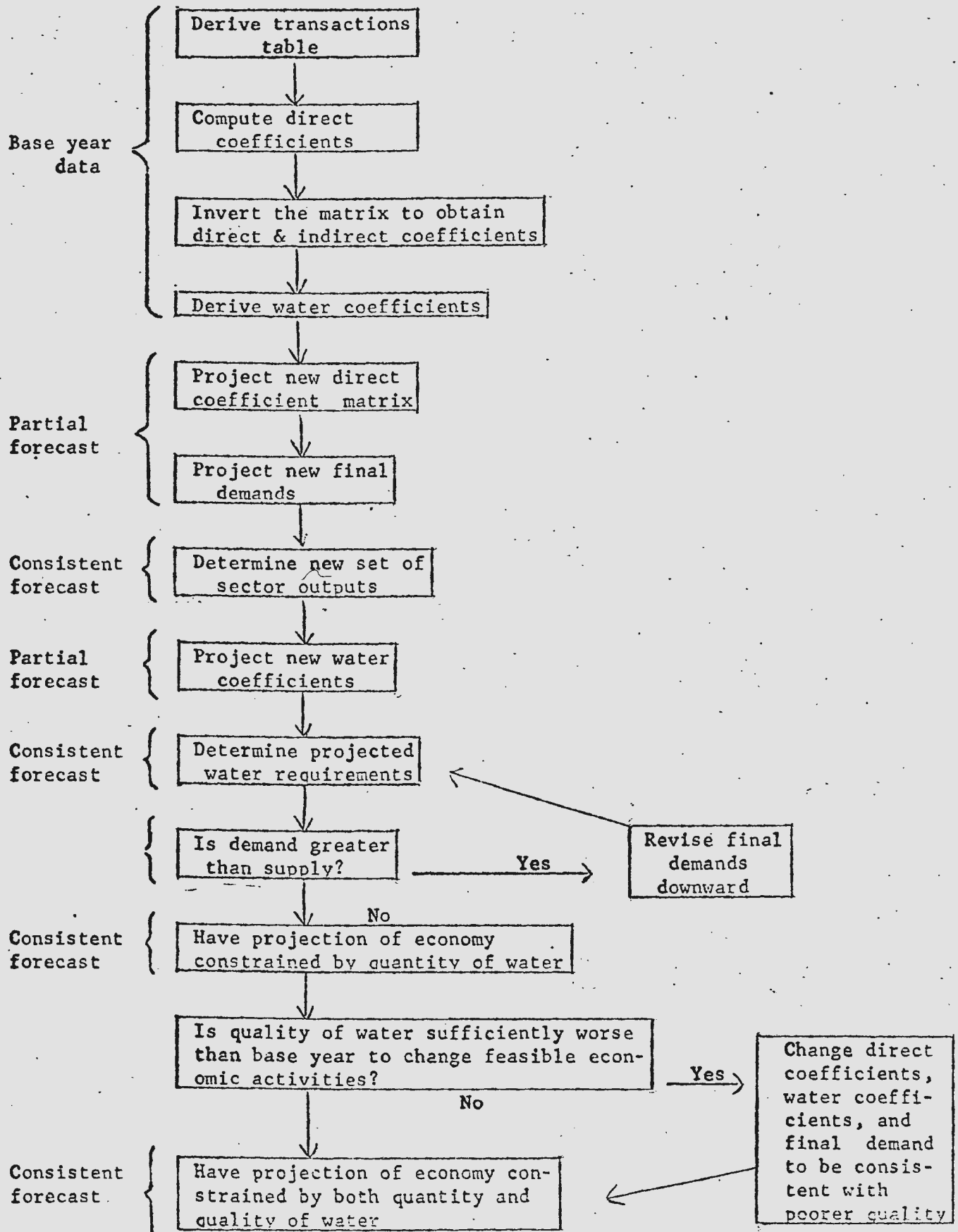
It may be helpful to view these steps sequentially and they appear in flow-chart form in Figure CRB-10.

Unconstrained Projection

For the initial unconstrained condition let us assume that final demands for the year 1980 are projected to be \$100,000, \$120,000, and \$900,000 respectively. Further assume that new direct coefficients have been projected (reflecting changing technology and trade patterns) and that the new derived table of direct and indirect coefficients looks like the following:

Figure CRB-10

FLOW CHART, COLORADO RIVER BASIN INPUT OUTPUT PROJECTIONS



Source: L.W. Wilkes, J.C. Andersen, and M.G. Pincock, "The Colorado River Basin Economic Base Study and Its Use in Type I Comprehensive Surveys," paper presented at Staff Conference, Western Resource Group, NRE, Salt Lake City, October 11-14, 1966, p. 22.

$$[I-A]^{-1} = \begin{bmatrix} 1.1164 & .0798 & .0053 \\ .0652 & 1.1881 & .0373 \\ .4317 & .2675 & 1.2594 \end{bmatrix}$$

Using the two sets of projections we can derive a new consistent profile for 1980. Thus,

$$[I-A]^{-1} \cdot Y = X$$

$$\begin{bmatrix} 1.1164 & .0798 & .0053 \\ .0652 & 1.1881 & .0373 \\ .4317 & .2675 & 1.2594 \end{bmatrix} \cdot \begin{bmatrix} 100,000 \\ 120,000 \\ 900,000 \end{bmatrix} = \begin{bmatrix} 125,986 \\ 182,662 \\ 1,208,730 \end{bmatrix}$$

This unconstrained projection of the economy is useful primarily as a reference point for later projections which consider a water resource limitation.

Water Quantity Constrained Projection

Water coefficients for each sector have been derived (See Appendix E). They represent the number of gallons of water utilized (net depletion) in each sector per dollar of total gross output. Assume that we began with water coefficients in 1960 as follows:

Agriculture	3500 gallons/dollar of gross output
Mining	35 gallons/dollar of gross output
Trade, etc.	3 gallons/dollar of gross output

In order to find total water use we multiply the water coefficient by the dollar value of gross output in each sector and sum to obtain total net depletion for the industry of the region. Thus, in this case,

$$95,100,000 (3500) + 138,700,000 (35) + 846,700,000 (3) = 340,244,600,000 \text{ gallons}$$

This converts to 1,044,243 acre-feet, and when government and households are added, can be checked against the 1960 streamflow record.

Of course, water coefficients are unlikely to remain fixed over time. We know that the efficiency of water use in agriculture has been increasing and agriculture is, by far, the single largest water-using sector. Various economies in water use have been developed in nonagricultural industries also. Reflecting this trend toward reduced water coefficients, we project the 1980 requirements at 3000, 30, and 3 gallons, respectively per dollar of gross output. Multiplying these figures by our 1980

projections of gross output we arrive at a total of 387,064,050,000 gallons or 1,117,548 acre-feet of water.

$$125,986,000 (3000) + 182,662,000 (30) + 1,208,730,000 (3) = 387,064,050,000 \text{ gallons}$$

After expansion to account for government and household use we come up with a total water demand which can be compared with projected supply. If demand exceeds supply, we must experiment with reduced final demands until a new forecast of the economy is developed which is consistent with the expected level of water availability. A variety of optimizing and institutional criteria may be employed in deciding how reduced economic activity is to be spread among sectors. We have assumed that in the event of growing water scarcity, the market will allocate available water supply to the uses which are most profitable, relative to water use. Thus, if downward revisions in projected final demand become necessary, we assume they will be concentrated in those industries with the lowest rates of return (or value added) per gallon of water utilized. Such a method is not unambiguous since one rapidly encounters crops with low value added to water ratios, but which are essential in the crop rotation pattern necessary to maintain the yield of crops with higher value added to water ratios.

Fortunately, quantity constraints do not appear relevant in the cases we have examined. Indeed, when the water requirements associated with the "unconstrained" projections were computed and compared with estimated water availability in the area in the target years in no case did a water quantity induced constraint appear. We hasten to point out, however, that the concept of water quantity without concern as to its quality is highly artificial and is of only limited usefulness.

Water Quality Constrained Projections and the Measurement of Damages
Resulting from Water Quality Deterioration

The quality constrained projections present the most difficult problems. We begin with an estimate of the increased salinity concentration in river water resulting from the projected higher levels of economic activity in each sub-basin. The major contribution to total dissolved solids is expected to come from increased water applications in agriculture. A basic assumption is that TGO of each sector in the target years will depend upon the availability of an adequate water supply of a specified quality as well as upon the demand for that sector's output. Thus, the quality-constrained projections are not complete until we have arrived at a level and structure of economic activity for each sub-basin where the accompanying water requirements -- both quantitative and qualitative -- are met.

The economic effects of a change (degradation) in water quality can be shown through the use of the input-output model by making three adjustments: 1) change direct coefficients where appropriate to reflect changing costs; 2) adjust final demand to account for changes in household demand; and 3) adjust final demand to reflect direct changes in output. The procedure and the rationale for making such changes are outlined below.

A. Methods for accounting for quality related changes in economic activity.

1. Changes in coefficients where appropriate to reflect changing costs.

a. Procedure -- Estimates of damages (benefits) resulting from a change in water quality are converted into increases (decreases) in costs for specific sectors (e.g., Agriculture) which are then translated into changes in direct coefficients. It was assumed that the costs associated with the following inputs will increase as a result of deteriorating water quality and that these increases will be distributed as indicated.

(1) Fertilizer -- increases in fertilizer costs were distributed to the Chemicals, "Other" Retail Trade and Imports from Rest of World sectors in the ratio of 76 percent, 12 percent and 12 percent respectively. ³⁶

(2) Drainage -- coefficients in the Rentals and Finance sector required adjustment to account for interest charges associated with providing additional drainage structures to remove additional leaching water. The adjustment was based on a 6 percent interest rate calculated on one-fourth of the present value of the capital cost of the required increment in drainage capacity. The value of one-fourth is based on an estimated 50 percent government contribution made in annual payments with the average balance being approximately one-half of the initial cost.

Payments to local governments (irrigation districts) for construction costs of off-farm installations are reductions of the profits and other income row, and, therefore, no adjustments are required in the processing sector. Similarly, depreciation and most maintenance costs for on-farm systems are outside the processing sector and are offsets to profits.

(3) Labor -- additional labor costs represent a redistribution of income within the household sector, and no adjustments are required.

(4) Water costs -- payments for the diversion of additional leaching water are made to local, state and Federal governments. Since these are outside of the processing sector, no adjustments of coefficients was required.

b. Explanation -- changes (increases) in cost are translated into changes (increases) in direct coefficients. If final demands for all sectors are held constant, these increases in coefficients will cause increases in most or all TGO's, and these changes measure

³⁶ Changes in cropping patterns resulting from salinity changes may also require adjustment of coefficients because of varying fertilizer requirements between specific crops. If shifts are between sectors rather than within a sector, coefficients will not require further adjustments.

the increased input, to column sectors required to maintain the former level of final demand. These additional inputs required to obtain the same agricultural output as before are economic inefficiencies introduced into the system as a result of deteriorating water quality. The measure of such damages, therefore, will be the sum of all the increases in TGO's brought about by the change in coefficients.

2. Adjustments in Final Demand Required because of Changes in Household Income.

a. Procedure -- final demands for certain sectors are reduced to reflect the reduction of household income as costs (drainage, fertilizer and additional water) increase, and profits are reduced. Reductions in household final demand (column) are allocated to the following (row) sectors: Eating and Drinking Places, "Other" Retail Trade, and "Other" Services.

b. Explanation -- assuming constant TGO's, increases in costs reflected in the increases in coefficients lead to a reduction of profits. Assuming that a reduction in profits is a reduction in household income, lower profits will result in lower household consumption. i.e., final demand. Changes in final demand from the household sector (column) are allocated among the row sectors in accordance with the purchasing patterns of the households affected and by judgment.

3. Adjustments in Final Demand Required because of Changes in Agricultural Output.

Additional adjustments in final demand may be required because of changes in yields and cropping patterns which results from salinity increases.

a. Method -- reduce final demand in agricultural sectors.

b. Explanation -- agricultural final demand adjustments are required (because of changes in yields and/or changes in cropping patterns which result from salinity increases) to meet restrictions on feasible total value of agricultural output. Soil characteristics

10

may preclude maintaining the total value of agricultural output because leaching requirements cannot be met. Adjustments in the Agricultural sectors will have to be made on the basis of water quality, crop salt tolerance and soil permeability. It was assumed that reductions in the total output of a sector will result in a reduction in final demand of that sector, i.e., that sub-basin interindustry demand will be satisfied first, with production in excess of this level going to final demand. The component of final demand that will reflect these output changes most readily will be exports.

B. Measuring the impact

The sequence of computer runs to calculate damages resulting from the changes outlined above were:

1. A computer run using revised coefficients and original final demand.

2. A computer run using original coefficients and revised final demands.

In the first run the increases in TGO's resulting from revised (increased) coefficients were the measure of damage and were added (ignoring algebraic signs) to the decrements in TGO's resulting from the lower final demands in the second run. This sum represents total direct and indirect damages resulting from a change in water quality.

It should be noted that various ways exist to accommodate water quality deterioration in each of the affected sectors -- agriculture, industry, and households. Some of these alternatives are discussed above. The decision as to the most likely alternative was made by the staff of FWPCA and ERS on the basis of their analyses. The resulting estimates of the direct costs of such action were presented to the economic study team as givens and were subjected to further analysis to determine secondary or indirect consequences of increased salinity. The results appear in Tables CRB-18 through CRB-21. They indicate that nontrivial damages resulting from water quality deterioration are expected to be encountered only in the Gila and Lower Main Stem Sub-Basins. A technical note detailing the steps followed in estimating damages resulting from water quality deterioration appears after the tables.

Table CRB-18

DAMAGE INJECTION RESULTS

1980 Gila Economy
1980 Water Quality

I. Agriculture Damages		
A. Decreases in total gross output		
1. Direct	=	\$192,800
2. Indirect	=	87,800
3. Total	=	\$280,600
II. Industrial Damages		
A. Increased water treatment costs		
1. Direct	=	\$ 18,400
2. Indirect	=	5,600
3. Total	=	\$ 24,000
B. Increased water purchase costs		
1. Direct	=	\$114,100
2. Indirect	=	0
3. Total	=	\$114,100
III. Household Damages		
A. Increased Soap Purchases		
1. Direct	=	\$1,559,210
2. Indirect	=	318,990
3. Total	=	\$1,878,200
IV. Total Direct Costs		\$1,884,510
V. Total Indirect Costs		\$ 412,390
VI. Total Damages		\$2,296,900
Sum of the TGO's on the Gila 1980 Unconstrained Table:		
		\$13,425,325,300

Table CRB-19.

DAMAGE INJECTION RESULTS

1980 Lower Main Stem Economy
1980 Water Quality

I. Agriculture Damages			
A. Decreases in total gross output			
1. Direct	= \$	444,800	
2. Indirect	=	315,800	
3. Total	=		\$ 760,600
II. Industrial Damages			
A. Increased water treatment costs			
1. Direct	= \$.	8,000	
2. Indirect	=	1,700	
3. Total	=		\$ 9,700
B. Increased water purchase costs			
1. Direct	= \$	38,100	
2. Indirect	=	0	
3. Total	=		\$ 38,100
III. Household Damages			
A. Increased soap purchases			
1. Direct	= \$	34,367	
2. Indirect	=	6,133	
3. Total	=		\$ 40,500
IV. Total Direct Costs	=		\$ 525,267
V. Total Indirect Costs	=		323,633
VI. Total Damages	=		848,900

Table CRB-20

DAMAGE INJECTION RESULTS

2010 Gila Economy
2010 Water Quality

I. Agriculture Damages			
A. Decreases in total gross output			
1. Direct	=	\$321,300	
2. Indirect	=	168,700	
3. Total	=		\$490,000
II. Industrial Damages			
A. Increased water treatment costs			
1. Direct	=	\$ 82,400	
2. Indirect	=	26,900	
3. Total	=		\$109,300
B. Increased water purchase costs			
1. Direct	=	\$515,400	
2. Indirect	=	0	
3. Total	=		\$515,400
III. Household Damages			
A. Increased soap purchases			
1. Direct	=	\$6,262,191	
2. Indirect	=	1,426,209	
3. Total	=		\$7,688,400
IV. Total Direct Costs			\$7,181,291
V. Total Indirect Costs			\$1,621,809
VI. Total Damages			\$8,803,100
Sum of the TGO's on the Gila 2010 Unconstrained Table:			
			\$32,749,158,000

Table CRB-21

DAMAGE INJECTION RESULTS

2010 Lower Main Stem Economy
2010 Water Quality

I. Agriculture Damages			
A. Decreases in total gross output			
1. Direct	= \$	3,012,900	
2. Indirect	=	2,494,500	
3. Total	=		\$ 5,507,400
II. Industrial Damages			
A. Increased water treatment costs			
1. Direct	= \$	126,200	
2. Indirect	=	44,400	
3. Total	=		\$ 170,600
B. Increased water purchase costs			
1. Direct	= \$	617,900	
2. Indirect	=	0	
3. Total	=		\$ 617,900
III. Household Damages			
A. Increased soap purchases			
1. Direct	= \$	84,792	
2. Indirect	=	15,208	
3. Total	=		\$ 100,000
IV. Total Direct Costs	=		\$ 3,841,792
V. Total Indirect Costs	=		2,554,108
VI. Total Damages	=		6,395,900

C. The Final Quality-Constrained Projections

A computer run using revised coefficients and revised final demands yielded a final set of TGO's which were "projections constrained for quality-related effects," i.e., they are maximum feasible projections of total economic activity given a specific level of water quality. Again, water quality deterioration was significant only in the Gila and Lower Main Stem Sub-Basins. The resulting quality-constrained projections appear in the following input-output tables a through c. A comparison of the quality constrained and unconstrained projections is presented in Tables CRB-22. Tables CRB-23 contain absolute changes in coefficients over the time periods 1960-1980 and 1980-2010.

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32		
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetables & Melon Products	Citrus Crops	Forestry	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output		
Agriculture	1. Range Livestock	787	4,550	0	0	0	0	0	0	0	0	472	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,217	8,026	1.		
	2. Feeder Livestock	0	0	0	0	0	73	0	0	0	0	0	1,995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30,541	32,609	2.	
	3. Dairy	0	0	89	61	0	0	0	0	0	0	0	4,252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	4,434	3.		
	4. Forage, Feed & Food Crops	353	5,362	1,282	41	0	0	0	0	218	0	0	2,730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,484	20,469	4.	
	5. Cotton	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,159	0	0	0	0	0	0	20,347	24,530	5.	
	6. Vegetables & Melon Products	0	0	0	0	0	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72,980	73,053	6.	
	7. Citrus Crops	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,589	21,610	7.	
	8. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	3,979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,979	9,471	8.
	9. All Other Agriculture	0	455	0	0	0	0	0	0	19	0	0	3,255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,743	9,471	9.	
Mining	10. Uranium	0	0	0	0	0	0	0	0	1,621	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,694	5,315	10.		
	11. All Other Mining	0	0	0	0	0	0	324	0	0	64	73	0	0	8,909	0	0	9,100	7,579	0	0	0	0	0	0	0	1,909	0	0	0	9,458	37,416	11.		
Manufacturing	12. Food & Kindred Products	0	0	701	0	0	0	0	0	701	0	0	577	0	0	32	0	0	0	0	0	31,750	0	0	0	0	0	0	0	0	20,220	54,071	12.		
	13. Lumber & Wood Products	0	0	0	0	0	0	0	0	0	16	544	0	1,746	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33,175	42,622	14.	
	14. Chemicals	0	0	0	1,494	1,815	3,141	735	0	76	11	36	0	42	0	0	0	2,097	0	0	0	0	0	0	0	0	0	0	0	0	0	46,804	48,597	18.	
	15. Printing & Publishing	0	0	0	0	0	0	0	0	0	5	109	157	17	42	221	15	42	46	506	876	794	12,269	116	2,188	5,502	174	90	132	529	2,289	5,818	31,936	15.	
	16. Fabricated Metals	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	227	0	0	0	0	0	0	0	0	0	0	174	0	6,348	0	912	7,672	16.	
	17. Stone, Clay & Glass Products	0	0	0	0	0	0	0	0	0	27	435	0	0	1,597	0	0	503	228	0	0	0	0	0	0	0	0	347	0	20,103	0	20,684	43,925	17.	
	18. All Other Manufacturing	48	0	0	0	0	0	0	0	9	0	254	0	0	756	316	0	0	228	0	0	0	0	0	0	0	0	180	0	0	46,804	48,597	18.		
	19. Wholesale Trade	72	32	31	287	294	438	194	32	28	16	544	105	101	168	63	61	84	365	1,182	375	8,202	1,704	2,137	10,065	18,951	1,736	1,441	2,499	11,110	458	114,463	177,239	19.	
	Trade	20. Service Stations	88	97	49	450	294	511	130	103	246	5	109	105	17	84	0	8	42	46	844	250	0	1,363	404	3,501	611	868	360	4,210	4,761	458	45,768	65,784	20.
21. Eating & Drinking Places		0	0	0	0	0	0	0	0	0	0	36	0	0	42	0	0	42	46	338	125	0	0	0	0	0	0	0	0	0	529	458	127,174	133,859	21.
Services	22. All Other Retail	361	32	53	983	613	2,265	324	44	398	37	181	210	218	84	158	99	294	320	1,013	876	1,455	1,023	404	3,501	6,113	1,736	1,446	1,315	4,232	1,831	354,845	386,465	22.	
	23. Agricultural Services	144	2,275	62	266	2,183	38,718	13,615	0	0	0	36	0	0	0	0	0	46	338	63	0	0	341	0	0	0	2,083	0	0	458	437,000	440,364	24.		
	24. Lodging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Utilities	25. All Other Services (Except Professional)	0	0	27	20	25	0	22	4	9	43	218	1,365	504	714	253	220	671	1,187	9,792	1,251	6,482	14,314	1,098	13,566	25,064	2,256	2,341	8,551	4,761	5,035	539,087	638,880	25.	
	26. Transportation	112	812	137	61	74	1,899	173	52	9	112	1,197	735	201	2,017	822	212	713	913	16,883	4,130	1,720	5,453	15,886	0	9,170	9,546	2,161	2,105	5,819	3,662	86,784	173,572	26.	
	27. Electric Energy	8	130	49	205	98	438	194	0	76	69	1,415	577	336	1,219	411	121	2,516	1,689	4,221	2,190	1,852	14,995	347	7,002	10,392	2,430	3,962	921	2,116	2,289	29,194	91,463	27.	
	28. All Other Utilities	8	0	13	0	49	146	0	0	28	43	835	525	218	462	537	425	377	228	3,039	876	2,910	10,224	116	14,003	7,336	2,083	5,223	921	2,116	4,120	78,432	135,294	28.	
	29. Contract Construction	0	0	0	0	0	0	0	0	0	64	1,306	52	84	0	0	0	294	457	0	501	794	341	693	11,815	5,502	0	810	2,236	174,579	2,289	417,412	619,244	29.	
	30. Rentals & Finance	80	162	80	389	466	3,799	194	223	265	58	2,613	1,942	134	294	759	121	252	1,324	8,779	2,628	5,953	25,901	1,502	9,627	13,449	2,604	18,821	6,709	13,755	19,225	315,639	457,749	30.	
	31. Final Payments	5,965	18,702	1,861	16,212	18,594	21,552	5,683	3,521	6,887	3,113	27,475	35,017	9,444	26,192	28,364	6,148	26,898	33,895	130,304	51,643	71,947	298,537	30,904	362,033	536,179	144,411	54,358	105,563	365,312	415,177			31.	
	32. Total Gross Outlays	8,026	32,609	4,434	20,469	24,530	73,053	21,610	3,979	9,471	5,315	37,416	54,071	16,999	42,622	31,936	7,672	43,925	48,597	177,239	65,784	133,859	386,465	57,766	440,364	638,880	173,572	91,463	135,294	619,244	457,749			32.	

INTERINDUSTRY TRANSACTIONS (IN THOUSANDS OF DOLLARS)
 LOWER MAIN STEM SUB-BASIN-1980-CONSTRAINED FOR WATER QUALITY
 Table-1980-QC-a

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

		Industry Purchasing																																				
Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetables & Melon Products	Citrus Crops	Citrus Crops	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass Products	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance							
Agriculture	1. Range Livestock	.098	.140	.000	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.						
	2. Feeder Livestock	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.038	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.					
	3. Dairy	.000	.000	.020	.003	.000	.000	.000	.000	.000	.000	.000	.081	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.				
	4. Forage, Feed & Food Crops	.044	.165	.289	.002	.000	.000	.000	.000	.000	.023	.000	.000	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.			
	5. Cotton	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.			
	6. Vegetable & Melon Products	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.		
	7. Citrus Crops	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.		
	8. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.237	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.	
	9. All Other Agriculture	.000	.014	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.062	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.	
Manufacturing	10. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.000	.305	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.		
	11. All Other Mining	.000	.000	.000	.000	.000	.000	.015	.000	.000	.012	.002	.000	.000	.212	.000	.000	.217	.166	.000	.000	.000	.000	.000	.000	.000	.000	.011	.000	.000	.000	.000	.000	.000	.000	.000	11.	
	12. Food & Kindred Products	.000	.000	.158	.000	.000	.000	.000	.000	.000	.074	.000	.000	.011	.000	.000	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	12.	
	13. Lumber & Wood Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.015	.000	.104	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.006	.000	.000	.000	.000	.000	.000	13.	
	14. Chemicals	.000	.000	.000	.073	.074	.043	.034	.000	.008	.002	.001	.000	.000	.001	.000	.000	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	14.
	15. Printing & Publishing	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.003	.003	.001	.001	.007	.002	.001	.001	.003	.014	.006	.036	.002	.005	.009	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.005	15.
	16. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.012	.000	.000	.000	.000	.000	.000	16.	
	17. Stone, clay & Glass Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.012	.000	.000	.038	.000	.000	.012	.005	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.038	.000	.000	17.	
	18. All Other Manufacturing	.006	.000	.000	.000	.000	.000	.000	.000	.001	.000	.007	.000	.000	.018	.010	.000	.000	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	18.
Trade	19. Wholesale Trade	.009	.001	.007	.014	.012	.006	.009	.008	.003	.003	.015	.002	.006	.004	.002	.008	.002	.008	.007	.006	.062	.005	.037	.023	.031	.010	.016	.019	.021	.001	.001	.001	.001	.001	19.		
	20. Service Stations	.011	.003	.011	.022	.012	.007	.006	.026	.026	.001	.003	.002	.001	.002	.000	.001	.001	.001	.005	.004	.000	.004	.007	.008	.001	.005	.004	.032	.009	.001	.001	.001	.001	.001	.001	20.	
	21. Eating & Drinking Places	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.001	.001	.002	.002	.000	.000	.000	.007	.001	.007	.002	.000	.001	.001	.001	.001	.001	.001	.001	.001	21.
Services	22. All Other Retail	.045000	.001000	.012000	.048000	.025000	.031000	.015000	.011000	.042000	.007000	.005000	.004002	.013013	.002006	.005000	.013000	.007003	.007000	.006001	.014000	.011000	.003001	.007000	.008000	.010000	.010000	.016055	.010000	.008000	.004000	.000	.000	.000	.000	22.		
	23. Agricultural Services	.018	.070	.014	.013	.089	.530	.630	.000	.053	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.000	.000	.000	.001	.001	.001	.001	.001	.001	23.	
	24. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001	.002	.001	.000	.000	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	24.
	25. All Other Services (Except Professional)	.000	.000	.006	.001	.001	.000	.001	.001	.001	.001	.008	.006	.026	.030	.017	.008	.029	.016	.026	.058	.020	.049	.042	.019	.031	.041	.013	.026	.065	.009	.011	.009	.011	.009	.011	25.	
	26. Transportation	.014	.025	.031	.003	.003	.026	.008	.013	.001	.021	.033	.014	.012	.048	.026	.028	.017	.020	.100	.066	.013	.016	.275	.000	.015	.055	.024	.016	.011	.008	.011	.008	.011	.008	.011	26.	
Utilities	27. Electric Energy	.001	.004	.011	.010	.004	.006	.009	.000	.008	.013	.039	.011	.020	.029	.013	.016	.060	.037	.025	.035	.014	.044	.006	.016	.017	.014	.044	.007	.004	.005	.004	.005	.004	.005	27.		
	28. All Other Utilities	.001	.000	.003	.000	.002	.002	.000	.000	.003	.008	.023	.010	.013	.011	.017	.056	.009	.005	.018	.014	.022	.030	.002	.032	.012	.012	.058	.007	.004	.009	.004	.009	.004	.009	.004	28.	
	29. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.036	.001	.005	.000	.000	.002	.007	.010	.000	.008	.006	.001	.012	.027	.009	.000	.009	.017	.330	.005	.005	.005	.005	.005	.005	29.	
	30. Rentals & Finance	.010	.005	.018	.019	.019	.052	.009	.056	.028	.011	.072	.037	.008	.007	.024	.016	.006	.029	.052	.042	.045	.076	.026	.022	.022	.015	.209	.051	.026	.042	.042	.042	.042	.042	.042	30.	

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

Industry Purchasing	Industry Producing																															
	1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetables & Melon Products	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	11 All Other Mining	12 Food & Kindred Products	13 Lumber & Wood Products	14 Chemicals	15 Printing & Publishing	16 Fabricated Metals	17 Stone, Clay & Glass Products	18 All Other Manu- facturing	19 Wholesale Trade	20 Service Stations	21 Eating & Drinking Places	22 All Other Retail	23 Agricultura Services	24 Lodging	25 All Other Services (Except Pro fessional)	26 Transpor- tation	27 Electric Energy	28 All Other Utilities	29 Contract Construction	30 Rentals & Finance		
Agriculture	1. Range Livestock	1.108649	.000004	.000159	.048931	.001494	.000000	.000002	.000007	.000000	.002282	.000107	.000052	.003704	.002436	.000044	.000309	.006806	.012693	.014134	.000298	.053509	.020728	.000446	.005283	.026864	.006295	.004361	.001294	.021372	1.	
	2. Feeder Livestock	.155231	1.000049	.000635	.172759	.005498	.000000	.000000	.000019	.014109	.000000	.003780	.001289	.000081	.013186	.001257	.000084	.000756	.001248	.009139	.010150	.000494	.018775	.076289	.000732	.005171	.055034	.009990	.003057	.002207	.019231	2.
	3. Dairy	.002640	.006320	1.035102	.309811	.001419	.000000	.000000	.000029	.010420	.000000	.005751	.166306	.000122	.022890	.002494	.000080	.001144	.000551	.015008	.020078	.000562	.030590	.019687	.000728	.017376	.049742	.022274	.009367	.002353	.044398	3.
	4. Forage, Feed & Food Crops	.000010	.000023	.003121	1.002945	.000949	.000000	.000000	.000071	.000038	.000000	.001674	.000613	.000301	.073534	.002629	.000046	.003161	.001511	.016556	.023170	.000374	.049902	.013170	.000359	.008044	.016817	.018033	.005150	.002290	.032903	4.
	5. Cotton	.000002	.000005	.000011	.000011	1.007463	.000000	.000000	.000076	.000009	.000000	.017281	.000136	.000320	.074811	.001855	.000082	.003306	.001516	.017430	.013694	.000495	.027355	.089665	.000582	.008622	.037959	.011224	.006404	.003493	.031818	5.
	6. Vegetables & Melon Products	.000162	.001018	.000037	.000210	.038489	1.001001	.000000	.000072	.000041	.000000	.012691	.000438	.000305	.046105	.003753	.000348	.002787	.001000	.030701	.013336	.001674	.039474	.534036	.002527	.020624	.192804	.018939	.010658	.012067	.085105	6.
	7. Citrus Crops	.000007	.000017	.000038	.000039	.045745	.000000	.000000	.0000128	.000029	.000000	.026028	.000456	.000541	.037622	.003290	.000386	.002729	.000942	.037863	.013105	.001737	.024395	.634706	.002624	.023040	.203314	.022482	.008747	.014292	.044112	7.
	8. Forestry	.000001	.000003	.000006	.000006	.000000	.000000	.000000	1.000003	.000004	.000000	.000213	.000070	.000012	.000004	.001209	.000030	.000075	.000019	.008762	.026434	.000267	.012001	.000001	.000328	.003845	.017475	.002458	.001908	.000959	.062139	8.
	9. All Other Agriculture	.001214	.002905	.006410	.029576	.003921	.000000	.000000	.000017	1.006795	.000000	.002846	.076456	.000973	.010547	.002820	.000056	.000593	.001288	.007307	.028377	.000343	.046123	.054409	.000424	.009429	.023803	.014806	.007826	.002553	.044706	9.
Mining	10. Uranium	.000002	.000005	.000011	.000011	.000000	.000000	.001271	.000008	1.438849	.020372	.000132	.005365	.003343	.002423	.003353	.008817	.000275	.007049	.002720	.000427	.011899	.000001	.000510	.016426	.036092	.023307	.015394	.028215	.027472	10.	
	11. All Other Mining	.000007	.000017	.000038	.000039	.000000	.000000	.004094	.000029	.000000	1.007220	.000457	.017275	.001743	.004306	.000747	.014611	.007253	.019143	.005279	.001641	.008159	.000004	.001663	.014525	.041989	.045709	.029044	.056906	.092634	11.	
Manufacturing	12. Food & Kindred Products	.016347	.039128	.085374	.087051	.000637	.000000	.000017	.064518	.000000	.001930	1.029696	.000070	.006951	.004427	.000069	.000475	.000382	.006799	.007869	.000348	.014388	.008836	.000404	.032635	.026020	.017415	.013982	.003372	.053610	12.	
	13. Lumber & Wood Products	.000002	.000004	.000009	.000010	.000000	.000000	.264531	.000007	.000000	.000358	.000113	1.116166	.000023	.002606	.000148	.000440	.000082	.011559	.009138	.000338	.019166	.000001	.000353	.039749	.022135	.026360	.018268	.010128	.035719	13.	
	14. Chemicals	.000008	.000020	.000044	.000045	.000000	.000000	.000927	.000033	.000000	.226309	.000532	.003912	1.003340	.002673	.000250	.042141	.019862	.010912	.004281	.001952	.005968	.000005	.001089	.025935	.064234	.045807	.021659	.014860	.039908	14.	
	15. Printing & Publishing	.000018	.000043	.000094	.000096	.000001	.000000	.000016	.000071	.000000	.002066	.001130	.000066	.000019	1.007656	.000048	.000192	.010174	.003566	.000962	.000309	.006195	.000010	.000416	.011785	.029792	.015596	.019360	.001403	.031720	15.	
	16. Fabricated Metals	.000002	.000005	.000010	.000010	.000000	.000000	.000027	.000008	.000000	.000466	.000121	.000115	.000016	.003342	1.031035	.000299	.000078	.011655	.003509	.000392	.015434	.000001	.000490	.038277	.034886	.020319	.061325	.005753	.028670	16.	
	17. Stone, Clay & Glass Products	.000008	.000020	.000044	.000045	.000000	.000000	.000971	.000033	.000000	.233060	.000534	.004097	.051189	.002910	.000352	1.018014	.002751	.009450	.003446	.001828	.011121	.000005	.000725	.025660	.034166	.077586	.021730	.025618	.046094	17.	
	18. All Other Manufacturing	.000007	.000018	.000039	.000039	.000000	.000000	.000719	.000029	.000000	.169664	.000467	.003032	.000586	.002737	.000358	.008253	1.006356	.013993	.002826	.001673	.010245	.000004	.001663	.033779	.032247	.049106	.014188	.026290	.058709	18.	
	Trade	19. Wholesale Trade	.000012	.000030	.000065	.000067	.000000	.000000	.000016	.000049	.000000	.001321	.000787	.000067	.000024	.004640	.000148	.000348	.000118	1.011716	.006751	.003037	.009098	.000007	.003438	.066815	.110779	.030733	.023585	.002753	.067719	19.
20. Service Stations		.000012	.000028	.000061	.000062	.000000	.000000	.000031	.000046	.000000	.001024	.000736	.000133	.000041	.015526	.000250	.000706	.000245	.009400	1.005530	.002747	.016536	.000006	.001995	.026880	.074487	.040296	.019459	.014038	.058590	20.	
21. Eating & Drinking Places		.003926	.009396	.020502	.020904	.000153	.000000	.000030	.015493	.000000	.000857	.247272	.000128	.001694	.008734	.000180	.000600	.000211	.067419	.003554	1.000558	.016704	.002122	.000589	.067091	.030071	.023350	.030020	.012033	.072449	21.	
Services	22. All Other Retail	.000003	.000008	.000017	.000017	.000000	.000000	.000018	.000013	.000000	.000386	.000201	.000078	.000013	.037632	.000081	.000232	.000480	.008728	.005756	.000450	1.005673	.000002	.001401	.050336	.022958	.049338	.035998	.004630	.095862	22.	
	23. Agricultural Services	.000010	.000023	.000050	.000051	.072538	.000000	.000053	.000038	.000000	.004868	.000606	.000224	.005464	.003684	.000555	.001640	.000200	.043697	.010405	.002375	.013414	1.006461	.003771	.029727	.300938	.014718	.009310	.019784	.043038	23.	
	24. Lodging	.000029	.000069	.000151	.000154	.000001	.000000	.000079	.000114	.000000	.000472	.001826	.000332	.000096	.006313	.000533	.001659	.000109	.026997	.009948	.007280	.010109	.000016	1.000189	.039005	.006633	.020052	.035726	.042516	.034745	24.	
	25. All Other Services (Except Professional)	.000006	.000014	.000031	.000031	.000000	.000000	.000030	.000023	.000000	.000415	.000371	.000126	.000035	.010318	.000210	.000634	.000150	.034139	.002154	.001371	.011811	.000003	.000383	1.048056	.022211	.021073	.015789	.015117	.033543	25.	
	26. Transportation	.000030	.000073	.000159	.000162	.000001	.000000	.000057	.000120	.000000	.012285	.001915	.000240	.000145	.002125	.001126	.002401	.000148	.013054	.006262	.007663	.011909	.000016	.012829	.018788	1.062229	.018340	.016077	.002472	.025676	26.	
Utilities	27. Electric Energy	.000028	.000067	.000145	.000148	.000001	.000000	.000050	.000110	.000000	.000918	.001753	.000212	.000053	.003641	.000262	.000799	.002157	.020759	.007158	.002700	.019753	.000015	.000717	.038923	.033967	1.051040	.065799	.018352	.238193	27.	
	28. All Other Utilities	.000002	.000005	.000011	.000011	.000000	.000000	.000314	.000008	.000000	.000538	.000134	.001323	.000058	.003063	.000369	.001126	.000060	.023050	.033225	.000478	.012458	.000001	.000451	.072950	.024580	.012088	1.011022	.027757	.063170	28.	
	29. Contract Construction	.000008	.000019	.000042	.000042	.000000	.000000	.002430	.000031	.000000	.013518	.000501	.010253	.002912	.003001	.018526	.057845	.000207	.033916	.014569	.001954	.014362	.000004	.000474	.021256	.026079	.014335	.011314	1.495381	.050972	29.	
	30. Rentals & Finance	.000005	.000011	.000025	.000025	.000000	.000000	.000017	.000019	.000000	.000204	.000302	.000072	.000020	.005653	.000115	.000349	.000072	.002222	.001602	.001170	.004816	.000003	.001180	.013671	.010153	.006476	.010561	.008457	1.047353	30.	

Note: Each entry shows the total dollar producing directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry Producing	Industry Purchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30																		
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Products	Citrus Crops	Forestry	All Other Agriculture	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance																		
Agriculture	1. Range Livestock	.095	.108	.000	.000	.000	.000	.000	.000	.000	.000	.015	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.																		
	2. Feeder Livestock	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.043	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.																	
	3. Dairy	.000	.000	.018	.003	.000	.000	.000	.000	.000	.000	.000	.053	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.																
	4. Forage, Feed & Food Crops	.041	.161	.282	.004	.000	.000	.000	.000	.000	.028	.000	.000	.055	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.															
	5. Cotton	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.073	.000	.000	.000	.000	.000	.000	.000	.000	5.															
	6. Vegetable & Melon Products	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	6.															
	7. Citrus Crops	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7.														
Mining	8. Forestry	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.														
	9. All Other Agriculture	.000	.013	.000	.000	.000	.000	.000	.000	.000	.000	.000	.231	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	9.													
Manufacturing	10. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.000	.310	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	10.													
	11. All Other Mining	.000	.000	.000	.000	.000	.000	.019	.000	.000	.014	.003	.000	.000	.221	.000	.000	.219	.170	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	11.												
	12. Food & Kindred Products	.010	.000	.162	.000	.000	.000	.000	.000	.000	.078	.000	.014	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	12.											
	13. Lumber & Wood Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.018	.000	.106	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	13.											
	14. Chemicals	.000	.000	.000	.099	.079	.069	.039	.000	.013	.005	.002	.000	.001	.002	.000	.000	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	14.										
	15. Printing & Publishing	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.006	.005	.001	.001	.008	.002	.001	.001	.004	.015	.007	.036	.002	.006	.010	.001	.002	.001	.001	.001	.001	.001	.006	.006	.006	15.											
	16. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.006	.005	.001	.001	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	16.										
Trade	17. Stone, Clay & Glass	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	17.										
	18. All Other Manufacturing	.000	.000	.000	.000	.000	.000	.000	.000	.000	.007	.015	.000	.000	.039	.000	.000	.014	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	18.									
	19. Wholesale Trade	.008	.001	.009	.014	.012	.006	.010	.009	.005	.005	.018	.002	.007	.004	.003	.009	.002	.009	.008	.007	.064	.006	.037	.023	.031	.011	.017	.019	.022	.022	.022	.022	.022	.022	.022	.022	.022	19.										
	20. Service Stations	.011	.003	.011	.020	.012	.007	.007	.029	.029	.002	.004	.003	.001	.002	.000	.001	.001	.001	.006	.004	.000	.004	.007	.008	.001	.006	.004	.032	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	.001	20.								
Services	21. Eating & Drinking Places	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.001	.001	.001	.000	.000	.002	.001	.002	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	21.								
	22. All Other Retail	.045000	.002000	.011000	.046000	.023000	.031000	.014000	.011000	.041000	.012000	.008000	.006007	.016051	.002029	.007000	.015000	.009013	.010001	.007003	.016000	.013002	.004003	.007000	.010011	.011003	.010000	.018430	.011004	.009000	.004001	.004001	.004001	.004001	.004001	.004001	.004001	.004001	.004001	.004001	22.								
	23. Agricultural Services	.022	.073	.016	.019	.092	.535	.633	.600	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	23.						
	24. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	24.					
Utilities	25. All Other Services (Except Professional)	.000	.001	.007	.002	.002	.000	.002	.002	.011	.008	.028	.032	.033	.010	.031	.018	.029	.060	.021	.051	.043	.020	.032	.042	.014	.028	.067	.011	.013	.011	.013	.011	.013	.011	.013	.011	.013	.011	.013	.011	.013	.011	.013	25.				
	26. Transportation	.015	.031	.036	.004	.004	.026	.011	.016	.001	.024	.036	.016	.014	.050	.028	.030	.019	.024	.105	.068	.013	.017	.275	.000	.016	.056	.026	.017	.012	.008	.012	.008	.012	.008	.012	.008	.012	.008	.012	.008	.012	.008	.012	.008	26.			
	27. Electric Energy	.002	.005	.017	.015	.006	.009	.013	.000	.011	.017	.041	.014	.022	.032	.017	.019	.071	.039	.026	.038	.014	.048	.007	.016	.018	.015	.045	.007	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	.005	27.		
	28. All Other Utilities	.001	.000	.005	.000	.003	.002	.000	.000	.005	.010	.025	.012	.013	.013	.018	.058	.013	.007	.018	.015	.023	.032	.002	.033	.012	.012	.058	.007	.004	.009	.004	.009	.004	.009	.004	.009	.004	.009	.004	.009	.004	.009	.004	.009	.004	.009	28.	
	29. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.014	.039	.002	.005	.000	.000	.002	.000	.010	.000	.000	.007	.001	.012	.022	.010	.000	.010	.009	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	.006	29.	
	30. Rentals & Finance	.013	.009	.022	.024	.023	.056	.014	.059	.031	.016	.074	.039	.010	.012	.025	.020	.009	.030	.053	.042	.046	.080	.026	.022	.023	.018	.212	.052	.027	.043	.027	.043	.027	.043	.027	.043	.027	.043	.027	.043	.027	.043	.027	.043	.027	.043	.027	.043

Note: Each entry shows the input directly required from the industry at the left of the table to produce one dollar's worth of output by the industry at the top of the table.

DIRECT PURCHASES PER DOLLAR OF OUTPUT
LOWER MAIN STEM SUB-BASIN 2010
CONSTRAINED FOR WATER QUALITY
Table 2010-QC-1

		Industry Purchasing															Industry Producing															
		1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetable & Melon Products	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	11 All Other Mining	12 Food & Kindred Products	13 Lumber & Wood Products	14 Chemicals	15 Printing & Publishing	16 Fabricated Metals	17 Stone, Clay & Glass	18 All Other Manufactur- ing	19 Wholesale Trade	20 Service Stations	21 Eating & Drinking Places	22 All Other Retail	23 Agricul- tural Services	24 Lodging	25 All Other Services (Except Pro- fessional)	26 Transpor- tation	27 Electric Energy	28 All Other Utilities	29 Contract Construc- tion	30 Rentals & Finance	
Agriculture	1. Range Livestock	1.105222	.000494	.000762	.046447	.001862	.000000	.000000	.000011	.000756	.000000	.001522	.011488	.000047	.004787	.002604	.000050	.000332	.000174	.011898	.014125	.000343	.053466	.025461	.000478	.006064	.029788	.008090	.004799	.001434	.026261	1.
	2. Feeder Livestock	.119392	1.000108	.000647	.167273	.005861	.000000	.000000	.000028	.013218	.000000	.004894	.002521	.000123	.017297	.001386	.000099	.000993	.000496	.009171	.009514	.000590	.017843	.080129	.000836	.007437	.062904	.012701	.003559	.002557	.025653	2.
	3. Dairy	.003693	.007316	1.028436	.302229	.001728	.000000	.000000	.000046	.011199	.000000	.007935	.170148	.000201	.030371	.003130	.000106	.001584	.000875	.017863	.019852	.000888	.029640	.023621	.000859	.021296	.058592	.031995	.013006	.003386	.054351	3.
	4. Forage, Feed & Food Corps	.000015	.000029	.003106	1.004939	.001410	.000000	.000000	.000119	.000044	.000000	.023870	.000673	.000514	.100112	.002929	.000067	.004520	.002449	.017637	.021519	.000533	.048701	.019278	.000465	.012356	.022304	.025550	.006666	.003308	.042032	4.
	5. Cotton	.000003	.000007	.000009	.000013	1.008793	.000000	.000000	.000100	.000011	.000000	.019402	.000161	.000432	.080112	.002054	.000097	.003726	.001942	.018045	.013927	.000583	.025803	.092811	.000648	.011940	.041099	.014456	.008136	.004062	.038070	5.
	6. Vegetable & Melon Products	.000230	.002025	.000027	.000374	.039489	1.002004	.000000	.000119	.000058	.000000	.019720	.000486	.000514	.072720	.004205	.000381	.004124	.001856	.031906	.013861	.001826	.040185	.539869	.002624	.024432	.197581	.025157	.012119	.013164	.093757	6.
	7. Citrus Crops	.000011	.000022	.000027	.000040	.046662	.000000	.000000	.000180	.000033	.000000	.032101	.000502	.000777	.043069	.003707	.000422	.003247	.001425	.039931	.014586	.001897	.024043	.637932	.002751	.027049	.209489	.029000	.009910	.015292	.053343	7.
	8. Forestry	.000002	.000004	.000004	.000007	.000000	.000000	.000000	1.000004	.000005	.000000	.000284	.000082	.000017	.000007	.001422	.000038	.000096	.000030	.009984	.029523	.000313	.012239	.000001	.000383	.005420	.021256	.002925	.002175	.001183	.065942	8.
	9. All Other Agriculture	.001753	.003472	.004464	.034731	.004386	.000000	.000000	.000031	1.009331	.000000	.004742	.080746	.000134	.017005	.003301	.000073	.000954	.002541	.010200	.031882	.000518	.046165	.059968	.000490	.012533	.027356	.019850	.010957	.003355	.051272	9.
Mining	10. Uranium	.000004	.000008	.000010	.000015	.000000	.000000	.002057	.000013	1.449275	.025506	.000192	.008907	.008047	.004616	.004991	.012461	.000661	.011120	.004675	.000626	.020217	.000002	.000659	.023561	.043329	.031690	.020122	.033852	.039901	10.	
	11. All Other Mining	.000017	.000033	.000041	.000061	.000001	.000000	.004821	.000050	.000000	1.010585	.000760	.020872	.003112	.007875	.000887	.018222	.013571	.023176	.006677	.002838	.012150	.000008	.002766	.018978	.047304	.049825	.032218	.062426	.098242	11.	
Manufacturing	12. Food & Kindred Products	.022343	.044262	.055807	.082621	.000745	.000000	.000026	.067753	.000000	.002628	1.029338	.000114	.009183	.006829	.000104	.000687	.000506	.007423	.008910	.001455	.016515	.010184	.000458	.036128	.029475	.022157	.016928	.005441	.058704	12.	
	13. Lumber & Wood Products	.000009	.000018	.000022	.000033	.000000	.000000	.258417	.000027	.000000	.000717	.000414	1.118686	.001157	.002984	.000169	.000539	.000159	.013379	.009896	.001539	.022959	.000004	.000416	.043435	.026180	.029527	.018912	.010546	.040383	13.	
	14. Chemicals	.000014	.000028	.000035	.000052	.000000	.000000	.001142	.000043	.000000	.237400	.000649	.004945	1.005070	.003933	.000306	.044383	.023624	.012988	.004906	.002398	.007736	.000006	.001418	.045031	.069284	.051810	.025636	.017478	.049857	14.	
	15. Printing & Publishing	.000025	.000050	.000062	.000092	.000001	.000000	.000021	.000076	.000000	.002556	.001152	.000089	.000031	1.008908	.000058	.000266	.012301	.004960	.001118	.000376	.008574	.000011	.000464	.014757	.032671	.020376	.020955	.001789	.034741	15.	
	16. Fabricated Metals	.000003	.000006	.000008	.000011	.000000	.000000	.000030	.000009	.000000	.000558	.000142	.000132	.000022	.003642	1.033181	.000340	.000125	.013108	.003714	.000461	.017953	.000001	.000539	.041531	.037934	.024167	.064050	.006237	.034894	16.	
	17. Stone, Clay & Glass	.000020	.000039	.000050	.000073	.000001	.000000	.001173	.000060	.000000	.239103	.000914	.005077	.059859	.004173	.000437	1.021521	.005698	.011367	.004160	.003302	.014935	.000009	.001056	.031689	.039547	.091828	.028107	.029492	.055762	17.	
	18. All Other Manufacturing	.000012	.000024	.000030	.000044	.000000	.000000	.000871	.000036	.000000	.175444	.000553	.003772	.001005	.003733	.000416	.011099	1.010601	.016291	.003302	.002003	.014484	.000005	.001937	.038931	.038537	.053143	.017496	.028035	.063162	18.	
	Trade	19. Wholesale Trade	.000018	.000035	.000044	.000065	.000001	.000000	.000019	.000054	.000000	.001534	.000814	.000083	.000033	.005986	.000164	.000393	.000192	1.013160	.007963	.003135	.010526	.000008	.003522	.069836	.116923	.032478	.023994	.003198	.070367	19.
Retail		20. Service Stations	.000017	.000033	.000041	.000061	.000001	.000000	.000037	.000050	.000000	.001172	.000762	.000160	.000054	.016845	.000274	.000765	.000354	.010827	1.005725	.002833	.018964	.000008	.002039	.028919	.077412	.044096	.020977	.014438	.060568	20.
		21. Eating & Drinking Places	.005366	.010630	.013402	.019842	.000179	.000000	.000039	.016271	.000000	.001098	.247199	.000171	.002241	.010686	.000226	.000756	.000298	.069944	.003993	1.000867	.019502	.002446	.000625	.070984	.031962	.025116	.032045	.014397	.075897	21.
Services	22. All Other Retail	.000005	.000010	.000012	.000018	.000000	.000000	.000022	.000015	.000000	.000472	.000229	.000094	.000019	.038026	.000096	.000275	.000631	.010139	.005932	.000543	1.007210	.000002	.001436	.052578	.024888	.054147	.038556	.005227	.102115	22.	
	23. Agricultural Services	.000013	.000027	.000034	.000050	.073642	.000000	.000064	.000041	.000000	.005388	.000620	.000277	.005948	.003915	.000582	.001748	.000290	.044304	.010816	.002424	.013621	1.006781	.003795	.031857	.302117	.016693	.009695	.020106	.045300	23.	
	24. Lodging	.000045	.000090	.000113	.000167	.000002	.000000	.000095	.000137	.000000	.000560	.002084	.000411	.000130	.007604	.000623	.001888	.000166	.027405	.010081	.008320	.012513	.000021	1.000202	.040888	.007301	.020610	.037027	.045820	.035777	24.	
Utilities	25. All Other Services (Except Professional)	.000008	.000017	.000021	.000031	.000000	.000000	.000037	.000025	.000000	.000498	.000385	.000160	.000048	.011569	.000251	.000744	.000217	.034422	.002264	.001417	.013134	.000004	.000408	1.049707	.023872	.022576	.016067	.016878	.035591	25.	
	26. Transportation	.000042	.000083	.000105	.000155	.000001	.000000	.000072	.000127	.000000	.013441	.001935	.000312	.000189	.002364	.001138	.002489	.000272	.014394	.007409	.007742	.012257	.000019	.012874	.020481	1.064005	.019909	.016440	.002886	.029963	26.	
	27. Electric Energy	.000044	.000087	.000110	.000163	.000001	.000000	.000060	.000133	.000000	.001230	.002027	.000261	.000076	.005226	.000316	.000958	.003266	.022294	.007315	.003800	.022680	.000020	.000768	.042558	.037078	1.052881	.066317	.020645	.243251	27.	
	28. All Other Utilities	.000003	.000006	.000008	.000012	.000000	.000000	.000318	.000009	.000000	.000626	.000144	.001375	.000078	.003372	.000424	.001266	.000090	.023369	.033324	.000514	.013821	.000001	.000475	.075693	.026224	.012649	1.011268	.029579	.065047	28.	
	29. Contract Construction	.000012	.000023	.000029	.000043	.000000	.000000	.002777	.000036	.000000	.014643	.000542	.012022	.003598	.003371	.020121	.061116	.000420	.035959	.014772	.002106	.016539	.000005	.000535	.025685	.028981	.017643	.012307	1.495990	.054678	29.	
30. Rentals & Finance	.000007	.000013	.000017	.000025	.000000	.000000	.000022	.000020	.000000	.000246	.000307	.000096	.000029	.006784	.000147	.000438	.000107	.002395	.001643	.001187	.004962	.000003	.001186	.016058	.010394	.006686	.010701	.010133	1.048790	30.		

Note: Each entry shows the total dollar production directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND
LOWER MAIN STEM SUB-BASIN-2010-CONSTRAINED FOR WATER QUALITY
Table-2010-QC-C

		Industry Purchasing																																											
Industry Producing		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38						
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetables	Citrus Crops	Forestry	All Other Agriculture	Uranium	Copper	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Furniture & Fixtures	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services Ex. Pro.	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output						
Agriculture	1. Range Livestock	0	41,150	0	0	0	0	0	0	0	0	0	0	1,062	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,381	45,592				
	2. Feeder Livestock	0	0	0	1,608	0	0	192	0	0	0	0	0	83,859	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,930	115,589		
	3. Dairy	0	0	941	574	0	0	95	0	0	0	0	0	67,405	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,381	72,392		
	4. Forage, Feed & Food Crops	2,736	20,806	29,970	57	0	0	0	0	2,799	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,066	57,433	
	5. Cotton	0	0	0	0	215	0	0	0	0	0	0	0	37,683	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176,901	214,799	
	6. Vegetables	0	0	0	0	0	78	0	0	0	0	0	0	2,123	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75,827	78,028	
	7. Citrus Crops	0	0	0	0	0	0	11	0	0	0	0	0	3,715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,553	11,280	
	8. Forestry	0	0	0	0	0	0	0	0	0	0	0	0	0	2,100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,100	2,100
	9. All Other Agriculture	0	0	0	0	0	0	0	0	67	0	0	0	4,777	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,336	0	0	0	0	0	0	0	0	0	0	0	14,031	22,211		
10. Uranium	0	0	0	0	0	0	0	0	0	12	0	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	614	790			
11. Copper	0	0	0	0	0	0	0	0	0	0	4	13,178	328	0	0	0	0	0	421,903	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,852	439,262	
12. All Other Mining	0	0	0	0	0	0	0	0	0	0	4,393	24,637	0	0	0	0	0	8,984	33,752	0	4,605	0	0	19,324	1,427	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,852	439,262	
13. Food & Kindred Products	729	5,895	2,606	0	3,652	0	102	0	4,464	0	4,393	0	20,169	0	0	0	0	603	104	0	0	0	0	19,324	1,427	0	0	52,428	0	0	774	6,488	408	0	0	22,252	0	47,231	165,730						
14. Lumber & Wood Products	0	0	0	0	0	0	0	0	0	6	1,318	821	0	933	908	7,828	0	1,205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	436,161	546,816				
15. Furniture & Fixtures	0	0	0	0	0	0	0	0	0	0	0	0	0	933	908	7,828	0	1,205	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35,959	67,406			
16. Paper & Pulp	0	0	0	0	0	0	0	0	44	0	0	0	5,308	58	807	1,677	0	0	0	6,219	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,942	22,479		
17. Chemicals	0	0	0	2,872	6,444	5,306	688	0	200	4	8,785	3,121	531	58	0	22	786	603	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,216	23,142			
18. Primary Metals	0	0	0	0	0	0	0	0	0	0	439	2,464	0	0	0	0	0	6,027	0	7,073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12,159	62,410		
19. Printing & Publishing	0	0	0	0	0	0	23	0	0	3	3,514	1,642	4,777	175	202	134	337	3,616	1,969	658	37	5	703	5,707	923	2,432	1,906	0	0	0	0	0	0	0	0	0	0	0	0	0	579,450	604,014			
20. Fabricated Metals	0	0	0	0	0	0	0	0	0	12	3,953	2,792	0	350	0	0	0	1,808	311	8,388	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49,474	105,854			
21. Textiles & Apparel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20,562	20,709		
22. Leather & Leather Goods	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	847	884			
23. Stone, Clay & Glass	0	0	0	57	1,933	156	34	0	44	8	3,953	1,642	4,777	233	242	45	449	7,233	622	3,947	166	2	527	103,444	101,558	0	0	1,499	0	0	0	0	0	0	0	0	0	0	0	0	18,063	179,932			
24. All Other Manufacturing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	451,765	759,439		
25. Wholesale Trade	137	809	434	804	3,652	1,014	102	6	311	2	3,953	2,464	15,392	1,050	484	0	225	603	1,058	3,783	92	0	1,581	2,854	12,002	1,106	30,027	46,465	413	4,628	18,569	6,848	1,223	8,876	10,144	22,252	4,081	736,362	1,018,322						
26. Service Stations	547	231	579	804	2,363	780	90	42	111	2	1,757	657	531	117	40	22	0	603	829	329	92	0	176	2,140	923	553	477	1,499	1,835	2,645	10,832	1,442	0	8,876	7,417	0	76,176	125,516							
27. Eating & Drinking Places	0	0	0	0	0	0	0	0	0	1	0	821	531	58	20	201	112	603	207	329	37	0	176	713	1,847	442	4,766	4,497	92	2,149	1,547	2,163	1,631	1,268	2,472	5,441	451,038	483,162							
28. All Other Retail	182	2,890	1,375	2,470	11,384	3,277	316	21	2,732	9	2,196	3,285	2,123	1,808	81	0	225	606	1,244	1,316	221	0	1,406	2,354	28,621	774	4,766	14,989	413	2,810	11,606	2,883	5,311	5,706	22,252	8,162	1,523,892	1,674,206							
29. Agricultural Services	0	925	0	4,824	35,442	156	3,880	0	444	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	200	45,871				
30. Lodging	0	0	0	0	0	0	0	0	0	1	2,196	1,478	531	58	20	45	56	603	311	329	18	0	0	713	11,079	221	0	1,499	0	0	774	1,081	408	3,170	0	0	0	0	139,330	165,282					
31. All Other Services (Except Professional)	0	0	0	57	215	78	23	0	22	8	8,785	3,285	9,023	1,866	161	201	1,348	3,014	2,280	3,947	166	19	5,270	5,707	27,698	2,543	34,317	47,964	734	11,735	33,270	10,452	1,223	29,164	22,252	12,243	532,339	811,409							
32. Transportation	547	2,081	2,172	1,608	2,578	2,419	11	36	200	16	18,449	11,497	15,923	3,208	787	1,342	1,179	17,479	2,902	2,632	148	4	12,121	12,128	64,628	5,638	6,673	49,463	3,394	826	10,058	11,173	4,892	6,974	12,362	1,360	71,516	360,423							
33. Electric Energy	274	231	652	517	2,578	1,248	271	0	178	47	8,346	9,033	4,777	1,458	464	335	898	16,273	1,866	2,961	249	9	2,986	11,415	56,319	4,754	5,243	35,973	367	661	9,285	3,604	63,183	3,170	2,472	9,523	154,428	416,038							
34. All Other Utilities	137	116	145	57	859	78	11	0	67	12	8,785	4,599	3,185	875	363	403	505	9,644	1,762	2,303	148	11	2,108	6,421	17,542	3,759	5,532	34,474	1,147	6,281	13,153	11,894	13,859	8,876	7,417	14,964	464,209	649,698							
35. Contract Construction	0	0	0	0	0	0	0	0	0	40	4,393	1,971	4,777	467	605	559	2,246	12,657	3,628	4,605	572	20	2,284	7,134	48,009	6,080	14,299	56,957	2,798	6,777	30,949	18,021	21,197	25,360	933,083	1,361,304	38,090	38,090							
36. Rentals & Finance	5,517	2,427	1,520	1,723	10,740	2,185	1,455	57	555	20	2,196	27,922	16,984	2,625	605	559	2,246	12,657	3,628	4,605	572	20	2,284	7,134	48,009	6,080	14,299	56,957	2,798	6,777	30,949	18,021	21,197	25,360	933,083	1,361,304	38,090	38,090							
37. Final Payments	34,786	35,028	31,998	39,401	132,744	61,253	3,981	1,938	9,973	551	332,963	57,																																	

Note: Each row shows sales by the industry at the left to all industries listed at the top of the table. Each column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

Industry Purchasing	Industry Producing																																				
	1 Range Livestock	2 Feeder Livestock	3 Dairy	4 Forage, Feed & Food Crops	5 Cotton	6 Vegetables	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	11 Copper	12 All Other Mining	13 Food & Kindred Products	14 Lumber & Wood Products	15 Furniture & Fixtures	16 Paper & Pulp	17 Chemicals	18 Primary Metals	19 Printing & Publishing	20 Fabricated Metals	21 Textiles & Apparel	22 Leather & Leather Goods	23 Stone, Clay & Glass	24 All Other Manufacturing	25 Wholesale Trade	26 Service Stations	27 Eating & Drinking Places	28 All Other Retail	29 Agricultural Services	30 Lodging	31 All Other Services (Ex. Pro.)	32 Transportation	33 Electric Energy	34 All Other Utilities	35 Contract Construction	36 Rentals & Finance	
Agriculture	1.001642	.004514	.002888	.062190	.001246	.000070	.000123	.000007	.000164	.000001	.000062	.000826	.017538	.000198	.000000	.000337	.003334	.000083	.001431	.000797	.000000	.000000	.000552	.002953	.006459	.013538	.000865	.008806	.005511	.000186	.003810	.017612	.011150	.006873	.008244	.131804	1.
	.361658	1.015549	.010013	.208923	.004360	.000246	.000430	.000015	.000561	.000002	.000133	.002316	.061342	.000413	.000001	.000925	.011048	.000177	.001852	.001394	.000000	.000000	.000659	.006714	.016704	.011116	.001044	.039225	.026553	.000634	.006951	.038045	.013114	.008230	.007177	.085254	2.
	.006637	.018414	1.022747	.427605	.002895	.000163	.000285	.000013	.000375	.000004	.000184	.004394	.040733	.000357	.000001	.000742	.022116	.000243	.001850	.001731	.000000	.000000	.000608	.008318	.017865	.016521	.001103	.041651	.036650	.000699	.007793	.053848	.021909	.009436	.005516	.050629	3.
	.010265	.028816	.010654	1.011229	.000225	.000013	.000022	.000008	.000637	.000010	.000256	.009976	.003170	.000230	.000001	.000316	.051695	.000326	.001792	.001676	.000000	.000000	.000695	.008385	.019438	.018549	.001208	.048142	.085219	.000739	.009401	.043577	.018641	.009243	.005362	.051074	4.
	.001123	.063049	.002461	.001660	1.002350	.000076	.000133	.000011	.000182	.000006	.000287	.006147	.018988	.000307	.000001	.000512	.031034	.000380	.002041	.001648	.000000	.000000	.000824	.017700	.023625	.018537	.001441	.058138	.165601	.000795	.011181	.032894	.023108	.014561	.007108	.074415	5.
	.000058	.000157	.000127	.000086	.000070	1.001005	.000007	.000008	.000016	.000014	.000303	.013325	.000978	.000231	.000001	.000265	.069489	.000382	.001565	.001617	.000000	.000000	.000729	.009073	.016873	.010697	.000997	.044890	.002025	.000705	.007750	.038918	.025473	.006832	.004530	.074508	6.
	.006837	.019138	.009740	.007911	.000854	.000048	1.001085	.000015	.000125	.000012	.000316	.012251	.012014	.000419	.000001	.000607	.062966	.000403	.005146	.001928	.000000	.000000	.000164	.010961	.017701	.023140	.002342	.036403	.345334	.000942	.016645	.036495	.040275	.018018	.012157	.017345	7.
	.000026	.000072	.000058	.000039	.000032	.000002	.000003	1.000002	.000007	.000000	.000039	.000093	.000445	.000066	.000000	.000117	.000058	.000053	.000813	.000581	.000000	.000000	.000194	.002186	.004355	.020286	.000399	.010882	.000010	.000217	.002133	.019559	.002293	.002235	.002736	.031093	8.
	.013969	.038032	.029108	.146506	.015251	.000859	.001504	.000068	1.004957	.000004	.000233	.003750	.214584	.001894	.000001	.004969	.017848	.000312	.003402	.002217	.000000	.000000	.0001236	.013079	.030531	.010287	.001558	.137657	.035745	.001099	.014968	.034702	.023464	.013379	.009767	.037928	9.
	.000067	.000183	.000148	.000101	.000081	.000005	.000008	.000292	.000026	1.015244	.001009	.015656	.001139	.008121	.000002	.000532	.006038	.001353	.005919	.020286	.000000	.000000	.053741	.019316	.009315	.003322	.002191	.015712	.000027	.001736	.018458	.030843	.078080	.022854	.073720	.041732	10.
Mining	.000730	.001982	.001600	.001079	.000877	.000049	.000086	.000135	.000119	.000016	1.032433	.015639	.012342	.003755	.000006	.000976	.021940	.002041	.010315	.012169	.000000	.000000	.007899	.019223	.014393	.005635	.001018	.008711	.000283	.005978	.028465	.051471	.029003	.026823	.017891	.019464	11.
	.000217	.000590	.000476	.000328	.000261	.000015	.000026	.000253	.000094	.001206	.016517	1.187828	.003671	.007023	.000013	.001424	.024158	.019494	.016223	.025715	.000000	.000000	.031349	.029927	.027922	.007222	.008678	.031250	.000086	.012236	.040178	.098219	.088640	.047960	.036744	.229992	12.
	.062691	.170145	.137348	.092549	.075311	.004243	.007425	.000166	.009582	.000003	.000309	.002531	1.059664	.004622	.000002	.012429	.009556	.000421	.011561	.002343	.000000	.000000	.002805	.023138	.041105	.007699	.002357	.025131	.024316	.002078	.026546	.054388	.023612	.014810	.019573	.071032	13.
	.000104	.000282	.000228	.000156	.000125	.000007	.000012	.036614	.000032	.000004	.000465	.003771	.001758	1.017048	.000002	.001660	.001893	.000633	.005009	.008994	.000000	.000000	.022051	.015242	.024366	.004253	.002275	.035946	.000041	.001897	.041674	.065707	.036557	.022771	.017273	.061331	14.
	.000097	.000264	.000213	.000146	.000117	.000007	.000012	.002379	.000033	.000001	.000296	.000582	.001643	.066073	1.072964	.047505	.000579	.000409	.012814	.002177	.000000	.000000	.001955	.025152	.030683	.003527	.002550	.009602	.000038	.002099	.017608	.054915	.037104	.027051	.005615	.047647	15.
	.000201	.000546	.000441	.000307	.000242	.000014	.000024	.013865	.000112	.000002	.000316	.001867	.003401	.385142	.000004	1.082421	.002149	.000432	.009717	.005079	.000000	.000000	.008666	.015081	.012764	.003720	.011525	.015669	.000081	.003377	.031291	.039315	.035594	.032918	.010066	.059030	16.
	.000092	.000250	.000202	.000139	.000111	.000006	.000011	.000051	.000043	.000196	.002833	.193047	.001556	.001417	.000004	.000801	1.018662	.003374	.009869	.005169	.000000	.000000	.005540	.018273	.011061	.002010	.004063	.010984	.000037	.003362	.034952	.040180	.035985	.020338	.011147	.084616	17.
	.000653	.001773	.001432	.000967	.000785	.000044	.000077	.000197	.000120	.000081	.731264	.079490	.011045	.005481	.000007	.001374	.018235	1.013096	.015325	.014777	.000000	.000000	.012058	.033873	.015456	.006177	.002868	.010853	.000254	.006321	.031410	.074910	.060097	.041712	.028559	.055323	18.
	.000148	.000401	.000324	.000221	.000177	.000010	.000017	.000856	.000048	.000001	.000301	.000857	.002497	.023781	.000004	.066445	.000716	.000414	1.021397	.005080	.000000	.000000	.002670	.014894	.020907	.009493	.003583	.015947	.000058	.003892	.030339	.039518	.028186	.024218	.013582	.048896	19.
	.000104	.000281	.000227	.000156	.000125	.000007	.000012	.000027	.000038	.000040	.033986	.039129	.001752	.000761	.000004	.000625	.002272	.046983	.006815	1.056449	.000000	.000000	.002268	.038770	.029017	.003683	.003222	.012644	.000041	.003427	.033438	.028387	.032397	.022502	.009525	.047576	20.
	.000071	.000192	.000155	.000107	.000085	.000005	.000008	.000009	.000028	.000001	.000162	.000499	.001195	.000262	.000001	.000271	.000331	.000223	.002880	.001202	1.007094	.002014	.001204	.013430	.007612	.005610	.002515	.013689	.000028	.001310	.012368	.010889	.017925	.010868	.018307	.036901	21.
	.015690	.042582	.034374	.023163	.018848	.001062	.001858	.000067	.002401	.000001	.000159	.001132	.265204	.001869	.000001	.004666	.002872	.000217	.009770	.001660	.022156	1.000044	.001868	.010537	.012649	.002797	.001021	.007951	.006086	.000780	.003878	.020649	.020738	.019055	.024066	.048258	22.
	.000157	.000427	.000345	.000235	.000189	.000011	.000019	.000046	.000048	.000160	.002392	.157478	.002658	.001270	.000003	.000874	.003991	.002865	.008663	.005776	.000000	.000000	1.206650	.018615	.019104	.003608	.003401	.016787	.000062	.002340	.048742	.102277	.040162	.027120	.011869	.057686	23.
	.000570	.001547	.001249	.000843	.000585	.000039	.000068	.000095	.000100	.000008	.010703	.007453	.009634	.002648	.000002	.003415	.007864	.014810	.010814	.010272	.000000	.000000	.012571	1.174766	.008267	.004434	.001860	.007120	.000221	.001721	.014493	.026296	.026438	.015033	.015760	.021099	24.
	.000201	.000546	.000441	.000300	.000242	.000014	.000024	.000026	.000057	.000002	.001382	.001553	.003398	.000723	.000014	.000853	.001624	.001910	.004364	.004212	.000000	.000000	.002888	.140462	1.020433	.003185	.003814	.036326	.000079	.013065	.041253	.080711	.080521	.029884	.025087	.071159	25.
	.000116	.000316	.000255	.000177	.000140	.000008	.000014	.000034	.000055	.000001	.000222	.000975	.001967	.000955	.000003	.001753	.000654	.000305	.002412	.004065	.000000	.000000	.002234	.009336	.016053	1.006729	.005308	.011015	.000046	.002363	.031534	.057900	.055789	.041486	.036365	.069776	26.
	.007110	.019298	.015567	.011388	.008531	.000481	.000841	.000031	.008184	.000001	.000213	.000993	.120033	.000859	.000002	.001906	.002573	.000292	.007249	.001915	.000000	.000000	.001441	.015998	.073820	.003812	1.011263	.018733	.002973	.001478	.084927	.029029	.024027	.027835	.018908	.051759	27.
	.000085	.000230	.000185	.000128	.000102	.000006	.000010	.000024	.000042	.000000	.000152	.000339	.002067	.000240	.000001	.000455	.000464	.000210	.003423	.002134	.000000	.000000	.000529	.009216	.013574	.041459	.003271	.012052	1.000048	.000809	.023981	.081498	.015458	.032179	.007158	.074422	28.
	.000122	.000332	.000268	.000183	.000147	.000008	.000014	.000009	.000042</																												

Note: Each entry shows the total dollar producing directly and indirectly required from the industry at the top of the table per dollar of deliveries to final demand by the industry at the left.

Industry Purchasing	Industry Producing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
		Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetables	Citrus Crops	Forestry	All Other Agriculture	Uranium	Copper	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Furniture & Fixtures	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	All Other Manufacturing	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agricultural Services	Lodging	All Other Services (Except Professional)	Transportation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance		
Agriculture	1. Range Livestock	1.001668	.004776	.003142	.051387	.001342	.000280	.000220	.000004	.000253	.000005	.000146	.001738	.019962	.000217	.000001	.000581	.005117	.000197	.002312	.001478	.000000	.000000	.001372	.003866	.006974	.013589	.001199	.008684	.006502	.000660	.005058	.019522	.013567	.007762	.009650	.140361	1.	
	2. Feeder Livestock	.349800	1.013729	.009570	.111343	.004265	.000890	.000700	.000009	.000778	.000010	.000249	.003159	.063468	.000443	.000001	.001455	.011145	.000334	.003739	.002046	.000000	.000000	.001438	.007696	.014821	.009326	.001310	.034036	.015778	.000925	.007705	.038099	.013899	.008511	.008257	.089227	2.	
	3. Dairy	.004966	.014272	1.018943	.259641	.002814	.000587	.000462	.000008	.000518	.000019	.000337	.006162	.041879	.000400	.000001	.001193	.024652	.000437	.003627	.002282	.000000	.000000	.001276	.009370	.016356	.012656	.001375	.033083	.024804	.000961	.008380	.051672	.025671	.009709	.006070	.049165	3.	
	4. Forage, Feed & Food Crops	.009931	.028775	.008629	1.006283	.000241	.000050	.000040	.000007	.000065	.000067	.000690	.021873	.003584	.000379	.000001	.000804	.093338	.000825	.004942	.002908	.000000	.000000	.002054	.012453	.019916	.017990	.002162	.047532	.081753	.001390	.013958	.049503	.026380	.012631	.007381	.059239	4.	
	5. Cotton	.001294	.003687	.002995	.001187	1.004478	.000307	.000241	.000009	.000288	.000047	.000731	.015411	.021855	.000484	.000002	.001179	.063710	.000932	.005646	.003024	.000000	.000000	.002284	.023215	.024484	.018364	.002412	.058018	.164951	.001462	.013809	.038983	.032063	.019102	.009351	.083525	5.	
	6. Vegetables	.000081	.000231	.000188	.000076	.000092	1.002023	.000015	.000006	.000033	.000056	.000630	.018226	.001372	.000339	.000001	.000694	.077496	.000766	.004157	.002628	.000000	.000000	.001779	.013653	.017222	.010582	.001688	.045241	.011051	.001189	.012098	.044388	.031975	.009852	.006173	.048632	6.	
	7. Citrus Crops	.006859	.019836	.010318	.004768	.001066	.000222	1.003184	.000010	.000226	.000053	.000671	.017226	.015860	.000539	.000002	.001288	.071168	.000832	.009125	.003346	.000000	.000000	.002809	.015763	.018572	.022872	.003498	.036961	.340791	.001589	.021373	.040382	.046537	.019984	.014398	.176833	7.	
	8. Forestry	.000033	.000095	.000077	.000031	.000038	.000008	.000006	1.000002	.000013	.000001	.000082	.000286	.000561	.000089	.000000	.000255	.000128	.000115	.001563	.000944	.000000	.000000	.000517	.002712	.004537	.021572	.000579	.013154	.003012	.000327	.003857	.022354	.002897	.002852	.003434	.036162	8.	
	9. All Other Agriculture	.014183	.040469	.031257	.122113	.014892	.003109	.002445	.000036	1.006709	.000024	.000584	.007654	.221606	.001875	.000002	.006690	.028441	.000779	.010038	.003840	.000000	.000000	.002847	.020364	.032619	.012645	.002273	.127520	.033655	.001970	.020412	.040811	.042866	.018337	.012894	.068750	9.	
Mining	10. Uranium	.000124	.000353	.000286	.000117	.000140	.000029	.000023	.000099	.000059	1.025736	.002245	.030816	.002089	.005188	.000003	.001297	.012490	.002987	.010817	.032722	.000000	.000000	.068737	.025425	.014604	.004488	.003352	.020815	.000045	.002659	.028869	.048109	.116352	.033401	.091830	.062943	10.	
	11. Copper	.001345	.003831	.003112	.001233	.001526	.000319	.000251	.000079	.000297	.000591	1.045081	.029728	.022710	.004134	.000010	.002295	.023758	.004671	.017632	.022724	.000000	.000000	.012991	.033320	.020955	.011462	.002280	.016119	.000476	.009142	.050642	.078100	.043594	.042559	.029023	.036003	11.	
	12. All Other Mining	.000403	.001147	.000931	.000386	.000457	.000095	.000075	.000128	.000248	.003916	.025171	1.272848	.006796	.006718	.000022	.003704	.034926	.026567	.032786	.037793	.000000	.000000	.054611	.048633	.037467	.012310	.016497	.045544	.000147	.020852	.059157	.140263	.142008	.062536	.055599	.291385	12.	
Manufacturing	13. Food & Kindred Products	.063390	.180635	.146720	.058015	.071954	.015020	.011813	.000089	.012935	.000019	.000850	.006046	1.070719	.004665	.000004	.017321	.016578	.001173	.019652	.005081	.000000	.000000	.005715	.037592	.060436	.009128	.003435	.028700	.022399	.004156	.034732	.071760	.038139	.021085	.027258	.089296	13.	
	14. Lumber & Wood Products	.000167	.000477	.000387	.000160	.000190	.000040	.000031	.019370	.000096	.000022	.001005	.007001	.002825	1.019485	.000005	.003502	.003616	.001388	.009035	.013229	.000000	.000000	.028012	.024041	.029614	.006926	.006180	.045035	.000119	.004574	.053136	.074836	.052900	.031319	.031324	.078319	14.	
	15. Furniture & Fixtures	.000152	.000434	.000352	.000145	.000173	.000036	.000028	.000747	.000079	.000005	.000692	.001539	.002570	.039324	1.072966	.059378	.001186	.000980	.020040	.003393	.000000	.000000	.002665	.037008	.041753	.007680	.004807	.010749	.000057	.004076	.024943	.061937	.050484	.037733	.008249	.060891	15.	
	16. Paper & Pulp	.000306	.000873	.000709	.000301	.000347	.000073	.000057	.000273	.000250	.000010	.000646	.003275	.005169	.277530	.000008	1.089429	.003915	.000902	.015035	.000690	.000000	.000000	.008727	.022193	.013935	.005950	.018665	.015940	.0000129	.007608	.038122	.114476	.058302	.042847	.014547	.073621	16.	
	17. Chemicals	.000190	.000541	.000440	.000184	.000216	.000045	.000035	.000032	.000132	.000722	.005051	.234695	.003208	.001680	.000007	.001951	1.026754	.005485	.017675	.009311	.000000	.000000	.011730	.031060	.017160	.004736	.009297	.019579	.000070	.006614	.047314	.061640	.056196	.030364	.020218	.114953	17.	
	18. Primary Metals	.001171	.003337	.002710	.001078	.001329	.000277	.000218	.000091	.000296	.000312	.715384	.101331	.019778	.004804	.000010	.003104	.020182	1.024272	.025442	.026720	.000000	.000000	.021600	.027944	.023930	.012980	.005742	.020931	.000416	.009298	.051625	.100744	.080879	.058139	.044336	.080723	18.	
	19. Printing & Publishing	.000406	.001156	.000938	.000380	.000460	.000096	.000076	.000411	.000162	.000009	.000767	.002833	.006848	.021615	.000008	.084202	.001349	.001078	1.026750	.010362	.000000	.000000	.007190	.020768	.025086	.012441	.007941	.020628	.000147	.007754	.037344	.048467	.038076	.029760	.020156	.059918	19.	
	20. Fabricated Metals	.000239	.000681	.000553	.000227	.000271	.000057	.000045	.000024	.000130	.000240	.046233	.078022	.004035	.001240	.000004	.000934	.000808	.000673	.007646	.003219	1.014327	.000000	.005072	.003541	.022204	.013332	.009313	.006094	.021173	.000063	.003752	.020507	.017785	.028022	.017346	.024609	.048378	20.
	21. Textiles & Apparel	.000173	.000494	.000401	.000165	.000197	.000041	.000032	.000008	.000096	.000006	.000479	.001789	.002927	.000421	.000002	.007382	.004872	.000607	.014462	.003655	.000000	1.000127	.004131	.016786	.018347	.025358	1.000127	.000129	.000129	.000129	.000129	.000129	.000129	.000129	.000129	.000129	.000129	21.
	22. Leather & Leather Goods	.015881	.045256	.036759	.014536	.018027	.003763	.002960	.000039	.003249	.000009	.000438	.002815	.268254	.002073	.000004	.001885	.006259	.004507	.015083	.009122	.000000	.000000	1.215915	.026572	.021969	.005046	.005113	.021524	.000077	.004073	.057703	.114286	.059800	.035299	.018093	.076119	23.	
	23. Stone, Clay & Glass	.000212	.000605	.000492	.000200	.000241	.000050	.000040	.000028	.000095	.000575	.004120	.187015	.003587	.001450	.000004	.001885	.006259	.004507	.015083	.009122	.000000	.000000	1.215915	.026572	.021969	.005046	.005113	.021524	.000077	.004073	.057703	.114286	.059800	.035299	.018093	.076119	23.	
	24. All Other Manufacturing	.001017	.002897	.002353	.000935	.001154	.000241	.000189	.000098	.000248	.000071	.018182	.022963	.017173	.005137	.000004	.009470	.016330	.025881	.015689	.019277	.000000	.000000	.022411	1.193315	.013670	.006797	.004063	.010936	.000361	.003799	.024347	.037360	.041478	.025337	.019132	.033166	24.	
	25. Wholesale Trade	.000301	.000858	.000697	.000282	.000342	.000071	.000056	.000021	.000118	.000015	.002618	.004779	.005087	.001124	.000018	.002205	.003083	.003716	.008481	.007595	.000000	.000000	.006553	.156227	1.026256	.005249	.005693	.041196	.000108	.016783	.048380	.089873	.088074	.036456	.030285	.079173	25.	
	Trade	26. Service Stations	.000151	.000430	.000349	.000146	.000171	.000036	.000028	.000018	.000100	.000008	.000477	.002541	.000939	.000004	.002681	.000987	.000665	.028597	.006580	.000000	.000000	.005256	.011563	.019231	1.009368	.006867	.012045	.000055	.003314	.034639	.062202	.059651	.045224	.039152	.073450	26.	
27. Eating & Drinking Places		.007442	.021208	.017210	.007915	.008436	.001761	.001385	.000018	.011671	.000007	.000484	.002426	.125528	.000947	.000002	.003033	.000675	.011506	.003692	.000000	.000000	.003430	.020378	.080363	.004554	1.011787	.020473	.002919	.002216	.088727	.034277	.029066	.030978	.022354	.057399	27.		
28. All Other Retail		.000114	.000326	.000264	.000110	.000130	.000027	.000021	.000030	.000069	.000009	.000781	.002831	.001929	.001576	.000003	.00545																						

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Table CRB-LMS-22a

Absolute Changes in Direct Input Requirements Per Dollar
of Output in the Lower Main Stem Sub-Basin

1980 Quality Unconstrained - 1980 Quality Constrained

Industry	Industry Producing
Industry Purchasing	<u>Other Retail</u>
Food & Kindred	.000002
Lumber & Wood	.000013
Chemicals	.000006
Stone, Clay & Glass	.000003
Other Manufacturing	
Wholesale Trade	.000001
Eating & Drinking	
Other Retail	.000001
Lodging	
Other Services	
Electric Energy	.000055
Other Utilities	
Rentals & Finance	

2010 Quality Unconstrained - 2010 Quality Constrained

Industry	Industry Producing
Industry Purchasing	<u>Other Retail</u>
Food & Kindred	.000007
Lumber & Wood	.000051
Chemicals	.000029
Stone, Clay & Glass	.000013
Other Manufacturing	.000001
Wholesale Trade	.000003
Eating & Drinking	.000002
Other Retail	.000003
Lodging	.000011
Other Services	.000003
Electric Energy	.000430
Other Utilities	.000004
Rentals & Finance	.000001

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Table CRB-LMS-22b (1980)
 Absolute Changes in Direct-Indirect Input Requirements
 per Dollar of Output in the Lower Main Stem Sub-Basin
 1980 Quality Unconstrained - 1980 Quality Constrained

Industry Producing	Printing & Publishing	Wholesale Trade	Other Retail	Other Services	Transport- ation	Electric Energy	Other Utilities	Rentals & Finance
Industry Purchasing								
Range Livestock			.000001					
Feeder Livestock			.000002					
Dairy			.000002					
Forage, Feed & Food			.000001					
Cotton			.000001					
Vegetable & Melon			.000002					
Citrus Crops			.000001					
Forestry			.000001					
Other Agriculture			.000001					
Uranium			.000001					
Copper			.000003					
Other Mining			.000003					
Food & Kindred			.000003					
Lumber & Wood	.000001		.000016	.000001		.000001	.000001	.000002
Furniture & Fixtures								
Paper & Pulp								
Chemicals			.000009					.000001
Primary Metals								
Printing & Publishing			.000001					
Fabricated Metals			.000001					
Textiles & Apparel								
Leather & Leather Goods								
Stone, Clay & Glass			.000008					.000001
Other Manufacturing			.000003					
Wholesale Trade			.000003					
Service Stations			.000002					
Eating & Drinking			.000002					
Other Retail			.000004					
Agricultural Services			.000001					
Lodging			.000001					
Other Services			.000001					
Transportation			.000001					
Electric Energy	.000002	.000001	.000058	.000003	.000001	.000003	.000002	.000006
Other Utilities			.000001					
Contract Construction			.000001					
Rentals & Finance								

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Table CRB-LMS-22b (2010)
 Absolute Changes in Direct-Indirect Input Requirements
 per Dollar of Output in the Lower Main Stem Sub-Basin
 2010 Quality Unconstrained - 2010 Quality Constrained

Industry Producing	Printing & Publishing	Wholesale Trade	Service Stations	Other Retail	Lodging	Other Services	Transport- ation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock				.000004							
Feeder Livestock				.000006							.000001
Dairy	.000001			.000016		.000001		.000001	.000001		.000002
Forage, Feed & Food	.000001			.000014		.000001		.000001	.000001		.000001
Cotton				.000009							.000001
Vegetable & Melon	.000001			.000014		.000001		.000001	.000001		.000001
Citrus Crops	.000001			.000014		.000001		.000001	.000001		.000001
Forestry				.000001							
Other Agriculture				.000010		.000001		.000001			.000001
Uranium	.000001			.000015		.000001		.000001	.000001		.000002
Copper											
Other Mining	.000001			.000023		.000001	.000001	.000001	.000001		.000002
Food & Kindred	.000001			.000017		.000001		.000001	.000001		.000002
Lumber & Wood	.000003	.000001		.000071		.000004	.000002	.000004	.000003		.000007
Furniture & Fixtures											
Paper & Pulp											
Chemicals	.000002	.000001		.000053		.000003	.000001	.000003	.000002		.000005
Primary Metals											
Printing & Publishing				.000009							.000001
Fabricated Metals				.000011		.000001		.000001			.000001
Textiles & Apparel											
Leather & Leather Goods											
Stone, Clay & Glass	.000002	.000001		.000056		.000003	.000001	.000003	.000002		.000006
Other Manufacturing	.000001			.000025		.000001	.000001	.000001	.000001		.000003
Wholesale Trade	.000001			.000018		.000001		.000001	.000001		.000002
Service Stations	.000001			.000019		.000001		.000001	.000001		.000002
Eating & Drinking	.000001			.000015		.000001		.000001	.000001		.000002
Other Retail	.000001			.000027		.000001	.000001	.000001	.000001		.000003
Agricultural Services				.000008							.000001
Lodging	.000001			.000021		.000001	.000001	.000001	.000001		.000002
Other Services				.000013		.000001		.000001	.000001		.000001
Transportation				.000009							.000001
Electric Energy	.000017	.000005	.000003	.000457	.000001	.000024	.000011	.000025	.000017	.000002	.000046
Other Utilities				.000010		.000001		.000001			.000001
Contract Construction				.000010				.000001			.000001
Rentals & Finance				.000004							

per me

Table CRB-G-22a
Absolute Changes in Direct Input Requirements Per Dollar
of Output in the Gila Sub-Basin

1980 Quality Unconstrained - 1980 Quality Constrained

Industry Purchasing	Industry Producing	Other Retail
Lumber & Wood	.000004	
Printing & Publishing		
Chemicals	.000002	
Primary Metals	.000006	
Stone, Clay & Glass	.000002	
Lodging	.000001	
Electric Energy	.000029	

2010 Quality Unconstrained - 2010 Quality Constrained

Industry Purchasing	Industry Producing	Other Retail
Lumber & Wood	.000005	
Printing & Publishing	.000001	
Chemicals	.000003	
Primary Metals	.000007	
Stone, Clay & Glass		
Lodging	.000001	
Electric Energy	.000062	

Table CRB-G-22b (1980)

Absolute Changes in Direct-Indirect Input Requirements
per Dollar of Output in the Gila Sub-Basin
1980 Quality Unconstrained - 1980 Quality Constrained

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Industry Producing	Other Retail	Rentals & Finance
Industry Purchasing		
Range Livestock		
Feeder Livestock		
Dairy	.000001	
Forage, Feed & Food	.000001	
Cotton	.000001	
Vegetables	.000001	
Citrus Crops	.000001	
Forestry		
Other Agriculture	.000001	
Uranium	.000002	
Copper	.000001	
Other Mining	.000003	
Food & Kindred	.000001	
Lumber & Wood	.000005	
Furniture & Fixtures	.000001	
Paper & Pulp	.000003	
Chemicals	.000003	
Primary Metals	.000008	
Printing & Publishing	.000001	
Fabricated Metals	.000001	
Textiles & Apparel	.000001	
Leather & Leather Goods	.000001	
Stone, Clay & Glass	.000004	
Other Manufacturing	.000001	
Wholesale Trade	.000002	
Service Stations	.000002	
Eating & Drinking	.000001	
Other Retail	.000001	
Agricultural Services		
Lodging	.000001	
Other Services	.000001	
Transportation	.000001	
Electric Energy	.000035	.000002
Other Utilities		
Contract Construction	.000001	
Rentals & Finance		

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Table CRB-G-22b (2010).
 Absolute Changes in Direct-Indirect Input Requirements
 per Dollar of Output in the Gila Sub-Basin
 2010 Quality Unconstrained - 2010 Quality Constrained

Industry	Printing & Publishing	Fabricated Metals	Other Manufacturing	Wholesale Trade	Other Retail	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Producing											
Industry Purchasing											
Range Livestock					.000001						
Feeder Livestock					.000001						
Dairy					.000002						
Forage, Feed & Food					.000002						
Cotton					.000002						
Vegetables					.000002						
Citrus Crops					.000003						
Forestry											
Other Agriculture					.000003						
Uranium					.000008						
Copper					.000003						
Other Mining					.000009						
Food & Kindred					.000003						
Lumber & Wood					.000009						
Furniture & Fixtures					.000003						
Paper & Pulp					.000006						
Chemicals					.000007						
Primary Metals					.000013	.000001	.000001				.000001
Printing & Publishing											.000003
Fabricated Metals											.000004
Textiles & Apparel											.000002
Leather & Leather Goods											.000002
Stone, Clay & Glass					.000006						
Other Manufacturing					.000003						
Wholesale Trade					.000006						
Service Stations					.000004						
Eating & Drinking					.000002						
Other Retail					.000002						
Agricultural Services					.000001						
Lodging					.000002						
Other Services					.000002						
Transportation					.000002						
Electric Energy	.000003	.000001	.000001	.000001	.000076	.000003	.000003	.000003	.000002	.000002	.000004
Other Utilities					.000001						
Contract Construction					.000002						
Rentals & Finance					.000001						

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Table CRB-LMS-23a (1960-1980)
 Absolute Changes in Direct Input Requirements Per Dollar of Output
 Greater Than or Equal to \$0.003, for the Lower Main Stem Sub-Basin
 1960 Quality Unconstrained - 1980 Quality Constrained

Industry Producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Fabricated Metals	Stone, Clay & Glass
Industry Purchasing													
Range Livestock													
Feeder Livestock	-.109			-.003									
Dairy				-.005					.005				
Forage, Feed & Food											.017		
Cotton											.007		
Vegetable & Melon											.019		
Citrus Crops											.010		
Forestry													
Other Agriculture				.004					.004				
Uranium						.010	.003						
Other Mining										.004			.004
Food & Kindred		.004	-.038	.004		.004							
Lumber & Wood					-.013					.004			
Chemicals								.010					
Fabricated Metals													
Stone, Clay & Glass								.006			.005		
Other Manufacturing													
Wholesale Trade													
Eating & Drinking									.008				
Electric Energy													
Contract Construction												.004	.003

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Table CRB-LMS-23a (1960-1980) - Continued
 Absolute Changes in Direct Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003, for the Lower Main Stem Sub-Basin
 1960 Quality Unconstrained - 1980 Quality Constrained (Cont'd)

Industry Producing	Other Manufacturing	Wholesale Trade	Agricultural Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing									
Range Livestock	.006				.014				.003
Feeder Livestock					.025				
Dairy			.014	-.012	.004	.005			.006
Forage, Feed & Food			.006		.004	.010			.006
Cotton			.006		.003				.004
Vegetable & Melon			.008		-.029	.006			.004
Citrus Crops		.005	.004		.008	.009			.005
Forestry				-.068	.013				.006
Other Agriculture	.011		.006			.005			.004
Uranium					.004	.005		.005	
Other Mining	-.003				.004	.004			
Food & Kindred				.003					
Lumber & Wood					.006				.005
Chemicals									.003
Fabricated Metals							.003		
Stone, Clay & Glass						.007			.003
Other Manufacturing	.003					.003			
Wholesale Trade				.003	.005				.004
Eating & Drinking									
Electric Energy									.003
Contract Construction								.004	

Table CRB-LMS-23a (1980-2010)

Absolute Changes in Direct Input Requirements per Dollar of Output
Greater Than or Equal to \$0.003 for the Lower Main Stem Sub-Basin
1980 Quality Constrained - 2010 Quality Constrained

Industry Purchasing	Industry Producing											
	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Printing & Publishing
Range Livestock	-.003			-.003					.010			
Feeder Livestock	-.032			-.004								
Dairy				-.007					.004			
Forage, Feed & Food											.026	
Cotton											.005	
Vegetable & Melon											.026	
Citrus Crops								.004			.005	
Forestry												
Other Agriculture				.005					.004		.005	
Uranium							.005				.003	
Other Mining										.003		.003
Food & Kindred	.006	.005	-.028	.003		.003			.003			
Lumber & Wood					-.006							
Chemicals								.009				
Printing & Publishing												
Fabricated Metals												
Stone, Clay & Glass											.008	
Other Manufacturing								.004				
Wholesale Trade												
Service Stations												
Other Retail												
Transportation												
Electric Energy												

Table CRB-LMS-23a (1980-2010) - Continued

Absolute Changes in Direct Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Lower Main Stem Sub-Basin
 1980 Quality Constrained - 2010 Quality Constrained (Cont'd)

Industry Producing	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Other Retail	Agriculture Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing												
Range Livestock		-.006				.004						.003
Feeder Livestock						.003		.006				.004
Dairy								.005	.006			.004
Forage, Feed & Food						.006			.005			.005
Cotton						.003						.004
Vegetable & Melon						.005			.003			.004
Citrus Crops						.003		.003	.004			.005
Forestry				.003				.003				.003
Other Agriculture				.003		.005			.003			.003
Uranium					.005		.003	.003	.004			.005
Other Mining	.003	.006	.003		.003			.003			.003	
Food & Kindred									.003			
Lumber & Wood					.003							
Chemicals							.016		.003			.005
Printing & Publishing									.004			
Fabricated Metals									.003			.004
Stone, Clay & Glass									.011	.004		.003
Other Manufacturing		.003					.003	.004				
Wholesale Trade								.005				
Service Stations									.003			
Other Retail									.004			.004
Transportation												.003
Electric Energy												.003

Table CRB-LMS-23b (1960-1980)

Absolute Changes in Direct-Indirect Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Lower Main Stem Sub-Basin
 1960 Quality Unconstrained - 1980 Quality Constrained

Industry Purchasing	Range Livestock Feeder Livestock Dairy	Forage, Feed & Food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Printing & Publishing	Fabricated Metals
Range Livestock											
Feeder Livestock	-.121										
Dairy		-.008									
Forage, Feed & Food											
Cotton											
Vegetable & Melon											
Citrus Crops											
Forestry											
Other Agriculture											
Uranium											
Other Mining											
Food & Kindred											
Lumber & Wood											
Chemicals											
Fabricated Metals											
Stone, Clay & Glass											
Other Manufacturing											
Wholesale Trade											
Eating & Drinking											
Other Retail											
Agriculture Services											
Other Services											
Transportation											
Electric Energy											
Contract Construction											

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Table CRB-LMS-23b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Lower Main Stem Sub-Basin
 1960 Quality Unconstrained - 1980 Quality Constrained (Cont'd)

Industry Producing	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Other Retail	Agriculture Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock		.007						.018				.005
Feeder Livestock					-.005			.030	.004			.005
Dairy			.003					.011	.010	.003		.013
Forage, Feed & Food								.007	.012			.010
Cotton						.006		.006	.003			.006
Vegetable & Melon				.007		.007		-.025	.007			.008
Citrus Crops			.007			.005	.003	.014	.011			.010
Forestry							-.070	.013				.004
Other Agriculture						.007		.003	.006			.006
Uranium					.005		.006	.008	.009	.005	.013	.007
Other Mining	.004		.004				.004	.007	.006		.004	.006
Food & Kindred								.004	.004			.004
Lumber & Wood					.003		-.017	.011				.007
Chemicals	.004							.003	.004			.007
Fabricated Metals							.004	.004		.004		.004
Stone, Clay & Glass	.004				.004		.005	.006	.010		.004	.009
Other Manufacturing		.003	.004				.003	.006	.005			.006
Wholesale Trade							.004	.006	.004			.006
Eating & Drinking							.004	.003				.003
Other Retail												
Agriculture Services								.004				
Other Services												
Transportation												.003
Electric Energy						.003	.003					.005
Contract Construction	.005						.006	.006	.003	.009		.005

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Table CRB-LMS-23b (1980-2010)
 Absolute Changes in Direct-Indirect Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Lower Main Stem Sub-Basin
 1980 Quality Constrained - 2010 Quality Constrained

Industry Producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Forestry	Other Agriculture	Uranium	Other Mining	Food & Kindred	Lumber & Wood	Chemicals	Printing & Publishing
Industry Purchasing												
Range Livestock	-.003								.011			
Feeder Livestock	-.036			-.005							.004	
Dairy			-.007	-.006					.004		.007	
Forage, Feed & Food								.007			.027	
Cotton											.005	
Vegetable & Melon								.007			.027	
Citrus Crops								.006			.005	
Forestry												
Other Agriculture				.005					.004		.006	
Uranium							.010	.005		.004	.005	
Other Mining								.003		.004		.044
Food & Kindred	-.006	.005	-.030	-.004		.003						
Lumber & Wood					-.006							
Chemicals								.011				
Printing & Publishing												
Fabricated Metals												
Stone, Clay & Glass								.006			.009	
Other Manufacturing								.006				
Wholesale Trade												
Service Stations												
Eating & Drinking			-.007									
Other Retail												
Lodging												
Transportation												
Electric Energy												
Contract Construction												

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Table CRB-LMS-23b (1980-2010) - Continued
 Absolute Changes in Direct-Indirect Input Requirements Per Dollar of Output
 Greater Than or Equal to \$0.003 for the Lower Main Stem Sub-Basin
 1980 Quality Constrained - 2010 Quality Constrained (Cont'd)

Industry Producing	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade	Service Stations	Other Retail	Agriculture Services	Other Services	Transportation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing												
Range Livestock		-.007				.005						.005
Feeder Livestock						.004		.008				.006
Dairy						.004	.004	.009	.010	.004		.010
Forage, Feed & Food						.006	.004	.005	.008			.009
Cotton						.003	.003	.003	.003			.006
Vegetable & Melon						.006	.004	.005	.006			.009
Citrus Crops						.003	.004	.006	.007			.009
Forestry								.004				.004
Other Agriculture				.004		.006	.003	.004	.005	.003		.007
Uranium	.004		.004		.008		.007	.007	.008	.004	.006	.012
Other Mining	.004	.006	.004		.004		.004	.005	.004	.003	.006	.006
Food & Kindred							.003	.003	.005			.005
Lumber & Wood					.004		.004	.004	.003			.005
Chemicals		.004					.019	.005	.006	.004		.010
Printing & Publishing									.005			.003
Fabricated Metals							.003	.003	.004			.006
Stone, Clay & Glass	.004				.004		.006	.005	.014	.006	.004	.010
Other Manufacturing		.004			.004		.005	.006	.004	.003		.004
Wholesale Trade							.003	.006				
Service Stations									.004			
Eating & Drinking							.004					.003
Other Retail									.005			.006
Lodging											.003	
Transportation												.004
Electric Energy							.004	.003				.005
Contract Construction	.003						.004		.003			.004

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Table CRB-G-23a (1960-1980)

Absolute Changes in Direct Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Gila Sub-Basin
 1960 Quality Unconstrained - 1980 Quality Constrained

Industry Producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining
Industry Purchasing												
Range Livestock												
Feeder Livestock	-.011			-.018								
Dairy			-.017									
Forage, Feed & Food												
Cotton												
Vegetables												
Citrus Crops												
Forestry												
Other Agriculture			-.008					.003				
Uranium										.015		.005
Copper											.012	.006
Other Mining												
Food & Kindred		.006		-.005		.005						
Lumber & Wood							-.033					
Furniture & Fixtures												
Paper & Pulp												
Chemicals												.010
Primary Metals										-.074		.009
Printing & Publishing												
Fabricated Metals												.028
Textiles & Apparel												
Leather & Leather Goods												
Stone, Clay & Glass												
Other Manufacturing												
Wholesale Trade												
Service Stations												
Eating & Drinking												
Other Retail												
Agricultural Services												
Lodging												
Other Services												
Transportation												-.009
Electric Energy												
Other Utilities												
Contract Construction												
Rentals & Finance												

Table CRB-G-23a (1960-1980) - Continued

Absolute Changes in Direct Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Gila Sub-Basin
 1960 Quality Unconstrained - 1980 Quality Constrained (Cont'd)

Industry Producing	Food & Kindred	Lumber & Wood	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade
Industry Purchasing												
Range Livestock	.003											
Feeder Livestock	.005											
Dairy	.004											
Forage, Feed & Food				.030								
Cotton	.017			.015						.009		
Vegetables				.011								
Citrus Crops				.013						.003		
Forestry												
Other Agriculture	.009											.020
Uranium		-.004		.005		.009			.008	.010		
Copper				.006	.005					.007		
Other Mining	.048			.005	.007	.005			.010			
Food & Kindred	.013		.009		.008					.008	.026	
Lumber & Wood		.005										
Furniture & Fixtures		-.005	.016							.005	.004	
Paper & Pulp		-.094	.008									
Chemicals				.008						.004		
Primary Metals				.010	.004					.008		
Printing & Publishing			.044									
Fabricated Metals				.023		.021				.010	.007	
Textiles & Apparel							.007			.008		
Leather & Leather Goods	.011											
Stone, Clay & Glass									.018			
Other Manufacturing	.006			.006	.007	.004			.007	.010		
Wholesale Trade										.099		
Service Stations												
Eating & Drinking	.006											
Other Retail					-.028	.004						.023
Agricultural Services												
Lodging												.003
Other Services												.004
Transportation										.004		
Electric Energy										.005		
Other Utilities										.005	.004	
Contract Construction		-.003				.008			.013			
Rentals & Finance												

Table CRB-G-23a (1960-1980) - Continued

Absolute Changes in Direct Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Gila Sub-Basin
 1960 Quality Unconstrained - 1980 Quality Constrained (Cont'd)

Industry Producing	Service Stations	Eating & Drinking	Other Retail	Agricultural Services	Lodging	Other Services	Transport- ation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing											
Range Livestock						.012					.009
Feeder Livestock						.018					
Dairy											.004
Forage, Feed & Food								.005			.004
Cotton											
Vegetables											
Citrus Crops											
Forestry											
Other Agriculture											
Uranium											
Copper											
Other Mining											
Food & Kindred											
Lumber & Wood											
Furniture & Fixtures											
Paper & Pulp											
Chemicals											
Primary Metals											
Printing & Publishing											
Fabricated Metals											
Textiles & Apparel											
Leather & Leather Goods											
Stone, Clay & Glass											
Other Manufacturing											
Wholesale Trade											
Service Stations											
Eating & Drinking											
Other Retail											
Agriculture Services											
Lodging											
Other Services											
Transportation											
Electric Energy											
Other Utilities											
Contract Construction											
Rentals & Finance											

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Table CRB-G-23a (1980-2010)

Absolute Changes in Direct Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Gila Sub-Basin
 1980 Quality Constrained - 2010 Quality Constrained

Industry Purchasing \ Industry Producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining
Range Livestock			-.010									
Feeder Livestock	-.011		-.090									
Dairy			-.161									
Forage, Feed & Food												
Cotton												
Vegetables												
Citrus Crops												
Forestry												
Other Agriculture			-.017									
Uranium										.010		.005
Copper											.010	.007
Other Mining											.003	.050
Food & Kindred		.009	.008		-.004	.010	.004		.003			
Lumber & Wood								-.017				
Furniture & Fixtures												
Paper & Pulp												
Chemicals												
Primary Metals											.030	.004
Printing & Publishing												
Fabricated Metals												.023
Textiles & Apparel												
Leather & Leather Goods												
Stone, Clay & Glass												.011
Other Manufacturing												.006
Wholesale Trade												
Service Stations												
Eating & Drinking									.003			
Other Retail												
Agricultural Services												
Lodging												
Other Services												
Transportation												
Electric Energy												
Other Utilities												
Contract Construction												.010
Rentals & Finance												

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Table CRB-G-23a (1980-2010) - Continued

Absolute Changes in Direct Input Requirements per Dollar of Output
 Greater Than or Equal to \$0.003 for the Gila Sub-Basin
 1980 Quality Constrained - 2010 Quality Constrained (Cont'd)

Industry Purchasing \ Industry Producing	Food & Kindred	Lumber & Wood	Furniture & Fixtures	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing
Range Livestock												
Feeder Livestock												
Dairy												
Forage, Feed & Food				.040								
Cotton				.031								
Vegetables				.007								
Citrus Crops	.003			.007								
Forestry												
Other Agriculture	.004			.005								
Uranium		-.003		.005			.005			.005		
Copper	.008					.004	.006					.006
Other Mining				.006	.003	.008	.003			.010		.005
Food & Kindred	.007		.003			.005						.006
Lumber & Wood					.004	.003						
Furniture & Fixtures		-.023	.009			.005						.006
Paper & Pulp		-.100	.005			.003						
Chemicals				.005		.003						.005
Primary Metals					.008	.003						.005
Printing & Publishing	.003		.015			.003	.003					
Fabricated Metals					.014	.003	.021					.009
Textiles & Apparel						.003		.007	.003			.005
Leather & Leather Goods								.003				
Stone, Clay & Glass											.003	
Other Manufacturing	.005		.004	.006	.008		.005				.005	.010
Wholesale Trade												.009
Service Stations						.003						
Eating & Drinking												
Other Retail						.033						.003
Agricultural Services												
Lodging												
Other Services												
Transportation												
Electric Energy												
Other Utilities												.003
Contract Construction		-.003					.042				.055	
Rentals & Finance												

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Table CRB-G-23a (1980-2010) - Continued

Industry Producing	Wholesale Trade	Service Stations	Eating & Drinking	Other Retail	Agriculture Services	Lodging	Other Services	Transport- ation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock												.007
Feeder Livestock												.005
Dairy												.003
Forage, Feed & Food												
Cotton												
Vegetables												
Citrus Crops												
Forestry												.004
Other Agriculture												.004
Uranium												
Copper												
Other Mining												
Food & Kindred												
Lumber & Wood												
Furniture & Fixtures												
Paper & Pulp												
Chemicals												
Primary Metals												
Printing & Publishing												
Fabricated Metals												
Textiles & Apparel												
Leather & Leather Goods												
Stone, Clay & Glass												
Other Manufacturing												
Wholesale Trade												
Service Stations												
Eating & Drinking												
Other Retail												
Agriculture Services												
Lodging												
Other Services												
Transportation												
Electric Energy												
Other Utilities												
Contract Construction												
Rentals & Finance												

Table CRB-G-23b (1960-1980)

Absolute Changes in Direct-Indirect Input Requirements per Dollar of
Output Greater Than or Equal to \$0.003 for the Gila Sub-Basin
1960 Quality Unconstrained - 1980 Quality Constrained

Industry Producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining
Industry Purchasing												
Range Livestock												
Feeder Livestock	-.011			-.019								
Dairy				-.018								
Forage, Feed & Food												.006
Cotton												.003
Vegetables												
Citrus Crops												.004
Forestry												
Other Agriculture		.003		-.008				.003				
Uranium										.015		.010
Copper											.013	.009
Other Mining											.005	.068
Food & Kindred		.009			-.004		.005					
Lumber & Wood								-.033				
Furniture & Fixtures												
Paper & Pulp								-.019				
Chemicals												.024
Primary Metals											-.058	.022
Printing & Publishing												
Fabricated Metals											.017	.037
Textiles & Apparel												
Leather & Leather Goods		.004										
Stone, Clay & Glass												.013
Other Manufacturing											.006	.006
Wholesale Trade												
Service Stations												
Eating & Drinking												
Other Retail												
Agriculture Services												
Lodging												
Other Services												
Transportation												-.009
Electric Energy												
Other Utilities												
Contract Construction												.010
Rentals & Finance												

Table CRB-G-23b (1960-1980) - Continued

Absolute Changes in Direct-Indirect Input Requirements per Dollar of
Output Greater Than or Equal to \$0.003 for the Gila Sub-Basin
1960 Quality Unconstrained - 1980 Quality Constrained (Cont'd)

Industry Producing	Food & Kindred	Lumber & Wood	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade
Industry Purchasing												
Range Livestock	.004											
Feeder Livestock				.006							.005	.003
Dairy	.005			.013							.004	
Forage, Feed & Food				.031							.005	
Cotton	.018			.016							.015	.003
Vegetables				.012								
Citrus Crops	.003			.015							.007	
Forestry												
Other Agriculture	.014		.005	.008							.010	-.011
Uranium		-.003		.006			.013		.014		.017	.004
Copper	.003			.007		.007					.013	.005
Other Mining				.009	.005	.011	.011		.018		.012	.008
Food & Kindred	.019	.004	.011	.006		.009					.018	.030
Lumber & Wood		.006									.009	.005
Furniture & Fixtures			.020								.013	.007
Paper & Pulp		-.095	.011			.003					.008	
Chemicals				.010		.004			.003		.009	.005
Primary Metals	.003			.006	.011	.010	.005		.005		.022	.005
Printing & Publishing		.016	.049								.008	.007
Fabricated Metals				.026		.024					.019	.008
Textiles & Apparel								.007			.011	.003
Leather & Leather Goods	.016		.004			.005		.022			.009	.009
Stone, Clay & Glass						.004			.029		.008	.005
Other Manufacturing	.008			.008	.009	.006	.004		.011		.017	.003
Wholesale Trade											.122	.005
Service Stations											.004	
Eating & Drinking	.009										.012	.007
Other Retail						-.028	.005				.007	.025
Agriculture Services												
Lodging											.006	.006
Other Services											.008	.005
Transportation											.010	
Electric Energy							.004				.010	
Other Utilities											.010	.006
Contract Construction		-.004					.014		.023		.013	
Rentals & Finance												

Table CRB-G-23b (1960-1980) - Continued

Industry Producing	Service Stations	Eating & Drinking	Other Retail	Agriculture Services	Lodging	Other Services	Transport- ation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Industry Purchasing											
Range Livestock							.014				.013
Feeder Livestock			-.012				.024	.004			.009
Dairy			-.006				.005	.008			.009
Forage, Feed & Food			-.010		.003		.005	.008			.009
Cotton			-.006		.004		.005	.013	.003		.006
Vegetables							-.076	.016			.004
Citrus Crops			-.009		.005		.004	.007			.007
Forestry			.003								.008
Other Agriculture			-.010	-.010	.003	.007	.011				.009
Uranium					.005	.026	.011	.012	.031		.024
Copper	.003		.004		.006	.009	.019	.010	.005		.010
Other Mining	.003	.006	.007	.011	.014	.034	.047	.025	.032		.175
Food & Kindred			.004		.009	.015	.013	.006	.005		.013
Lumber & Wood			.006		.004	.019	.014	.008	.008		.015
Furniture & Fixtures					.006	.011	.011	.007			.014
Paper & Pulp		.004			.004	.022	.016	.009	.004		.016
Chemicals		.003	.004	.003	.016	.016	.019	.009	.008		.044
Primary Metals	.004		.005	.006	.012	.026	.024	.019	.014		.042
Printing & Publishing	.006			.003	.010	.014	.015	.008	.006		.015
Fabricated Metals			.008	.003	-.124	.018	.019	.011	.005		.022
Textiles & Apparel			.007		.007	.005	.008	.005	.005		.008
Leather & Leather Goods					.015	.007	.010	.007	.007		.013
Stone, Clay & Glass			.009		.008	.016	.016	.009	.009		.034
Other Manufacturing	.003		.004		.008	.012	.015	.010			.011
Wholesale Trade			.006	.004	.004	.011	.011	.006	.007		.012
Service Stations			.003		.004	.007			.007		.012
Eating & Drinking					.013	.004	.005	.004	.009		.008
Other Retail			.004		.004	.010	.005	.004	.005		.009
Agriculture Services					.003						.004
Lodging					.006	.003	.004	.004	.006		.005
Other Services			.005		.004	.004	.006				.006
Transportation						.004			.004		.008
Electric Energy			.007		.004	.009	.015	.007	.005		.011
Other Utilities			.005	.004	.015	.006	.006	.006	.006		.009
Contract Construction						.006	.005				.008
Rentals & Finance					.003				.004		.005

Table CRB-G-23b (1980-2010)

Absolute Changes in Direct-Indirect Input Requirements per Dollar of Output Greater Than or Equal to \$0.003 for the Gila Sub-Basin 1980 Quality Constrained - 2010 Quality Constrained

Industry Purchasing \ Industry Producing	Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food	Cotton	Vegetables	Citrus Crops	Forestry	Other Agriculture	Uranium	Copper	Other Mining
Range Livestock												
Feeder Livestock	-.012			-.098								
Dairy		-.004	-.004	-.168								
Forage, Feed & Food				-.005								.012
Cotton												.009
Vegetables												.005
Citrus Crops				.003								.005
Forestry												
Other Agriculture				-.024								.004
Uranium										.010		.015
Copper											.013	.014
Other Mining											.009	.085
Food & Kindred		.010	.009	-.035	-.003	.011	.004		.003			.004
Lumber & Wood								-.017				.003
Furniture & Fixtures												
Paper & Pulp								-.009				
Chemicals												.042
Primary Metals											-.016	.022
Printing & Publishing												
Fabricated Metals											.012	.039
Textiles & Apparel												
Leather & Leather Goods				-.009								
Stone, Clay & Glass												.030
Other Manufacturing											.007	.016
Wholesale Trade												.003
Service Stations												
Eating & Drinking				-.003					.003			
Other Retail												
Agriculture Services												
Lodging												
Other Services												
Transportation												
Electric Energy												
Other Utilities												
Contract Construction											.004	.042
Rentals & Finance												

Table CRB-G-23b (1980-2010) - Continued
 Absolute Changes in Direct-Indirect Input Requirements per Dollar of
 Output Greater Than or Equal to \$0.003 for the Gila Sub-Basin
 1980 Quality Constrained - 2010 Quality Constrained

Industry Producing Industry Purchasing	Food & Kindred	Lumber & Wood	Paper & Pulp	Chemicals	Primary Metals	Printing & Publishing	Fabricated Metals	Textiles & Apparel	Leather & Leather Goods	Stone, Clay & Glass	Other Manufacturing	Wholesale Trade
Range Livestock												
Feeder Livestock												
Dairy												
Forage, Feed & Food			.042		.003						.004	
Cotton			.033		.004						.006	
Vegetables			.008								.005	
Citrus Crops	.004		.008		.004						.005	
Forestry												
Other Agriculture	.007		.011		.007						.007	
Uranium			.006		.005	.012			.015	.006	.005	
Copper	.010				.007	.011			.005	.014	.007	
Other Mining	.003			.007	.017	.012			.023	.019	.009	
Food & Kindred	.011		.005	.007	.008					.014	.019	
Lumber & Wood					.004	.004			.006	.009	.005	
Furniture & Fixtures		-.027	.012		.007					.012	.011	
Paper & Pulp		-.108	.007		.005					.007		
Chemicals				.008	.008	.004			.006	.013	.006	
Primary Metals	.009			.011	.010	.012			.010	.019	.008	
Printing & Publishing	.004		.018		.005	.005			.005	.006	.004	
Fabricated Metals				.019	.007	.028			.005	.020	.011	
Textiles & Apparel					.005		.007	.003		.009	.006	
Leather & Leather Goods	.003				.005		.003			.006	.005	
Stone, Clay & Glass					.006	.003			.009	.008		
Other Manufacturing	.008		.006	.008	.011	.005	.009		.010	.019	.005	
Wholesale Trade					.004	.003			.004	.016	.006	
Service Stations					.004				.003		.003	
Eating & Drinking	.005				.004					.004	.007	
Other Retail			.004		.035				.004	.003	-.019	
Agriculture Services												
Lodging						.003			.004		.004	
Other Services										.005	.005	
Transportation					.004	.003				.005		
Electric Energy					.003					.004		
Other Utilities										.006	.003	
Contract Construction	-.004		.005	.006	.004	.065			.093	.013	.006	
Rentals & Finance						.003			.004			

Table CRB-G-23b (1980-2010) - Continued
 Absolute Changes in Direct-Indirect Input Requirements per Dollar of
 Output Greater Than or Equal to \$0.003 for the Gila Sub-Basin
 1980 Quality Constrained - 2010 Quality Constrained

Industry Producing	Industry Purchasing	Service Stations	Eating & Drinking	Other Retail	Agricultural Services	Lodging	Other Services	Transport- ation	Electric Energy	Other Utilities	Contract Construction	Rentals & Finance
Range Livestock												.009
Feeder Livestock			-.005	-.011								.004
Dairy	-.004		-.009	-.012				.004				
Forage, Feed & Food				-.003		.005	.006	.008	.003			.008
Cotton						.007	.006	.009	.005			.009
Vegetables				.009		.004	.005	.006	.003			.007
Citrus Crops				-.005		.005	.004	.006				.005
Forestry				.003								.005
Other Agriculture			-.010			.005	.006	.019	.005	.003		.011
Uranium			.005			.010	.017	.038	.011	.018		.021
Copper	.005		.007		.003	.022	.027	.015	.016	.011		.017
Other Mining	.005	.008	.014		.009	.019	.042	.053	.015	.019		.061
Food & Kindred			.004			.008	.017	.015	.006	.008		.018
Lumber & Wood		.003	.009			.011	.009	.016	.009	.014		.017
Furniture & Fixtures	.004					.007	.007	.013	.011			.013
Paper & Pulp		.007			.004	.007	.021	.023	.010	.004		.015
Chemicals		.005	.009		.003	.012	.021	.020	.010	.009		.030
Primary Metals	.007					.020	.026	.021	.016	.016		.025
Printing & Publishing		.004	.005		.004	.007	.009	.010	.006	.007		.011
Fabricated Metals	.004	.005	.010		.004	.013	.018	.023	.013	.009		.021
Textiles & Apparel	.004	.004	.007			.008	.007	.010	.006	.006		.011
Leather & Leather Goods						.006	.008	.015	.006			.008
Stone, Clay & Glass			.005			.009	.012	.020	.008	.006		.018
Other Manufacturing			.004			.010	.011	.015	.010	.003		.012
Wholesale Trade			.005		.004	.007	.009	.008	.007	.005		.008
Service Stations						.003	.004	.004	.004			.004
Eating & Drinking						.004	.005	.005	.003	.003		.006
Other Retail			.003							.004		.004
Agriculture Services						.004						.004
Lodging			.003			.007	.003	.004				.004
Other Services						.004	.005	.004				.004
Transportation						.005	.005	.006	.004	.003		.005
Electric Energy			.003			.003	.004	.016	.006	.005		.004
Other Utilities	.003					.005	.004	.004	.005			.004
Contract Construction							.020	.015	.009			.018
Rentals & Finance						.004				.005		.004

Technical Note: Procedures to be Followed in Calculating Damages
Resulting from Water Quality Deterioration

I. FWPCA has developed four types of damages. They are indicated below and will be treated as shown.

A. Changes in yield, or depression in TGO (agriculture sectors).

1. Injection

These will be treated as final demand (FD) changes. The FD in a given sector will be decreased by an amount necessary to meet the given depression in TGO. A changed FD will be used in conjunction with the unconstrained coefficients on the 1980/2010 computer format. These FD changes should be made singly. That is, the entire unconstrained table, with the exception of the FD of the agriculture sector under analysis, should be here used. Thus, if determining the FD decrease necessary to lower the TGO of Sector No. 5 of the 1980 LMS, all of the unconstrained FD's for the entire 1980 LMS, except FD No. 5, should be used. We thus eliminate TGO decreases due to interindustry effects. Hence, the LMS or Gila, for a given year, will require a minimum of nine (the number of agriculture sectors) computer runs to determine these FD depressions. This precaution about running the FD changes singly is only necessary if the FD change in a given sector is large enough to cause interindustry effects. This may well not be the case with some sectors.

2. Measurement of Damages

Damages are measured by TGO differences. After a sector's FD has been changed the necessary amount, the subsequently new TGO in each sector should be subtracted from the unconstrained TGO in that sector. The sum of these differences will be a measure of the damage due to salt in one of the agriculture sectors. Then when the FD in the next sector is changed as per the above procedure, a new sum of TGO

differences should be calculated. We see, then, that there will be nine sums of TGO differences. These nine should be added to determine damages due to increased salinity in the agriculture sectors.

B. Cost of purchase of more water.

1. Injection

These will cause no change in the I-O tables. This is because these effects will be compensating and entirely within a given industry's column intersections with different parts of the Total Payments row. Specifically, as Industry A purchases more water, the Industry A column entry with the Government row entry will increase. But this increase will be met with a simultaneous and equal decrease in the wages and/or income-profit sector of the Total Payments row. Thus, the net effect is zero in the I-O table. These compensating changes would take place, also, in the Final Demand vector.

2. Measurement of damages

Damages are represented by the total of the increased water purchase costs of every industry.

C. Households -- increased purchases of soap.

1. Injection

These will be final demand changes. FD's will be changed to reflect new household purchasing patterns. First compute the amount of every dollar expended by households that is spent in each of the processing sector's sectors. Then sum these to determine how much households spend, in toto, in the processing sector. This tells us, approximately, how much of the new soap purchase will affect the processing sector's Final Demands. Assume that the new soap purchases will affect the following sectors: Eating and Drinking; Retail Trade; and Services. Sum the coefficients of these three sectors and divide each coefficient by this sum.

This tells us how much Final Demand will change in each of these three sectors. Now multiply these new coefficients by the in toto sum of all of the coefficients. We now have, approximately, the amount that each of the three sectors' Final Demand will decrease due to increased soap purchases. Now account for trade margins. In those sectors where margins were used, multiply the final coefficient by the relevant trade margin. Thus, we have the coefficients of Final Demand decrease due to increased soap purchases. But as the new soap purchases will come from the Retail sector, the coefficient of Final Demand decrease should be increased in Retail Trade by the in toto sum of the processing sector coefficients times the Retail Trade margin. We now have three coefficients that tell us how Final Demands are affected in the three sectors. All will be negative except the Retail coefficient. Now, to determine the exact Final Demand change in each of the three sectors, multiply the coefficient of Final Demand change times the increased soap purchase. These coefficients have been computed for the LMS and Gila Sub-Basins as if these two sub-basins were aggregated. They are:

<u>Sector</u>	<u>Coefficient of FD Change</u>
Eating and Drinking	-.0671
Retail	.0696
Services	-.1450

We use these coefficients to determine Final Demand changes and thence inject these three Final Demand changes into 1980/2010 format. We use the unconstrained table and inject these changed FD's simultaneously.

2. Measurement of damages

Sum the absolute differences, by sector, of TGO's.
This sum is the damage to Households.

D. Increased Treatment Costs (Industrial Sectors)

1. Injection

Using the 1960 computer format, increase the Industry A Column intersection with the Retail Trade row by the amount of the treatment cost times the retail trade margin. Now perform the inversions, with the entire unconstrained table except Industry A, yielding a new transactions table. Again, this should be done singly by industry to eliminate interindustry effects if these are present.

2. Measurement of damages

As each industry's treatment costs are injected, sum the differences in TGO's, by sectors, of every sector. Thus, 21 sums would result in the LMS for a given year. The sum of these sums would be damages due to treatment costs.

Note: As each industry's treatment costs are singly injected into the transactions table, record the new direct coefficients in that industry's column. These new coefficients will be later used.

II. Total Damages

The sum of the damages as computed in I. A.2., I. B.2., I. C.2., and I. D.2. will be the total damages to the economy in a given year in a given sub-basin.

III. Quality Constrained Projection

The original unconstrained table will undergo two changes.

A. Final Demand Changes

Compute the algebraic sum of the changes, by sector, as determined in I. A.1. and I. C.1. Change the unconstrained Final Demands by this sum.

B. Direct Coefficient Change

Use the new direct coefficients as noted in I. D.2. There will be one coefficient change per industrial sector.

C. Injection

Enter all Final Demand and direct coefficient changes simultaneously on the 1980/2010 computer format. The result will be the quantity-quality constrained projection.