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

Bernard Udis University of Colorado

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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
University of Colorado
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

#### 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.

#### 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 <u>new Editor's Note is to be inserted;</u> 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 underestimation 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 unmargined 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.

<sup>\*</sup>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, Tuble GR-1960-a, p. 59.

#### Gila Sub-Basin

Page	37	In Paragraph	#1, t	he last	sentence	should	end a	38	follows:
		"	in th	e twenty	years t	etween	1940 1	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 <u>Census</u> 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.

#### 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 <u>Census</u> 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.

#### Little Colorado Sub-Basin

# Page 177 Footnote 6 should read as follows:

In 1958, the <u>Census</u> 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.

#### 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 <u>Census of Business</u> classified 1,413 establishments in the <u>Lower Main Stem counties</u> as "other" retail trade. Clark County led once again with 663. In 1963, there were 1,694 "other" retail establishments in the subbasin. Clark County had 952.

#### 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 <u>Census of Business</u> 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".

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

Page 167 Footnote 4 should read:

In 1958, the <u>Census of Business</u> classified 1,019 establishments in the <u>Upper Main Stem as "other" retail trade</u>. 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 ". 7ff. 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 Fedreal 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

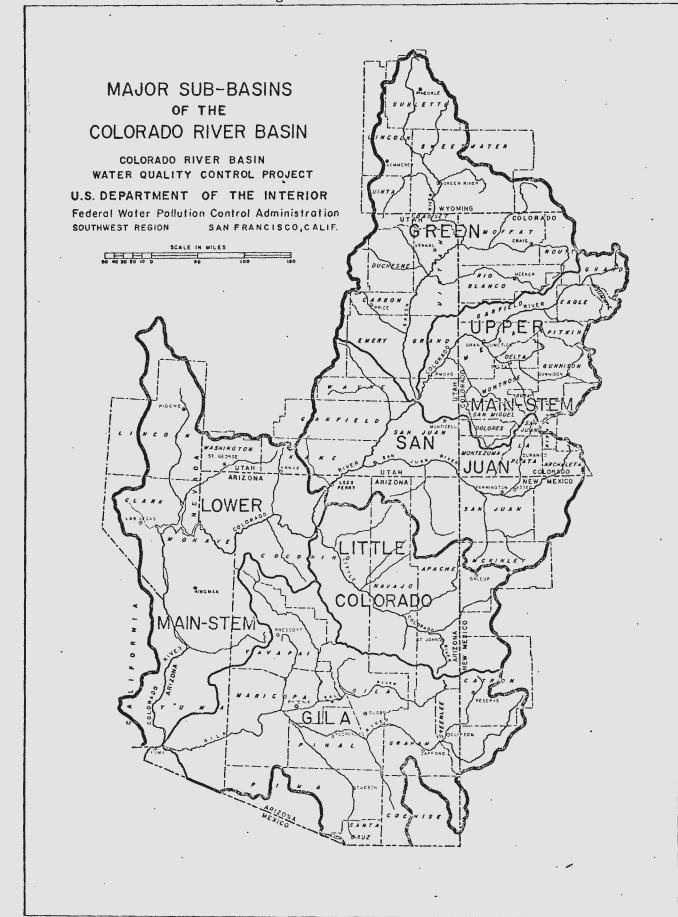
# Physical Description of the Colorado River Basin

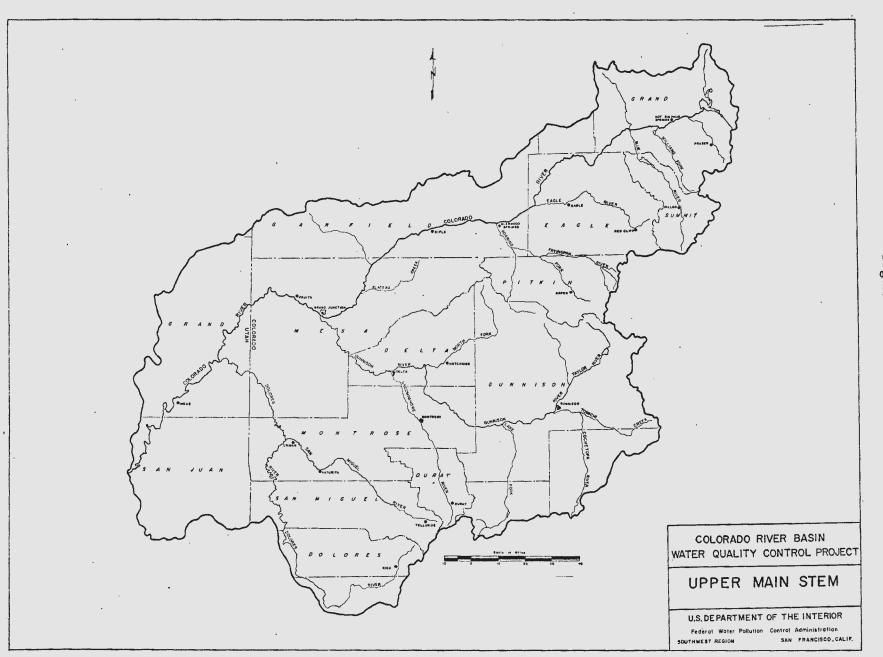
The Colorado River Basin is bounded by Wyoming on the north and Mexico on the south. It extends from the western slope of the Rocky Mountains to western Wyoming, eastern Nevada, Utah and California, covering approximately 247,000 square miles. (See Maps, Figures 1 - 7).

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" counties grouped into six major study areas which correspond to the six subbasins 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 constrasts. 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

The 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 Polution 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.





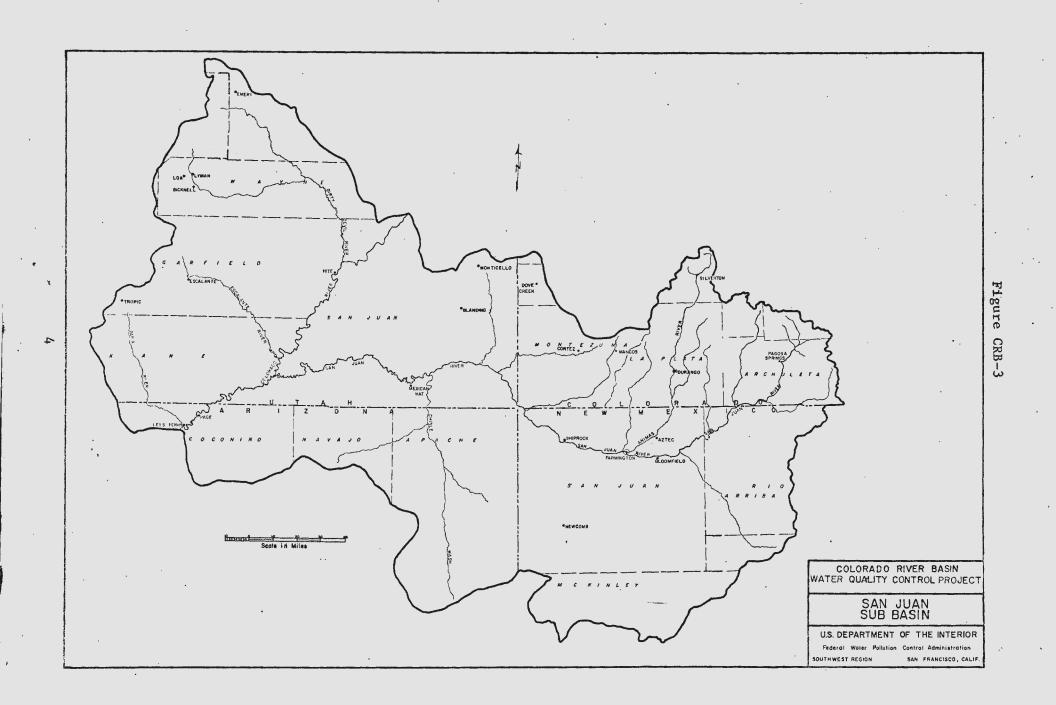




Figure CRB-5

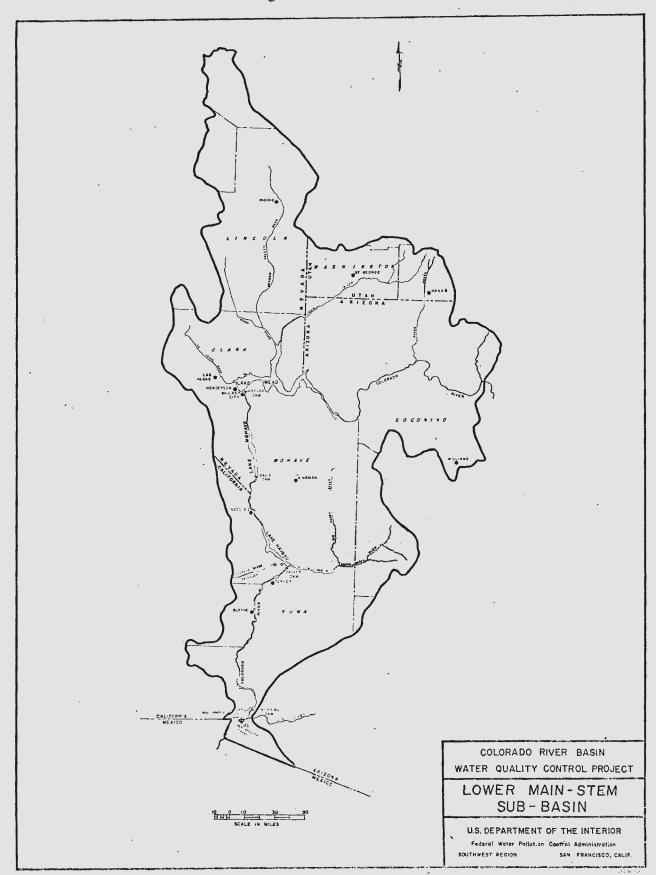
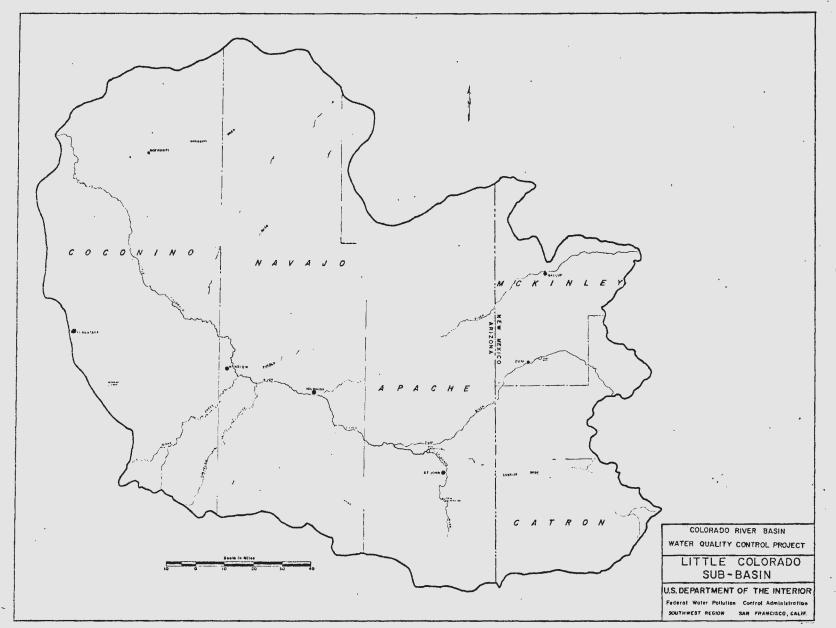


Figure CRB-6



 $\infty$ 

Table CRB-1

Representative Counties of the Colorado River Basin

	Basin		and County		Basin		e and County
I.	Upper Main	Colora		III.	San Juan.	Uta	
	Stem	•	elta		(cont'd)	1.	Garfield
			olores	*		2.	Kane
	•		agle			3.	San Juan
			arfield			4.	Wayne
			rand	IV.	Little		
			unnison		Colorado		zona
			insdale			1.	Apache
	•		esa			2.	Navajo
•	,		ontrose				
			uray			New	Mexico
			itkin		•	1.	McKinley
			an Miguel				•
		13. St	ummit	٧.	Gila	Ari	zona
					•	1.	Cochise
		Utah				2.	Gila
		1. G1	rand			3.	Graham
,						4.	Greenlee
II.	Green	Colora	ado			5.	Maricopa
	•	1. Mo	offat			6.	Pima
		2. Ri	io Blanco	•		7.	Pina1
		3. Ro	outt			8.	Santa Cruz
						9.	Yavapai
		Utah					•
		I. Ca	arbon			New	Mexico
		2. Da	aggett			1.	Catron
		3. Du	uchesne			2.	Grant
		4. En	nery				• • • • • • • • • • • • • • • • • • • •
		5. Ui	intah	IV.	Lower	Ari	zona
					Main Stem	1.	Coconino
		Wyomir	ng			2.	Mohave
			incoln			3.	Yuma
		2. St	ublette			٠.	Z Cillica
		_	weetwater			Nev	ada
		4. Ui	inta			1.	Clark
						2.	Lincoln
III	. San Juan	Colora	ado			~ •	MANOVALL
			chuleta			Uta	h
			Plata			1.	u Washington
		_	ontezuma			4.	Masuringrou
			n Juan				

Source: See footnote 1.

New Mexico 1. San Juan 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. 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).

#### 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 uninhabitated. 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.

<sup>&</sup>lt;sup>2</sup>Ten 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.

<sup>3&</sup>lt;sub>Ibid., p. 359.</sub>

U.S. Census of Population, 1960.

<sup>5</sup> Ten 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 subbasin, 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, services 6, 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)

The 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.

# Personal Income Per Capita

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

	Per Capita Personal Income (1960 Estimates)	Location Quotient (Sub-Basin Per Capita Personal Income) - (U.S. Per Capita Personal Income)
United States	1,941	do po
San Juan Sub-Basin	1,554	0.801
Upper Main Stem Sub-Easin	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 1940	Employment 1950	Figures 1960	Industr Adjusted 1940	•
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 7
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 <b>,7</b> 62	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	,	4
**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	5 3 ·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 9
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 dificiency 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."

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." 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."

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.

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

<sup>&</sup>lt;sup>9</sup>Ibid., pp. 194-205.

<sup>&</sup>lt;sup>10</sup>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 inputoutput 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.

<sup>11</sup> Ibid., p. 362.

This 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)

Industry Purchas. g

		Proce	essing	Sect	or						Final	Demand	
Inp	Outputs 1	(1)	(2) B	(3) C	(4) D	(5) E	(6) F	(7) · Gross Inventory Accumula- tion (+)	(8) Exports to Foreign Countries	(9) Government Purchases	(10) Gross Private Capital: Formation	(11) Households	(12) Total Gross Output
3(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
兵(3)	Industry C	7_	2	8	1	5	3	2	3	1	3	5	40
(4)	Industry D	11	1	2	8	6	4	· с .	0	1	2	4	39
g g(5)	Industry E	4	0	1_	14	3	2	1	2 .	1 **	3	9'.	60
po.d. (7)	Gross inventory deple-	2	6	7	6	_2_	6	2	4	. 2	1.	8	46
Z Z	tion (-)	1	1_2	1	0	2	1	0	1	0	0	0	8
Industry (S. C.	Imports	2	1	3	0	3 .	2	0	0	0	0	2	1.3
ot 8 (9)	Payments to Government	2	3	2	2	1	2	3	2	1	2	12	32
Bayne 10	) Depreciation Allowances	1	`2	1	. 0	1	0	С	. 0	0	0	0 .	5
(11)	) Households	19	23	7	5	9	12	1	. C	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 tal 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 subbasins 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 <u>Total Gross Outlay</u> 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 <u>adjusted</u> 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	С	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		<del></del>	···		
		(1) A	(2) B	(3) C	(4) D	(5) E	(6) F
	A	16¢	26¢	3¢	5¢	13¢	13¢
PARAMETER CONTRACTOR	В.	8¢	7¢	18¢	3¢	8¢	18¢
STATE OF STREET STATE OF STREET	С	11¢	4¢	21¢	3¢	13¢	7¢
-	D	17c	2¢	5¢	21¢	16¢	9¢
-	E	б¢	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
В	. 25	1.21	.38	.25	.26	.35
С	.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 interindustry 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 Basin 13

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:

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 intersection 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 comsuming 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

<sup>14</sup> The 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.

For 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, <u>Interindustry Economics</u> (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. <sup>16</sup>

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.

<sup>16</sup> Chenery and Clark, op. cit., p. 142.

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

In 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

<sup>&</sup>lt;sup>19</sup>W. Duane Evans and Marvin Hoffenberg, "The Nature and Uses of Interindustry-Relations Data and Methods," in Conference on Research in Income and Wealth, <u>Input-Output Analysis</u>: <u>An Appraisal</u> (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.<sup>20</sup>

### The Final Demand and Payments Sectors

The autonomous sector represents the "open" part of the inputoutput 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 <u>all rows</u> equal the sum of <u>all columns</u>. 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

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." 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

<sup>21&</sup>lt;u>Op</u>. <u>cit</u>., 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

The 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.

<sup>23&</sup>lt;sub>Op</sub>. <u>cit</u>., 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. 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 particu—lar 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. <sup>25</sup> 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.

<sup>24&</sup>lt;u>op</u>. <u>cit</u>., pp. 104-105.

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. 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	<b>3</b> 75

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	Е	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 unrealisite 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 a main purpose of the tabulations and would substitute instead a heterogeneous trading structure. 26

<sup>26</sup> 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 interindustry 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.

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 Purchasing	1 Panas	2	3	Forage,	5	6 Vegetable	7	8	9 All Other	10 1	1	12 'ood &	13 Lumber &	14	15	16 17	18	19	20	21 Eating &	22 2	3 24	2	25	26 27	28	29	30	31	32	33	34	35   36 Gros	37 Dess Exports to	38	39
try		TITACOCACE (	eeder vestock	Deiry	Food Crops		Melon Products	Citrus Crops	Forestry	Agri- culture	Uranium Mi	1 Other Ki	ndred oducts	Wood roducts	Chemicals F	rinting & Fa	Stone bricated Clay Metals Glas	The second	Wholesa trade	e Service Stations	Drinking Places		tural ervices Lodgi	ng Se	CITOL	nspor- Electration Energ	1 774 6 7 4	ther Consti	Rentals &	State & Federal Gov't	Local Gov't	Wages	Profits & Other Income (4	Inventory Priva Changes Capit (Additions) Format	vate Other		Total Gros
	1. Range livestock 2. Peeder livestock	806	4,608	0	0	0	0	0	0	0	0	0	101	0	0	0	0	0 (	)	0	0	0	0	0	0	0	n	0		111		=	Theodic (*				Output
			0	43	37		10	<u> </u>	0		0	0	530	0	0	0	0	0   0	2	0	0	0	0	0 1	0	0	0 1	0	<del></del>	113		407	+	0	0 0	2,034	8.0
- 1	3. Dairy		3 110	577	- 3/	<del>+                                    </del>	<u> </u>			0	0	0 1	,825	0	0	0	0	0 1 (	)	0	0	0	0	0	0	0	0	0		0	0	- 0		0	0 0	18,028	18,5
	4. Forage, feed & food crops		3,110	3//		- 0	0	<u> </u>	0	127	0	0	740	0	0	0	0	0 0		0	0	0	0	0	0	0	0			1 0	0	60		0	0 0	0	1
ulture	5. Cotton	l	0	0	1 0	<del></del>	- ~	- 0	0	0	0	0	0	0	0	0	0	0 (	)   (	0	0	0	,429	0	0	0	0	0		190		0		0	0 0	6,203	, 11.
- 1	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	~	<del></del>	42		0	+	0	0 0	12,472	13.
- 1	7. Citrus crops		0	0	+		0	<u> </u>	0	0	0	0	0	0	. 0	0	0	0 0	)	0	. 0	0	0	0	0	0	0	0		H <u>-</u>	0	29		0	0 114	28,420	28
	8. Forestry	<del></del>	260	0	1 0	<del></del>		0	0	0	0	0	0	3,496	0	0	0	0 0	) ] (	0	0	0	0	0	0	0	0	0 + - /		H	0	17	<del></del>	0		3,289	. 3
	9. All other agriculture	t	260	0	+		<u>&gt;</u>	0	0	0	0	0	900	0	0	0	0	0	)	0	0	0	0	0	0	0	0	0	<u>-</u>	1 0		0	- m -	0	0 0	0	3
ng	10. Uranium	<del>                                     </del>		0	<del> </del>	- +	- 0	- 0	0	0	2,152	0	0	0	0	0	0	0 0	)	0	0	0	0	0	0	0	<u> </u>	0		- 103	- 0	630	+ c -	0	0 0	4,770	6
<b>}</b>	ll. All other mining	0	0	300	0	- 0	- 0	41	0	0	63	0	0	0	3,901	0	0 3,0	41 5,196	5	0	0	0	0	0	0	506	0	0	0	5,131	9		<u> </u>	0	0 0	0	7
	12. Food & kindred products	0	0	300	0	<del></del>	- 0	0	0	462	0	0	134	0	0	2	0	3 (	) (	0	8,133	0	0	0	0	0	18			3,066	1,649	2	+ ₫ T	840	0 0	1,832	20
1	13. Lumber & wood products	0	0	0	(33			0	0	0	13	221	0	1,401	0	0	0	0 0	) (	0	0	. 0	0	0	0	0	= 3	16	6	142	468	4,898	ö	536	0 361	426	19
acturing	14. Chemicals	0	0	0	637	931	685	81	0	40	0	0	0	0	0	0	0 6	41 0	) (	1 0	0	0	0	0	97	0	7	0 50		19	0	2.044	<u> </u>	288	142 1,989	6,960	14
1	15. Printing & publishing	0	0	0	0	- 0	0	0	0	0	1	31	43	6	11	41	3	8 41	46	174	184	3,020	22 5	80	905	38	22	10 10	103	833	0	0		144	0 2,608	12,920	1
	16. Fabricated metals	0	0	0	0	<u>°</u>		0	0	0	10	0	0	0	0	0	46	0 0	) (	0	0	Ö	0	0	0	28	<u> </u>	0 13	401	18	72	2,013	L G	164	0 0	98	
	17. Stone, clay & glass	0	0	0	- 0	- 0	0	0_	0	0	27	161	0	0	680	0	0 1	40 108	3 (	. 0	0	0	0	0	0	86	1	0 1,194	- 0	82	79	59		37	140 31	0	
<b></b>	18. All other manufacturing	0	0	0	0	0	0	0	0	0	0	88	0	0	341	68	0	3 60	) (	0	0	0	0	0	14	0	22	0 4,892	15	1,549	266	376		906 3,8	301 0	2.174	11
1 -1 -1	19. Wholesale trade	83	16	9	156	166	185	13	25	93	16	230	24	52	65	14	10	30 178	207	60	2,090	296	722 2 7	62 1 4	337	491 4	50 F	63 5 01	0	161	25	38		1,653	0 1.250	30,067	33
1 2	20. Service stations	87	61	18	263	173	134	20	81	158	4	27	36	3	22	1	1	14 12	122	50	0	293	128 9	30	137	204 1	12 2	63 2,916	72	820	367	10,006	1	3,357 3,1	178 2.311	3.591	30
	21. Eating & drinking places	0	0	0	0	0	0		0	0	0	5	0	0	6	1	0	23 21	82	22	13	27	0 7	50	146	322	15 9	79 1,167	34	347	439	3,444	, mg	516	215 960	2.626	13
[2]	22. All other retail	366	6	24	555	365	896	51	38	273	31	58	35	140	35	32	20	66 200	152	172	375	245	139 9	27   1	460	416 4	73	0 100	76	150	94	12,820	1 0 1	396	99 2,821	17.392	31
ľ	23. Agricultural services	128	1,256	0	63	1,160	14,916	2,110	0	308	0	0	0	0	0	0	0	0 0	) (	0	0	0	70		0	410 4	2	95 1,076	373	1,424	544	48,641	1 1	10,563 11.	924 1,127	10 108	0.3
ces	24. Lodging	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0 14	58	15	0	73	0	<del>~</del> H	40	E14		0 0		0	0	0	н	0	0 0	-0,100	10
	25. All other services (except professional)	0	0	36	0	0	0		240	0	40	71	352	402	325	47	44 1	95 788	2,106	258	1.641	3,463	375 3,6	44 5	677	214	20	10 0	47	177	94	4,684	- a	747	57 6.833 1	08 933	122
_	26. Transportation	0	0	54	0	0	1,582	0	0	0	123	552	183	84	921	191	42 2	06 621	3,645	872	429			53 2	122 2	545 /	20 1.9	42 1,187	978	3,910	507	37,461	- H	8,573 2,6	683 9.685	64 435	122
4444	27. Electric energy	3	54	12	0	26	0	0	0	22	59	682	137	257	538	91	23 7	65 1,078	855	434	454	3,514			458		58 4	31 1,197	687	681	437	9,077		0 5.8	833 2.083	6 110	104
ties—	28. All other utilities	2	0	2	0	17	0	0	0	10	40	420	145	176	187	125	88 1	23 126	648	172	736	2,461	47 3.8		776	664 1,2	5/ 1	87 169	434	997	726	6.008	, s	472	0 1 170	4.936	30
	29. Contract construction	0	0	0	0	0	0	0	0	0	48	661	22	56	0	0	3	81 283	) C	90	194	112	232 2 1	- 1	253	200 1,6	89 1	95   386	832	1,401	831	9,468	, ,	1.489	1,198	1 830	31
	30. Rentals & finance	54	40	23	147	212	1,372	14	176	158	68	, 338	548	48	73	180	23	38 844	1,856	540	1.560	6, 361	500 2.5	25 1 - 1,	166	604 2	41 5	08 45,839	460	20,250	16,702	5,818	1 1	21.218 42.	150	7,030	31
	31. State & Federal	495	60	8	430	86	108	9	838	42	60	2.088	843	428	132	357	48 1	796	1.439	205	2,500	0,301		T		624 6,1	1,5	15 3,460	4,043	1,680	1,516	41,467		0	0 3,214 1	11.162	135
nment-		389	198	15	3,688	871	832	62	16	272	20	627	170	90	72	43		40 393		285	345	2,139	390 2,7	36 2,	011 1,	839 2,7	07 1,8	65 669	5,675	11.778	115	70.962	, <u>;</u>		3 3 3 3		
	32. Local 33. Wages	486	446	226	878	909	1.889	116	757	476	050	120 -	625	3 001	4 112	2 043	41 4 2	49 382	482	76	113	727	38 5,2	45	615	901 9	36 6	06 273	3.319	15, 356	1,292	70,862			0 1,081	3,131	116
nolds	34. Profits & other income			296	3 2 2 2	6.883	1.850	628	524	1 695	560	520	030	5,701	9,113	2,841	140	1/ 0,386	9,835	4,537	9,205	35,353	,742 48,3	59,	341 9,	485 2,8	34 8,4	17 43.149	8.837	54.372	32.243	23,007		0	0 237	686	61
· · · · ·	34. Profits & other income 35. Inventory change (depletions) 36. Depreciation allowances	2,884	1,334	0	0	0	0	628	747	4,000	260	700	402	310	202	831	140 2 39 7 46 3	23 1,000	2,182	1,102	834	6,268	,647 4,6	48 13,	304	842 8	50 8	5.769	66.107	52R	1 561	15 100		0 3,9	958 6,654 0 1,242	1,663	379
	36. Depreciation allowances	380	87	212	795	600	474	73	520	562	1 204	/88	493	222	240	626	39 7	7, 701	1,617	561	411	9,615	2 7	63 6,	191	0 6	59 70	18.863	0	1	1,301	12,189		0	0 1,242		151
ſ	37. Imports from other Colorado River Sub-Basins	730	131	0	0	340	0	73	340	304	1,204	- 46T	22/	333	349	026	46 3	1,101	972	104	493	1,706	,546 17,9	3,	612 2,	027 1,9	58 3.1	15 942	2.865	1 0	-			0	0 0	0	44,
rts—	37. Imports from other Colorado River Sub-Basins 38. Imports from outside Colorado River Basin	1 520	6,841	110	2,430	1 204	3.624	152	201	1 072	621	46	682	1,231	223	158	63 1	73 1,450	877	147	549	997	104 1,8	36 3,	757	309 1	81 2	33 9.513	392	6 526	1 215	1 0		0	0 0	0	47
					2,430	2,204	3,024	127	481	1,872	1,257	,432 3	, 205	1,129	7,049	2,206	403 3,7	60 11,194	12,790	4,147	7,652	15,611	,326 19,5	15 39,	942 25.	261 8.4	82 8.9	93 16.113	1 007	16 241	2 781	9,847		3,848 11,8	03   1,030	6,383	47, 64,
	39. Total Gross Outlays	8,069	18,574	1,965	11,324	13,943	28,563	3,370	3,496	1,872 6,560	7,283 20	.137 15	.889	14,197	19.617	7,979 1	653 4,3 140 2 39 7 46 3 63 1 403 3,7 ,706 15,1	33.836	39.971	13.818	35.411	93 625 10	961 133 3	12 750	220	225		20,113	2,07/	10,241	3,/51	70,862 23,007 1,005 15,189 0 0 9,847 95,205 414,582		3,848 11,8 25,644 80,5	522 8,275 3	,	470,0
		4		1	-				1	1	,	,			,	,	,		,-,-	12,010	423477	133,053 T	, 301 122, 3.	LZ   152,	310   48,	2/5   30,4	88   31.5	l3   159.430	96 750	147 004	64 003	434 500	,	23 223	56,340 40		

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	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
dustry oducing		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 Manu- facturing	Wholesale trade	Service stations	Eating & Drinking Places	All other retail	Agricultural services	Lodging	Other Services	Transpor- tation	Electric energy	All other utilities	Contract Cons- truction	Rentals & finance
	1. Range livestock	.099888	. 248973	0	0	0	0	0	0	0	0	0	.006560	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	<del>                                     </del>		<del> </del>
	2. Feeder livestock	0	0	0	0	0	.000560	0	0	0	0	0	.034425	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	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		
	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	1 0	
griculture	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	
	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		
	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	1 0	0	-	
	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		
	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	
lining	10. Uranium	0	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	
	11. All other mining	0	0	0	0	0	0	.012166	0	0	.008650	0	00	0	.201863	0	0	.211386	.163012	0	0	0	0	0	0	0	.010482	0	0	1	+
	12. Food & kindred products	0	0	.152672	0	0	0	0	0	.070427	0	0	.008704	0	0	.000255	0	.000209	0	0	0	.232371	0	0	0	0	0	.000603	0	<del></del>	00006
	13. Lumber & wood products	0	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	.000101	.000520	.003564	.00000
	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	.000664	0	0	0	0	
Manufacturing	15. Printing & publishing	0	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	.00414
	16. Fabricated metals	0	0	0	0	0	0	0	0	0	.001373	0	0	0	0	0	.027594	0	0	0	0	0	0	0	0	0	.000580	0	0	.008494	100414
	17. Stone, clay & glass	0	0	0	0	0	0	0	0	0	.003707	.008321	0	0	.035188	0	0	.009732	.003388	0	0	0	0	0	0	0	.001781	.000034	0	.034802	.000155
	18. All other manufacturing	0	0	0	0	0	0	0	0	0	0	.004548	0	0	.017646	.008657	0	.000209	.001882	0	0	0	0	0	0	.000096	0	.001073	0	.000256	.00013
	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
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
ta e	21. Eating & drinking places	0	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	.000331
<u>                                     </u>	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
	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	
Services-	24. Lodging	0	0	0	0	0	0	0	0	0	0	.000103	0	0	0	0	0	0	.000439	.001512	.001131	0	.000869	0	0	.000328	.010647	.000201	.000325	0	.000486
	25. All other services (except professional)	0	0	.018321		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
_	26. Transportation	0	0	.027481	0	0	.055386	0	0	0	.016889	.028529	.011886	.006009	.047658	.024316	.025195	.014319	.019482	.095036	.065777	.012257	.0159 <b>9</b> 8	.272759	.000436	.014596	.053900	.022059	.014016	.008516	.007101
Utilities	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
	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
	29. Contract construction	°	0	0	0	0	0	0	0	0	.006591	.034162	.001429	.004006	0	0	.001800	.005630	.008878	0	.006789	.005543	.001333	.011624	.026269	.008574	.000331	.008079	.016520	.326101	.004755
	30. Rentals & finance	.006692	.002161	.011705	_012981	.015205	.048034		.050343	.024085	.009337	.069151	005504	.003434	.003777	.022915	.013797	.002641	.026478	.048391	.040733	.044571	.075717	.025051	.021275	.021664	.012926	.205974	.049268	.02461	.004733

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	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
Industry Producing		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	Lumher & 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
	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
	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
	3. Dairy	.002713	.005557	1.042987	.315264	.000229	0	0	,000016	.009514	0	.004239	.161414	.000066	.017862	.002189	.000039	.000809	.000371	.011652	.018252	.000406	.030551	.003197	.000503	.028043	.038379	.012460	.006064	.001790	.031804
	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
Agriculture	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
	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
i	7. Citrus crops	.000006	.000012	.000044	.000033	.045096	0	1.000000	.000078	.000021	0	.020138	.000360	.000313	.027148	.002239	.000227	,001941	.000609	.031076	.012053	.001459	.023528	.629867	.002124	.019567	.189100	.011499	.007206	.013068	.033405
	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	.003259	.002498	.001725	.057676
<u></u>	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		.047818	.000339	.007765	.020564	.008872	.005681	.002074	.038252
Madas	10. Uranium	.000001	.000003	.000009	.000007	0	0	0	.000766	.000005	1.419411	.013915	.000077	.003061	.000277	.000706	.002155	.006036	.000096	. 004752	.001513	.000274	.007111	0	.000330	.010799	.027608	.014210	.010173	.015422	.020434
Mining	11. All other mining	,000004	,000007	.000025	.000019	0	0	0	.003243	.000012	0	1.003423	.000209	.012967	.000472	.002404	.000484	.010407	.004661	.015165	.003198	.000734	.005433	.000001	.000573	.010507	.035155	.040014	.026462	.053053	.086277
1	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	01 3244	.012617	,003718	.049615
	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
	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
Manufacturing	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
	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	.057301	.005082	.024621
	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
	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
	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
= = = = = = = = = = = = = = = = = = = =	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
Trade = 1	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
	22. All other retail	.000004	.000007	.000026	.000020	0	0	0	.000012	.000013	0	.000352	.000214	.000049	.000044	.037186	.000055	.000232	.000381	.006944	.005060	.000704	1.005353	.000001	.001208	. 048696	.022149	.046602	.034810	.004827	.094335
	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
	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
	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
	26. Transportation	.000029	.000060	.000213	.000160	,000001	0	0	.000042	.000103	0	.011599	.001754	.000168	.000114	.001631	.000656	.002107	.000091	.012868	,005290	.007255	.010227	.000011	.011351	.016300	1.060461	.017528	.015124	.002658	.022530
Heilieinn.	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
L	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		.000695	070288	.021779	.010559	1.009924	.026637	.060342
	29. Contract construction	.000006	.000013	.000045	.000034	0	0	0	.001511	.000022	0	.011861	.000367	.006043	.002352	.001305	.012993	.052456	.000510	.032656	.013066	.001447	.013006	.000002		018791	.020455	.008312,	.008113	1.486072	.045744
	30. Rentals & finance	.000005	.000010	.000036	.000027	0	0	0	.000010	.000017	0	.000205	.000293	.000040	.000030	.004644	.000075	.000461	.000051	.001785		.000920	. 004555	.000002	.000619	.012408	.008869	.005709	,009961		1.046639

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 1960
Table LMS-1960-c

	Industry Purchasing											Sector																	-			
Industry Producing	*	l 2 Range Feeder	Forage Feed &	5	5 7 All Other	8	9	10	11 Food &	12 Lumber &	13	14 All Other	15	16	17 Eating &	18	19	20	21	22	23	24 Contract	25	26	27	28	29	30	31	32	3.2	
	1. Range livestock	Ilvestant Idvestant	Dairy Food Crops	Forestry	Agri- culture Coal	oal Oil & gas	Uranium	m Mining	Kindred Products	Wood Products	Printing & Publishing	& Manu-	Wholesale Trade	stations	Drinking !	All Other Retail	Lodging	0 . 1	A A WALLED	Electric	All Other Utilities	Construc-	Rentals & Finance	State & Federal Gov't	Local Gov't	Wages	Other	Change C	ORDITOT .	Exports Outside. the CRB	Exports Inside	34 Total Gro
Agriculture		0 228	<u> </u>	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	282	1	Hayes	Income	(additions) For	COLMACTOR	Life CRB	the CRB	Output
	4. Forage, feed & food crops 5. Forestry	0 0	4 7	0	0 0	0 0	0	0 0	316	0	0 0	0	C 0	0	0	0	0	0	0	0 0	0	0 0	0 0	0	0	944	- 58	0	0	6,353	2,434	10,24
}	6. All other agriculture 7. Coal	10 0	0 0	0	30	0 0	0	0 0	0	4,474	0	0	0	0	0	0	0	0	0	0	0 0	0	0	212	0	9 0	<b>1</b> - <b>1</b> - <b>1</b>	0	0	0 79	0	550 336
ining	8. Oil & gas	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	15		0	0	0	0	1,216
1	9. Uranium 10. All other mining	0 0	0 0	0	0	0 137	0	J 0	0	0	0	438	0	0	0	0	0	0	0	1 0	0	0	0	1 0	0	73		7	0	0	280	2F
nufacturing	12. Lumber & wood products	0 0	0 0	0	0	3 0	47,844	3 0	0	0	0	241	0	0	0	0	0	0	0	0	0	0	0 0	87,076 1,426	0	0	ged .	0	0	3,610	0	57 138,53
	13. Printing & publishing 14. All other manufacturing	0 0	0 0	0	0 0	0 0	280	0 0	47	86	0	41	0 0	0	120	0	77	19	0	0	0	548	0	356	62	6 617		263	0	944	1,230	4,17
ade 1	15. Wholesale trade 16. Service stations	85 0	3 32	174	0 7	2 1 10 11	28	1 48	4 5	77	31 3	3 4	43	3 39	41	32	1	27 57	2,837	26	103	16	3	6	267	639		2,446	3,428	3.034	11,078	22,1
1	17. Eating & drinking places	58 0	1 9	27	3	1 2	98	13	1 0	13	1	0	58	77	79	62	5 9	108	1.160	10	51	38	5	302	468		E -	1.203 952	180	1,023	3,995	16,8f
ervices 1	19. Lodging	308 10	0 0 7 55	0	0	0 1	6	1 24	0	2	1 12	0	0	0 ]	712	0	100	5 21	61	5	5	9	26	156	34	2.036 1.804		36	0	1,544	2,056	8,12
	20. All other services (except professional) 21. Transportation	0 0	0 0	0	0	0 1	4	2	0	0	0	0	0	1 0	0	0	0	0	0	1	0	0	43	221	109	12,055	the	1,693	2,541	785 172	5,177 1,018	8,07
tilities 22	22. Electric energy 23. All other utilities	10 0 39 1	9 0	0	0 2	11 8 4	14,000	0 38	78	939	65	47	140 827	96	32	608	165	48	1.732	4 45	166	3,890	1,453	1,603	447	289	2 -	9	0	520	4,418	5,072
24	24. Contract construction 25. Rentals & finance	25 0	1 4	0	2	2 6	1,083	5 68	15	542	14 7	326	79	83	92	573 220	28	71	91	824	35 52	100	123	218	301 269	2,082	a a	0 B	1,926	264	4,511	29,30
	26. State & Federal	603 1	6 52	96	0	116 2 15 28	1,840	76	36	0 8	29	231 33	136	279	192	25 1,200	23	120	138	26	40 155	15,380	70	13,069	6,397	1,959	- # - # -	0 1,198	0	39	183	4,187
useho: de 28	27. Local	257 1 340 2	2 43	659		19 25	360	0 196	27	782	74	631	108	132	58	786	193	138	532	13	36	414	731	3.160	281	10,200		0	0	843	303	19,29
(29	9. Profits & other income	1,416 13 3,425 144	38 124	111	6 14	27 7 69 36	22,170	0 1,724	237	4,195	301	96 1,321	1,455	3,135	1,905	257 7,542 1,434	286 779	77 1,367	169 883	201 268 136	2,789	158	409 986	0,115	822	16,946		0	0	315	775	27,468
31	Aventory Change (depletions)		47 304 0 0	1,619	80	4 19 9 0	5,800	0 181	25 26	2,797	65	944	977	63	67	1,434	838	881	0	10	0	842	12,719	754	7,708	206 3,359		0	1,200	630 431	775 40 1,057 480 0 0 338 7,391	86,841
	Imports from outside Cal	848 8	36 141 7 80	123	15	18 116	20,700	53   13	22		33 54	721	539	33 58	15 2,034	1,974 443 369	1,476	378 1,041	1,447	1 1 5 3 2	311	3,313	1,249	0	0	0		0 0	0	0	0	7,632
34.	4. Total Gross Outlays  ales by the industry at the left to all industries  p of the table. Each column shows	10,241 550	35 131 336 1,216	192	46 267	62 167 388 575	22,317	718	78	2,474		2,446	1,593 8,125	1,377	2,417		620		18,041	3,022	248	16,360	128	1,376	315 173	8,226 21,696			4,300 11,170	162 8,213	338	50,845

Lach 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)
LITTLE COLORADO SUB-BASIN 1960 Table LC-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	23	24	25
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		All other utilities	Contract construction	Rentals & finance
	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
	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
	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
Agriculture—	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
	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
	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
	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
	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
Mining-	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
	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
	11. Food & kindred products	0	0	0	0	0	0	0	0	0	0	.040552	0	0	0	0	0	.014875	0	.000395	0	0	0	0	0	0
	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
Manufacturing	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
	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
	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
	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
Trade	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
Ret	18. All other retail	.030075	.018182	.020833	.04,5230	.006001	.093633	.010554	.003478	.001451	.006174	.002588	.002378	.013201	.000377	.004546	.006107	.088261	.007228	,006715	.003157	.002526	.000584	.005731	,000564	.002229
	19. Lodging	0	0	0	0	0	0	0	.001739	.000029	.000515	0	0	0	0	0	0	0	0	0	0	0	.000146	0	0	0
Services	20. All other services (except professional)	0	0	0	0	0	0	.029024	.013913	.001299	.004374	.010354	.005582	.019802	,001131	.018719	.012383	.022933	.034333	.032589	.019997	.004915	.000729	.039637	.002155	.075320
_	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
	22. Electric energy	.003808	.001818	.005952	.102796	0	,007491	.005277	.010435	.007818	.036275	.012942	.028013	.015402	.020480	.002674	.014080	.011404	.032356		.010675	.003106	.120204	.008357	.000829	,006376
Utilities	23. All other utilities	.002441	0	.002976	.003289	0	,00374,5	.005277	.003478	.001696	.017494	.004314	.002222	.007701	.001445	.010563	.003902	.009917	.012423	-	.016539	.004710	.006127	.012416	.001658	,015292
	24. Contract construction	0	0	0	0	0	0	, 306069	.003478	.005775	.019552	.006903	0	.001100	.014512	0	.001696	,000620		,000988	0	.002150	.000438	.009551	, 254982	.003629
	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		.043025

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	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
atry hasing		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
	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
	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
	3. Dairy	.000835	.002014	1.014426	.408070	.000024	.000001	,000002	.000847	0	.000355	.000003	,000100	.000248	.023443	.007211	.010313	.000176	.040332	.000010	.005385	.030993	.057338	.006331	.000978	.041602
culture	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
	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
	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
	7. Com	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
	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
g ———	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
	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
	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
	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
acturing	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
	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
	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
	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
ii ii	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
Ret	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
j j	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
ces	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	-
	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
	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
ies	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
	24. Contract construction	0	٥	.000002	.000001	.002848	,000001	.000086	.000496	0	.000209	.000007	.012315	.000439	.013735	.003139	.004127	.000454	.001259	.000001	.006401	.093524	.002810	.003469	1.343051	.033355
	25. Rentals & finance	0	0	.000007	,000003	.00067	,000005	.000001	.000076	0	.000032	.000024	.000291	.000542	.002093	.002045	.000675	.001519	,002902	,000001	.081504	.007849	,008998	.017776	.005411	1.047734

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 Purchasing					T																													1												T			7				
	Edicildoriid ,	1 2	3	4 Forage,	5 '	6	- j 7	8	9 '	10	11	12	13	14	.4 1"	.5 1'	٥   17	.1	18	19	20	21	20	1 22	,	25	.5 2	26 "	27	28	29		30 31	31 J	32	33	3	4٤	35	36	3	17	38	39	40	41	1 42	43		1 44			1	
		Range Feeder	er	Feed &					All Other	.eT		All Other	Food &		Furr	niture, _			_		20   1	24	22	1 23	411 0+1	1			Eating &	1	Agri	1-		Other	m	Flect	210 211	ather /	Contract	Rentals &	£ 1 2	tate ;	1	P	rofite &	Tarrantarra	Gross			f Exc	Exports		*	1
J		livestock livestoc		ry Food Crops	LOTTON	vegetables	Citrus Crops		Agri- culture	77	Copper	Minima			ood &	& Paper		micals meta	Primary Printi	nting & Far	abricated Texti		Leather & Leather Goods 1			trade		D D	Dark alekson	All other		tural Lodg		0	Trans- portation	on Electri		lities Co	Construc- tion	finance			ocal vernment W	Wages Ot	Other	Change (additions)	Capital			e Outside		1	1	Tota
7	1. Range livestock 2. Feeder livestock	0 31,983	_3 0	J	0 6	0	0 0	J O	, -	0 0		,	A		-5			-					60003	& Grass		- Ig					. —	-	0	0	0		0	0	0		++	223	0	475		0	Formation						_	
	2. Feeder livestock 3. Dairy	-1 0 0	0	1,041	1 0	J r	0 115	0	2	0 0	7	7	532		- r	0	0	0	0	0	0	0		1 0		<u>-</u>	2			0		0	0	0	0		0	0	0	0	11	0	0	682		0			0	-	439		4	
,		1 0 0	0 413	472		J	0 52	4 0		0 0	+ <del>-</del>	0	28,000	2		0	_ o _ r	0	0	0	0	0	- 0	+ 0-		<del></del> -	0	0		0	. +	0	0	0	0		0	0	0	0		0	0	759					0	57,2	231		-	
re 5	4. Forage, feed & food crops	2,085 17,228	<u>d</u> 11,784		0	0	0 0	J 0	0 1.256		-	0 0	23,222	<del></del>	<del>*</del>	0	- C	0	0	0	0	0	-	1 0	+	<del></del>	0	0	0	0		0	0	0	0		0	0	0	0		628	0	Q		0	0	-	110	2,0	453		_ 1	1
	6 Vecetables	† · · · · · · · · · · · · · · · · · · ·	<del></del>		0	0	0 0	0	0	0 ا		0 0	13,972	12	-	2	0 '	0	0	- 0	- 0	~ ~		1 0	<del></del>	2	0	0	0 1	0	. 1	0	0	0	1 0		0	0	0,	1 0 '		557	0	0		0	0		19	126	,109		_ '	
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	6. Vegetables 7. Citrus crops	1	× 0	<u></u> u	2	0	UO	0		ي و		. 1	387		<u></u>	~	-0 - '	0	0	- 0	~ ~	- 0		1 0	<del></del>	2	0	0	0	0		0	0	0	1 0		0	0	0	1 0		0	0	0		0	0	<del></del>	-	120,	49 003	. 1	-1	<del> </del>
1	8. Forestry	+ 7	2	~ · · · · · · · ·	2	0	0	0	0	0	C	0 0	2 450		7	2	<del>-</del>	0	0	0				1 0		2	0	0	0	0		0	0	0	1 0		0	0	0	1 0		0	0	0		0	0		n	40,0	1001		-1	+
	9. All other agriculture	1 0	7	~	- "	0	0	0		J 0		0 0	1	0 1.62	.39	2	- V	0		- 0		0	0	<del>1 0</del>	<del></del>	6	0	0	0	0		0	0	0	0		0	0	0	0		0	0	Q		0	0		0	1	1330	Δ	- #	+
<b>}</b> —,"	10. Uranium	1	3	~·	0	0	0	0	0 '	_ 0		0	1,505	.15		0	0	0	0	0	0	0	0	t 0	+	ó t	0	0	634	0		0	0	0	1 0		0	0	0	1 0		134	0	4,066		0	0		83	1 2	2 935	<u> </u>	!	+
	11. Copper	0	7	7	0	0	0	0	0 '	- 0		<u> </u>		0	0	0	0	<del>0</del>	0	0	0	0	0	1 0		ó	0	0	0	1 0		0	0	0	- 0		0	0	0	0 '	<b>—</b>	0	C	0		0	0	5	563	1	7333	a		-
	12. All other mining	1 0	<del>7   7</del>	7	ń ·	0	0	0	0 '	0	5,590	ٔ و ایر		0	0	0	0	0 30	300,720	0	0	o l	0	0		ó	0	0	0	1 0		0	0	0	1 0		0	0	0,	0,		0	0	0		2,568	0		0	(	- 0	$a^{-}$		
	13. Food & kindred products	436 4.0"	124 87	17	0	~	0	0	0 '	0	733	33 6.800		0	0	0	0 2.4	431 7	17.924	<del></del>	0	0	ō	3,553	13	.3	0	0	0	0		0	0	0	900		0	0	3,200_'	1 0 '	5,	310 1	520	608	^	1,050	0		0	1 23	∠3.425	<u>.</u> –		+
\ \ \frac{1}{2}	14. Lumber & wood products	0	<del></del>	<u></u>	0	<del>6</del>	44	0	1,793	0	2,351	4 0	4.62	∡3.	0	0	0	0	73	3	0	0	77	0	19	7	0	0 12	2,078	0		0 '	731	170	1,841		38	0	0 1	0 '	1,	713 2	_,141 1'	<u>116,673</u> m	-	6,967	0	4,6	٥50	28	28.801	. 1		1
7	15. Furniture & fixtures	0	<del></del>	0-+	0	0	0	0	0 '	6 '	951	367		0 24'	48 6"	11 1.	498	0	610	0	0	0	0	0	19	/2	0	0	0	0		0	0	0	1 29		41	0	5,234	1 0 '		554	475	5,443 F	<i>i</i>	4,918	4,239		0	2	2.532		-+	1
, , ,	16. Paper & pulp	0	0 7	0	0	0	0	0	0 '	0 '		_ O '		0 7	0 850	<b>450</b>	0	0	0	0	0	0	0	0		0	0	0	0 1	0		0	0	0	+ 303		0	0	0 1	0 '		389	34	3,145	1	1,419	1,365	1,4	+51	5	o. 045	ے د		
J"	17. Chemicals	0	<del>6</del> 1 - <del>7</del>	0 7	.40 2.07	72 2 731	21 227	. U	. 0 '	0 '	0 '		170	9 /	0 20	493 -	299	0	0	665	0	0	0	0	14	.1	0	0	0	32		0	0	0	121		0	0	0 1	0 '		0	0	0 0		606	í O		0	1 2	2.654	4		
, , , , , , ,	18. Primary metals	0	0 0	0	0 2,0,2	01-2,731	341	0	. 60	0 '	4,000	872		0 7	0	0	0 1	405	321	0	0	0	0	1 0		0	0	0	0	0		0		2,272	+		0	0	790	1 0		0	0	733		2,802	1 0		0		518	3		-
	19. Printing & publishing	0	0	0	0	0	0	^ <u> </u>	. 0 '		340	846		0 6	0 ]	0	Ö	0	0	0	734	0	0	0	1,35	1,	0	0	0	0		0	0	7 750	120		121	207	106	1 145	28.7	461		0 - 5	+	5,361	0		0	352	4,478	_ د		-
2	20. Fabricated metals	0	0 7	0	0	<del></del>	0	0		2	791	197	126	.6 75	/6 1°	_01	15	75	761	726	78	8	1	73	97	1 10	_43 6*	011	302	10,339		0 1,	107	1,758	420		122	207	100	1,146		836	489 1	10,641	ي	992	0	51	ـ 16	9.	9,117	, -	-	7—
2"	21. Textiles & apparel	0	0 5	0	0	0	0 0	~ <del></del>		_ + 3 '	2,372	745	1	J 14	44	0	0	0	591	52	1,102	0	0	0	1,21	.9	0	31	0	858		0		241	1,310		<del>-3</del> +	160	12,825	201	-	32	484	2,530	4	4,143	1,993	2,55	254	5.7	٥,623		$\rightarrow$	+
27	22. Leather & leather goods	0	0 0	0	0	0	0	A 0		0 '	0 '	- 0 1		U C	0 7	0	0	0	0	0	0	0	0	0		0	0	0	0	1 0		0	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	0	+	-	0	0		4	#	0	0	2,093	1	1,518	0		0	10,0	J, 972	_	+	
2,7	23. Stone, clay & glass	0 /	0 1	0 /	0	0	0 1 0	2 0	. — — — — — — — — — — — — — — — — — — —	10	0,	0 1		J r	0	0	0	0	0	0	0	0	0	0_		0	0	0	0	256		0			1 0	<del></del>	0	0	17 299	1	++	340	200	2 500	A	47 1	1,500	1 7	12	-	173		+	+-
2	24. All other manufacturing	0	0	0	0	0	7	~ - 0		18	1,423	673	11)	.1 381	٠ ا	0	0	0	502	9	0	0	0	4,888	27	1	16	0	0	266	_	- 0		7 567	1 2 7 7 5	<del></del>	250 1	702	17,299	4	1,5	340	290	2,590	·	-,	,	,	0	1	494			1
. 2"	25. Wholesale trade	106 50-	97 165	51"	.11 2.35	50	62	7	300	0 ,	632	591	216	0 37	J3 8°	83	0 F	68	1,473	161	479	13	0	57	36,48	2 2,14	.41	0	0 ,	358		0 7	1 151	2,660	1 818		28 1,	427	3,404	1 791	049	338	4 932	2,431	4	29,908	30,767	5,67	,11	82,	2,137		-	i
I 77	26. Service stations	404 17-	_12 211	11 56	05 1,685	48 542	.49 57	, 30	323		2,117	939	586	8 37"	-6 27	_37	0 7	35	262	472	595	39	0	299	87	/B 2,36	,61 2-	<b>∠</b> 70 7	/,139	2,840	-+	./8	151	3,000	1,010			1 909	1 644	170	***	740	710	15 761	ó	33,766	28,654	4,80	,00	18,7	J, 461		+	_
2 2	27. Eating & drinking places	0 7	0 0	0 7	0	0	0 0	7-30	42	- t - t - '	535	191	86	0 0	0 ) -	13	0	0	107	107	Ō	32	0	22	17'	8 1.7	.31 17		142	790	1,40	-06	719	210	1 417	+	147	0	503	1 1 031		208	310	10,701	4	837	66	44	42	1,11	_,154			
27	28. All other retail	157 2,251	_51 510	19 1,665	05 7,752	2 2.06	63 196	_ 12	1 252	· ·	74	126		0 12	_2 -	7	29	0	88	35	0	2	0	0	16	,1 17	.19	60 1	4,157	707	-	200	300	2 036	1 630		412	940	5 336	1 401		340	2 326	257 909		2,262	83	5,56	.69	44,2	.,269		7-	
2	29. Agricultural services	0 1,437	.19 C	0 3,500	JO 24, 26?	.02	0 2.398	4 0	262	- t - b '	744	1,302	390	J 63F	20 4"	45	0 0	40	462	488	41	82	3	82	47	5 5,66	.65 1"	<u>450</u> 1	130	2,703	~	89	727	2,030	1 0	-	0	0	3,330	1,401		192 +	0	37,005	4	51,414	6,592	4,59/	94	49,7"	-, 377			
30	30. Lodging	0 ]	0 0	0 6	0 0	0	0 0	.,	203	1 - 1 - 1	+ 0'		40	<u>v</u>	٠	0	0	o l	0	0	0	0	0 1	0		0	0	0	0	236	-	0	0	91	311		50	288	0	1 74	#	291	286	1 948 +	á	0	· · · · · · · · · · · · · · · · · · ·	14"	40	4	0		1	
3-7	31. All other services (except professional)	0 7	0 0	0	0 0	0	0 0	., 0	0	1 t	4.05	1 000	- 67	8	9 7	0	0	0	161	10	0	1	0	0	9	8 1,76	34	35	7 221	11 216		444 3.1	3 173	7.388	2.836	-	112 5	5.504	4,416	1,888	3.	440 5.	5.321 8	82.468	a ————	9 046	3/17	3,12	43	37,95	,982	-	7	
	32. Transportation	0	0 75.7	J 947	1,350	41 5,18"	.02 0	J + 0	50	.+	4,001	1,022	2,314	• 713	5-	٠ 7 -	28 20"	.05	599	686	523	49	4	878	97	71 6,24	46 00	741	1 231	9,629	1		214	2.076	2.901		094 3	4-250	2.142	1 74		984 7	3, 162	3.394	á	9,046	34/	3,/10	10	21,70	, 194			
33	33. Electric energy	1 153 120	.20 165	J 14°	.3 397	1 142	+2 142	∠ 0	12	/ 31	4 197	4 3.381	4,698	958	41/	14	9 21	10	7,622	874	182	60		2,059	2,86	2 13.37	770 3	270	1 113	8,342		226	126	1.698	988	15.5	450	306	407	2,244	3.	352 0	4,224 3	35.132	a	1 341	660	1,81	200	6, 0F	, 063			
37	34. All other utilities	77 80	d0 3.3	٥ .	U 300	N T	0 0	1 0	21	. 1 A	5 621	1,859		368	200	J9 -	29 13"	.35 /	6,131	369	255	103		396	1,97	1 11,73	38 1,4	7/8	2 141	7,869	.a F	830	1.661	3.009	3.241	3, -	<b>∠25</b> ]	4.539	1.461	3,241	2.	833 ?	1.388	86.454	<u></u>	4.548	2.831	1,77/	12	2,49	,480	_		
3*	35. Contract construction	0 0	0 0	J C	0	0	0 0	J 1 0	0	17	3.021	7 1,008	1 647	239	179	/8   -	57 10"	J2 7	1,003	542	221	62		307	89	9 3,40	984 53	537	277	3.669	.4	0 1	1.341	1.580	213		0 1	4. 387	136.497	11,073	82.	108 19	9.692	22.447	4	38 999	1 68 089	7 7	140	17,77	, 176	_	_	
31	36. Rentals & finance	3,741 1,623	23 477	958	6,962	1,212	12 870	35	202	1 6	787	2 612	1,334	98		0	0 7	0	622	147	0	113		0 25	2,11	3 2 7	241 )	302	3 076	12,020	0 1.5	891 ]	1.849	6.778	4,519	5,0	J16 5	.616	9.912	7,302	23.	261 4	4,214 1	145,105		191			275	20,62	024		_1	
1t	37. State & Federal	808 263	.03 124	± 3P	.0 2,282	£ 60°	J9 13	353	13	. 48	32.43/	4 2 842	5.421	842	26-	5 5	08 46	ا کاد	168 1	_,164	553	342		235	1,63	47 6 0	002 1	495	1 437	5,260	.0 7	393	783	4,281	3,521	9,0	J93 14	532	3,667	6,608	55,	975	962 3	352,406			0	2.0	122	25,08	J85	_		<b>→</b> ^
15	38. Local	1,487 348	48 206	7.579	1 10,686	1,482	609 13 182 181 1839 347 166 516	41	434	18	12.297	1 1 018	7.308	384	21	1°	31 7	15 /	4,471 2	-,124	805	- 55		929	11,41	3 0,55	058 27 874 12,40	270	657	1,983	.3	243 1,9	1.570	705	1.857	6,8	878 4,5	587	516	6,608 4,761	60.	273 4	+.951 1	133,666		<del></del>	0 0 0 5,217 0	4.000	A71	11,49	496	.—	_) ~	
39	39. Wages	965 1,660	1,524 0	4,313	12,749	8,839	347	496	605	185	93,100	1 16 480	32 41	7 00	4'	A7	43 4	*1	968	815	11 052	730	122	10 610	120 0	21 82 8	274 12	402	29 318	188.964	4 4,P	.678 13	3,467 53	53,629 2	27,249	25,0	J04 45	5,358 15	152,855	70,447	216,	207   138,	18.446 j	7.831		0 1	5,217	22.3	440	4,30	283	. —	_1	-  ~
40	40. Profits & other income	9,536 11,853	6,176 د	76 5,098	311 12,749 98 31,647	7,366	o 516	480	1,814	43	8,400	0 3,286	36,410	7,893	3,31/	7 80	3,68	31 2	3,471 10.	7,661 17	4,052	241	34	1 000	138,82	36 11,93	938 2.	.864 8	8,122	188,964 22,699	₹ 3,5	678 13,4 540 1,8	1,811 )	13,987	2,005	13,5	560 4,3					923 5,	5,417 6	67,558		0	. 0	1.7	/58	410	4 651	-	'	1,
47	41. Inventory change (depletions)					9 1	0 1 0	0 1 0 1	0	0	7.674	4 1 1,003	4,262	956	56 659	19	39 Z6'	30 /		3,000	2 420	1 602	20	2 000	24 1			-	1 455	42 057	. 7	Λ 1	0 1 8	8 931	1 0	2,6	17 4	4.126	9 889	205 8,083 1,900		0	0	0		0	, 0		0  -	417,05	231	. —	ل	P
47	42. Depreciation allowances	4,747 1,104 0 6,353	J4 2,948	4,744	9,838	38 2,563	3 282	45	686	65	32.057	4 1,003 7 3,427 0 0	7 13	4,585	85 1,412 16 334	2 4	485 2,087	37	863	1 047	3,429 1,	,602		2,000	13 4	4 - 5 2	223	946	2.747	42,953 3,672	2 4,5	665 4	4,571	6,416	1 2,710	11,3	.23 6	4,126 6,067 4,036	6,890	8,083 1,900 11,517 301,885		0	0	0		0	,		0		0	. —		
43	43. Imports from other Colorado River Sub-Basins 44. Imports from outside Colorado River Basin 45. Total Gross Outlays	0 6,35%	370 1 11	11 7 11	11 1 221 1	0	0	0	0	0	02,02,	1 7 0	2,137	010	330	14 17	133 1,565	25	3,838 1,6 0 11,623 8,6 369,571 42,1	4,847	232	35		4,314	13,70	19 3 2	339	900	0	6,00F	16 /	483	828	1,198	1,972	1,2	∡61 4	.,036	3,691	1,900	4,/	688 3	3,409 3	31,388		0 13,449 176,171 I 396,497	13,920	1.80	198		1 001	_		
4/	4. Imports from outside Colorado River Basin	8,943 5,991 33,652 87,069	1,003	4,897	26,055	15,035	ور 1,192	148	531	104	74. 366	× 115.912	1,013	3,766	- P	0	0 / /	0	0	384	282	4 000	46	3 864	20.2	63 42 6	28	539	25 503	72 63	44 10	201 10	0 6074 6	62,435	31,369	14,0	J95 60	J. 553 1	108,890	11,517	84.	051 2?	3,516 39 31,480 1,92	390.677	1	126 121	195,983	18 9	310	2,90		_		<del>-</del> '
	45 Total Gross Outland	33,652   87,060	J69 127 371	37 200	J9 141.247	4 48 390	49 6 700	8 1,645	9,357	+	/4,500 .	10,722	48,567	3,396	0 4,20	45 4°	-05   6.30	-56	11,623	3,603 1	_/, /0.3   4-	4,9 <b>08</b> 14,583 3	46	34,764	37,12	18 44,00	.45 5,P	038 5	25,003	14,000		201	- BUILT	89.324	99 414	111	644 1 366	100	500 403	1 301 005		200	1 400 14	007 001		-/6,171	470 000	10.01-	29	114.36	162	_		

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.

Table (:-1960-a

	Industry Purchasing Producing	Range F	2 eeder vestock		<b>4</b> Forage, Feed & Food Crops	5 Cotton	6 Vegetables	7 Citrus	8 Forestry	9 All Other Agri- culture	10 Uranium	11 Copper	All other mining	Food & Kindred Products	Lumber & Wood Products	15 Furniture & fixtures	16 Paper & Pulp	17 Chemicals	18 Primary metals	19 Printing & publishing	20 Fabricateq metals	21 Textiles & apparel	Leather & Leather Goods	d gadoo	24 All Other Manu- facturing	25 Wholesale Trade	26 Service I stations	27 Eating & drinking	28 All Other Retail	29 Agricultural Services	30 Lodging	Other Services	32 Trans- portation	33 Electric energy	34 All other utilities	35 Contract Construc- tion	36 Rentals Finance
1	1. Range livestock	0	.367329	0	0	0	0	0	0	1 0	0	0	0	,002885	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	0	,151866	0	0	0	0	0	0	0	0	0	0	0	0	5	0	Ö	0	-	0	0 0	3	0	0	0
	3. Dairy	0	0	.015089	.012685	0	0	.007661	0	0	0	0	0	,125951	0	0	0	0	0	0	0	0	0	0	<u> </u>	0	0	0	0	0		0	0 0	)	0	0	0
	4. Forage, feed & food crops	.061958	.197866	.430529	0	0	0	0	0	,13423	1 0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-0	-0	0	3	0	0	0
ture	5. Cotton	0	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	<del>-</del>	0	0	0
	6. Vegetables	0	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	2	0	0	0
	7. Citrus crops	0	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
	8. Forestry	.000208	0	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	<u></u>	0	0	0
	9. All other agriculture	0	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	.005461	0	0	0	0	0	<del></del>	0	0	1 0
	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	0
	11. Copper	0	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	<del></del>	0	0	0
-	12. All other mining	0	0	0	0	0	0	0	0	0	0	.002434	.102157	0	0	0	0	.149600	.046112	0	0	0	0	.108771	.000419	0	0	0	0	0	0	0	009053		0	0	0
	13. Food & kindred products	.012956	.046216	.032041	0	0	0	.006482	0	.19162	1 0	.007806	0	.025074	0	0	0	0	.000188	.000072	0	0	.239130	0	.000730		0	.104028	0	0	.015574	.000942	.018519 .00	000349	-0	.006268	0
	14. Lumber & wood products	0	0	0	0	0	0	0	0	0	.010657	.003158	.005513	0	.010401	.049731	.443507	0	.001569	0	0	0	0	0	.000712	0	0	0	0	0	0	0	000292	000193	0	0	0
	15. Furniture & fixtures	0	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	00175	0	.010252	0
1	16. Paper & pulp	0	0	0	0	0	0	0	0	0	0	0	0	.000971	0	.023848	.066371	0	0	.015886	0	0	0	0	.000523	0	0	0	.000086	0	0	0	001217	0	0	0	- 0
1	17. Chemicals	0	0	0	.019888	.014670	.056440	.047289	0	.00641	2 0	.013282	.013100	0	0	0	0	.006462	.000826	0	0	0	Ö	0	0	0	0	0	0	0	0	.012595	0 C	0	0	003547	0
uring	18. Primary metals	0	0	0	0	0	0	0	0	0	0	.001129	.012710	0	0	0	0	0	0	0	.020285	0	0	0	.005007	0	0	0	0	0	0	0	0 0	0	0	.001547	1 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 .00	001202	.001278	000000	- 00
	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	.004518	0 .	001037	0	.002301	0					1 *	000208	.00
	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	5	0	.025120	.000
	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	5	0	0	- 0
	23. Stone, clay & glass	0	0	0	0	0	0	0	0	0	.031972	.004729	.010111	.000602	.015980	0	0	0	.001291	.000215	0	0	0	.149640	.001004	.000077	0	0	.000713	0	0	0	0 0	200083	0	033004	+-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	.014784	057698 0	008792	.011063	006705	0
in a	25. Wholesale trade	.003150	.006857	.005846	.013733	.016772	.012710	.009134	.0030	.03452	0 .001776	.007029	.014107	.003178	.015686	.019290	0	.002154	.000674	.011275	.015891	.003004	0	.007011	.003243	.011295	009030	.061489	.007617	.008692	.024523	.020289	018287 0	J02661	.010106	042764	000
	26. Service stations	.012005	.001975	.007709	.015184	.011951	.011346	.008397	.0182	.00448	9 .001776	.001776	.002869	.000466	0	.001058	0	1 0	.000275	.002556	0	.002465	0	.000674	.000660	.000627 .	004047	.001223	.001202	.040210	.015319	.011686	002857 0	000064	.011785	003220	.00
4	27. Eating & drinking places	0	0	0	0	0	0	0	0	0	0	0	.001893	.000195	.000503	.000570	.006437	0	.000226	.000836	0	.000154	0	0	.000597	.000856 .	002007	.009965	.002116	.009036	.010653	.001164	004195 .0	003184	0	000985	.00
18L	28. All other retail	.004665	.025853	.018962	044747	.054884	.042635	.028874	.0072	95 ,13380	4 .010657	.002470	.019560	,002115	.026674	.003663	0	.002462	.001189	.011658	.001133	.006317	0	.002510	.001760	.027101 .	005017	.009/33	.007250	.009036	.015489	.011286	006337 0		.005803	010452	.00
	29. Agricultural services	0	.016297	0	.094063	.171774	0	.3532/0	0	.02810	7 0	0	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
	30. Lodging	0	0	0	0	0	0	0	0		0	0	.001022	.000363	.000336	0	0	0	.000414	.000239	0	.000077	0	0	000363	.008439 1	001171	0 00000	.000630	0	0	.000504 .	003128 .0	000459	.001778	0	+00
-	31. All other services (except professional)	0	0	0	0	0	107000		1 0	- 0	.00888	.01345]	.015354	012551	.029820	.004639	.006215	.012615	.001541	.016388	.014454	.003775	.012422	.026879	.003599	.029881 .	021438	.062281	030083	077000	.067603	.040955 .0	028527 0	01028	.033980	.008650	.00
	32. Transportation	004545	0	.027511	.025451	.009586	.107093	0000010	0	.00534	4 0	.027606	.050793		.040180	.033697	.044173	.012923	.019609		.005030	.004622	.003106	.063034	.010607	.063986	046087	.013979	.025827	.073010	.004559	.011508 .0	029181 .00	006369 .	.007717	.004196	.00
	33. Electric energy	.004547	.001378	.006028	.003843			.020919	0	.00128	2 .055062	.013896			.015434		.006437	.008308	. "OTD//2	.008815	.007047	.00/935	.006211	.012123	.007305	.056154		.018441	1	.007066	.002685	.009413 .0	009938 .14		.001889	.000797	.00
	34. All other utilities	.002288	.000919	.001206	0	.002124	0	0	0	.00224	4 .007105	.018664		,003509	.010024	.014488	.012653	.006277	.002580	.012948	.006108	.004776	.009317	.009398	.003332	.016687	032876	.018441		.025952	.035389			029596 .		.002862	.01
	35. Contract construction 36. Rentals & finance	0	0	0	0	0	0	- 0	0	0	.03019	.010018	0	,007235	.004110	003560	.015094	,	.001600	.003512	0	.008705	.009317	0	.007849		017960	.003213	.032240	.059127	.028571	.008759 .0	002143 0		.008563	.267357	.036
	36. Rentals & finance	.111167	.018640	.017427	.025746	.049291	.025048	128167	,0212	/// .02158	.010657	.002600	.039240	,029402	.035314	.021569	.015094	.028677	.000432	.027806	.015283	.026346	.018634	1.007194	.006052	.046601	U46555	.020494	.032240	. ODATS1	.039394	.037574 .0	045456			.019415	.024

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.

		stry 1	2	3	4	5	6	7	8	9	10	11	12	13	1.4	15	16	17	10	3.0			22										33	34 35	
	Prod	icing			Forage									-	14	13	10	1	18	19	20	21	22	23	24	25	26	27 2	8 29	30	31	32	33	34 33	
	Industry	Range	Feeder		Feed & Food	Cotton		Citrus	Porcet	All other		A11		- 1		Furniture			Primary	Printing &	Fabricated		Lonthon	Stone,	333 other	vm -1 1 - Co	ioo Est	ina e   211 a	ther		All other	E	lectric A	11 other Construct	ct uc- Rent
	Purchasing	livestock	Livestock	Dairy	Crops	Coccon	Vegetables	crops	Forestry	agriculture	Uranium	Copper min	ing K.	indred roducts	Wood Products	fixtures	Paper & pulp	Chemicals	metals	publishing	metals	Textiles	Leather &	Glass	All other nufacturing	Wholesale Se trade st			il Agricult	ural Lodging		lrans- I	energy u	tilities tion	fi
	<b>↓</b>																					Apparel	Goods	Products			, ,								
	1. Range livestock	1.001463	.003876	.002581	,063942	.001041	.000029	.000034	.000215	.000115	0	.000012 .0	003491 .01	13742	.000093	0	.000039	-001343	- 000015	-001082	.000389	+		.000294	000607	.005303	22.25.60	00522 .00	8921 .00627	2 .000128	002271	.004108	.008213	.005046 .0067	739
- 1	2. Feeder livestock	_ 372830	1.014553	.009817	.228131		.000113		000086	.000442	0	.000025 .0	01003	3785	.000120	0	.000111	.004723	.000032	.001904		<del>                                     </del>	<del></del>	.000294	.000627	003303 .			0387	2 .000254	.004601	.013598	.008303	.006262 .0055	92 و
	3. Deiry	.006674	.017889	1,025625	.445554		000075		,000011	.000295	0	.000054 .0	02065 .03	35703	.000137	0	.000142	.009074	.000068	-002115	001100	1 - 0	Ö	.000255	001329	.014981	017030 .0	00563 .04	2194 .04270	6 .000374	.005566	.048454	.014043	.006990 .0039	390
	4. Forage, feed & food crops	,010563	.028734	.013387	1.012107			000007	.000011	.000025	0	,000067 .0	03849 .00	2752	.000122	0	.000099	.020398	.000085	.002358	000969	1 0	0	000251	003316	017193	119984	00527 .04	8980 .0957	.000357	.006117	.038396	.010264	.006984 .0038	319
•	5. Cotton	.000037	.000095	000079		1.000046	1 000001	0000001	000008	.000008	0	.000053 .0	02839 .00	00612	.000123	0	.000088	.014909	.000067	.002655	.000865	1 0	- 0	.000304	.002678	.020492	019400 .0	00593 .05	8437 .17178	.000368	.007502	.027403	.009897	.011177 .0053	300
- 1	'6. Vegetables 7. Citrus crops	.000139	.000361		.000213	000177	1.000005	1 000000	000016	.000024	0	.000178 .0	10749 .00	2335	.000233	0	.000206	.057057	.000226	.002634	.002257	1 0	0	.000332	.008692	.016407 .	012056 .0	00829 .04	5066 .0000	.000586	.007328	.115023	.009130	016766 0100	044
ĺ	8. Forestry	500000	.018483	.008990	000004	000000	.000018	1.000021	1 000002	.000076	0	.000118 .0	08476 .00	8678	.000217	. 0	.000103	.048038	.000150	.002752	.001205	0	0	.000552	.003552	.015510 .	023695 .0	00999 .03	35863 .3544	.000385	.011060	.032278	.033579	.013780 .0100	013
i	9. All other agriculture	013334	034736	027594	154028	.015174	000420	000489	.000021	1 001630	0	.000003 .0	00040 .00	00047	.000027	0	.000015	.000017	.000004	.000717	.000131	0	0	.000081	,000213	.003530 .	018376 .0	00153 .00	7720 ,0000	.000070	.001053	.001389	.001605	010732 0076	648
-	10. Uranium	000011	000029	000024	-000017	000014	000420	0	000776	000004	1 000000	.000052 .0	02074 .20	0234	.000259	0	.000346	.010004	.000066	.005077	.001118	0	0	.000610	.003373	.041652 .	010077 .0	00777 .14	7272 .0459	.00066	.011429	.027208	.012300	011007 0478	/B 30
	11. Copper	.000535	.001385	.001158	.000816	.000680	.000019	.000022	.000242	000004	1.000000	1 0100173	05211 .00	0187	.011297	0	.000086	.000300	.000219	.004524	.007031	0	0	.039601	.002076	.005207	002323 .0	00416 .03	2756 .0000	.00014	3 .012776	.005158	018942	022093 0154	421
í	12, All other mining	.000103	.000266	.000222	.000159	.000131		.000004	.000444	- 000030	- 0	1.019920 .0	06387 .00	8968	.003521	0	.000114	.013997	.001454	.003482	.009421	0	0	.006446	.005965	.009769 .	002546 .0	00314 .00	4213 .0002	26 .00026	2 .017718	.032088	041562	023363 0047	739
_	13. Food & kindred products	,062072	160803	.134379		.078898				.008503	<del>-</del>	000051	19456 .00	1724	.006470	0	.000188	.015247	.014624	.005310	.014533	0	0	.013757	.017645	.019494 .	004167 .0	02888 .02	4545 .0000	44 .00163	2 .024246	00006	011001	.008620 .0142	1298
	14. Lumber & wood products	.000064	.000167	.000139	.000099	000000	000000	.000003	060406	.000015	0	000031 .0	01268   1.04	1127	.000699		.001174	.003621	.000064	.002125	.001180	0	0	.001361	.004867	.011046 .	006684 .0	00732 .02	0893 .0262	14 .00066	2 .017444	039000	022375	.015023 .0095	570
1	15. Furniture & fixtures	.000062	.000159	.000133	.000095	000079	000000	.000003	DOAFEE	.000016	0	000070	00.677	1078 1	010719	1 074227	.000154	.000521	.000223	.005085	.007559	0	0	.019449	,006309	.019330 .	002174 .0	01102 .02	9721 .0000	27 ,00074	011303	044207	025928	.020408 .0032	3212
	16. Paper & pulp	.000136	.000353	.000295	.000214	.000173				.000061	0	000139	01977 00	2226	400330	1,074327	1 071301	.000160	,000100	.010127	001400	0	0	.001415	.012561	.023956 .	001832 .0	01297 .00	7559 .0000	26 .00044	0 .011203	071665	.019990	.023439 .0062	221
1	17. Chemicals	,000035	.000091	.000076	.000054	-000044	.000001	.000001	.000073	.000009	0	-001769 1	58768 00	0507	003059	0	000140	1 000389	.000151	.006559	.004510	0	0	.009323	.006858	.011195 .	001542 .0	07829 .0.	15071 .0000	35 00037	018208	023898	.017112	.011535 .0028	.831
ing	18. Primary metals	.000458	.001187	.000992	000699	.000582	.000016	.000019	.000322	.000067	0	-789646 O	57148 00	7696	004685	0	000140	012414	1 002245		.002586	0	0	.002173	.009032	.006119 .	000988 .0	00682 .00	06929 .0000	00033	017668	048732	.035701	.022346 .0148	4803
ing	19. Printing & publishing	.000044	.000115	.000096	.000069	.000056	.000002	.000002	.000542	,000013	0	.000067	00452 00	0745	007884		017373	000282	1.001879	005209	.010025		0	.007297	.011606	.009992	002623	00791 .00	0001	00079	020540	025149	.013179	.016304 .007	705
- 1	20. Fabricated metals	.000021	.000055	.000046	.000033	.000027	.000001	.000001	.000011	.000004	0	.016594 .00	01342 00	0357	000163	<del>- 0</del>	000069	000282	.000085	1.018727	.002117	0	0	.000741	.007192	.013562 .	003221	01335 .0.	13458 .0000	79 .00030	7 017335	008215	.011123	.008339 .0020	<b>∠054</b>
- 1	21. Textiles & apparel	.000010	.000025	.000021	.000015	.000012	0	_ 0	.000011	.000003	0	.000019 .00	00239 00	0163	000163	0	.000039	000001	.021055	.002822	1.031934	<u> </u>		.000251	,017250	.017637	000422 .0	00204 .00	2331 .0000	04 00016	4 005156	.005714	.010340	.006121 .013	1742
1	22. Leather & leather goods	.014850	.038470	,032148	.022646	.018875	,000523	.000608	.000027	.002035	0	.000026 .00	0545 .24	9074	- 000347	ō	.000345	001068	000024	.001113	.000532	11.000000	000000	000564	.001993	.004156 .	002/07 .0	00302 .00	55640 0063	71 00021	7 .018061	.013183	.010505	.012449 .017	555
1	23. Stone, clay & glass		.000285	.000238	.000168	,000140	.000004	.000005	.000066	.000020	0	.001542 .14	4099 .00	1845	.000965	0	.000196	002438	001956	.003968	.000782	1 0 - 1	000000	177848	.002025	013600	001967 .0	00328 .00	7804 .0002	47 00061	7 .039854	.086503	.024619	.018590 .0020	.673
ļ	24. All other manufacturing	000078	.000202	.000168	.000119			.000003		.000015	0	.004685 .00	1365 .00	1305	.001344	0	.000746	.000186	005944	004590	006000	1 0		701093	1 157010	005323	001043	00980	12852 0000	33 .00053	8 .005914	.014104	.011117	.005428 .013	,354
1	25. Wholesale trade	.000105	.000272	.000228	.000162		.000004	.000004	.000021	.000024	0	,000116 ,00	.00	1763	.000311	0	.000155	.000520	.000147	.002920	001097	<del>                                     </del>		000888	010550	1 015599	001045	01846	30028 .0000	45 .00892	7 .037156	.069559	.069755	.024019 .018	,109
	26. Service stations	.000081	.000210	.000175	0100125	.000103	.000003	0000003	000037	000026		.000078 .00	0936 .00	1357	.000535	0	.000447	.000412	.000099	.022054	002926	<del>                                     </del>	0	1001203	005446	013258 1	005237	02756 .00	7668 .0000	35 .00158	2 .027524	.050745	.053273	.038668  .028	,994
i i	27. Eating & drinking places	.006628	.01/1/2	.014342	000006	000070	000233	.000271	.000017	.006425	0	,000039 .00	0616 .11	1043	.000225	0	.000227	.001346	.000049	.004423	000924	1 ~		.000524	004493	067050	003293 1.0	10616 .0	16277 .0030	22 ,00080	.072010	.025021	.018868	.024189 .010	/183
<u> </u>	28, All other retail	.000033	.000143	000113	000088	000070	000002	-000002	.000033	.000022	0	.000082 .00	0692 .00	0923	.000480	0 ]	.000634	.000485	.000104	.029312	-003526	1 0	0	.001553	004769	010866	002205	02631 1.00	9378 .0000	24 .00091	9 .035171	.029536	.028886	.025227 .016	/833
	29. Agricultural services	.003058	000255	000213	001621	001344	000003	000004	000011	.000018	0	.000061 .00	0926 .00	1649	.000161	0	.000145	.000286	.000077	.002111	.001647	Ŏ		.000267	006430	.012104	041333 .0	00783 .0.	11167 1.0000	42 .00050	.020376	.079172	.013414	.032266 .005	809
	30. Lodging	.001038	0002740	0002290	000143	000118	0000037	0000043	0000048	.000206	0	.000049 .00	0836 .01	7741	.000689	0	.000481	.001109	.000062	.026092	.001656	1		.001839	003579	030622	017207	11288 .0	19295 .0004	49 1.00046	.076544	.011167	.008733	.040560 .044	6346
	31. All other services (except profess 32. Transportation	001230	000240	000261	.001880	001564	000003	000004	000021	000022	0	.000143 .00	2606 .00	1554	.000309	0	.000231	.013334	.000182	.011525	.002387	0	0	000728	.020001	.023525	012758 .0	01638 .0	13660 .0000	40 .00086	9 1.046579	.016226	.015302	.020/17 .016	0202
- ا	33. Electric energy	000064	000165	000130	.000100	000001	000043	000000	.000021	000033	<u> </u>	.000664 .01	0763   .02	0636	.001188	0	.001514	.000680	.000842	.006001	.017184	10	0	.000601	.071113	.022250	004194 .0	04853 .0	.0009	21 .00359	.035395	1.035420	.016389	036534 .003	3836
	34. All other utilities	.000019	000050	.000138	000030	000025	.000001	.000003	.000014	000005		.000095 .00	0178   .00	1069	.000308	0	.000058	.000066	.000120	.002164	.002558	1 0	0	.000301	.013201	.004578	000680 .0	04061 .0	0000	28 .00069	.004170	.009004	004994	1 0121921 013	5151
_		.000034	000087	.000073	.000053	.000043	.000001	-000001	.000984	000003	0	.000090 .00	0388 .00	0324	_000204	<u> </u>	.000065	.000510	.000115	.002492	.001788	0	0	.000639	.014672	.012457	012591 .0	000345 .0	0000	.00199	.037811	.010550	.004994	.008376 1.368	9541
	35. Contract construction 36. Rentals & finance	.000027	-000070	-000059	.000044	.000034	-000001	.000001	.000040	-000024		.000804 .01	6886 ,00	0563	.014320	0	.000061	.002609	.001020	.001750	.036203	0	0	.055046	.014012	.061930	005012	01766 .0	17730 .0000	.00065	.019077	.016624	.008906	10003/01 1.300	7003
	DO' MELLTIN O LTHUNGS	,000027	1 .000070					1000001		.000024	· ·	.000046  .00	0672   .00	0454	.000581	0	.000078	000200	000058	004235	000163	<del></del>		002100		005719	**************************************	8 3 2 8 2   0	25915	12 00034	008532	.001723	.009905	*OT5520 +O25	7003   1

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 GILA RIVER SUB-BASIN 1960 Table G-1960-c

	Industry									, <u>v</u> .,		<u> </u>					Blan														i						
_	Purchasing	1	2 3	4	5	6   7								go decre	e e jest danam militar							- 1					<del></del>										
stry		Range	robor	Food &	Manuals.		1 8		9   1	.0   11	12	13	14	15	16	17		19	20				7				Τ	Ţ						1		30	
ucing		I.i	vestock Dai	Field	Truck	Fo:	All (	Other	Oil	. &	į	All Other.	Food &	Lumber	. 1 20	I/	18	All Other	Tholesale 2	1	22 Fat	ting f	24		* 12	28	29	30	31	33	34	35	36	37	Januarta Fran	Imports	40
		Livestock	Yestock Dal	Crops	Crobs; El	ruit 10	Ag	ri- Coa	al gas	Uraniu	m Zinc	Mining	Kindred	Wood	Printing 8	cated	Clay 5	Manu-	Trade Se	vice A	Dri	inkine A	gricul- i	25 26	27	1	Other	Contract		32 L	ocal	Profit	Change	Depreciation	.1 CRB	from out-	. Total G
	1. Range livestock	2,780 2	758 6	4 0	0	0	cul	ture					Products	Product	s Publishing	Metals	Glass	facturing	St	ations Re	etail Pl	laces    S	cural Lo	dging All Ot	ner rans-	Electric	Utilitie	S Construct-	Rentals & S	State &	Wages	& Other	(depletion)	Allowances	7	side CRB	Outpu
	2. Feeder livestock	0	0	0 0	0		0	0	0	- 0	0 0	0	3,076	0	0	1							ervices :	Servi	ces Foredelor	energy		100		rederal	713	Income	0	93	, 0	17,259	28.1
	3. Dairy	87	73	0	0	0	- 0   3	· · ·	<u></u>		0 0	0	383	0	0	1 1	1 ×		9	0		0	40	0	0 0	0	<u> </u>	0	0 1	1,152	0 /12			0	0	3,627	
culture	4. Food & field crops	0	43	0	0	0		77	<u> </u>	-24	0	0	2,005	0	0	0				0		0	- 0	0	0 0	0	0	0	0		54	1	0	0	, 0	616	
-	5. Truck crops	0	0	0 0	0	0		<del></del>	7		0	0	1,619	0	0	0	1 0				0		. 0	0	0_ '0	<u> </u>	<u>-</u>	+	0	33	0 48	3	0	0	186	3,159	
	6. Fruit	79	0 5	3 0	0	0	0		<del>-</del>	~	0	0	25	0	0	0					2	- 1	0	0	0		0			730	120	9		0	35	652	F
1	7. Forestry	4	0	0	0	0	0	<del>_</del>	<u>~</u>	~	0	0	859	. 0	0	0			·			19	0	0	0			<u> </u>	0	17	508	<u></u>	0	0	897	3,830	6,2
L	8. All other agriculture	5	0	1 2	0	0		i	ň	0	0	00	. 0	1,884	0	0	0	0	0	0					00			+		10-1-	0	3 - 7	i o	0 1	16	45	1,0
۲	9. Coal	0	0-	0	0	- 0		<u>-</u>	6	<del></del>	<u>-</u>	0	743	0	0	0	-	0	·	<del>-</del>	<del>\  </del>	<u>-</u>	9		0		<u>-</u>	0		<u> </u>	0 634	4 5	0	1 0	132	1,142	2, f
	10. Oil & gas	0	0	0	0	0	0	0	ō	28	<del></del>	0	2	0	3	1	6		12	3	15				0	1 002	+		14	34	85 709	9 - 5	371	0	0	3,431	5,6
<del>}</del>	11. Uranium	0	0	0	0	0	0	0	0	0 16 05		0	0	0	0	0		0	0				0	/-	/	302	1	0	14		0	0 70	0	1,671	0	269	1,0
	12. Zinc	0	0	0	0	ō	-6	0	0	0 10,03	<del></del>	0	0		0	0	0	0	0	~ · · · ·	~~~	0 11-			0	-	0	-+	0 63	7.027	0	0 0	0	0	1,537	7,004	92,4
	13. All other mining	0	Ö	0	0	0	0	0	0	0 1 12	2		0	0	. 0	0	0	0	0	0	0	0 11-	0		0	- t	1 - 0	<u> </u>		0	0	0 5	447	0	0	11,117	11,5
	14. Food & kindred products	0	648 13	0	0	0	0 26	5	0	0		!	0	0	0	0	374	0	0	0	0	0	Ö †	0	0	- <del> </del>	1	1 316	<u>0</u>	182	80	0 0	322	507	0	2,809	6,
	15. Lumber & wood products	17	0	0	0	4	0	0 i	0	0 19	<u> </u>		98	0	0	0	0	0	0	0	0 1.	294	17	220 4	8 0	0	Ť	0	0	48	103 10,18	5 8	1,045	1 0	168	4,868	19,
cturing_	16. Printing & publishing	5	0	L 2	0	4	0	0	4	1 1		16	0	0	0	0	0	0	0	0	0	0 11	0	0	0 0	0	0	53	—— <u> </u>	0	15 21	9 2	109	42	0 '	4,379	5,
1	17. Fabricated metals	0	0	0	0	0	0	0	0	0 42	186	75	35	2	46	2	6	47	0	3 2.	052	94	24	11 8	2 38	11	68	41	155	9	64 12	3 0	21	1 330	13	23	3,0
1	18. Stone, clay & glass	0	0	0	0	0	O	0	0	0		73		0	_ 00	0	0	0	0	0	0	0	0	0	0 0	5	0	151	0	3	10 2	6 4	158	118	0	509	1,
<b>)</b> -	19. All other manufacturing	457	6 6	422	27	86	40 6	3 9	7	26 29	67	32	300	- 0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	1.141	0	53	105 14	<u>.4</u>	17		0	0	1.
F	20. Wholesale trade	267	3 3	74	8	46	13 1	7 4	8	27 , 34	63	97	200	42	9	94	75	86	20	4	91	8	132	12 1	9 5.656	40	78	848	75	606	542 1,62	0 0 -	924	1043	710	4,338	17,
- F	21. Service stations	264	4 30	128	3	32	23 2	8	0 ]	12 78	1	8	114	10	6	2	4	45	40	6	109	507	48	48 19	2 576	14	48	324	44	260	313 5,57	1 4	4,283	1,042	3,369	2,31/	20,
	22. All other retail	582	8 7	95	<u> </u>	121	14 1	4	0 2	22 10	5	27	110	20		1	8	8	18	1	50	5	36	4	7 978	14	13	235	44	26	21 1,10	06	314	05/	205	586	4,
	23. Eating & drinking places	24	1   3	2 0	1 0	0	0	0	0	2	0	1	25	- 10		3 ;	1	39	46	14	151	189	18	93 10	2 148	19	34	181	103	79	98 27,76	1 9	0,324	1 034	1,874	2,910	42,
es	24. Agricultural services	648	66 330	422	370 2,	855	0 6	3	0	0	0	0	- 23	0	- +2	ļ0 <sub> </sub>	0	53	20	3	32	2	0	4 1	0 23	8	13	50	48	52	7 5,22	28 7 -	413	1	132	0,817	129
	25. Lodging		0 1	2	+		0	0	0	2	1	0	15		0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	<u> </u>	350	1	501	6 122	7
Ĺ	26. All other services (except professional) 27. Transportation	75	8 777	9 - OE	<del>-</del>	25	4 1	7   (	6 8	19:	31	26	117	- 37	10	0	0	36	11	1	14	2	0	10	4 9	2	6	<b>3</b> 3	12	48	3 36	24 <u> </u>	2 324	6	313	1 907	10
ies	28. Electric energy	323	104	10	1 2-1	- 2	0 5	7	0 4	6 8,64:	0	1	36	564	18	14	8	52	205	67	910	116	39	296 45	9 1,755	76	238	674	424 :	2,541	657 4,9	47	2,524	76	2 287	20 170	50
100	29. Other utilities	- 60 -	3 4	11		- 21	0 1	9 144	4 1	.8 386	374	130	147	105	73	├ <u></u> - <u>-</u> '.	34	232	1,743	175 2	035	107	15	38 7	8 1,843	35	13	1,225	30	213 1,	,967 8,34	*/	19	0	16	850	9
£	30. Contract construction					/	- N	3 5.	3	3 298	40	61	109	29	44		21 15	177	96	123	553	220	116	249 43 360 37	4 55 6 138	990	45	120	255	189	412 2,50	H .	6,345	30	1,242	0	19.
	31. Rentals & finance	1 076	- (0   - 7)	30	1 12	- 20	47	0 (	0 3	33	13	0	17	0	44		15	59	137	49	622	325	24	360 37	6 138	89		218	374	424	261 7,08 ,063 7,7	26	12,408	35.539	7 064	0	19 <b>,</b>
	32. State & Federal	693	08 /	29	12	49	41 3	7 9	7 15	9   48	1	49	58	83	7- 36	7.0	0	128	137 115 880	27	304	241	0	154 7	6 211	7	355	23,757	102 857	3,255 2 2,132 3	$\frac{1}{227}$ $\frac{1}{15}$	70		673	144	5,153	36.
ment		683 1,721	1 20	272	16	271	19   2	185	4	4 366	I see a man man and a see a see a see	241	1,797	108	96	13	21	53		143   2,	676	278	74	237 37	1 620	138	164	847			222 12 1		0	0		3,067	68,
	34. Wages	3,310	15 29	225	111	A2	5	5   92	4 9	2 537		201	254	95	152	62	23	816	967 323	86	991   1	175	33	55 11	0 1,760	124	695	238	2,432	9,491	323 42,4 879 10,3	60	0	0	194	959	38,
01ds	35. Profits & other income	10,253	77 84	1	172 1,	964	64 53				4,087	2,344	3,118	+		350	94	2 731		112		225	92	243 21	<del></del>	1,274	590	130	313	20,1	,894 6	36	0	1,326	6,087	1.902	179,
	36. Inventory change (depletions)	413	77		0	707 - 4	7	359		7 3,614		1,451	1,425	163	1,014	107	328	816 216 2,731 642	4,845	369 13,	577 3,0	043 1	,103 1,	685 5,24	5 14,484	2,141	695 590 4,382 1,984	15,688	8,918 17,872	35,093 15	,218 7,9	42		0	756	49	82.
	37. Depreciation allowances	2,416	47 45	336	25	214	60 10		2	0   0	810	422	772	76	43	152	20		2,002 1	4/9 7,	308	641	792 1,	256   1,38	1 4,782	472	1,984	6,176	17,872	321	, 210	0	0	0	0	0	82, 36,
ľ	38. Imports from other Colorado River Sub-Basin	ns 39	0 43	95	0	38	21 12:	2 33/	4	2 8,261	528	700	480	220	118	14	10	521	7/0	322 6,	411	553	422	298 4,56	5 0			14,711	0	0	0	0	0	0	0	0	29,
s		2,573	63 31	686	83	464 1	13	1 1 204	1 1 25	8,831	0	127	0	47	2	60	90	8 37	66	196 1,	232	333	422	791 62	5 4.653	1,010	1,782	1,231	1,151	449	627 1.6	25	126	1,683	93	767	30,
	40. Total Gross Outlays	28,284 4	010 3.155		862 6,	243 1.9	52 7 KK	5 620	1,05	22,302	4,367	127 675 6,713	1,457	353	1,208	728	2/12	2 883	66 5,472 20,345 4	347	046 4,	139 399   1	,647 1.	0 56 575 3,63	1 2,878	324 1,747 9,460	1,439	2,277 24,265 93,630	3,322 36,545 1	8 765	528 72.3	16	28,958	31 <b>,7</b> 90	23,926	16,024	30,0 288,9 1,295,3
			010 0,20.	1		-, -,	[2,000	, J,020	, l 1,96	o ∣ 97. <b>47</b> 7	113 564	6 712	10 140		**	. 2.4	646	2,003	3,4/6	347 2.	1146 / 4.	144 11 1	. 04/	575 1 3 63	/ 4 564	1./4/	1.439	1 24.265	5. 522	0,700   0	,502: 237,6		65,480	75,466	52,184	138,688	1 205

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	2	3	4	5	6	7	8	9	10	11	12	13	14	15	1 30							0.5		1	<del></del>	т		and I have a second and a second a second and a second an		
		I KADCA I	Feeder	Doing	Food &	Truck	Desirable	7	All Other	1			1	477 046			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	Industry Producing	Livestock	Livestock	Dairy	Field Crops	Crops	Fruit	Forestry	All Other Agricultur	e Coal	Oil & Gas	Uraniu	Zinc	Mining	Food & Kindred Products	Mood	Printing & Publishing	Fabri- cated Metals	Stone, Al Clay & M Glass	lanufac-	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	tural	Lodging	All Other Services	Transpolor- tation	Electric Energy	Other Utilities	Combined	Rentals Finance
	1. Range Livestock	.099745	.687781	.020285	0	0	0	0	.131579	0	0	0	1						Glass .	1			444					,	† *		ruccion	
	2. Feeder Livestock	0	0	0	0	0	0	0	0	0	0	0	10-		.167438	<del></del>	0	0	0 0		0	0	0	0	.008414	0	0	0	0		1-0	-
	3. Dairy	.003122	.018204	0	0	0	0	0	.107143	0	0	0	T C	10	.020848	<del></del>	0	0	0 0	)	0	0	0	0	0	0	0		0	1	† 0	+ -
	4. Food and Field Crops	0	.010723	0	0	0	0	0	0	0	0	0	10	- 0	.109139	<u> </u>	0	0	0 0	)	0	0	0	0	0	0	<u> </u>		0	0	1 0	+
ulture—	5. Truck Crops	0	0	0	0	0	0	0	0	0	-	0	10	-	.088128	1	0	0	0 0	)	0	0	0	0	0	0	Δ		0	10	10	-1
ŀ	6. Fruit	.002834	0	.016799	0	0	0	0	<del>  0                                   </del>	0	0	0	1 0	-	.001361	1	0	0	0 (	<del></del>	0	0	0	-001510	0		0	1 0	0	0	<del></del>	-1
	7. Forestry	.000144	0	0	0	0	0	0	0	0	0	0	1 0	-	•046758	+	0	0	0	)	0	0	0	0	0	n	0				1 0	
	8. All Other Agriculture	.000179	0	.000317	.000345	0	0	0	000376	0	10	0	0		0	•380069	0	0	0 (	)	0	0	0	0	0	0			1-0		1-0	+ -
	9. Coal	0	0	Ö	0	0	0	0	0	.001140	0	0	1 0		.040444	<u> </u>	0	0	0		0	0	0	0	0	0		1	0	1-0		
	lo. Oil and Gas	0	0	0	0	0	0	0	0	0	.014228	0	10	-	.000109	0	•000998	•000662	•004155	00287	.000673	.000713	.000473	.000159	0	.000953	.000499		.095520	-000236	: 0	100
	11. Uranium	0	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	1-0	
	12. Zinc	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	)	0	0	0	0	0	0	0			1-0	+ 0	
- 1	13. All Other Mining	0	0	0	0	0	C	0	0	0	0	.012140	0	-	0	0	0	0	0	<u> </u>	0	0	0	0	0		0				1-0	
	14. Food and Kindred Products	0	161596	.043106	0	0	0	0	.093624	0	0	0	10	1 -	0	0	0	0	•259003	)	0	0	0	0	0	10	0	10	.000106	1-0	016003	- 1
	15. Lumber and Wood Products	.000610	0	0	0	0	.000641	0	0	0	0	.002110	0	0	.005334	0	0	0	0	5	0	0	0	.102829	.003576	.029940	003419		0	10	1.010203	
turing-	16. Printing and Publishing	.000179	0	.000317	.000345	0	.000641	0	0	.000760	.000508		<del></del>	000000	- 0	0	0	0	0	)	- o	0	0	0	0	0	0	10	0	0	.000653	+-
ŀ	17. Fabricated Metals	0	0	0	0	0	0	0	0	0		.004566	.017296	.011922	.001905	.000403	.015303	.001324	.004155	002700	0	.000713	.057036	-007470	-005048	.001497	005941	000746	.001165	.005358	.000505	4-5
1	18. Stone, Clay and Glass	0	0	С	0	0	0	0	0	0	0 1	0	0		Ť	0	0	0	0	0	0	0	0	0	0	0	0.003641	000748	.000529	0	1 701950	0
1	19. All Other Manufacturing	.016397	.001496	.021870	.072847	.031323	.013775	.020492	.023684	.018438	.013211	.003159	-006230	0	0	0	0	0	0.051939	0	0	0	0	0	0	10			0	0	-014049	
	20. Wholesale Trade	.009580	.000748	.010777	.012774	.009281	.007368	.006660	.006391	.009124	.013720	*003690	.005858	.005087	•010887	.008473	.002994	.062210	.051939	004940	-001122	.000951	-002529	1.000636	-027766	001633	001353	.111017 .011306 .019196 .002905	.004236	-006146	030443	
	21. Service Stations	.009472	.000998	.009509	.022096	.003480	.005126	.011783	.010526	0	.006098	。000844	.000093	.015419	.007022	.002017	.001996	.001324	.002770	002585	.002244	.001426	.003030	-040289	-010097	.006532	013676	011306	.001483	.003782	010441	1
	22. All Other Retail	.020882	.001995	.024039	.016399	.031323	.019382	.007172	.005263	0	.011179	.001179	-000186	.001272	•006314	.004035	.000998	.000662	.005540	000460	.001010	.000238	.001390	.000397	-007573	.000544	000499	079196	.001483	-001024	000000	.00
	23. Eating and Drinking Places			.000634		0	0	0	0	0	.001016	.000054	0	004292	.001415	.002017	.004657	.001985	.000693	002240	.002581	.003327	.004197	.015019	.003786	.012657	-007265	.002905	.002012	.002679	-002330	.00
	24. Agricultural Services	.023250	.016459	.104596	.072847	.429234	.457312	0	-023684	0	0	0	0	-	-001361	0	.000665	0	0	003045	.001122	.000713	.000889	.000159	0	.000544	.000712	•000451	.000847	.001024	-000616	1.00
08	25. Lodging	.000323	0	0	0	0	0	0	0	0	.001016			0	0	_0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	+
	26. All Other Services	.002691	.001995	.000951	.010530	.001160	.004004	.002049	.006391	.001140	.041159	.002088	.002883	004122	.000817	0	0	0	0	002068	.000617	.000238	.000389	-000159	0	.001361	.000285	000177	.000212	.000473	-000406	.00
	27. Transportation	.011661	.025935	.056101	.016399	.001160	.000801	0	.021429	0	.023374	.093506	0	000150	•006369	.005447	.005988	.009265	TONE STEET			AT FORCE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	·		· †		.034448	* *	.018753	F.	.0
Lea	28. Electric Energy	.003696	.001247	.013312	.003280	.003480	.003364	L	.007143	.027371	.009146	.004176	034778	.000159	.001960	.113778	.004657	.011251	.023546	013327	.097779	.041587	.056564	-008503	.003155	005171	005556	036175	′′ <del></del>	.001024	<del>_</del>	.00
	29. Other Utilities	.002476	.000249	.002219	.001899	.001160	.001121		.004887	.010074	.001524	.003224	.003720	020664	.008002	.021182	.010978	.004633	.023546	010168	.005385	.029230	.015371	017483	.024401	-033887	030914	-001080	* *	.003546	<u>.</u>	.00
-	30. Contract Construction	0	0	0	0	0	0	0	<del></del> †	0	.015244	.000357	.001209	.009696	.005933	005850	.014637	.003309	* ATOORR     1 '	1 886600	*00.0000	*0710**	* TIEDS	.025826	1.005048	-048003	.026783	002000		.008983		
	31. Rentals and Finance	.038606	.016958	.023455	.006732	.013921	.004645	.021004	.013910	.018438	080703	000510	000002	· .	.000925	0	.001663	0		000353	006451	.006416	0.08450	020020	1.000040	020333	.005413	.002709			.292505	

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

	$\longrightarrow$	Industry Producing		2 Feeder	3	4 Food &	5 Truck	6	7	8 All Other	9	10	11	12	13	14 Food &	15	16	17	18	19	20 21	55	23	24	25	26	27	28	29	30	
	Industry Purchasing			Livestock	Dairy	Field Crops	Crops	Fruit	Forestry	Agri- culture	Coal	011 & Gas	Uranium	Zinc	Mining		Wood , Products	Printing & Publishing,	Fabricated Metals	Stone, A Clay & ' Glass f	All Other Who Manu- T	esale Servic ade Statio	All Other Retail	Eating & Drinking Places	Agricul- tural Services	Lodging	All Other Services		Electric Energy	Other Utilities	Contract Cons- truction	Fent
	1. Range Livestock		1.111254	.000009	.003539	.000038	•000005	.003229	.000418	.000213	.000750	0	0	0	.000026	.000429	.00069 <b>1</b>	.002102	•000007	000030	.021456 .01	1593 01107	007053	001156	007.007		1	-				
	2. Feeder Livestock		.799789	1.003456	.039595	.025371	.000228	.010684	.000303	.006873	.001069	<u> </u>	0	- 0	.000037	.165791	.000496	.002437	.000009	.000025	026056 .01	1910 01004	0033971	007427	046045	.000448	.005765	.017347	.007226	.004513	.001288	.04
	3. Dairy		.033015	.000927	1.005201	.003929	.000062	.019059	000007	. 702125	.002052	0_	1-0	0	.000038	.044469	.000034	.002949	.000015	.000025	034409 01	1020 01061	0005550	000000	.046247	.000501	.009647	.043671	.010314	.005527	.001798	. O.
iculture	4. Food and Field Crops		.000815	.000008	.000084	1.000035	.000001	.000022	.000001	.000361	.000873	0	0	0	.000037	.000392	.000002	.002146	.000008	.000026	077959 01	1350 0301	. 026552	.000336	.115002	.000172	.006642	.063738	.020772	.005052	.001786 .	03
	5. Truck Crops		.004355	.000034	.000198	.000143	1.000003	.000091	.000002	.000066	.001748	0	0	0	•000038	.001620	.000004	.004489	.000012	.000021	044712 01	1023	. 017307	000050	.072895	.000199	.013875	.022000	.008376	.003951	.001827	01
	6. Fruit		.004639	.000036	.000211	.000152	.000003	1.000097	.000246	.000071	.001765	0	0	0	.000025	.001722	.000644	.004518	-000012	.000016	027601	00708	.033576	.000259	.429412	.000137	.007029	.007205	.017625	.005057	.001499	02
	7. Forestry		.000005	.000001	.000003	•000005	0 _	.000001	1.000000	.000001	.000139	0	0	1 0	.000013	.000025	0	.000621	•000002	000009	020927 00	2533 .00889	.021650	.000185	.457501	.000094	.009659	.005976	.017938	. 004872	.001145	.01
<u></u>	8. All Other Agriculture	)	.171465	.002219	.119847	.009406	.000146	.007477	.000067	1.004755	.001476	0	0	Ω	.000035	.106458	.000110	.001659	.000011	000024	036822 .01	01188		300122	.000061	.000063	.003039	.001992	.001103	.000749	.000640	. 02
	9. Coal		.000005	0	.000003	.000002	0	.000001	0	.000001	1.004153	0	0	0	.000020	00024	.000001	.001041	-000013	000012	019036	1603 .01540	.012942	•000601	.044522	.000261	.011216	.035297	.014730	.008074	.001690	0
ing	10. Oil and Gas		.000070	.000007	.000038	.000029	.000002	.000016	.000006	.000014	.001393	1.014433	0	0	.000463	.000334	.000015	•002037	200057	000331	017710	.00013	.500247	.000137	.300001	.000065	.002147	.001420	.031283	.010945 .	.000866	1 .0
	11. Uranium		.000011	.000001	.000006	.000004	0	.000002	.000981	.000002	.000695	0	1.22303	0	.014886	.000051	•002582	-000695	005760	000027	017016/ 02	325 .00700	.012303	.001312	.000017	.CO1147	.046386	.028231	.013632	.004616	.023527	-0
	12. Zine		.000005	. 0	.000003	.000002	0	.000001	.0000C1	.000001	.003786	0	0	1.000000	.000046	.000022	.000001	.000172	017391	.000030	007752	355 .00343	•002060	.000209	.000003	.000085	.007526	.120304	.007023	.005013	.001905	0
	13. All Other Mining		.000006	.000001	.000003	.000003	0	.000001	, <u> </u>	.000001	.002328	0	0	0	1,000019	.000030 !	.000001	.007393	-017021	000012	006443	12000.	•000339	.000075	.000001	.000033	.003754	.001176	.039364	.004439	•002113	0
	14. Food and Kindred Proc	lucts	.214761	.021233	.116635	.089931	.001389	.050139	.000094	.041312	.001672	0	0	0	.000056	1.018440	•000165	.003412	000014		The state of the s	738 .00142		.000098	.000002	.000041	.005416	.002517	.023924	.010697	.000844	0
	15. Lumber and Wood Produ	cts	.000015	.000001	.000003	.000006	0	.000003	.380069	.000003	.002474	0	0	0	,000038	.000071	1.000001	.001131	000017	000025	030081 00	3488 .013119		.001845	.043623	.001001	.011421	.017991	.015773	.009047	.002759	. 0
afacturing.	16. Printing and Publish:	ng	.000022	.000002	.000012	.000009	.000001	.000005	.000001	.000004	.002294	0	0	0	.000067	.000105	•000008	1.016058	.000017	000047	00. 180000	.01094	•005491	.000243	.000004	.000115	.011945	.120140	.025412	.007532	.001731	. 0
	17. Fabricated Metals		.000014	.000001	.000007	.000006	0	.000003	0	.000003	.001312	0	0	0	.000022	.000065	.000001	.001768	000004	000015	064000	368 .00120	.004970	•000752	.000006	.000031	.007305	.005734	.013169	.015676	.003321	.0
	18. Stone, Clay and Glass		.000014	.000001	.000007	.000006	.000001	.000003	0	.000003	.0065 <b>1</b> 0	0	0	0	.259038	.000065	.000001	.006715		000023		.852 .00097	.002307	.000228	.000003	.000145	.010525	.013046	.006471	.004081	.001066	00
	19. All Other Manufactur	ng	.000085	.000008	.000046	.000036	.000005	.000020	•000003	.000016	.001451	0	0	0	.000219	.000405	•000007	-003036	200000	000154	00. 231780	580 .00651	.002316	.000274	.000003	.000152	.009032	.026724	.024037	.014328	•001671	Λ.
_	20. Wholesale Trade		.000046	.000005	.000025	.000019	•000005	.000011	.000003	.000009	.001448	0	0	0	.000214			.000718	000029	000151	.00	.00082	.002516	.003113	.000021	.002103	.004220	.014735	.011993	.004116	.010996	-00
ieei	21. Service Stations		.000035	.000003	.000019	.000015	.000002	.000003	.000003	.000007	.004011	0	0	1 0	1 000000	000370		.001408	000027	000146	006441	925   .00312	.003315	.001324	.000011	.000701	.016802	.102732	.007637	.009412	.010736	. 05
	5 22. All Other Retail		.000052	.000005	.000028	.000022	.000002	.000013	.000004	.000010	.002528	0	0	1 0	000000	000044		.058992	000040	000199	.00	496 1.00125	•003396	-000873	.000009	.000298	.019325	.044248	.007637 .034109 .020214	.013359	.010371	
1	23. Eating and Drinking	laces	.022109	.002165	.012004	.009261	.001653	.005165	.000017	.004252	.002427	0	10	1 0	.000586	.104815	.000036	.009265	.000074	000413	006187	651 .002839	1.005318	.001174	.000015	.000432	.030634	.060607	.020214	.020652	C13 4 3 C1	.08
	24. Agricultural Services		.010130	.000077	.000453	.000327	.000000	.000209	.000004	.000152	.002794	<u> </u>	0	J Q	.000023	.003701	.000007														.029407	
vices-	25. Lodging	AND MARKET AND STREET OF THE AREA	.006489	.000642	.003524	.002719	.000043	.001310	1.000011	.001248	.004955	0	0	0	.000653	.030773	.000026	.003218	000000 .	000459	004535	045	.001110		1.000410	•000096	.009851	.005769	.029768	.006373	.001016	.01
1	26. All Other Services		.000782	.000077	.000425	.000328	.000006	.000183	.000003	.000151	.004074	0	0	0	.000195	.003711		.006984	.000030	200135	003000	.00140	•013909	.000829	.001470	1.001484	.044931	.008649	.029768 .041072 .036747	.052322	.032696	. 03
-	27. Transportation		.000052	.000008	.000028	.000022	.000002	.000012	.000002	.000010	.000562	0	0	0	.000164	.000245	.000005	•001690	.000020	000116	13.6540	.00091	.007987	.000894	.000178	•000355	1.035941	.008466	.036747	.029205	.009617	03
lities	28. Electric Energy		.000032	.000003	.000017	.000013	.000002	.000008	.000001	.000006	.107248	0	0	0	.000159	.000152	.000001	-001807	000020	000029	.01	.020160	•003803	.000923	.000012	.000403	.038498	1.041952	.004954	.005010	008261	
l	29. Other Utilities		.000044								•000776	0	0	0	.000802	.000206	.000026	-005933	000007	000568	007740	.00182	.002512	.001031	•000008	.000274					.002047	01
	30. Contract Construction	1	.000036								.000554	_0	. 0	-+ 0	.028064	.000173	.000923	-001510	002067	019870	.00.	444 .00126	.003109	.001135	.000011	.000527	.020511	.002707	1.121236 .005271 1.		.040404	
	31. Rentals and Finance										.001251		. 0	0	.000095	-000202	000007	004010	.002907	010070	18081 .00	789 .004780	.003665 .003 <b>1</b> 24	.000998	.000009	.000640					1.414368	003

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 1960

Table UMS-1960-c

			<del></del>											1.																								
	Industry	1	2	3	4	5	6	7	8	9	10	111	12		Ī,	, 7 -	5	16		1 12		· · · · · · · · · · · · · · · · · · ·	1		***	f - 1		γ-		T	T		II	) Clinic models by and open in the		35		37
Industry	Purchasin	Range					All other					Food and	Lumber	Printing		4		10	1/	18	Fating and /	20 Agricul-	. 21	22	23	24	25	26	27	28	29	30	31	32 Profits	33 Gro	34 Exports		- (700-)
Producing		livestock	Dairy cr	ield cops Fru	ıit	The same to the same	agricul- ture	Coal	Oil and gas	Uranium	All other		and wood	and	g Stone	e, All o	ac- Wh			All other	drinking t	tural	Oil field services	Lodging	All other	Transpor-	Electric		Contract construc-	Rentals and	State and Federal	Local government	*	Profits and other income	change vat	e capital other (	er) River Basin	output
	1. Range livestock	797	134								College of the Colleg	1				- Culti	8		***				Scivices	20081118	services	tation	energy	utilities	tion	finance	government		Wages		(deplecion)	Sub-bas	_	
Agriculture	2. Dairy 3. Field crops	5	7	0	0	0	25	0	0	0	0	229	0	0		0	0	0	. 0_	0	0	139	0	0	0	0	0	0	0	0	707	0	311		0	41 1,5	3 11,181	15,142
	4. Fruit	7	5	- 0	0	0	18	0	0	0	0	343	0	6		0	- 0	- 0	0	0 -	0	0	0	0	- 0	0	0	0	0	0	$-\frac{16}{453}$	+ 0	38		0	0 3	2,281	3,515
	6. All other agriculture	6	0	0	0_	0.	0		0	0	520	62	1 369	0		0	0	0	0 .	0	0	0	0	0	0	0	. 0	0	0	0	5	0	44	g	0	0 1	5 363	1,955
Mining	7. Coal 8. Oil and gas	0	0	2 0	0	0	0	0	0	0	0	256	0	0		<u> </u>	0	0 -	- 0	0	0	-0		- 0	0	0	0	0	0		2	0	163		0	0 1	313	843
4	9. Uranium	0	0	0	0	0	0 1	0	2,868	0	0	$\frac{1}{0}$	0	$-\frac{0}{0}$		0 1	.642	0	0	0	0	0	0	0	7	22	60	7.700	0	0	0	- <u>5</u>	45	0 -	0	0 7,2	3 157,609	172,652
	10. All other mining 11. Food and kindred products	0	0	0	0 -	0	0 +	0	0	12,207	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	2,700	C C	0	28,952	0	0		0	0 8,1	4,017	53,307
Manufacturing	12. Lumber and wood products	55	0	0	0	0	. 24	0	0	0	049	89	0	0		0	0		0	0	480	8	18	143	39	$\frac{1}{13}$	0	0 2	$\frac{1}{1}$	14	95	29	4,959	nde -	792	0 2	05 1.127	8,067
indiatac tuli ing	14. Stone, clay and glass	31	2	5	1 .	0	1	1	80	<u>3</u> 42	0	62	0	0	e	0	0	0	0	10	0	0	0	0	0	0	0	0	1,774	0	5 28	12	407	- lc1	796	0	17 2,227 1 29	5,284 1 2,415 1
	15. All other manufacturing 16. Wholesale trade	54	3	17	0 3	- 0 -	0 4	<u>0</u>	277	2	0	0	0	0		7	0.	0	0	3	0	0	0	0	21	0	20	0	$\frac{36}{2,437}$	0	82	54	248		630	0	162	3,663
Trade	17. Service stations	92	7	31	2	12	10	1	284	252	14	16	10	5		26	30	30	10	93	178	3	282	8	33	1,532	14	13	524	81	655	129	3,512	- GO	2,255	1,171 3,3	5,508	20,923 1
Ret	18. All other retail 19. Eating and drinking places	188	16	98	4	15	40	- 1 4	22	108	19	5	1	5		2	2	15	1	27	3	6	136	5	12	882	1	4	17	32	44	13	946		152	0	670	3,272 1
Services	20. Agricultural services	334	56	0	310	0	0	0	81	1	4	1	1	1		0	5	22 -	<del>1</del> 0	89 23	$\frac{104}{1}$	- 6	76	32	$\frac{51}{13}$	145	19	$-\frac{31}{13}$	739	63	80	13	2,728	her	173	0	4,467	8,293 1
Services	21. Oil field services 22. Lodging	0	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	832	34,567	0 0	40.040 2
4	23. All other services (except professional) 24. Transportation	123	65	34	7	0	0	0	45	1	0	0	0	0		0	2	12	0	17	0	0	49	12	8	85	1	4	20	15	22	2	427	ano	80€	0 3	92 4,432	6,255 2
Utilities	25. Electric energy	73	140	5	0 _	0	15	0	303	6,000	69	108	121	26	- 1	15	292	2,043	147 79	893 1,702	164	10	866	293	317	1,131	105	73	1,622	654	$\frac{332}{714}$	667	13,034	ts	696	0 3,1	68 20,92	58,960 2
2	26. Other utilities 27. Contract construction	39	6	9	1	- 0	- 6	1	709	191	178	60	75	18		33	102	142	103	384	116	25	185	137	161	97	874	45	77	163	234	298	1,828	ofi	0	22	60 98 98 233	6,528 2 3 13,272 2
2	28. Rentals and finance	312	32	40	0	0	0	0	183	0	0	3	5	- 0		3	61	22	6	485 91	159	- 6	138 1,861	92	5	52	53	31	13,581	102	7,127	2,835	721	- 6	1,310	14,514 4,	82 2,300	49,201 2
2	29. State and Federal	205				1	77 30 40 40 40 40 40 40 40 40 40 40 40 40 40		2,102	168	242	358	60	<u>98</u>	=======================================	75	154	633	213	1,482	477	13	470	188	692	1,415	702		978	1,452		1,047	6,884	The same was an order of the same	1,303	822	26 1,623	
Government 3	30. Local	1,227	84	118	12	285	17	9	3,147 1,877	446	- 79	337	210	42		70	175	738	93	502	118	6	853	34	60	2,885 920	95	32	648	1,376	7,812	310	31,588 6,352			0	7 <u>1</u> 334 38 85	52,762 2 1 22,695 3
Households 3	31. Wages 32. Profits and other income 33. Inventory change (depletions)	2,007 5,999	89	1117	0 195	590	42	66	9,571	7,559	1,955	1,502	1,943	889		318 1	,941	254 6,050	1,270	321	2,203	139	133 8,417	171 946	4,738	12,270	1,222	265	8,334	6,636	15,138	615 8,952	373		0	1,076 1,0	38 1,81	122,127 3
3	33. Inventory change (depletions) 34. Depreciation allowances		32	0	0	0	234	0	1,341	1,004	108 267	624 480	89	889 90 86		82 623		1,695 2,872	417	4,027	348	88	784 641	601 458	2,362	5,672	72	1,032	1,155	8,375	214	841	4,479		0	0	0 12	4 46,526 3 0 19,883 3
Imports 3	4. Depreciation allowances 5. Imports from other Colorado River Sub-Basins 6. Imports from outside Colorado River Basin	1,119	125	27	5 1	54	32	2	53,736	5,210	683	463	13	138		572	674	799	140	5,117 997 645	185 315 287	63	2,471	966 253	864 2,034	9,158	436	827	3,82		0	543	0		0	0	0 (	0 84,776 3 4 27,936 3
13		1,563		462	38	150	244	43	0.0	5,288 14,185	405 2,195	1,340	83 468	45	1,	103 466	493	80 4,630	294	645 1,621	287 2,875	25 165 1	738 18,927	253 1,542	2,034 1,907	1,586 13,516	2,229	502 2,336	2,294	3,829	6,803	3.0	55,527		27,226	38,628 11,	73 24,50	
3	7. Total Gross Outlays		1.676	,515	641	1,955		d make the same		53,307	7,629					9 * (F) 80 C																	160,418	The state of the s				
ing	h row shows sales by the industry at the left to all ustries listed at the top of the table. Each column shows chases by the industry listed at the top of the table.	I			· ····································		L					8,067	5,284	2,413		663   1	5,540 2	0,923	3,272	29,950	8,293	737	40,040	6,255	14,954	58,960	6,528	13,272	49,20	25,727	00,510		1 100,410		48,998			THOUSANDS OF DOLLARS

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 1960 Table SJ-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	<b>2</b> 2	23	24	25	26	27	28
	Industry Producing	Range Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agri- culture	Coal	Oil & Gas	Uranium	All Other Mining	Food & Kindred Products	& Wood	Printing & Publishing	Glass	All Other Manu- facturing	Wholesale Trade	Service Stations	All Other Retail Trade	Eating & Drinking Places	Agricul- tural Services	0il Field Services	Lodging	All Other Services	Transpor- tation	Electric Energy	Utilities		Rentals & Finance
	1. Range Livestock	.053880	.081509	0	0	0	.059312	0	0	0	0	.030183	0	0	0	0	0	0		^	.188602					0		0	0
	2. Dairy	.000338	.004258	0	Ö	0	.029656	0	0	0	0	.142481	0	0	0	0	0	0	0	0	.100002	-	0	-				0	0
Agriculture	3. Field Crops	0	0	0	0	0	.021352	0	0	.0	0	.045209	0	0	0	0	0	0	0	^		-	0	0	<del></del>	0	<u> </u>	<u> </u>	0
NO. TOUT CATE	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
	5. Forestry	.000406	0	0	0	0	С	0	0	0	.070633	0	296770	0	0	0	0	0	0	0			0						
	6. All Other Agriculture	.000203	0	.000569	0	0	0	0	0	0	0	.033742	0	0	0	0	0		0	0		-				0	-		
	7. Coal	0	0	0	0	0	0	0	0	0	0	.000132	0	0	0	0	0			~~~		0	. 0	0		000101			
Mining	8. Oil and Gas	0	0	0	0	0	0	0	.016611	0	0	0		0	0	.119575	0	1-0	0	0	-0	0	0	.000496	.000373	.009191	.260996	000481	
	9. Uranium	0	0	0	0	0	0	0	0	228994	0	0	0	0	0	0	0		0	0	0	•008655	0		.000220	-020120	200350	000401	-
	10. All Other Mining	0	0	0	0	0	0	0	0	0	.088155	0	0	0	.031250	.051121			0		0	0	0	0				.010718	l
	11. Food and Kindred Products	.003718	0	0	0	0	.028470	0	0	0	0	.011731		0	0	0	0		0	05000	0	.000457	0		0				000505
:	12. Lumber and Wood Products	.000135	0	0	0	0	0	.006098	0	,000056		0	0	0	0			+	0	.059201	0	0	.024668	.002762	.000220	0		.000021	.000567
Manufacturing-	13. Printing and Publishing	.002096	.001217	.001422	.001560	0	.001186	.006098	.000463	,000788	.000136	.008172	.001084	.007299	.001316	.000655	007406	003.000	.000403	0	0	0	0	0	0	0		.037063	.006603
	14. Stone, Clay and Glass Products	0	0	0	0	0	0	0	0	,000038	0	0	0	0	.002303	.000033	.001496	.021802		.006907	.018996	.000914	.007763	.003612	.001560	.003064	.002417	.050915	.006603
l l	15. All Other Manufacturing	.003651	.001825	.004836	.004680	.002046	.004745	.006098	.001604	.003433	.006112	000300	0003.00	.003864		.012016	000707	005000	.000121	0	0	0	0	0	\	0	501057	.030913	.003281
	16. Wholesale Trade	.006220	.004258	.008819	.003120		.011862			.003433	.001902	.002109	.002168		.007237		*		.003745		.004071	.007158	.001380	.002337	.025984	.002145	.001257	.010948	.002350
Trade	17. Service Stations	.007166	.005474	.009388	.004680	.011765		.006098		†		.001582			•000658		.001662	.000962	.001973	.021954		.017285	.002070	.012110	.016927	.002298	.501160	.008211	.002350
	18. All Other Retail Trade	.012710	.009732	.027881	.004080	.007673				.000150	.002591	•000659	.000217	* **************	.005921	***		.000321	.001087	•000370			.000863	.000850	.014959	.000153	.000397	.000355	1
	2 19. Eating and Drinking Places	.000473	0	0	0	0	0		.001335	.000019	.002173	.002636 .000 <b>1</b> 32	.000217	.000429			· · · · · · · · · · · · · · · · · · ·	.003206	.003584	.012827	.008141			.003612	.002459	.002911	.002997	.015440	.003403
	20. Agricultural Services	.022580	-034063	.009104	.483619	0	.005931	0	0		.000343	.000132	.000217	0	0	.000364	.001219	.000321	.000926	.000123	0	.001929	.001380	.000921	.001866	.000306	.001257	.000731	.002552
Services-	21. Oil Field Services	0	0	0	0	0	0	0	.026881	1-0	0		0					-	0	Ω	. 0	_0	0	0	0	0	0		
	22. Lodging	.000135	0	0	0	0	-		.000261	.000019	-		0		0	0	0	1-0		0	0	0	0	0	0	0	0	0	0
	23. All Other Services (Except Professional)	.008315	.039538	.009673	.010920	-0	.002372		.003197	<del> -</del>	000770	014075	006070	011507	03.00	.000146	.000665			.000123	0	.001244	.002070	.000567	.001442	.000153	.000387		.000608
	24. Transportation	.011628	.085158	.001422	010320	0		000370		.002139	.009372	.014235	.026230		.017105					.020227	.013569	.021380	050543	.022450	.019182	.016085	.007057		.026494
TI+43444-	25. Electric Energy	.004935	.010949	.003698	.003120	<del>                _       _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _   _  </del>	.017794	006000	.001755	.112556	0	.005272		007700	.004934	.021264	.113179	.025329	.068538	.008140	0	.046778	.000690	.021813	.095183		+		.000284
Utilities	26. Other Utilities	.002637	.003650	.003598	.003120	1	.007117		.004107	•003583	.024178	.007908		011507	015463	.007428	.007867	.033023	.015463	.014307		.004696					.004350		.006603
	27. Contract Construction	0	0	0	0	<del> </del>	007/40	000098	.000278	.002551	.008014	.010413		•011999	000000	.005899	.025317	.069574	.019530	.019610	.008141	.003503	052613	.013102	.012758	.008119			.013612
	28. Rentals and Finance	.021092	-019465	.011380	000750	000070	034075	030305	.001060	1 0	0	•000395		048080	004653	.004442	.001219	.001924	.003664	.001727	0	.047235	015870	.000354	.000892	0	.002997		
to: Fach	the input directly required from the industry at	260170	.019465	.011380	.009360	.020972	.014235	.012195	.012175	.003152	.032872	.047186	.013007	.042073	.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.

	Industr	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	Renge Livestock	Dairy	Field Crops	Fruit	Forestry	All Other Agri- culture	Coal	011 & Gas;	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood	Printing & Publishing	Stone, Clay & Glass	All Othe: Manu- facturing	Wholes <b>a</b> le Trade	Service 3 tations		Printing & Publishing	Agricul- tural Services	Oil Field Services	Lodging	All Other Services	Transpor- tation	Electric Energy	Other Utilities	Contract Construction	Rental: n Finance
	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	.0286
i i	2. Dairy	.094091	1.004389	.000026	.003104	.000071	.000038	.000212	.003187	0	.000308	.000556	.000038	.003507	.000028	.005374	.007840		.012044	.000400	.037839	•000086	.000224	.046296	.099387	.016531	.007866	.000513	.0325
	3. Field Crops	.001865	.000029	1.000016	.000002	.000030	.000572	.000064	.002073	0	.000307	.000079	.000025	.003295	.000022	.005385	.009383		.028357	.000120	.009151	.000056	.000056	.012558	.005786	.006034	.004756	.000360	.0170
riculture	4. Fruit	.096873	.000099	.000021	1.000050	.000080	.000035	.000239	.003721	0	.000431	.000458	.000033	.012207	.000021	.007602	.010904		.011926	.000202	.485835	.000100	.000074	.021447	.004935	.024623		.000379	.0280
	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	.0242
	6. All Other Agriculture	.068413	.034009	.022692	.000374	.000070	1.001011	.000130	.003510	0	.000379	.029164	.000053	.004712	.000038	.006597	.013733		.050075	.000262	.009028	.000094	.000127	.009747	.030555	.011918	.009027	.000628	.0272
}	7. Coal	.000010	.000030	.000010	.000002		.000007	1.000118	.003375	0	.000384	.000209	.006124	.007844	.000024	.006754	.007200	.006340	.025013	.000179	.000002	.000091	.000086	.064984	.005073	.009140	.008733	.000416	.0206
1	8. Oil and Gas	.00000	.000010	.000003	.000001	.000051	.000002	.000053	1.017773	0	.000178	.000067	.000129	-	.000176	.002096	.002383	.000320	.001630	.000592	.000001	.027358	.000323	.004834	.004184	.005287	.000935	.003443	.0149
ning	9. Uranium	.00000		.000004	.000001	.000063	.000003	.000122	.002967	1.297007	.000509	.000094	.000090	.001647	.000070	.008943	.009098	.002682	.003226	.000394	.000001	.000080	.000285	.007076	.163338	.006265	.006338	.000405	.0107
	10. All Other Mining	.00000		.000005	.000001	.077496	.000004	.000297	.004470	0	1.097093	.000112	.000013	.000879	.000021	.007309	.003002	.003860	.003394	.000764	.000001	.000120	.000053	.012900	.001621	.031544	.010453	.000410	.0454
}	11. Food and Kindred Products	.04922		.046536	.008747	.000053	.034223	.000281	.004575	0	.000247	1.013183	. 200053	.010030	.000058	.004141	.004506	.003333	.008393	.000426	.010942	.000123	.000111	.025134	.023448	.013720	.013996	.001118	.0615
	12. Lumber and Wood Products	.00000	6 .000018	.000006	.000001	.296807	.000004	.000203	.002006	0	.000225	.000125		.001899	.000093	.003531	.006347	.004065	.007254	.000375	.000001	.000054	.000074		.018113	.019829	.003989	.001807	.0259
anufacturing	13. Printing and Publishing	.00000		.000005	.000001	.000025	.000004	.000104	.004363	0	.000264	.000113		1.008168	.000024	.004605	.002786	.002470	.006456	.000630	.000001	.000117	.000073		.014043	.009967	.013353	.000450	.0484
	14. Stone, Clay and Glass Products	.00000		.000004	.000001	.002486	.000003	.000146	.006127	0	.034902	.000092	.000070	.002050	1.002400	.009405	.007927	.000989	.006450	.000185	.000001	.000165	.000065		.008059	.014511	-	.001787	.0318
	15. All Other Manufacturing	.00000			.000001	.004097	.000003	.000122	.125635	0	.056925	.000099	.000258	.001197	.000353	1.013671	.003384	.000810	.003378	.000602	.000001	.003377	.000254		.025711	.011483	.007708	.006911	.0193
}	16. Wholesale Trade	.00001		.000011	.000000	.000053	.000008	.000155	.008671	0	.000372	.000245	.000090	002425	.000121	.006059	1.004366	.002844	.003078	.001650	.000003	.000233	.000912		.127140	.010501	.028764	.002367	.0444
rade	17. Service Stations	.00001		.000012	.000003	.000065	.000009	.000410	.021144	0	.000323	.000270	.000141	.023317	.000188	.004870	.002689		.004391	.000781	.000003	.000568	.000178	.053170	.031551	.040439		.003678	.0840
	18. All Other Retail Trade	.0000		.000013	.000002	.000217	.000010	.000235	.007590	0	.000454	.000288	.000624	.008900		.006600	.004306		1.004774	.001378	.000003	.000204	.000893	.026093	.079098	.020049	.023561	.005886	.0734
	0 19. Eating and Drinking Places	.00292		.002762	.000519	.000069	.002031	.000201	.007529	0	.000431	.060130	.000125	.020862	.000164	.006915	.023143	.000962	.014047	1.000461	.000649	.000202	.00024	-	.006997	.042066	-	.000419	.0326
}	20. Agricultural Services	.20030					.000009	.000399	.004819	0	.000316	.000851	.000050	.001685	.000023	.005539	.015555	.009871	.011364	.000283	1.004580	.000130	.00009	027788	.058153	.007003	1	.066384	.0320
ervices	21. Oil Field Services	.0000				-	.000856	.000305	.015886	0	.000445		.000852	.009179			.019412				.000003	1.000321	1 00210	.056052		1	.055842		.0200
	22. Lodging	.0012					.000101	.000653	.004931	0	.000210	1	.000044		.001168		.003492		.006867	.001685	.000274	1	<del></del>	1.026189			.015549		.0575
(	23. All Other Services	.0001					.000017	.000464	.008541	0	.001686		.000078		.000054				.004227	.001195	.000032	.000133	.00166		1.109993	1	.017281		.0334
	24. Transportation	.0000					.000007	.010646	.033229	0	.000211	*	.000105	.002716	.000102		.019419		.003302	.002256	.000006	.000230			.010848	-	.012232		.1352
	25. Electric Energy	.0000							.268983	0	.000203			.003031	.000053		.003664		.004380		.000002	.007230	.00051			1	1.011514		.0233
ilities	26. Other Utilities	.0000		7 .000015					.005902	0	.019893				.071296		.002215		.003731	t	.000004	+			.059166	1	.010516		.0420
	27. Contract Construction		43 .00012	The second secon		.000092			.004871		.000303	1	.000237		.000324		.014263		.023160			.000131	3			.008998			1.0667
	28. Rentals and Finance	.0000	.0001						1			1			***************************************	.003880	.003123	.001487	.004058	.002799	•000010	1			-	1.	1	1	1.000

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 Purchasing	1	2	3			6	7	8 9		11	12	13 14	19	5	16 17	18	19 Electric	20 All Other	21 Contract	1	23 State&Federal	24 Local Government	25 Wages	26 Profits & Cl other (ad	27 ventory Changes dditions)	28 Gross Private Capital Formation	29 Exports to Other CRB Basins	30 Exports Outside CRB	31 Total Gross Output
stry ucing		Agriculture	Forestry	Oil & gas	Coal	Uranium & non-fuels	Food & Kindred Products	Wood Pri Products Pub	nting & Glass	Chemicais	, Wholesale S Trade s		king Other re			odging Service	tation 0	energy 0	Utilities 0	construction 0	finance 0	3,520	0	221		0	0	1,253	31,233	49,000
1	. Agriculture	8,117	0	0	0	0	4 541		0 0	0	0	0	0	0	0	- 110	0	0	0	0	0	0	0	+		0	0	0	112,247	118,611
2	Porestry	0	0	0	0	0	4,541	923	0 0	0	0	0	0	0		0 14	35	836	890	176	0	96	265	2,165	1	3.790	0	7.185	26,560	46,054
	3. Oil & gas	0	0	0	6	221	0	0	0 0	1,526	75	18	0	41	0	0	0	3,056	30	0	0	0	0	5,084		0		27	11.532	24, 262
	. Coal	0	0	0	250	50	28	1	0 2	2	0	1	0	15	0		0	0	0	757	0	6,714	739	2 640		0	0	193	4,349	8,253
1	. Uranium & non-fuels	0	0	0	0	4.451	70	0	0 42	0	0	0	0	0	0	72	0 0	0	0	0	0	20	12	1,648		85	46	227	1.517	2,380
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	4	38		0	0	3	55	832
7	. Lumber & wood products	30	0	0	69	10	2	0	0 0	0	0	0	0	44	0	27 4	5 78	18	7	0	4	0	35	100	52	0	569	27	10	1,736
facturing 8	. Printing & publishing	0	0	31	26	23	12	1	4	5	6	76	18	310	0	0	0 0	1	0	629	0	0	4	198	uman	120	83	133	1,582	3,990
9	Stone, clay & glass products	3	0	150	38	0	13	2	0 4	2 0	0	50	13	0	60	0	0 0	0	0	97	0	0	1 1 1 2	1,512	100	207	427	48	1,121	9,911
10	Chemicals, petroleum & coal, other mfg.	2	37	20	300	29	5	0	0	0 10	0	0	0	0	1.2	7 7	5 874	5	21	2,279	83	58	117	3,055	d = = +-	0	138	41	1,173	3,988
11	. Wholesale trade	370	2	53	86	51	10	29	2	2 1	13	4	94	146	13	0	548	4	19	330	36	43	205	4, 250	- t t	14	24	141	4,730	9,752
12	2. Service stations	115	19	25	27	8	20	10	1	0 0	0	16	16	185	22	0	0 360	55	0	0	0	+	0	21.480	Tinde	2,483	1,724	136	9,586	39,131
ig 13	3. Eating & drinking places	0	0	53	31	0	0	0	0	0 0	0	0	0	62	32	80 1	51 133	35	205	125	337	69	2/0	21,460	- 5	0	37,785	0	0	39,335
2 14	4. Other retail	540	6	48	54	9	120	31	1	2 3	89	34	831	504	35	0	0 (	0	0	0	0	0		479	9	0	94	123	7,516	8,417
15	5. Oil field services	0	0	1,350	0	0	0	0	0	0 0	0	0	0	0	30	0	2 110	0 3	0	0	0	15	15	3 559	- to	0	73	18	234	9,606
ices 16	5. Lodging	0	0	35	10	0	0	0	0	0	0	0	0	0	30	400 7	83 24	9 9	45	184		130	107	2 493	- I I -	0	2,764	0	8,483	27,124
1 -	7. Other services (except professional)	1,730	0	31	20	120	85	47	30 5	1 15	158	6	283	1,097	300	35	80 3,34	0 580	325	808		130	465	1,662	her	419	24	0	7,776	16,373
	3. Transportation	1,184	0	940	1,000	400		168	3 7	14 15:	919	92	47	2,370	76	152	81 58	8 494	52	287	i	3/1	458	3,241	# #	0	89	0	413	8,931
	9. Electric energy	651	0	680	1,178	382		66	8	7 3:	5 47	39	124	364	90	463	73 38	0 84	398	158		25,035	247	3.029	r r	0	5,560	0	13,663	53,735
	O. Other utilities	190	0	35	125	77		9	3	6	5 237	187	96	780	100	25	29	8 70	6	5,198			71	8,644	LD LD	0	0	0	2,989	25,853
-	1. Contract construction	0	0	250	231	60	7.	0	0	0	0 60	15	31	47	75	559	165 30	3 148	361				190	25,970		0	0	111	2,955	64,633
22	2. Rentals & finance	972	20	4,540	956		104	49	20	55 7	6 306	564	279	1,745	800	204 1,	434 1,18	641		972			969	5,565	P	0	0	86	789	23,729
rnment 23	3. State & Federal	1,726	255	14,620	2,053	1,222			39		0 1,498	400	97	2,497	150		328 35	785	208	320		1		1,380		0	1,817	501	1,052	111,272
-	4. Local	2,811	23	1,650	673	228		37	13	24 1	4 135	73	241		1,865	892 1,	834 12,98	1,186		10,83	the section of the se		1.019	3,912		0	0	210	800	49,046
eholds 25	5. Wages	5,175	342	4,000					329 5	44 57	4 2,889	1,576	1,952	11,100	0		140	0 86	130		17,466		0	0	1	0	0	0	0	12,121
26	6. Profits & other income	16,854	160		3,425	1,004		18	78 1	15 26		70	57	1,466	0	0	0	0 472			84	0	0			0	0	0	0	53,637
27	7. Inventory change (depletions)	0	0		3,566	0	0	83	0		2 216	0	10	7,612	1,300	938	753 10	62 2,781		62		312	118	1,359		847	1,702	39	178	12,516
28	B. Depreciation allowances	4,700	25	33,668	3,829		186	64	36 1	20 11	214	115			1,430	80	32 1	87 131	97	1,40	11	12 125	6 063	51,681	1	15,872	7,238	4.127	18,634	292,443
rts 29	9. Imports from other Colorado River Sub-Basins	20	7	1,361	283	96		32	8		38 35	12	268		32,945		297 5,2	. 003	4,607	27,53					The state of the s	23.837	60,157	14.629	271,193	1,127,610
30	O. Imports from outside Colorado River Basin	2,923	43	54,656	10,289		1,125	89	257	6:	19 2,270	640	4,379	5,719	20 335	8,417 9	606 27,1	24 16,373	8,931		25,85		1,	3,	,	The face of the standing standard designed from the standard of the standard standard of the s	a bandagara" Tr.	INTERIND	USTRY TRANSACTIO	ONS (IN THOUSANDS
_	1. Total Gross Outlays	49,000	939	118,611	46,054		8,253		832 1,	736 3,9		3,988	9,752	39,131	33,000													THILITAD	COLE LIGHT DE LE	GREEN RIVER SUB-

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.

												Titler Title 1 - Na Million on organization or annual state of the continuous	photosics and a fragment of the transportation of the first state of t	Т		1		1	1	1		1		
Industry	Industry	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, Etc.	11 Wholesale trade	12 Service stations	13 Eating & Drinking Places	14 Other retail trade	15 Oil field services	16	17 Other Services	18 Transpor- tation	19 Electric energy	20 Other utilities	21 Contract construction	22 Rentals & finance	
Purchasing	*			0	0	0	.550224	.002177	0	0	0	0	0	0	0	0	.013069	0	0	0	0	0	0	1
	1. Agriculture	.165653	0	0	0	0	0	.401828	0	. 0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	2. Forestry	0	0	0	.000141	.009109	0	0	0	0	. 398642	.007736	.004514	0	.001301	0	0	.001457	.001290	.052575	.099653	.003275	0	3
Mining	3. Oil & gas	0	0	0	.005884	.002061	.003393	.000435	0	.001152	.000522	0	.000251	0	.000476	0	0	0	0	.192189	.003359	0	0	4
	4. Coal	0	0	0	0	.183456	0	0	0	.024194	0	0	0	0	0	0	0	0	0	0	0	.014088	0	5
	5. Uranium & non-fuels	0	0	0	.000494	0	.007512	0	0	.002880	.000522	0	0	.097105	.001142	0	.008554	0	0	0	0	0	0	6
	6. Food & kindred products	.018102	0	0	.001624	.000412	.000242	0	0	0	0	0	0	0	.001396	0	0	0	0	.000126	.000448	.005248	0	7
	7. Lumber & wood products	.000612	0	.000261	.000612	.000948	.001575	.000435	.004808	.004032	.001306	.000619	.019057	.001848	.009835	0	.003208	.004685	.002876	.001132	.000784	0	.000155	8
Manufacturing-	8. Printing & publishing	0	0	.001265	.000894	0	0	.000871	0	.024194	0	0	.012538	.001334	0	0	0	0	0	.000063	0	.011706	0	9
	9. Stone, clay & glass products	.000061	020101	.000169	.007061	.001195	.000606	0	0	0	.002612	0	0	0	0	.001525	0	0	0	0	0	.001805	0	10
	10. Chemicals, petroleum & coal, other mfg.	.000041	.039404	.000447	.002024	.002102	.002181	.012625	.002404	.001152	.000261	.001341	.001003	.009649	.004632	.000330	.000832	.075474	.032222	.000314	.002351	.042412	.003210	111
	11. Wholesale trade	.007551	.002130	.000211	.000635	.000330	.002423	.004354	.001202	0	0	0	.004012	.001642	.005869	.000229	0	.003123	.020204	.000252	.002127	.006141	.001392	12
Trade	12. Service stations	.002347	.020234	.000447	.000730	0	0	0	0	0	0	0	0	- 0	.001967	.000814	0	0	.013272	.003459	0	0	0	13
	13. Eating & drinking places	0	006.200	.000405	.001271	.000371	.014540	.013496	.001202	.001152	.000784	.009180	.008526	.085301	.015990	.000890	.009505	.016760	.004903	.002201	.022954	.002326	.013035	14
	2 14. Other retail	.011020	.006390	.013068	0	0	0	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	0	0	15
	15. Oil field services	0	0	.000295	.000235	0	0	0	0	0	0	0	0	0	0	.000763	0	.000208	.004055	.000189	0	0	0	16
Services	16. Lodging	0	0	.000261	.000471	.004946	.010299	.020461	.036058	.029378	.003918	.016297	.001505	.029049	.034804	.000636	.047523	.081512	.009180	.000566	.005039	.003424	.011063	17
	17. Other services (except professional)	.035306	0	.007925	.023536	.016487	.038895	.073139	.003606	.042627	.039969	.094791	.023069	.004824	.075193	.007627	.004158	.008328	.123138	.036476	.036390	.015037	.000696	18
	18. Transportation	.024163	0	.005733	.027725	.015745	.006058	.028733	.009615	.004032	.009143	.004848	.009779	.012728	.011549	.001932	.018059	.018842	.021678	.031067	.005822	.005341	.007543	19
Utilities	19. Electric energy	.013286	0	.000295	.002942	.003174	.004120	.003918	.003606	.003456	.001306	.024446	.046891	.009854	.024747	.002288	.055008	.059650	.014010	.005283	.044564	.002940	.009670	20
	20. Other utilities	.003878		.002108	.005437	.002473	.000969	0	0	0	0	.006189	.003761	.003182	.001491	.002542	.002970	.003019	.000295	.004402	.000672	.096734	.002437	21
	21. Contract construction	0	.021299	.038276	.022500	.023205	.012601	.021332	.024038	.031682	.019854	.031563	.141424	.028639	.055363	.001907	.066413	.017177	.011171	.009308	.040421	.013902	.056086	22
	22. Rentals & finance	.019837	UZIZ77	.0,02.0																				
	the state required from the indust:	rv	grants for fertilities of the second control		and the second s																		CHASES PER DOLLAR OF C	

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.

F PURCHASES PER DOLLAR OF OUTPUT GREEN RIVER SUB-BASIN 1960 Table GR-1960-b

ndustry urchasing	Industry Producing	l 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
	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
-	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
ning-	3. 011 & gas	.000052	.000007	1.000578	.001287	.000084	.000070	.000018	.000342	,001336	,000203	.001117	.000506	.000616	.001161	.013075	,000347	.001072	.009923	.006621	.001135	.002546	.04120
	4. Coal	.000436	.000677	.005137	1.011776	.000141	.000646	.001686	.000829	.001034	.007203	.003570	.001392	.001247	.002223	.000067	.000367	.001567	.029974	.030172	.004385	.006378	.02609
	5. Uranium & non-fuels	.000036	.000218	.013542	.006677	1.224739	.000049	.000542	,001358	.000084	.001533	.004289	.001054	.000/,24	.001445	.000177	.000114	.007531	.025356	.021294	.005611	.003692	.032254
	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
	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	.03893
ufacturing	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	.02751
	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	.0377
	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	.03896
	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	.03854
de	12. Service stations	.000071	.000029	.010573	.002987	.000468	.000105	.000073	.019632	.012991	.000034	.0034,54	1.005158	.000499	.012423	.000138	.000137	.005909	.031781	.013109	.052390	.004830	.1558
ail	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	.04174
E t	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	.06563
	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	.00267
vices	16. Lodging	.021639	.000038	.007600	.004454	.000071	.009059	.000093	.003778	000076	.000048	.006211	.000851	.000268	.013674	.000099	1.000068	.054890	.011989	0217/5	-062805	.003960	.07670
	17. Other services (except professional)	.000057	.000039	.010769	.004799	.000083	.000078	.000098	.005663	.000131	.000046	.083994	.004320	.000475	.021749	.000141	,000341	1.092372		.023503	.072006	.004593	
- 64	18. Transportation	.001114	.000016	.005463	.005374	.000030	.001577	.000041	.004049	.000351	.000043	.038538	.023525	.015363	.008790	.000071	.004669	.013896	1.148585	.023303	.020925	.001122	.02904
lities —	19. Electric energy	.000373	.000201	.056177	. 201044	.000126	.000552	,000501	.001570	.000321		.002981	.001558	.004447	.003804	.000734	.000466	.002042	.050522	1.039752	.007810	.006543	.01923
	20. Other utilities	.000079	.000210	.105261	.005329	.000030	,000112	.000523	.001382	.000429	.000069	,005067	.003515	.000773	.025789	.001376	.000232	.008101		.009150	1.049493	.001387	.01923
	21. Contract construction	,000074	.002344	.006174	.001647	.019508	.000087	.005833	.000423	.013400	1	.048667	.007554	.000401	.003999	.000081	.000232	.006443	.048111	.008076	.006353	1,107678	
	22. Rentals & finance	.000020	.000019	.001807	.001788	.000054	.000030	.000046	,000444	.000064	.000019	.004802	.001741	.000113	.014706	.000024	.00011	.013584	.027189	.008994	.012310	.003044	1.061794

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 RIVER SUB-BASIN 1960

Table GR-1960-c

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) . Little Lower											Upper	
	Gila		Green		Colorado		Main Stem		San Juan		Main Stea		
	Ranl	c	Ranl	k	Ranl	k	Ran	k	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					٠,						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 Rank		Green .			Little Colorado Rank		Lower Main Stem Rank		San Juan Rank		Upper Main Stem Rank	
,					Ranl								
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										<b>*</b> *	
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	
Textil <b>e</b> s & Apparel	29	14,583				•							
Leather & Leather Goods	36	350 -	٠.										
"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	<b>5,</b> 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			ŀ		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	C	Green		ttle lorado .		Lower in Stem	San	Juan		pper n St <b>e</b> m
	Ranl	k	Rank	ĸ	Rank	Ç	Rank	ĸ	Rank		Rank	, ×.
Agriculture	1		-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		1									. 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	1								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
0il & 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

		Gila		Green .		ittle lorado		Lower in Stem	Sar	n Jean			ipper n Stem
	Ranl		Ran	k	Ran	k	Ran	k	Rank	<b>c</b> ( )		Rank	:
Lumber & Wood	20	18,161	19	1,937	3	21,021	16	12,042	17	3,494		16	4,764
Furniture & Fixtures	23	1 <b>2,</b> 848		•									•
Paper & Pulp	2 9	3,260			t				,	. ;			
Printing & Publishing	17	<b>22,</b> 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	<b>386,</b> 300								,	.		
Fabricated Metals	21	17,359		,			27	428			:	25	824
Stone, Clay & Glass	24	8,898	20	808	C.		17	9,072	21	1,214	·	28	319
Textiles & Apparel	22	14,583											·.
Leather & Leather Goods	34	350							ŀ	. 1			
"Other" Manufacturing	4	<b>236,</b> 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	<b>3</b> 3,772	12	7,825		10	12,651
"Other" Retail	32	<b>373</b> ,3 <sub>0</sub> 4	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	<b>126,</b> 126	16	3,952	14	3,077	1	127,254	14	6,934	·	11	12,578
Transportation _	18	<b>21,</b> 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 68,055
Contract Construction	3	<b>354,</b> 308	2	47,534	2	44,325	3	106,138	5	33,089			27,278
Rentals & Finance	5	202,129	9	11,796	6	11,817	5	59,039	9	13,142		. 5	21,210

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	Gre	en		tle rado		ower n Stem	San	Juan		pper n Stem
	Rank	. %	Rank	. %	Rank	%	Rank	. %	Rank	%	Rank	%
Agriculture		•	12	73.93				,	1		1 :	•
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
Vegetable <b>s</b>	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		i.							ì	
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	Gr	een .		tle rado		ower n St <b>e</b> m	San	Juan		pper n Stem
·.	Rank	%	Rank	%	Rank	%	Rank	%	Rank	. %	Rank	%
Lumber & Wood	22	63.88	9	81.39	5	94.92	1.9	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		ı			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	1		17	59.75	25	33.14	28	21.85
Textiles & Apparel	2	100.00		•								• • •
Leather & Leather Goods	3	100.00								٠		
"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	<b>1</b> 5	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 Cold	rado
	Wages &	Total		Wages &	Tota1		Wages &	Total	
	Salaries	Payments	Rank	Salaries	Payments	Rank	Salaries	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	į <b>2</b> 4						
Field Crops			I						
Forage Feed & Food			1				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				1,4	94	22
Forestry	<b>49</b> 6	976	33	342	502	21	1,359	2,978	8
Coal				17,508	20,933	2	69	73	24
0i1 & Gas			'	4,000	4,215	8	36	. 55	25
Uranium	185	228	35				22,170	29,970	1
Uranium & Nonfuels			l	5,018	6,022	7			
Copper	93,100	101,500	5						ì
Zinc			;						
Other Mining	16,480	19,766	<b>1</b> 6				1,724	1,905	13
Food & Kindred Products	32,416	36,678	12	914	1,251	15	237	262	20

## Table CRB-10d- Continued

			Tab	Te CRB-10d-	Continued				
Sub-Basin		Gila_			Green			Little Cold	orado
	Wages &	Total	Rank	Wages &	Total		Wages &	Tota1	
	Salaries	Payments	Name	Salaries	Payments	Rank	Salaries	Payments	Rank
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	3,6 <b>3</b> 3	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	2	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 Ma	in Stem		Sai	n Juan	•
	Wages &	Tota1		Wages &	Total		Wages &	Tota1	
	Salaries	Payments	Rank	<u>Salaries</u>	Payments	Rank	Salaries	Payments	Rank
Agriculture						ľ			
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						
Veg <b>etables</b>				,					
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
						Ĭ			

Table CRB-10d - Continued

Sub-Basin	Upper	Main Stem		Lower Ma	in Stem		Sar	ı Juan	
-	Wages &	Tota1		Wages &	Tota1		Wages &	Total	
	Salaries	Payments	Rank	Salaries	Payments	Rank	Salaries	Payments.	Rank
Lumber & Wood	1,195	1,358	22	3,981	4,646	14	1,943	2,032	17
Furniture & Fixtures									1
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 <sub>.</sub>	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
									٠.

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	G	reen		tle rado		ower 1 Stem	San	Juan		per Stem
	Rank		Rank	ξ	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		4	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				<i>:</i>		•				
Citrus Crops	5	1.814381					11	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	G	reen .		tle rado		wer Stem	San	Juan		per n 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										٠,
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

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			•	٠.
Range Livestock	. 4		5	6	5	7 .
Feeder Livestock	9		6	10		. 13
Dairy	10		7	10	. 7	11
Food & Field Crops	<b>, 11</b>					, 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	<sub>.</sub> 13	8	. 10	11	. 11	<b>i</b> 5

Table CRB-10f - Continue

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

		Upper				
	Gila	Green	Little Colorado	Lower Main Stem	San Juan	Main Stem
Lumber & Wood	9	9	4	7	5	7
Furniture & Fixtures	10			,		:
Paper & Pulp	9				:	
Printing & Publishing	8	. 3	6	4 .	. 4	<b>. 3</b>
Chemicals	6			9	: 1	
Chem, Petrol., Coal Other Manufacturing		4				
Primary Metals	. 11				:	•
Fabricated Metals	. 7		•	6		. 3
Stone, Clay & Glass	8	4		8	5	<b>'6</b> .
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,

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.<sup>28</sup>

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

<sup>&</sup>lt;sup>28</sup>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." <sup>29</sup> 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 inputoutput 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

<sup>29&</sup>lt;u>op</u>. <u>cit</u>., 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 Coefficients 30

We have developed a method to correct the input coefficients for technological change. <sup>31</sup> 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

This 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.

The 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 forumlas were used to estimate productivity in the sample establishments:

(1) 
$$P = \frac{0}{(L)}$$
,

and

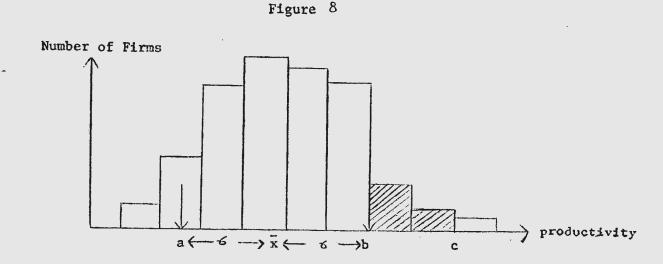
(2) 
$$P' = \frac{0}{(C)+(L)}$$

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. 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.



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

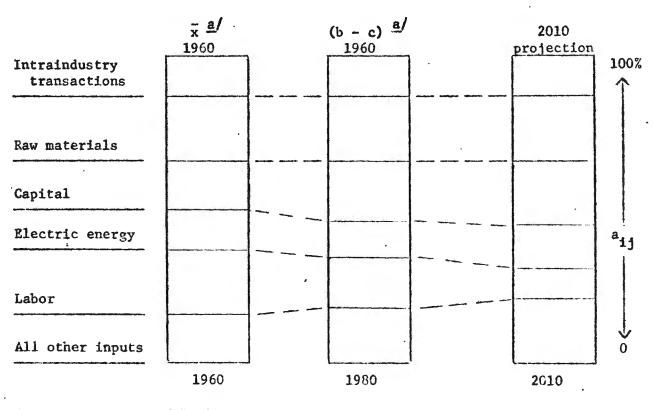
The  $\bar{x}$  represents the mean, and the interval a to b represents the mean plus or minus one standard deviation. In a normal distribution this would include about 68 percent of the firms. In this study the direct input requirements (referred to as  $a_{ij}$ 's) are approximately representative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



<sup>&</sup>lt;sup>a</sup>Based 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 Nodel 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

<sup>38</sup> Such projections must be made cautiously rathern than mechanically and would not necessarily be the linear extrapolations suggested by Figure 9.

<sup>34</sup>This 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 <u>national</u> 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. In spite of these problems, it appears that the best estimates of a 15 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.

For recent discussions of the time lag in the adoption of bestpractice techniques, see W. E. G. Salter, <u>Productivity and Technical</u>
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-2744, and Edwin Mansfield, "Technological Change: Measurment, Determinants, and Diffusion," pp. II-93-132, both in <u>The Employment Impact
of Technological Change</u>, 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 aij 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.

2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	1. Range Livestock 2. Feeder Livestock 3. Dairy 4. Forage, Feed & Food Crops 5. Cotton 6. Vegetable and Melon Products 7. Citrus Crops 8. Forestry 9. All Other Agriculture	787 0 0 353 0 0	0 0 0 5,362 0	0 0 89 1,282	0 0 62	0	0	0	0	1 _ 1							Metals	& Glass Products	Manufactur- ing	Trade	Stations	Drinking Places		Services		Services (Except Professional)	tation	Energy	Utilities	Construc- tion	Finance	Demand	Gross Output
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	3. Dairy 4. Forage, Feed & Food Crops 5. Cotton 6. Vegetable and Melon Products 7. Citrus Crops 8. Forestry	0 0 353 0 0	0 0 5,362 0	0 89 1,282	62	0			V	0	0	0	473	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,217	8,026
4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	4. Forage, Feed & Food Crops 5. Cotton 6. Vegetable and Melon Products 7. Citrus Crops 8. Forestry	0 353 0 0	0 5,362 0 0	89 1,282	62		73	Ó	0	0	0	0	1,995	0	0	0	0	0	0	0	0	0	0	0	0			0	0	0	0	+	32,609
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	5. Cotton 6. Vegetable and Melon Products 7. Citrus Crops 8. Forestry	353 0 0	5,362 0 0	1,282		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	32	4,435
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	6. Vegetable and Melon Products 7. Citrus Crops 8. Forestry	0 0	0		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		10,667	20,653
7. 8. 9. 10. 11. 12. 13. 14. 15.	7. Citrus Crops 8. Forestry	0	0	0	O	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	, 0	4,169		0		0	0	0	0	20,360	24,553
8. 9. 10. 11. 12. 13. 14. 15.	8. Forestry	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			73,194	73,267
9. 10. 11. 12. 13. 14. 15.			0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0										+ -		
10. 11. 12. 13. 14. 15.	9. All Other Agriculture	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	21,611	21,633
11. 12. 13. 14. 15.		0	455	0	0	0	0	0	0	19	0	0	3,255	0	0	0	0	0	0	0	0		4 0	- 0	0		<del>+</del>		0	-		5,754	3,979
11. 12. 13. 14. 15.	10. Uranium	0	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		3,694	9,483 5,315
13. 14. 15.	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		1,910		0	·		9,458	37,423
14. 15.	12. Food & Kindred Products	0	0	701	0	0	0 '	0	0	702	0	0	578	0	0	32	n	0	0	0		31,752	,	-	-		1,710	90	0			+	54,074
14. 15.	13. Lumber & Wood Products	0	0	0	0	o"	0	0	0	0	16	544	0	1,746	0	0	0	0				31,732	4					70	132	2.17/	1	-	
ring 15.	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			-			1	132	3,174	1	11,387	16,999
16	15. Printing & Publishing	0	0	0	0	0	Ó	0	0	0	5	109	158	17	42	221	15	//2	46	507	B76	794	12,269	116	2,188	5,502	174	90	132	500	0	33,175	42,647
1	16. Fabricated Metals	0	0	0	0	0 .	0	0	0	0	11	0	0	0	0	0	227	0	40	307	0/0	794	12,209	- 110	2,100	3,302	174	1	132	529	2,289	5,818	31,937
	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		-		6,348	0	912	7,672
18.	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	4	-	0		347	180	0	20,103		20,684	43,926
19.	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	2.1/2	10.065	19.051	1 726	1,441	2 400	11 110	150	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
□ □ 20.	20. Service Stations	88	97	49	454	295	513	130	103	247	5	109	105	17	84	0	9	42	46	844	250	8,203	1,704	2,142	10,065	18,951	1,736	360	2,499	11,110	458	114,463	177,251
21.	21. Eating & Drinking Places	0	0	0	0	0	0	0	0	0	0	36	0.	0	42	0	0	42	46	338	125		1,363	405	3,501	611	868	180	4,210	4,761	458	45,768	65,792
22.	22. All Other Retail	361	32	53	991	614	2,271	324	44	398	37	181	210	218	84	158	99	294	320	1,013	876	1,455	1,022	405	3,063 3,501	6,113	1,215	1,441	1,316	529 4,232	458	127,182	133,868 386,470
23.	23. Agricultural Services	144	2,275	62	268	2,185	38,832	13,629	0	503	0	0	0	0	0	0	,,,	274	320	1,013	870	1,455	1,022	403	3,301	0,113	1,730	1,441	1,310	4,232	1,831	354,837	
24.	24. Lodging	0	0	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	46	338	63	- 0	341		0		7.002		0		450	637 000	57,898
	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		6 483		1 100	12.566	25.065	2,083	2 242	0 551	4 761			440,364
	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	1,252	6,483 1,720	14,314	1,100	13,566	25,065	2,257 9,549	2,342	8,551 2,105	4,761	-		638,904
27.	27. Electric Energy	8	130	49	207	98	440	195	0	76	69	1,415	578	336	1,219	411	121	2,516			4,130		5,453	347	7,002	9,170		3,963	921	5,819	3,662	86,784	173,622
	28. All Other Utilities	8	0	13	0	49	147	0	0	28	43	835	525	218	463				1,689	4,221	2,190	1,852	14,996				2,431	-		2,116	2,289	-	91,471
29.	29. Contract Construction	0	0	0	0	0	0	0	n	0	64	1,307	53	84	0	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	-	135,297
	30. Rentals & Finance	80	162	80	392	467	3,810	195	223	266	58	2,613	1,943	134	294	759	15	294	457	0 700	501	794	341	695	11,815	5,502	2 (0)	811	2,236	174,580	2,289	+	619,247
		5,965		1,862	16,650	18,609	21,613	5,688	3,521	6,895						/ 39	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
32.	31. Final Payments	~3,700	20,102	2,002	10,000	TA 1 A A A A A A		1 1 11000	3.364	1 0.090	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 5/5	365,314	415,200	4	

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.

									-			,			-					1											
Industry Producing	Industry Purchasing	1 Range Livestock	2 Feeder Livestock	3 Dairy	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		17 Stone, Clay & Glass 4		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 Construction	30 Rentals & Finance
	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 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 3,
	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 4,
Agriculture-	5. Cotton	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.072	.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 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 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 8,
	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 9.
Vinta (	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 16.
Mining	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	.011		.000	.000	.000 11.
	12. Food & Kindred Products	.000	.000	.158	.000	.000	.000	.000	.000	.074	.000	.000	.011	.000	.000	.001	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000		.001	.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 13.
	14. Chemicals	.000	.000	.000	.073	.074	.043	.034	.000	.008	.002	.001	.000	.000	.001	.000	.000	.050	.000	.000	.000	.000	.036	.002	.005	.009	.001	.001	.001		.000 14.
Manufacturing	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	-	.001		.001	.001	
	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 16.
	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	.002	.000	.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	.005	.037	.023	.031	.010	.016	.019	.021	
	19. Wholesale Trade	.009	.001	.007	.014	.012	.006	.009	.008	.003	.003	.015	.002	.006	.004	.002	.008	.002	.008	.007	.006	.062	.003	.007	.008	.001	.005	.004	.032	.009	.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	.000	.000	.007	.001	.007	.002	.000	.001	.001 20.
Trade	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	007	.008	.010	.010	.016	.010	.008	004 22
	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	.000	.000	.000	.000	.000	.000	.000	.000	.004 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	.001	.000	.000	.000	.012	.000	.000	.000	.000 23.
Services	24. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001	.002	.001	,000	.042	.019	.031	.041	.013	.026	.065	.009	.001 24.
1	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	.016	.275	.000	.015	.055	.024	.016	.011	.008 26.
	26. Transportation	.014	.025	.031	.003	.003	.026	.008	.013	.001	.021	.033	.014	.012	.048	.026	.028	.017	.020	.100	.066	.013	.044	.006	.016	.017	.014	.044	.007	.004	.005 27.
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	.030	.002	.032	.012	.012	.058	.007	.004	.009 28.
	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	.001	.012	.027	.009	.000	.009	.017	.330	.009 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	.076	.026	,022	.022	.015	.209	-051	.026	.003 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	1 .020	,,,,,,		.025	.207			
Note: Fach entry	shows the input directly required from the industry at the	2																											DIRECT	PURCHASES PE	ER DOLLAR OF OUTPUT

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.

T PURCHASES PER DOLLAR OF OUTPUT LOWER MAIN-STEM SUB-BASIN 1980 Table LMS-1980-b

Industry Purchasing	Industry Producing		2 Feeder Livestock	3 Dairy	Forage, Feed & Foo Crops		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 I Metals	17 Stone, Clay & Glass			20 Service Stations	21 Eating & Drinking Places	22 All Other Retail	23 Agricultur- al Services	24 Lodging	25 All Other Services (Except Pro-	26 Transporta- tion	27 Electric Energy	28 All Other Utilities	29 Contract Construction	30 Rentals & Finance
	1. Range Livestock	1.108649		.000159	.048931	.001494	.000000	.000000	.000012	.000007	.000000	.002282	.000107	.000052	.003704	.002436	.000044	.000309	006006	010600	****		052500	000700	000114	fessional)					
	2. Feeder Livestock	.155231	1.000049	.000635	.172759	.005498	.000000	.000000	.000019	.014109	.000000	.003780	.001289	.000081	.013186	.001257	.000084	.000309	.006806	.012693	.014134	.000298	.053508	.020728	.000446	.005283	.026864	.006295	.004361	.001294	.021372
	_3. Dairy	.002640	.006320	1.035102	.309811	.001419	.000000	.000000	.000029	.010420	.000000	.005751	.166306	.000122	.022890	.002494			.001248	.009139	.010150	.000494	.018774	.076289	.000732	.005171	.055034	.009990	.003057	.002207	.019230
Agriculture-	4. Forage, Feed & Food Crops	.000010	.000023	.003121	1.002945	.000949	.000000	.000000	.000071	.000038	.000000	.016744	.000613	.000301	.073534	.002629	.000080	.001144	.000551	.015008	.020078	.000562	.030588	.019687	.000728	.017376	.049742	.022274	.009367	.002353	.044398
	5. Cotton	.000002	.000005	.000011	.000011	1.007463	.000000	.000000	.000076	.000009	.000000	.017281	.000136	.000320	.074811	.002029	.000046	.003161	.001511	.016556	.023170	.000374	.049900	.013170	.000359	.008044	.016817	.018033	.005150	.002290	.032903
	6. Vegetable & Melon Products	.000162	.001018	.000037	.000210	.038489	1.001001	.000000	.000072	.000041	.000000	.012691	.000438	.000325	.046105	.003753	.000348	.003306	.001516	.017430	.013694	.000495	.027354	.089665	.000582	.008622	.037959	.011224	.006404	.003493	.031817
	7. Citrus Crops	.000007	.000017	.000038	.000039	.045745	.000000	1.001001	.000128	.000029	.000000	.026028	.000456	.000541	.037622	003700		.002787	.001000	.030701	.013336	.001674	.039473	.534036	.002527	.020624	.192804	.018939	.010658	.012067	.085104
	8. Forestry	.000001	.000003	.000006	.000006	.000000	.000000	.000000	1.000003	.000004	.000000	.000213	.000070			.003290	.000386	.002729	.000942	.037863	.013105	.001737	.024394	.634706	.002624	.023040	.203314	.022482	.008747	.014292	.044112
_	9. All Other Agriculture	.001214	.002905	.006410	.029576	.003921	.000000	.000000	.000017	1.006794	.000000	.002846	.076456	.000012	.000004	.001209	.000030	.000075	.000019	.008762	.026434	.000267	.012001	.000001	.000328	.003845	.017475	.002458	.001908	.000959	.062139
Mining —	10. Uranium	.000002	.000005	.000011	.000011	.000000	.000000	.000000	.001271	.000008	1.438849	.020372	.000132	.005365	.010347	.002423	.000056	.000593	.001288	.007307	.028377	.000343	.046122	.054409	.000424	.009429	.023803	.014806	.007826	.002553	.044706
	11. All Other Mining	.000007	.000017	.000038	.000039	.000000	.000000	.000000	.004094	.000029	.000000	1.007220	.000457	.017275	.003343		.003353	.008817	.000275	.007049	.002720	.000427	.011898	.000001	.000510	.016426	.036092	.023307	.015394	.028215	.027472
	12. Food & Kindred Products	.016347	.039128	.085374	.087051	.000637	.000000	.000000	.000017	.064518	.000000	.001930	1.029695		.001743	.004306	.000747	.014611	.007253	.019143	.005279	.001641	.008156	.000004	.001663	.014525	.041989	.045709	.029044	.056906	.092634
	13. Lumber & Wood Products	.000002	.000004	.000009	.000010	.000000	.000000	.000000	.264531					.000070	.006951	.004427	.000069	.000475	.000382	.006799	.007869	.000348	.014385	.008836	.000404	.032635	.026020	.017415	.013981	.003372	.053609
Manufacturing	14. Chemicals	.000008	.000020	.000044	.000045	.000000	.000000	.000000	.000927	.000007	.000000	.000358	.000113	1.116166	.000023	.002606	.000148	.000440	.000082	.011559	.009138	.000338	.019150	.000001	.000353	.039749	.022135	.026359	.018267	.010128	.035718
	15. Printing & Publishing	.000018	.000043	.000094	.000096	.000001	.000000	.000000	.000016	.000071	.000000			.003912	1.003340	.002673	.000250	.042141	.019862	.010912	.004281	.001952	.005960	.000005	.001089	.025935	.064233	.045806	.021658	.014860	.039907
	16. Fabricated Metals	.000002	.000005	.000010	.000010	.000000	.000000	.000000	.000027	.000071		.002066	.001130	.000066	.000019	1.007656	.000048	.000192	.010174	.003566	.000962	.000309	.006194	.000010	.000416	.011785	.029792	.015596	.019360	.001403	.031720
	17. Stone, Clay & Glass	.000008	.000020	.000044	.000045	.000000	.000000	.000000	.000027	.000033	.000000	.000466	.000121	.000115	.000016	.003342	1.031035	.000299	.000078	.011655	.003509	.000392	.015433	.000001	.000490	.038277	.034886	.020319	.061324	.005753	.028670
	18. All Other Manufacturing	.000007	.000018	.000039	.000039	,000000	.000000	.000000					.000534	.004097	.051189	.002910	.000352	1.018014	.002751	.009450	.003446	.001828	.011113	.000005	.000725	.025659	.034166	.077585	.021730	.025618	.046093
	19. Wholesale Trade	.000012	.000030	.000065	.000067	.000000			.000719	.000029	.0000000	.169664	.000467	.003032	.000586	.002737	.000358	.008253	1.006356	.013993	.002826	.001673	.010242	.000004	.001663	.033779	.032247	.049106	.014188	.026290	.058709
	20. Service Stations	.000012	.000028	,000061	.000062	.000000	.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
Trade -	21. Eating & Drinking Places	.003926	.009396	.020502	.020904	.000153	.000000	.000000	.000031			-	.000736		.000041	.015526	.000250	.000706	.000245	.009400	1.005530	.002747	.016533	.000006	.001995	.026880	.074487	.040295	.019459	.014038	.058590
	22. All Other Retail	.000003	.000008	.000017	.000017	.000000	.000000	.000000		.015493	.000000	.000857	.247272	.000128	.001694	.008734	.000180	.000600	.000211	.067419	.003554	1.000558	.016702	.002122	.000589	.067091	.030071	.023350	.030020	.012033	.072448
ſ	23. Agricultural Services	.000010	.000023	.000050	.000051	.072538	.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
Services	24. Lodging	.000029	.000069	.000151	.000154	.000001	.000000	.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
	25. All Other Services (Except Professional)	.000006	.000014	.000031	.000031	.000000		.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
	26. Transportation	.000030	.000073	.000159	.000162		.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
Utilities —	27. Electric Energy	.000028	.000067	.000135	.000162	.000001	.000000	.0000000	.000057	.000120	.000000	.012285	.001915	.000240	.000145	.002125	.001126	.002401	.000148	.013054	.006262	.007663	.011908	.000016	.012829	.018788	1.062229	.018339	.016077	.002472	.025676
V 02111103	28. All Other Utilities	.000002	.000005	.000011	.000148	.000001	.000000	.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
	29. Contract Construction	.000008	.000019	.000011	.000011		.000000	.000000	.000314	.000008	.000000	.000538	.000134	.001323	.000058	.003062	.000369	.001126	.000060	.023050	.033225	.000478	.012457	.000001	.000451	.072950	.024580	.012088	1.011022	.027757	.063170
	30. Rentals & Finance	.000005	.000019	.000042		.000000	.000000	.000000	.002430	.000031	.000000	.013518	.000501	.010253	.002912	.003001	.018526	.057845	.000207	.033916	.014569	.001954	.014361	.000004	.000474	.021256	.026078	.014335	.011314	1.495381	.050972
Note: Fach entry oh	nows the total dollar production directly and indirectly	A CONTRACTOR OF THE PARTY OF TH	.000011	.000025	.000025	.000000	.000000	.000000	.000017	.000019	.000000	.000204	.000302	.000072	.000020	.005653	.000115	.000349	.000072	.002222	.001602	.001170	.004816	.000003	.001180	.013671	.010153	.006476	.010581		1.047353

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 DOL LAR OF FINAL DEMAND LOWER MAIN-STEM SUB-BASIN 1980 Table LMS-1980-c

		Industry Purchasing	1 Renge	2 Foodor	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	22	24	25	26	27	29	20	20	21	22
Industry Producing			Range Livestock	Feeder Livestock	Dairy	Forage, Feed & Food Crops	Cotton	Vegetable & Melon Products	Citrus Crops	Forestry	All Other Agricultur	Uranium	All Other Mining		Lumber & Wood Products	Chemicals	Printing & Publishing	Fabricated Metals		y All Other Manufactur- ing		Service Stations	Eating & Drinking Places	All Other Retail	Agricultur- al Services		All Other Services (Except Pro	Transpor- tation	Electric Energy	All Other Utilities	Contract Construction	Rentals & Finance	Final Demand	Total Gross Output
		1. Range Livestock	789	4,726	0	0	0	0	0	0	0	0	n	1,645			-				0		0				fessional)							
		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	1,141	8,301 1
		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	38,924	43,901 2
		4. Forage, Feed & Food Crops	340	7,045	1,770	102	0	0	0	0	400	0	0	6,032	1	0	- · · ·	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	275	6,277 3
Agriculture-		5. Cotton	0	0	0	0	68	0	0	0	0	- 0	0	6,032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,755	25,444 4.
		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	26,366	33,896 5
		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	130,024	130,285 6
		8. Forestry	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	37,607	37,645 7
	,	9. All Other Agriculture	0	569	0	0	0	0	0	0		0	0	0	4,534	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,534 8
		10. Uranium	0	0	0	0	0	0	0	0	5/	0	0	7,129	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,522	14,277 9
Mining —		11. All Other Mining	0	0	0	0	0		715	0	0	2,213	102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,926	7,139 10
		12. Food & Kindred Products	83	0	1,017	0		1	/13	0	1 114	100	183	0	0	14,777	0	0	18,295	11,504	0	0	0	0	0	0	0	4,827	0	0	0	0	12,044	62,445 11
		13. Lumber & Wood Products	0	0	0	0		0	0		1,114		0	1,535	0	0	89	0	0	0	0	0	76,393	0	0	0	0	0	223	0	0	0	31,688	112,142 12
		14. Chemicals	0	0	0	2,519	2,678	0	0	0	0	36	1,098	0	2,080	0	0	0	0	0	0	0	0	0	0	0	0	0	0	378	7,367	0	8,831	19,791 13
Manufacturing-		15. Printing & Publishing	0	0	0	2,319	2,070	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	46,709	67,706 14
		16. Fabricated Metals	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
	•	17. Stone, Clay & Glass	0	0	0	1	0	0	0	0	0	21	0	0	0	0	0	508	0	0	0	0	0	0	0	0	0	402	0	0	13,682	0	1,417	16,031 16
		18. All Other Manufacturing	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	804	0	0	42,099	0	39,191	87,310 17
-		19. Wholesale Trade	66	44	56	356	407	782	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	67,384	71,900 18
		20. Service Stations	91	131	69	509	407	702	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
Trade	Tig.	21. Eating & Drinking Places	0	0	0	303	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
Trade	Set	22. All Other Retail	374	88	60	3 170	700	0	0	0		0	122	110	20	67	0	0	167	68	1,107	415	0	0	0	8,289	1	2,816	669	0	1,052	1,346	304,111	322,052 21
<b>├</b>		23. Agricultural Services	183	3,194	100	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				1,058,542 22
		24. Lodging	103	3,1,4	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
Services ———		25. All Other Services (Except Professional)	0	44		<u> </u>	0	0	0	0	0	0	122	0	0	0	0	0	0	68	1,107	208	0	933	0	0	0	4,827	0	0	0	1,346	H	1
		26. Transportation	125	1,356	94	21		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	<del> </del>		1,771,476 25
		27. Electric Energy	123		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
Utilities		28. All Other Utilities	1/	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
			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	
		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	1,027	2,229	6,804	347,313	8,077	H	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		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	+ -	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		50,134		423,697	170,480	169,902	804,750			1,474,832	7,240				1,214,229	700,149	1970,101 30
		32. Total Gross Outlays by the industry at the left to all industries	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		87,310	48,417 71,900	584,705	219,700		1,058,542	54,382	848,863 1,042,610	1,771,476	331,025 402,217	225,552	301,730 389,426	709,040	1,346,151		31

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		2 Feeder Livestock	3 Dairy	Forage, Feed & Food Crops	5 Cotton	6 Vegetable & Melon Products	7 Citrus Crops		9 All Other Agriculture	10 Uranium	11 All Other Mining	12 Food & Kindred Products	13 Lumber & Wood Froducts	14 Chemicals	15 Printing & Publishing			18 All Other Manufactur- ing			21 Eating & Drinking Places	22 All Other Retail	23 Agricul- tural Services	24 Lodging	25 All Other Services (Except Professional)	26 Transpor- tation	27 Electric Energy		29 Contract Construction	30 Rentals & Finance
	1. Range Livestock	.095	.108	.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
	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
	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
	4. Forage, Feed & Food Crops	.041	.161	.282	.004	.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
Agriculture	5. Cotton	.000	.000	.000	.000	.002	.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
	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
	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	.231	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
<b>}</b>	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
fining	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
	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	.012	.000	.000	.000	.000
	12. Food & Kindred Products	.010	.000	.162	.000	.000	.000	.000	.000	.078	.000	,000	.014	.000	.000	.001	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000	.000	.001	.000	.000	.000
	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	.001	,007	.000
	14. Chemicals	.000	.000	.000	.099	.079	.069	.039	.000	.013	,005	.002	.000	.001	.000	.000	.000	.058	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
lanufacturing	15. Printing & Publishing	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.006	.005	.001	.002	.008	002	.001	.001	.004	.015	.007	.036	-002	.006	.010	.001	.002	.001	.001	.006
	16. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.013	.000
	17. Stone, Clay & Glass	.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.015	.000	.000	.000	.000	.000	.014	.007	.000	.000	.000	.000	.000	.000	.000	.002	-000	,000	.040	.000
	18. All Other Manufacturing	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.013	.000		.039	.012	.000	.001	.008	.000	.000	.000	.000	.000	.000	.000	.000	,003	.000	.000	.000
	19. Wholesale Trade	.008	.001	.009	.014	.012	.006	.010	.009	.005	.000	.013	.000	.000	.020	.003	.009	002	.009	008	.007	.064	.006	.037	.023	.031	.011	.017	.019	.022	.001
5	20. Service Stations	.011	.003	.011	.020	.012	.007	.007	.029	.029	002	004	.002	.007	.004	000	.003	001	001	006	.004	.000	.004	-007	.008	.001	.006	.004	.032	.009	.001
rade-	21. Eating & Drinking Places	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.004	.003	.001	.002	.000	.000	.002	.001	.002	.002	.000	.000	.000	.008	.001	.007	.003	.000	.001	.001
	22. All Other Retail	.045	.002	.011	.046	.023	.031	.014	.011	.041	.012	.002	.006	.016	002	.007	.015	.009	.010	.007	.016	.013	.004	.007	.010	.011	.010	.018	.011	.009	.004
	23. Agricultural Services	.022	.073	.016	.019	.092	.535	.633	.000	.058	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
ervices	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	.000	.012	.000	.000	.000	.001
	25. All Other Services (Except Professional)	.000	.001	.007	.002	.002	.000	.002	.002	.002		.002		- 17	.000			.018	.029	.060	.001	.051	.043	.020	.032	.042	.014	.028	.067	.011	.013
	26. Transportation	.015	.031	.036	.004	.004	.026	,011	.016	.002	.011		,028	.032	.033	.010	.031	.018	.029	.105	.021	.013	.017	.275	.000	.016	.056	.026	.017	.012	.008
	27. Electric Energy	.002	,005	.017	.015	.006	.009	.013	.000	.011	.024	.036	.016	.014	.030	.028	.030				.038		.048	.007	.016	.018	.015	.045	.007	.005	.005
tilities	28. All Other Utilities	.001	.000	.005	.000	.003	,002	.000	.000	.005	.017	.041	.014	.022	.032	.017	.019	.071	.039	.026		.014	.032	.002	.033	.012	.012	.058	.007	.004	.009
	29. Contract Construction	.000	.000	.000	.000	.000	.000	.000		+	.010	.025	.012	.013	.013	.018	.058	.013	.007	.018	.015	.023	.001	.012	.029	.010	.000		.018	.330	.006
	30. Rentals & Finance	.013	.009	.022	.024	.023	.056	.014	.000	.000	.014	.039	.002	.005	.000	.000	.002	.008	.010	.000	.008	.007	.080	.012	.029	.023	.018	.010	.052	.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 Table LMS - 2010-b

	6. Vegerable & Nelon Products																												
Industry Purchasing				3 Dairy	Feed & Food	5 Cotton	& Melon		8 Forestry		10 Uranium		Kindred	& Wood	14 Chemicals				Manufactur-			Drinking		ral	24 Lodging	Electric		Contract Construc-	Rentals &
	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
	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
	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
	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
Agriculture ——	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		
		.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		.013164	.093756
	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		.015292	.053341
	8. Forestry	.000002	.000004	.000004	.000007	.000000	.000000	.000000	1.000004	.000005	.000000	.000284	.000082	.000017	.000007	.001422							.012238						-
	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				
Mining-	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			
	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			-
	12. Food & Kindred Products	.022343	.044262	.055807	.082621	.000745	.000000	.000000	.000026	.067753	.000000	.002628	1.029338	.000114	.009183	.006828	.000104	.000687	.000506	.007423			.016498	.010184	.000458	.022156		.005441	.058702
	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
	14. Chemicals	.000014	.000028	.000035	.000052	.000000	.000000	.000000	.001142	.000043	.000000	.237400	.000649	.004945		.003931	.000306	.044383	.023624	.012988	.004906			.000006		-			
Manufacturing		.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		.001789	.034740
		.000003	.000006	.000008	.000011	.000000	.000000	.000000	.000030	.000009	.000000	.000558	.000142	.000132	.000022	,003642	1.033181	.000340	.000125				.017942	.000001	.000539	.024167	.064050	.006237	.034892
	17. Stone, Clay & Glass	.000020	.000039	.000050	.000073	.000001	.000000	.000000	.001173	.000060	.000000	.239103	.000914	.005077	.059859	.004171	.000437	1.021521	.005698	.011366			.014880	.000009	.001056	.091825	.028104	.029492	.055756
		.000012	.000024	.000030	.000044	.000000	.000000	.000000	.000871	.000036	.000000	.175444	.000553	.003772	.001005	.003732	.000416	.011099	1.010601	.016291	.003301		.014459	.000005	.001937	.053141	.017495	.028035	.063160
		.000018	.000035	.000044	.000065	.000001	.000000	.000000	.000019	.000054	.000000	.001534	.000814	.000083	.000033	.005985	.000164	.000393	.000192		.007963	.003135	.010509	.000008		.032478	.023994	.003198	-
	20. Service Stations	.000017	.000033	.000041	.000061	.000001	.000000	.000000	.000037	.000050	.000000	.001172	.000762	.000160	.000054	.016844	.000274	.000765	.000354	.010827	1.005725	.002833	.018945	.000008	.002039	.044095	.020976	.014437	.060566
Trade-	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
	22. All Other Retail	.000005	.000010	.000012	.000018	.000000	.000000	.000000	.000022	.000015	.000000	.000472	.000229	.000094	.000019	.038025	.000096	.000275	.000631	.010139	.005932	.000543	1.007183	.000002	.001436	.054145	.038555	.005227	.102112
	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
Services	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
	25. All Other Services (Except Professional)	.000008	.000017	.000021	.000031	.000000	.000000	.000000	.000037	.000025	.000000	.000498	.000385	.000160	.000048	.011568	.000251	.000744	.000217	.034422	.002264	.001417	.013121	.000004	.000407	.022575	.016066	.016878	.035590
	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
104140400	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
tilities	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
	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
	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

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 DOL LAR OF FINAL DEMAND
LOWER MAIN-STEM SUB-BASIN 2010
Table LMS-2010-c

Industry Producing	Industry Purchasing	I Range Livestock	2 Feeder Livestock	3 Dairy	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 Othe: Manufactur <sup>r</sup> ing	15 Wholesale Trade	16 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (Except Pro-	21 Transpor- tation	22 Electric Energy	23 All Other Utilities		25 Rentals & Finance	26 Final Demand	27 Tot Gro Outp
1	1. Range Livestock	284	328	0	0	0	0	0	0	0	0	0	0	0	0 -						fessional)				CION			ошр
	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	12,901	13,5
	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	778	7
culture-	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	14	6
	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	556	2,3
	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	18	6,0
	7. Coal	0	0	0	0	0	0	4	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	39	
	8. 0il & 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	336	
g	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	1,
	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	118,799	184
	11. Food & Kindred Products	0	0	0	0	0	0	0	0	0	0	108	0	<u> </u>	0 -	0	0	0	0	0	0	0	0	0	0	0	5,036	5
	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	1,823	2
acturing-	13. Printing & Publishing	0	0	0	0		0	2	4	184	21	7	27	82	113	0	0	0	0	262	. 68	0	35	0	2,321	0	27,344	31,
	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	0	78	1,360	2
	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
	16. Service Stations	81	0	4	35	128	6	1	0	184	10	2	27	-	20 -	252	34	349	275	16	575	1,543	70	371	193	0	30,353	34
	17. Eating & Drinking Places	0	0	0	0	0	0	0	2	369	5	0	0	2	1 29	0	236	70	275	33	34	2,875	0	342	0	0	12,627	17
	18. All Other Retail	419	16	16	119	55	36	/4	5	1,476	46	7	55	32	20 -	0	0	0	0	327	34	210	35	29	0	157	33,727	34
	19. Lodging	0	0	0	0	0	0	0	2	184	5	0	0	0	1 29	189	118	3,975	482	114	135	210	35	200	193	157	68,295	76,
ces——	20. All Other Services (Except Professional)	0	0	0	0	0	0	11	1.7	1,107	41	26	165	16	58 -	0	0	0	0	0	0	0	0	0	0	0	16,186	16
	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	
	22. Electric Energy	54	2	8	263	0	4	3	26	2,214	206	39	852	30	835 -	3,534	269	174	275	16	237	4,278	245	257	13,730	549	#	
ties	23. All Other Utilities	68	0	2	14	0	2	2	5	369	- 98	12	55	18	633	12,714	252	384	2,341	114	372	281	4,276	342	193	628	8,643	35
	24. Contract Construction	0	0	0	0	0	0	101	111	1,660	103	17	7,7	10	///	347	67	349	895	163	575	351	245	399	387	1,256	22,770	
	25. Rentals & Finance	824	2	13	109	170	15	15	69	4,058	320	84	55	76	461	0	34	35	138	16	0	210	70	314	49,505	314	143,108	196
	26. Final Payments	10,403	212	240	1,670	5,415	234	202	735	83,566	4,384	1,030		1 000	144	631	824	837	4,751	131	677	421	245	1,169	5,415	3,768	53,674	
	27. Total Gross Outlay	13,513	790	638	2,329	6,078	371	367	1,230	184,470			22,108	1,832	26,730	15,896	14,816	27,156	64,163	14,614	29,976	52,458	29,618	23,174	122,421	65,466		-
Deal Control	sales by the industry at the left to all industries		1	1 030	2,327	0,070	3/1	307	1,230	104,470	5,528	2,454	31,120	2,311	30,073	34,415	17,004	34,898	76,418	16,378	33,833	70,131	35,084	28,507	196,099	78,496		-

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	l Range Livestock	2 Feeder Livestock	3 Dairy	Forage, Feed & Food Crops	5 d 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
	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
	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
	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
Agriculture	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
	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
	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
	7. Coal	.000	.000	.000	.000	.000	.000	.011	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000			.000	.000	.000	.000
Mining	8. 0il & gas	.000	.000	.000	.000	.000	.000	.000	.251	.000	.000	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
HIIIII	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
1	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
	11. Food & kindred products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.045	.000	.000	.000	.000	.000	.015	.000	.000	.000	.000	.000	.000	.000	.000
Manufacturing	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
Manufacturing—	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
	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
	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
Trade	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
11ade	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
	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
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
	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
_	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
Utilities	22. Electric energy	.004	.002	.012	.113	.000	.011	.008	.021	.012	.040	.016	.031	.017	.029	.403	.015	.011	.034	.007	.011	.001	.122	.012	.001	.008
001116169	23. All other utilities	.005	.000	.003	.006	.000	.006	.006	.004	.002	.019	.005	.002	.008	.002	.011	.004	.010	.013	.010	.017	.004	.007	.014	.002	.016
	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
	25. Rentals & finance	.061	.002	.021	.047	.028	.041	.042	.056	.022	.062	.035	.002	.033	.005	.020	.049	.024	.069	.001	.020	.003	.007	.041	.028	.048

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 LITTLE COLORADO SUB-BASIN 1980 Table LC-1980-b

	T-J				1.00									1									1			
Industry	Industry Producing	l Range Livestock	2 Feeder Livestock	3 Dairy	Forage,  Feed & Food	5 Forestry	6 All Other Agriculture	7 Coal	8 Oil & Gas	9 Uranium	10 All Other Mining	11 Food & Kindred	12 Lumber & Wood	13 Printing & Publishing		15 Wholesale Trade	16 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (except pro-	21 Trans- portation	22 Electric Energy	23 All Other Utilities	24 Contract Construction	25 Rentals Finance
Purchasing					01000	1						Products	Products		ing						fessional)			-		
	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
	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
	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
riculture	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
	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
	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
	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
	,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
ning-	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
	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
	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
	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
nufacturing-	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
	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
	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
	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
ade — "	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	.03655
~	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	.07563
	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	.01142
rvices	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
	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
Ilities —	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
	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
	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	.04142
	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	1.05377

ectly 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	l Range Livestock	2 Feeder Livestock	3 Dairy	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 Manufactur- ing	15 Wholesale Trade	16 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (Except Pro- fessional)	21 Transpor- tation	22 Electric Energy	23 All Other Utilities	24 Contract Construction	25 Rentals & Finance	26 Final Demand	27 Total Gross Output
	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
	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
	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
riculture	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
	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
<u> </u>	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
	7. Coal	0	0	0	0	0	0	3	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	220	254
ning	8. Oil & Gas	0	0	0	0	0	0	0	593	0	0	0	0	0	1,680	0	0	0	0	0	0	0	0	0	0	0	0	2,273
	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
	10. All Other Mining	0	0	0	0	0	0	2	0	0	0	0	0	0	1,008	0	0	0	0	0	0	0	0	0	0	0	7,553	8,563
	11. Food & Kindred Products	0	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
nufacturing	12. Lumber & Wood Products	0	0	0	0	0	0	3	0	1,676	160	0	214	0	288	0	0	0	0	906	166	0	52	0	4,652	0	25,827	33,944
ndracedring	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
	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
	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
	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
ade	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
a a	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
mud o o o	19. Lodging	0	0	0	0	0	0	0	7	335	8	0	0	0	0	0	0	0	0	0	0	0	52	0	0	0	52,989	53,391
rvices	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
	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	
114+400	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
ilities	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
	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
	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
	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		
	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	1	

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)
LITTLE COLORADO SUB-BASIN 2010
Table LC-2010-a

Industry Producing	Industry Purchasing	1 Range L <b>1</b> vestock	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 Manufactur-	15 Wholesale Trade	l6 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (Except pro- fessional)	21 Trenspor- tation	22 Electric Energy	23 All Other Utilities	24 Contract Construction	25 Rentals & Finance
	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
	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
1	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
Agriculture ———	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
	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
	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
	7. Coal	.000	.000	.000	.000	.000	.000	.013	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Mining —	8. 0il & 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
mining ———	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
_	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
	11. Food & kindred products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.048	.000	.000	.000	.000	.000	.017	.000	.001	.000	.000	.000	.000	.000	.000
Manufacturing-	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
manuracturing	13. Printing & publishing	.000	.000	.000	.000	.000	.000	.007	.003	.001	.004	.003	.002	.038	.001	.001	.001	.001	.004	.001	.006	.001	.001	.001	.001	.002
_	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
	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
Trade —	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
	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
_	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
Services-	19. Lodging	.000	.000	.000	.000	.000	.000	.000	.003	.001	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000
	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
	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
Jtilities	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
CITICIES	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
	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
	25. Rentals & finance lows the input directly required from the industry at he table to produce one dollar's worth of output by	.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

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 LITTLE COLORADO SUB-BASIN 2010 Table LC-2010-b

				1																					
Industry Producing	l 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			14 All Other Manufactur- ing	15 Wholesale Trade	16 Service Stations	17 Eating & Drinking Places	18 All Other Retail	19 Lodging	20 All Other Services (Except Pro-	21 Trans- portation	22 Electric Energy	23 All Other Utilities	24 Contract Construction	25 Rentals & Finance
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
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
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
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
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
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
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
8. 011 & 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
9. Uranium	.000000	.000000	.000027	.000015	.001809	.000011	.000009	.002170	1.560062	.000962	.000110	.008613	-002352	.04582 <b>5</b>	.010200	.010580	.006046	.021293	.001605	.023960	.189718	.037814	.006985	.026349	.055132
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
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
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
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
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
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
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
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
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
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
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
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
22. Electric energy	.000000	.000000	.000011	.000006	.000278	.000005	.000001	.000360	.000000	.000160	.000045	.001323	.001323	.007597	.004118	.001959	.002472	.002994	.001145	.005754		1.144010	.011125	.006801	.014970
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
24. Contract construction	.000000	.000000	.000009	.000005	.004041	.000004	.000019	.001035	.000000	.000459	.000039	.019243	.001831	.021863	.005934	.006721	.002157	.004050	.000012			.008153	.006387	1.353194	.050329
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
	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	Producing   1	1   2   Range   Livestock   1.021733   .000657	Producing   1	Producing   1	Producing   1	Producing   1   2   3   4   5   6   6   1   1   1   1   1   1   1   1	1	Producing   1   2   3   4   5   6   7   8   1   6   8	Producting   1	Producing   1	Producting   1	Producting   1   2   3   4   5   6   7   8   9   10   11   12   12   13   14   14   14   14   14   14   14	Producting   1	Profession   Pro	Production   1	Production   Production   Production   Production   Product   Pr	Production   Pro	Processing   Pro	Processing   1	Part   Part	Profession   1	Part   Part	Part	Part   Part

ectly 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

ustry	Industry Purchasing	1 2 Range Feeder Livestock Livestock	3 Dairy	Forag Feed & F Crops	Food	5 otton Ve	6 getables	7 Citrus Crops	8 Forestry	9 All Other Agricul- ture	10 Uraniw	11 Copper	12 All Other Mining	13 Food & Kindred Products	14 Lumber & Wood Products	15 Furniture & Fixtures	16 Paper & Pulp	17 Chemicals		19 Printing & Publishing		21 extiles & Apparel	22 Leather & S Leather Goods	23 Stone, Clay & Class	24 All Other Whanufactur- ing		26 Service Stations	27 Eating & Drinking Places	28 All Other Retail	29 Agricultur- al Services	30 Lodging	31 All Other Services (Except Pro- fessional)	1	33 Electric Energy	34 All Other Utilities		36 Rentals & Finance	37 Final Demand
	1. Range Livestock	0 41,153	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	n	0	3,381
	2. Feeder Livestock	0 0	0	1,6	611	0	0	192	0	0	0	0	0	83,866	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	29,930
	3. Dairy	0 0	941	. 5	575	0	0	90	0	0	0	0	0	67,411	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	3,381
	4. Forage, Feed & Food Crops	2,736 20,808	29,973		58	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	1,171
iculture	5. Cotton	0 0	0		0	215	0	0	0	0	0	0	0	37,687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	1 0			
	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		176,959
	7. Citrus Crops	0 0	0		0	0	0	11	0	0	0	0	0	3,716	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75,849
	8. Forestry	0 0	0	le d	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	7,339
	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	3,339	0	0	0	0		0	0			14 031
	10. Uranium	12 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	14,031
ing	11. Copper	0 0	0		0	0	0	0	0	0	0	13,178	328	0	0	0	0	0	421,904	0	0	0	0	0	0	0	0	0	0	0	0	0		0	1 0	0	- 0	614
	12. All Other Mining	4 0	0		0	0	0	0	0	0	4	3,514	24,637	0	0	0	0	8,987	33,752	0	4,605	0	0	19,324	1,427	0	0	0	0	0	0	,		-	1	22.252	0	3,852
	13. Food & Kindred Products	730 5,896	2,606		0	3,653	0	102	0	4,465	0	4,393		20,170	0	0	0	0	603	104	0	0	204	0	4,994	0	0	52,469	0	0	2,645	775	6,488	408	0	22,252	0	47,231
	14. Lumber & Wood Products	6 0	0		0	0	0	0	0	0	6	1,318	821	0	933	908	7,829	0	1,205	0	0	0	0	0	713	0	0	0	0	0	2,0,0	( ,,,,	0,400	408	0	17 307		35,959
4	15. Furniture & Fixtures	0 0	0		0	0	0	0	0	0	0	0	0	0	0	1,372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165		0	406	0	17,307		
	16. Paper & Pulp	0 0	0		0	0	0	0	0	44	0	0	0	5,308	58	807	1,678	0	0	6,219	0	0	1	0	1.427	0	0	0	1 400	0	165		722	0	0	0		20,942
	17. Chemicals	0 0	0	2,8	377	6,446	5,307	688	0	200	4	8,785	3,121	531	58	0	22	786	603	0	0	0	0	0	4,281	0		0	1,499	0	100	77 (10	/21	0	0	0	0	5,216
	18. Primary Metals	0 0	0		0	0	0	0	0	0	0	439	2,464	1	0	0	0	0	6,027	0	7.073	0	0	0	8,561	0	0	0	0	0	0	31,618	0	0 /	0	4,945	0	12,159
ufacturing	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	1,970	658	37	5	703	5,707	923	2,432	1,908	0	- 6	( ) ) )	0 201	0	1 0 /	0	0	0	579,450
	20. Fabricated Metals	0 0	0		0	0	0	0	0	0	12	3,953	-	0	350	0	0	0	1,808	311	8,388	0	0	0	4,994	0	111	1,900	9 001	40	4,132	9,294	2,163	815	1,902	2,472	6,802	49,474
	21. Textiles & Apparel	0 0	0		0	0	0	0	0	0	0	0,,,,,	2,7,7	1 0	330	0	0	0	0	311	0,500	129	18	0	4,734		111	0	8,991	0	0	2,324	6,128	1,631	1,268	84,062	0	46,552
	22. Leather & Leather Goods	0 0	0		0	0	0	0	0	0	0	0		1	0	0	0	0	0	0	0	37	0	0		0	0	0	0	0	0	[0]	0	0 '	0	0	0	20,562
		0 0	0		0	0	0	0	0	0	32	2,196	3,285	531	992	0	0	0	1,808	704	0	3/	0	20 512	5. 707	0	0	0	0	0	0	0	0	0 '	0	0	0	847
	23. Stone, Clay & Glass 24. All Other Manufacturing	0 0	0		58	1.934	156	34	0	44	8	3 953	1,642	4 777	223	2//2	45	449	7,233	622	2 0/0	166	2	29,513	3,107	101 560	0	0	1,499	0	0	0	0	0 '	0	116,204	0	18,063
<b>-</b>	25. Wholesale Trade	137 809	434	8		3,653	1.015	102	6	311	2	3,953		15,393	1.050	484	43	225	603	1,659	3,948	92	2			101,563	0	0	2,997			13,167	22,347	5,707	10,144	22,252	0	451,765
	26. Service Stations	547 231	579			2,363	781	90	42	111	2	1.757		531	1,030	404	0	223	+		3,703	92	0	1,581	2,854	12,003	1,106	30,050	46,454	413	4,628	,,,,,,	6,848	1,223	8,876	106,314	4,081	736,362
ie -	d	0 0	3,7		0	0		- 30	0	111	1	1,757	821	531	11/	40	22	0	603	829	329	92	0	176	2,140	923	553	477	1,499	1,836	2,645	- /	1,442	0	8,876	7,417	0	76,176
	27. Eating & Drinking Places	182 2,890	1,376	2,4	174 1	1,388	3,278	316	21	2,732	1	2 106		331	38	20	201	112	603	207	329	37	0	1/6	713	1,847	442	4,770	4,496	92	2,149		2,163	1,631	1,268	2,472		451,409
}_	28. All Other Retail	102 2,070	1,370	- 11					21		9	2,196	3,285	2,123	1,808	81	0	225	603	1,244	1,316	221	0	1,405	2,854	28,622	774	4,770	14,985	413	2,810	11,618	2,884	5,299	5,706	22,252	8,162	1,523,507
Services-	29. Agricultural Services	0 925	0	4,8	3.4 3.	5,452	156	3,882	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	200
	30. Lodging	0 0	0		-0	215	- 0		0	0	1	2,196	2,,,,	531	58	20	45	56	603	311	329	18	0	0	713	11,080	221	0	1,499	0	0	775	1,081	408	3,170	0	1,360	139,330
L	31. All Other Services (Except Professional)	0 0	0		58	213	/8	23	0	22	8	8,785	3,285	9,024			201	1,348	3,014		3,948	166	19	5,270	5,707	27,699	2,543	34,343	47,953	734	11,735	33,304	10,453	1,223	29,165	22,252	12,244	533,142
	32. Transportation	547 2,081	2,172		-		2,420	11	36	200	16		+	15,924	3,208	787	1,342	1,180	17,479	2,902	2,632	148	4	12,121	12,128	64,631	5,639	6,678	49,452	3,396	826	10,069	11,174	4,892	6,974	12,362	1,360	71,516
ilities	33. Electric Energy	274 231	L 652				1,249	271	0	178	47	8,346	-	4,777	1,458	464	336	899	16,273	1,866	2,961	240	9	2,986	11,415	56,321	4,754	5,247	35,965	367	661	9,294	3,604	63,185	3,170	2,472	9,523	154,428
	34. All Other Utilities	137 116	5 145		58	859	78	11	0	67	12	8,785	4,599	3,185	875	363	403	506	9,644	1,762	2,303	148	11	2,108		17,543	3,759	9,540	34,466	1,147	6,281	13,167	11,895	13,860	8,876	7,417	14,965	464,209
	35. Contract Construction	0 0	0		0	0	0	0	0	0	40	4,393	1,971	4,777	467	0	0	56	4,822	622	329	203	10	351	5,707	11,080	2,432	3,816	17,982	0	5,289	6,971	1,442	815	7,608	655,192		
	36. Rentals & Finance	5,517 2,428	1,520	1,7	726 1	0,743	2,185	1,456	57	555	. 20	2,196	27,922	16,986	2,625	605	559	2,247	12,657	3,628	4,605	572	20	2,284	7,134		6,081	14,310	56,944	2,799	6,777	30,981	18,022	21,198		-	53,056 1	1,731,315
	37. Final Payments	34,467 38,031	32,001	39,4	474 13	2,784	61,269	3,984	1,938	9,975	551	332,963			48,917	15,923	10,326	45,019		79.228	126,139	18,403	581	101,408			94.685		1.347 149								38,091	933,083
	38. Total Gross Outlays	45,596 115,599		57,5	544 21		78,050	11,286	2,100	22,214	790				67,407	22,479	23,143		604,014	105,868		20,709	884	179,933	759,463 1,0		94,685	322,022	1,347,149	45,893	114,375	627,931	251,587	293,351	527,353	1,363,654 1	,200,270	

							1	1				1	T	1	T	1	T	T				T		1					T	-				d rediction			
	Industry	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	24	25	1 2/
Industry	Purchasing		eder	Dairy	Forage,	Cotton	Vegetables		1	All Other	Uranium	Copper	All Other		Lumber &	Furniture &		Chemicals		Printing &	Fabricated		Leather &		All Other	Wholesale	Service	Eating &	All Other	Agricultura	Lodging	All Other	Trans	Plantata	34	35 1	36
Producing	•	Livestock Live	estock		Feed & Food	a		Crops		Agriculture			Mining	Kindred Products	Wood	Fixtures	Pulp		Metals	Publishing	Metals	Apparel	Leather	& Glass	Manufactur-	Trade	Stationa	Drinking	Retail	Services	Loughing	(Except Pro	Trans- portation			Contract Construc-	Rentals
	1. Range Livestock	.000 .3	356	.000	.000	.000	.000	.000	.000	,000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	Places	.000	,000		fessional)		0,		tion	
	2. Feeder Livestock	.000 .0	000	.000	.028	.000	.000	.017	.000	.000	.000	.000	.000	.158	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		.000	.000	.000	.000	.000	.000	.000
	3. Dairy		000	.013	.010	.000	.000	.008	.000	.000	.000	.000	.000	.127	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	4. Forage, Feed & Food Crops		180	.414	.001	.000	.000	.000	.000	.126	.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
griculture	5. Cotton		000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000		.000	.000	.000	.000	.000	.000	.000	.00
	6. Vegetables	-	000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.004	.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	.001	.000	.000	.000	.000	.000	.007	.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 .0	000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	.000	,000	.000	.000	.000	.000	.000	.000	.000	.000
	9. All Other Agriculture		000	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	.007	.000	.000	.000	.000	.000	.000	.000	.000	.000
}	10. Uranium		000	.000	.000	.000	.000	.000	.000	.000	.015	.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
fining——	11. Copper		000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.002	.000	.000	.000	.000	.000	.700	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.00
1111118	12. All Other Mining	1	000	.000	.000	.000	.000	.000	.000	.000	.005	.008	.150	.000	.000	.000	.000	.160	.056	.000	.028	.000	.000	.110	.002	.000	.000	.000	.000	,000	.000	.000	.000	.000	.000	.000	.00
}	13. Food & Kindred Products		051	.036	.000	.017	.000	.009	.000	.201	.000	.010	.000	.038	.000	.000	.000	.000	.001	.001	.000	.000	.250	.000	.007	000	000	.110	.000	.000	.000	.000	.000	.000	,000	.009	.00
	14. Lumber & Wood Products	.000 .0	000	.000	.000	.000	.000	.000	.000	.000	.007 .	.003	.005	.000	.016	.045	.350	.000	.002	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.016	.001	.018	.001	.000	.000	.00
	15. Furniture & Fixtures	.000 .0	000	.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	.001	.000	.007	
	16. Paper & Pulp		000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.010	.001	.040	.075	.000	.000	.060	.000	.000	.001	.000	.002	.000	.000	.000	001	.000	.001		.000	.000	.000	.000	.00
	17. Chemicals	.0000	000	.000	.050	.030	.068	.061	.000	.009	.005	.020	.019	.001	.001	.000	.001	.014	.001	.000	.000	.000	.000	.000	.006	.000	.000	.000	.000	,000	.000	.000	.002	.000	.000	.000	.00
	18. Primary Metals	***************************************	000	.000	.000	,000	.000	.000	.000	.000	-000	.001	.015	.000	.000	.000	.000	.000	.010	.000	.043	.000	.000	.000	.012	.000	.000	.000	.000	,000		.015	.000	.000	.000	.002	.00
anufacturing-	19. Printing & Publishing		000	.000	.000	,000	.000	.002	.000	.000	.004	.008	.010	.009	.003	.010	.006	.006	.006	.019	.004	.002	.006	.004	.008	.001	.022	.004	.000	.000	.000	.000	.000	.000	.000	.000	.00
	20. Fabricated Metals		000	.000	.000	.000	.000	.000	.000	.000	.015	.009	.017	.000	.006	.000	.000	.000	.003	.003	.051	.000	.000	.000	.007	.000	.001	.000	.006	.001	.025	.012	.006	.002	.003	.001	.00
	21. Textiles & Apparel			.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.007	.022	.000	.000	.000	.000	.000	.000	.000	.000	.003	.017	.004	.002	.034	.00
	22. Leather & Leather Goods		000	.000	.000	.000	.000	.000	.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	.00
	23. Stone, Clay & Glass	-	000	.000	.000	.000	,000	.000	.000	.000	.040	.005	.020	.001	.017	.000	.000	.000	.003	.001	.000	.000	.000	.168	.008	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.00
	24. All Other Manufacturing	<del></del>	000	.000	.001	.009	.002	.003	.000	.002	.010	.009	.010	.009	,004	.012	.002	.008	.012	.006	.024	.009	.002	.003	.145	110	.000	.000	.001	.000	.000	.000	.000	.000	.000	.047	.00
}	25. Wholesale Trade		007	.006	.014	.017	.013	.009	.003	.014	.002	.009	.015	.029	.018	.024	.000	.004	.001	.016	.023	.005	.000	.009	.004	.013	.010	.063	.002	.009	.028		.062	.014	.016	.009	00
	26. Service Stations	-	002	.008	.014	.011	,010	.008	.020	.005	.002	.004	.004	.001	.002	.002	.001	.000	.001	.008	.002	.005	.000	.001	.003	.001	.005	.003	.031	.040	.016	.024	.019	.003	.014	.043	.00
Trade	27. Eating & Drinking Places		000	.000	.000	.000	.000	.000	.000	.000	.010	.000	.005	.001	.001	.001	.009	.002	.001	.002	.002	.002	.000	.001	.001	.002	.004	.010	.001	.002	.013	.014	.004	.000	.014	.003	.00
	28. All Other Retail		025	.019	.043	.053	.042	.028	.010	.123	.011	.005	.020	.004	.031	.004	.000	.004	.001	.012	.008	.012		.008	.004	.031	.007	.010	.003	.009	.017	.002	.006	.004	.002		.00
}	29. Agricultural Services		008	.000	.084	.165	.002	.344	.000	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000				.015	.008	.013	.009	.009	.00
ervices-	30. Lodging		000	.000	.000	.000	,000	.000	.000	.000	.001	.005	.009	.001	.001	.001	.002	001	.001	003	.002	.001	.000	.000	.001	.012	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.00
ervices-	31. All Other Services (Except Professional)		000	.000	.001	.001	.001	.002	.000	.001	.010	.020	.020	.017	.032	.008	.009	.024	.005	.022	.024	.009	.023	.030	.008	.030	.023	.072	.001	.016	.071	.001	.003	.001	.005	.000	.00
_	32. Transportation		018	.030	.028	.012	.031	.001	-017	.009	.020	.042	.070	.030	.055	.039	.060	.021	.029	.028	.016	.008	.005	.069	.017	.070			.032			.043	.029	.003	.046		.00
	33. Electric Energy			.009	.009	.012	.016	024	.000	.008	.060	1010	.055	.009	.025	.023	.015	.016	.027	.018	.018			.017	.016	.061	.051	.014	.033	.074	.005	.013	.031	.012	.011	,005	.00
tilities	33. Electric Energy 34. All Other Utilities		001	.009	.009	.004	.001	001	.000	.003	.015	.020	.028	.006	.015	.018	.018	.009	.016	.017	.014	.008		.012	.009		.043	.011	.024	.008	.004	.012	.010	.155	.005	.001	.00
	35. Contract Construction		000	.000	.000	.000	.000	.000	.000			1 010	010			.000	.000	.001	.008	.006	.002	.011	.013	.002	.009	.019	.034	.020	.023	.025	.038	.017	.033	.034	.014	.003	.0
		-				.000	.028	120	.027	.000	.050	.010	170	.009	.008	.030	.025	.040	.008	.035	.002	.031	.025			.012	.022	.008	.012	.000	.032	.009	.004	.002	.012	.265	.03
	36. Rentals & Finance s the input directly required from the industry at the		021	.021	.030	.050	.028	.129	.02/	.025	.025	.005	1 .170	,032	.045	.030	.025	.040	.021	.033	.020		.023	.013	.010	.052	.055	.030	.038	.061	.041	.040	.050	.052	.040	.020	.028

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	,		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	1.9	20	21	20	0.2	0.4			1		1							
	Industry Producing	Range Feed	ler Dai	rv Fo	rage, Co	otton V	egetables	Citrus	Forestry	All Other	Uranium	Copper	All Other	Food &	Lumber &	Furniture	Paper &	Chemicals	Primary	Printing &	Fabricated	Textiles	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
Industry Purchasing		Livestock Lives			& Food			Crops		griculture			Mining	Kindred	Wood	. &	Pu1p			Publishing		&			y All Other Manufactur-	Wholesale Trade	Service Stations	Eating & Drinking	All Other Retail	Agricultural		All Other Services	Trans-	Electric A		Contract Re	entals &
	V				rops	2010/6	050000	000100	-000007	000164	000001	000063	200006	Products	Products							Apparel	Goods		ing		51311043	Places	Recall	Services		fessional)	portation	Energy	Itilities Co	onstruc- F:	nance
	1. Range Livestock	2,002012	04514 .002	.0	62190 .0	001246	.000070	.000123	.000007	.000164	.000001	.000062	.000826	.017538	.000198	.000000	.000337	.003334	.000083	.001431	.000797	.000000	.000000	.000552	.002953	.006459	.013538	.000865	.008805	.005511	.000386	.003810	.017612	.011150	.006873	.008244	.131804
	2. Feeder Livestock	.361658 1.01	15549 .010	0013 .2	.08923 .0	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		.085254
	3. Dairy	.006637 .01	1.02	.4	27605 .0	002895	.000163	.000285	.000013	.000375	.000004	.000184	.004394	.040733	.000357	.000001	.000742	.022116	.000243	.001850	.001731	.000000	.000000	.000608	.008318	.017685	.016521	.001103	.041650	.036650	.000699	.007793	.053848	.021909	.009436	.00,71,	.050629
	4. Forage, Feed & Food Crops	.010265 .02	28816 .010	0654 1.0	11229 .0	000225	.000013	.000022	.000008	.000037	.000010	.000256	.009976	.003170	.000230	.000001	.0003±6	.051695	.000326	.001792	.001676	.000000	.000000	.000695	.008385	.019438	.018549	.001208	.048142	.085219	.000739	.009401	.043577	.018641	.009243	005363	051074
Agriculture —	5. Cotton	.001123 .00	03049 .00	2461 .0	01660 1.0	002350	.000076	.000133	.000011	.000182	.000006	.000287	.006147	.018988	.000307	.000001	.000512	.031034	.000380	.002041	.001648	.000000	.000000	.000824	.017700	.023625	.018537	.001441	.058137	.165601	.000795	.011181	.032894	.023107	.014561	.007108	.074415
	6. Vegetables	.000058 .00	00157 .000	0127 .0	0.00086	000070	1.001005	1 001085	.000008	.000016	.000014	.000303	.013325	.000978	.000231	.000001	.000265	.069489	.000382	.001565	.001617	.000000	.000000	.000729	.009073	.016873	.010697	.000997	.044889	.002025	.000705	.007750	.038918	.025473	.006832	1007200	041821
	7. Citrus Crops	.006837 .01	19138 .00	0.00	07911 .0	000034	0000048	000003	1 000003	.000123	.000012	.000316	.012251	.012014	.000419	.000001	.000607	.062966	.000403	.005146	.001928	.000000	.000000	.001164	.010961	.017701	.023140	.002342	.036402	.345334	.000942	.016645	.036495	.040275	.018017		171345
	8. Forestry	.000026 .00	00072 .00	0.08	.00039	000032	.000002	.000003	1.000002	.000007	.000000	.000039	.000093	.000445	.000066	.000000	.000117	.000058	.000053	.000813	.000581	.000000	.000000	.000194	.002186	.004355	.020286	.000399	.010881	.000010	.000217	.002133	.019559	.002293	.002235		031093
	9. All Other Agriculture	7020707	38032 .02	108 .1	.46506 .0	015251	.000859	.001504	.00008	1.004957	.000004	.000233	.003750	.214584	.001894	.000001	.004969	.017848	.000312	.003402	.002217	.000000	.000000	.001236	.013079	.030531	.010287	.001558	.137656	.035745	.001099	.014968	.034702	.023464	.013379	009767	057928
	10. Uranium	1000001	00183 .00	0148 .0	000101 .0	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	.030843	.078080	-022854	073720	.041732
Mining	11. Copper	.000730 .00	01982 .00	1600 .0	001079 .0	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
Mining	12. All Other Mining		00590 .00	7340 .0	000328	075211	.000015	.000026	.000253	.000094	.001206	.016517	1.187828	.003671	.007023	.000013	.001424	.024158	.019494	.016223	.025715	.000000	.000000	.031349	.029927	.027922	.007222	.008678	.031247	.000086	.012235	.040178	.098219	.088640	.047960	.036743	229992
	13. Food & Kindred Products	.062691 .17	70145 .13	7340 .0	192349 ,0	0/5311	.004243	000012	.000100	.009502	,000003	.000309	002531	1.059664	.004622	.000002	.012429	.009556	.000421	.011561	.002343	.000000	.000000	.002805	.023138	.041105	.007699	.002357	.025130	.024316	.002078	.026546	.054388	.023612	.014810		071032
	14. Lumber & Wood Products		00282 .00	0.0	00146	000123	.000007	.000012	.036614	.000032	.000004	.000465	.003771	.001758	1.017048	1.073064	.001660	.001893	.000633	.005009	.008994	.000000	.000000	.022051	.015241	.024366	.004253	.002275	.035941	.000041	.001897	.041674	.065707	.036557	.022771	.017273	061331
	15. Furniture & Fixtures		00264 .00	0213 .0	.00146	000117	.000007	.000012	.002379	,000033	.000001	.000296	.000582	.001643	.066073	1.072964	.04/303	.0005/9	.000409	.012814	.002177	.000000	.000000	.001955	.025152	.030683	.003527	.002550	.009601	.000038	.002099	.017608	.054915	.037104	.027051	.005615	047647
	16. Paper & Pulp		00546 .00	0000	000307 .0	000242	.000014	.000024	.013863	.000112	.000002	.000316	.001867	.003401	.385142	.000004	1.082421	.002149	.000432	.009717	.005079	.000000	.000000	.008666	.015081	.012764	.003720	.011525	.015667	.000081	.003377	.031291	.093915	.035594	.032918	.010066	059030
	17. Chemicals		00250 .00	0202 .0	.00139	000111	.000006	,000011	.000031	.000043	.000196	.002833	.193047	.001556	.001417	.000004	.000001	1.018662	.003374	.009869	.005169	.000000	.000000	.005540	.018273	.011061	.002010	.004063	.010981	.000037	.003362	.034952	.040180	.035985	.020338	.011146	384616
	18. Primary Metals		01773 .00	1432 .0	000967 .0	000785	.000044	.000077	.000197	.000120	.000081	.731264	.079490	.011045	.005481	.000007	.001374	.01823	1.013096	.015325	.014777	.000000	.000000	.012058	.033873	.015456	.006176	.002868	.010845	.000254	.006321	.031410	.074910	.060097	.041712	.028559 .0	J55322
Manufacturing-	19. Printing & Publishing	.000148 .00	00401 .00	0324 .0	000221 .0	000177	.000010	.000017	,000856	.000048	.000001	.000301	.000857	.002497	.023781	.000004	.066445	.000716	.000414	1.021397	.005080	.000000	.000000	.002670	.014894	.020907	.009493	.003583	.015946	.000058	.003892	.030339	.039518	.028186	.024218	.013582	048896
	20. Fabricated Metals		00281 .00	0227 .0	000156 .0	000125	.000007	.000012	.000027	.000038	.000040	.033986	.039129	.001752	.000761	.000004	.000625	.002272	.046983	.006815	1.056449	.000000	.000000	.002268	.038770	.029017	.003683	.003222	.012643	.000041	.003427	.033438	.028387	.032397	022502	.009525 .0	047576
	21. Textiles & Apparel		00192 .00	0155 .0	000107 .0	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			036901
	22. Leather & Leather Goods		12302 100	1371	023163 .0	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			048257
	23. Stone, Clay & Glass	.000157 .00	00427 .00	0345 .0	000235	000189	.000011	.000019	.000046	.000048	.000160	.002392	.157478	.002658	.001270	.000003	.000874	.003991	.002865	.008663	.005776	.000000	.000000	1.206650	.018615	.019103	.003608	.003401	.016783	.000062	.002340	.048742	.102277	.040162		.024000	
1	24. All Other Manufacturing		01547 .00		000843 .0	000685	.000039	.000068	.000095	.000100	.000008	.010703	.007453	.009634	.002648	.000002	.003415	.007864	.014810	.010814	.010272	.000000	.000000	.012571	1.174766	.008267	.004434		.007119	.000221	.001721	.014493	.026296	.026438			021099
	25. Wholesale Trade					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				
] =[	26. Service Stations	.000116 .00				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					069776
Trade-	27. Eating & Drinking Places	.007110 .0				008531	.000481	,000841		.008184	.000001	.000213	.000993	.120033	.000859	.000002	.001906	.002573	.000292	,007249	.001915	.000000	.000000	.001441	.015998	.073820	.003812	1.011263	.018732	.002973	.001478	.084927	.029029			.018908 .0	
	28. All Other Retail	.000085 .00	00230 .00	0185 .0	000128 .0	000102	.000006	.000010	.000024	.000041	.000001	.000383	.001048	.001430	.000678	.000002	.001324	.000761	.000527	.001501	.008342	.000000	.000000	.002596	.012269	.035864	.002359	.003973	1.013671	.000034	.001885	.039415	.039630				049811
	29. Agricultural Services	.000122 .00	00332 .00	0268 .0	000183 .0	000147	.000008	.000014	.000009	.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			.007158 .0	
Services	30. Lodging		03067 .00		001681 .0	001357	.000076	.000134	.000057	.000272	.000001	.000192	.001380	.019098	.001589	.001074	.003228	.001618	.000262	.027971	.002845	.000000	.000000	.003112	.009644	.036874	.018575	.014179	.022286	.000441	1.001065	.082741	.014443				57081
Belvices	31. All Other Services (Except Professional)	.000126 .00	00341 .00	0275 .0	000188 .0	000151	.000009	.000015	.000021	.000040	.000004	.000444	.003716	.002123	.000581	.000002	.001073	.016293	.000605	.014238	.004929	.000000	.000000	.001436	.027573	.028945	.015565	.002941	.018671	.000049	.001833	1.050925	.020292				
	32. Transportation	.001266 .00	03437 .00		001876 .0	001521	.000086	.000150	.000049	.000244	.000002	.001366	.001591	.021403	.001359	.000004	.003235	.001351	.001888	.008638	.020129	.000000	.000000	.001629	.081555	.025086	.005935	.007178	.012200	.000493	.003965	.038373	1.039599		022720 .	018110 .0 012621 .0	63085
	33. Electric Energy		00393 .00	0317 .0	000219 .0	000174	.000010	.000017	.000051	.000060	.000001	.000398	.000552		.001425	.000002	.000363	.000337	.000550	.003485	.006065	.000000	.000000	.000789	.022956	.006747	.001029										
Utilities	34. All Other Utilities	.000058 .0	00158 .00	0128 .0		000070	.000004	.000007	.000013	.000028	.000001	.000340	.000831	.000986	.000351	.000006	.000437	.001025	.000469	.004924	.003729	.000000	.000000	.001506	.024258	.018368	.015459	.002791	.011889	.000057	.005576	.052659	.017600		043650	008727 .00	0952
	35. Contract Construction	.000061 .0	00164 .00	0133 .0		000073	.000004	.000007	.000362	.000026	.000028	.002177	.027280	.001023	.010048	.000002	.000377	.003877	.002939	.003460	.050437	.000000	.000000	.078367	.027470	.064400	.005245	.002427	.017723	.000024	.001421	.022698					49409
	36. Rentals & Finance	.000039 .0		0085 .0	000061 .0	000047	.000003	.000005	,000020	.000037	.000001	.000109	.001165	.000657	.000558	.000001	.000400	.000347	.000148	.005696	.002277	.000000	.000000	.003230		.006954	.000651	.004434	.007707	.000016		.012303				366429 .04	
	he total dollar production directly and indirectly	- <u>-</u>																									.000071	1004404	1007707	.000010	.001201	.012303	.003327	.010141 .	013100	055724 1.03	33249   3

																	T	1								1											
								7	9	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 3	35	36	37 38	
	Industry	1	2	3	4	5	0		D	11 Other	Uranium	Copper	All Other	Food &	Lumber &	Furniture	Paper &	Chemicals		Printing &	Fabricated	Textiles	Leather & Stone,	Clay All Other	Wholesale		& All Oth		ral Lodgin	All Other	Trans-	Electric		ract Rent	tals & Fi	Final Total	
	Purchasing	Range	Feeder	Dairy	Forage,	Cotton	Vegetable	Citrus Crops		riculture	Olanium		Mining	Kindred	Wood	6.	Pulp		Metals	Publishing	Metals	å Annara1		Lass Manufactu	r- Trade	Stations Drinkin	-	Service		Services (Except Pro	portation	Energy	Utilities   Constr			Demand Gross	- L
Industry		Livestock	Livestock		Feed & Food Crops			ОТОРО						Products	Products	Fixtures						Apparer	Goods	ing		Traces				Tessional)				1011		Outpu	-
Producing			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		6,674 59,700	1
	1. Range Livestock		32,190		- 1=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		11,060   151,299	
Pa	2. Feeder Livestock	0	0	0	1,678	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		38,733 152,796	
8 6	3. Dairy	0	0	1,681	480	0	0	149	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 59,941	
ab	4. Forage, Feed & Food Crops	2,985	13,617	38,657	60	0	0	0	0	4,022	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 2	202,330 258,568	-
Agriculture-		0	0	0	0	776	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		84,895 96,678	
th th	5. Cotton	0	0	0	0	0	193	0	0	0	0	0	0		0	0	1	0	0	0	0	0	0	0 0	0	0	0	0 0		0 0	0	0	0	0		9,524 18,686	
1 po T	6. Vegetables 7. Citrus Crops	0	0	0	0	0	0	56	0	0	0	0	0	9,106	0 130		1 0	0	0	0	0	0	0	0 0	0	0	0	0			0	0			0		-
c p c		0	0	0	0	0	0	0	0	0	0	0	0	U	2,139			0	- 0	0	0		0			0 11	124			0	0	0	0	0	0	0 2,139	-
n 0 0	8. Forestry	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 11,	0	0	-	0	0	0	0	0	0 2	20,975 42,403	
g th	9. All Other Agriculture	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	906 2,687	
T T T	10. Uranium	U	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	7,447 866,814	
Mining-	11. Copper	0	U	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	,		0	0	0 0		0 0	0	0	0 115,	,841		74,996 573,571	4
Latra	12. All Other Mining	0	0	0	0	4 072		224	0	8,693	0	15,603	0	37,251	0	0	0	0	2,453	1,627	0	0	406	0 18,314	0	0 127,9	967	0 0	8,67	75 2,167	17,234	2,100	0	0		587,210 849,431	4
Pe I	13. Food & Kindred Products	1,075	7,868	5,653	0	4,913	0	224	0	0	11	2,600	2,285	0	2,026	648	19,607	7 0	1,227	0	0	0	0	0 3,052	0	0	0	0 0		0 0	0	1,050	0 24,	387	0 7	74,460 131,354	+
i t	14. Lumber & Wood Products	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	48	12 0	0	0	0	0		30,321 32,807	1
b o t	15. Furniture & Fixtures	0	0	0	0	0	0	0	0	0	-		0	10,761	225	1,444	6,274	4 0	0	30,505	0	0	3	0 9,15	0	0	0 6,98	1 0	96	34 0	2,872	0	0	0	0 7	10,758 80,030	0
tol		0	0	0	0	0	0	0	0	85		77.006	14 200		225		157		1,227	0	0	0	0	0 18,314	0	0	0	0 0		0 34.676	0	0	0 24.	387		31,694 178,164	-
ir he	16. Paper & Pulp	0	0	0	5,395	15,773	7,251	1,271	0	594	27	17,336	14,280	2,483	223		137	3,073	22,079	1	40,385	0		0 30,523		0	0	0		0	0		0	0	0 1 1	124.133 1.229.136	
t t	17. Chemicals	0	0	0	0	0	0	0	0	0	0	1,734	10,282	0	0	110	700	0 1 153		9 04 9	40,363	127	10	176 15 26		6,691 6.	795 115,18	0 177	10.63	20 20 17/	7 (50	( 222	0 0	20	412	106 855 (11 500	_
Manufacturing	18. Primary Metals	0	0	0	0	0	0	56	0	0	16	10,402	10,282	11,589	450	442	706	6 1,457		8,948	4,960	137	13	,170 13,20.	7,273	0,091 0,	0 27.92		12,53	,-,	7,659	4,200		,097 29,	413 10	36,833 411,500	_
Manufacculling	19. Printing & Publishing	0	-	0	0	0	0	0	0	0	54	13,002	11,424	0	788	0	0	0 0	6,133	2,440	51,013	0	0	0 18,31	0	200	0 27,92	0		0 8,669	17,234	5,250	1,286 463,	362	0 10	101,377 728,538	-
1118	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   3	30,334 30,759	1
9 %	21. Textiles & Apparel	0	0	0	0	1 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	1,614 1,751	-
T T T T T T T T T T T T T T T T T T T	22. Leather & Leather Goods	0	0	0	0	-	-	0	0	0	121	5,201	17,136	828	2,139	0	0	0 0	6,133	1,220	0	0	0 14	,527 19,840	0	0	0 6,98	0		0 0	0	0	0 621,	,881		44,134 873,140	)
ndu .	23. Stone, Clay & Glass	0	0	0	0	0	0	0		170	27	13,002	8,568	12,417	900	531	314	4 2,104	20,853	3,254	23,381	384	5	,314 236,55	254,391	0	0 17,45	13 0		0 41,178	60,318	16,800	12,220 67,	,066	0 80	08,917 1,608,56	)
e 1	24. All Other Manufacturing	. 0	0	0	120	2,844	387	93		594	11	9,535	9,711	37 251	2.364	973	C	0 971	3,680	7,321	20,547	247	0	,765 9,15	36,342	3,212 74,	742 38,39	213	14,45				10,290 262,	165 14,	,706 1,69	99,314 2,357,11	,
the the	25. Wholesale Trade	179	908	1,070	839	4,396	1,257	168	В		- 11			1 656		147		7 162	3,680	4,067	2,834	219	0	863 6,10	4,275	1,873 1,	132 3,49	2,345			4,787	1,050	10,933 18,	291	0   17.	175,791 302,174	4
by	26. Service Stations	716	303	1,070	779	2,586	870	131	45	297		6,935	3,427	1,656		59	1,098	8 809	2,453	2,034	3,543	137	0	863 3,05	6,413	1,338 11,	324 10,47	2 172	7,22	29 4,334	6,702		2,573 6,	.097 24,	,511 1,0/	041,724 1,147,558	3
4 a a		0	0	0	0	0	0	0	0	0	3	0	5,141	828	-	118		0 1,295		6,101	9,211	494		,765 7,63	72,683	1,873 11,	324 38,39			-	8,617	15,750	7,075 48,	775 29,	413 3.5	15.822 3.895.09	1
Trade	8	239	3,631	2,750	2,458	13,187	3,964	505	26	4,749	35	7,801	14,852	4,967	4,277	110		1,255	4,500		7,522		0	0	0		0	0	-	0 0	0	^	0		0	350 3,895,093 350 57,197	7
pricol.	28. All Other Retail	119	756	458	4,855	42,405	1,063	6,335	6	848	0	0	0	0	0	0		0 0	0	0	0	0	0	0 3.05	32,066	535	0 6.98	0		0 107	0 070	7 050	0	0	804 2/	396,127 481,933	
p. b. b.	29. Agricultural Services		1 0	0	0	0	0	0	0	0	3	6,068	7,997	1,656	338	59	392	2 324			2,834	82	(2)	,470 18,31		6 422 02			26.11	0 2,167	2,872		3,859				
Services -	30. Lodging			0	120	1,034	290	56	2	127	40	30,338	14,280	16,556	4,390	354	1,020	0 4,693	8,586	10,168		384					669 115,18					4,200			,826 1,52	526,874 2,275,362	
S S S S S S S S S S S S S S S S S S S	31. All Other Services (Except Professional)	0	0	1 222	-		3,190	37	41	424	81	52,009	51,409	33,112	6,753	1,238	6,274	4 4,855	39,252	12,609	15,587	329				14,185 16,			-		31,595	14,700				166,664 957,428	
sho limin	32. Transportation	776	3,026	4,889		3,620	-	486	0	848	228	21,670	45,697	12,417	3,939	884	2,353	3 3,399	38,025	8,948	19,130	521	31 1	,843 33,57	134,677	11,776 13,	589 87,26		2,41	10 28,174	11,489	173,253	4,502 12,	194 39,	,217 32	327,545 1,067,848	1
row	33. Electric Energy	418	303	1,834	719	4,137	1,837	400	1	212	54	26,004		6,622	2,251	737		2 2,104	23,306		13,462	329	26 1	,941 21,36	47,030	9,635 23,	781 80,28	1,430	18,79	95 36,843	33,510	38,851	10,933 24,	387 58,	,826 12	124,365 647,350	,
GGG Utilities-	34. All Other Utilities	179	151	306	120	1,551	193	19	-	212	34			ł.			(	0 486			2,834	384	19	,588 12,20	29,928	6,156 10,	192 48,86	68 0	15,42	22 19,505	4,787		8,361 1,603,		,889 4,18	185,393 6,213,687	/
Each		0	0	0	0	0	0	0	0	0	161	13,002	9,711	9,934		1 120	2,745			~		1.042	42 1	,804 18,31		14,988 35,					48,829						
шш 0	35. Contract Construction	7,642	3,934	3,667	1,858	13,446	2,900	2,410	66	1,230	94	8,668		33,112	6,303							05.510					626 3,036,41						26,369 121,		387	776,377 4,905,958	
te.	36. Rentals & Finance	45,372			The state of the s	147,900	73,283	6,372	1,947	18,740	1,622	558,229		279,075	89,146	22,049	37,051		89,603			25,549 _		,577   1,063,727 ,140   1,608,56	2 357 119	223,221 720, 302,174 1,147.	558 3.895.09	3 57 107		22 1,722,715			506,501 2,689,				-
No.	37. Final Payments		07,007	250,702	50.0/1	147,900 258,568	96,678	18,686	2,139	42,403	2,687	866,814	573,571	849,431	131,354	32,807	80,030	0 178,164	1,229,136	411,500	728,538	30,759	2,752   07	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,007,127	302,174 1,147,	1 -,0,0,0,0	37,197	401,93	3 2,473,362	957,428	1,007,848	647,350 6,213,	, 68/ 4, 903,	750		i
	38. Total Gross Outlays	59,700	151,299	152,796	59,941	230,300	70,070																										INTE	RINDUSTRY TR	ANSACTIONS	(IN THOUSANDS OF	/ DOI

	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
Industry Producing		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	Stone, Clay & Glass	All Other Manufactur-	Wholesale Trade	Service Stations	Eating & Drinking Places	All Other Retail	Agr <b>icultu</b> ra Services	l Lodging	All Other	Trans- portation	Electric Energy			Rentals Finance
7	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	fessional)	000	000	.000	-000	222
	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
	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
	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
	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
griculture ——	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
	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
	8. Forestry	.000	.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
	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	.010	.000	.000	.000	.000	.000	.000	.000	.000	.000
	10. Uranium	.000	.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
ining —	11. Copper	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.040	.005	.000	.000	.000	.000	.000	.670	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	12. All Other Mining	.000	.000	.000	.000	.000	.000	.000	.000	.000	.010	.015	.200	.000	.000	.000	.000	.180	.060	.000	.051	.000	.000	.121	.008	.000	.000	.000	,000	.000	.000	.000	.000	.000	.000	.019	.000
	13. Food & Kindred Products	.018	.052	.037	.000	.019	.000	.012	.000	.205	.000	.018	.000	.045	.000	.000	.000	.000	.002	.004	.000	.000	.250	.000	.012	.000	.000	.113	.000	.000	.018	.001	.018	.002	.000	.000	.000
	14. Lumber & Wood Products	.000	.000	.000	.000	.000	.000	.000	.000	.000	.004	.003	.004	.000	.018	.068		.000	.001	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.004	.000
	15. Furniture & Fixtures	.000	.000	.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	.001	.000	.000	.000	.000	.000	.000
	16. Paper & Pulp	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000		.013	.002			.000	.000	.075	.000	.000	.002	.000	.006	.000	.000	.000	.002	.000	.002	.000	.003	.000	.000	.000	.000
	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	.016	.000	.000	.000	.004	.000
lanufacturing ——	18. Primary Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.018	.000	.000	.000	.000	.000	.018	.000	.057	,000	.000	.000	.020	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	19. Printing & Publishing	.000	.000	.000	.000	.000	.000	.003	.000	.000	.006	.012	.018	.014	.004	.015	.009	.009	.009	.022	.007	.005	.008	.006	.010	.002	.025	.006	.033	.002	.026	.013	.008	.004	.004	.001	.006
	20. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.020	.015	.020	,000	.007	.000	.000	.000	.005	.006	.072	,000	.000	.000	.012	.000	.001	.000	.008	.000	.000	.004	.018	.005	.002	.076	.000
	21. Textiles & Apparel	.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
	22. Leather & Leather Goods	.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
	23. Stone, Clay & Glass	.000	.000	.000	.000	.000	.000	.000	.000	.000	.045	.006	,030	.001	.019	.018	.004	.000	.005	.003	.000	.000	.000	.171	.013	.000	.000	.000		.000	.000	.000	.000	.000	.000	.102	.000
	24. All Other Manufacturing	.000	.000	.000	.002	.011	.004	.005	.000	.004	.010	.015	.017	.045	.008	.033	.000	.013	.017	.008	.033	.014	.003	.005	.155	.119	.000	.000	.005	.000	.000	.019	.063	.016	.019	.011	.000
	25. Wholesale Trade	.003	.006	.007	.014	.017	.013	.009	.003	.014	.004	.011					-	.006		.018	.029	.009	.000	.009	.006	.017	.012	.066	.011	.009	.030	.028	.020	.004	.016	.043	.003
	26. Service Stations	.012	.002	.007	.013	,010	.009	.000	.021	,007	.002	.008	.006	.002		.005	.002	.001	.003	.010	.004	.008	.000	.001	.004	.002	.007	.001		.041	.017	.015	.005	.001	.017	.003	.000
Trade	27. Eating & Drinking Places	.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	.001	.005
<u>~</u>	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		.019	.016	.009	-015	.011	.008	.006
	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
Services ———	30. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.007	.014	.002	.003	.002	.005	.002	.001	.006	.004	.003	.000	.000	.002	.015		.000	.002	.000	.000	.001	.003	.001	.006	.000	.002
	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	.026	.033	.012	.033	.024	.073	.033	.019	.075	.045	.031	.004	.049	.009	.012
	32. Transportation	.013	.020	.032	.030	.014	.033	.002	.019	,010	.030	,060	.090	.040	.060	.042	.080	.030	.032	.031	.022	,012	.007	.071	.020	.075		.015	.034	.074	.005	.015	.033	.014	.013	.008	.001
	33. Electric Energy	.007	.002	.012	.012	.016	.019	.026	.000	.020	.085	.025	.080	.015	.035	.030	.030	.021	.031	.022	.027	.019	.019	.023	.022	.063	.044	.012	.025	.009	.005	.013	.012	.165	.007	.002	.008
Utilities ———	34. All Other Utilities	.003	.001	.002	.002	.006	.002	.001	.000	.005	.020	.030	.030	.008	.020	.025	.024	.013	.019	.019	.019	.012	.016	.015	.014	.022	.036	.021	.023	.025	.039	.017	.035	.037	.017	.004	.012
	35. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.060	.015	.017	.012	.016	.000	.000	.003	.012	.009	.004	.014	.012	.003	.008	.014	.023	.009	.014	.000	.032	.009	.005	.004	.013	.263	.042
	36. Rentals & Finance	.128	.026	.024	.031	.052	.030	.129	.031	.029	.035	.010	.195	.040	.056	.038	.035	.050	.027	.040	.031	.038	.026	.016	.012	.055	.056	.031	.039	.063	.042	0/1	051	.053	.041	.020	.030

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	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	15 Furniture & Fixtures	16 Paper &	17 Chemicals	18 Paper & Pulp		20 Fabricated Metals	21 Textiles & Apparel		23 Stone, Clay & Glass	24 All Other Manufactur-	25 Wholesale Trade	26 Service Stations	27 Eating & Drinking Places	28 All Other Retail	29 Agricultur Services		31 All Other Services (Except Pro	32 Trans- portation	33 Electric Energy		35 36 Contract Rentals & Finance
ruichasing	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	.008683	.006502	.000660	fessional) .005058	.019522	.013567	.007762	tion 009650 .140361
	2. Feeder Livestock 3. Dairy	.004966	.014272	1.018943	.259641	.004203	.000595	.000462	.000008	.000518	.000019	.000337	.006162	.041879	,000440	,000001	.001193	.024652	.000437	.003627	.002282	.000000	.000000	.001436	.009370	.014821	.009326	.001310	.034035	.015778	.000925	.007705	.038099	.013899	.008511 .	008257 .089227
	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	.047530	.081753	.001390	.013958	.049503	.026380	.012631	006070 .049163
Agriculture——	5. Cotton	.001294	.003687	.002995	.001187	.000092	1.002023	.000241	.000009	.000288	.000047	.000/31	.015411	.021855	.000339	.000002	.000694	.063/10	.000932	.005646	.003024	.000000	.000000	.002284	.023215	.024483	.018364	.002412	.058015	.164951	.001462	.018099	.038983	.032063	.019102 .	009351 .083525
	6. Vegetables 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	.036958	.340791	.001589	.021373	.040382	.031975	.009852 .	006172 .048631
	8. Forestry	.000033	.000095	.000077	.000031	.000038	.000008	.000006	1.000002	1.006709	.000001	.000082	.000286	'.000561 221606	.000089	.000000	.000255	.000128	.000115	.001563	.000944	.000000	,000000	.000517	.002712	.004537	.021572	.000579	.013153	.003012	.000327	.003857	.022354	.002897	.002852 .	003434 .036162
<b>}</b>	9. All Other Agriculture 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	.002847	.020364	.032619	.012645	.002273	.020808	.0033655	.001970	.020412	.040811	.042866		012894 .068749
Mining	11. Copper	.001345	.003831	.003112	.001233	.001526	.000319	.000251	.000079	.000297	.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	091830 .062943 1 029023 .036003 1
<b>}</b>	12. All Other Mining 13. Food & Kindred Products	.000403	.180635	.146720	.000386	.000457	.000095	.011813	.000089	.012935	.000019	.000850	.006046	1.070719	.004665	.000022	.003704	.034926	.026567	.032786	.037793	.000000	.000000	.054611	.048633	.060436	.012310	.016497	.045535	.000147	.020851	.059156	.140263	.142008	.062535	055599 .291385 1
	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	· · I	027258 .089296 1 031324 .078319 1
	15. Furniture & Fixtures	.000152	.000434	.000352	.000145	.000173	.000036	.000028	.005273	.000079	.000003	.000646	.003275	.002370	.039324	1.072966	.059378 1.089429	.001186	.000980	.020040	.003393	.000000	.000000	.002665	.037008	.041753	.007680	.004807	.010745	.000057	.004076	.024943	.061937	.050484	.037732 .(	008249 .060890 1
	16. Paper & Pulp 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	.019573	.000129	.006614	.047314	.061640	.058301	042847 .(	014547 .073620 16
Manufacturing ——	18. Primary Metals	.001171	.003337	.002710	.001078	.001329	.000277	.000218	.000091	.000296	,000312	.715384	.101330	.019778	.004804	.000010	.003104	.020182	.001078	.025442	.026720	.000000	.000000	.021600	.052848	.023930	.012980	.005742	.020919	.000416	.009298	.051625	.100743	.080878	058139	44335 .080722 7
randracturing —	19. Printing & Publishing 20. Fabricated Metals	.000406	.001156	.000553	.000380	.000480	.000057	.000076	.000024	.000130	.000240	.046233	.078022	.004035	.001240	.000008	.001818	.004622	.065662	.014224	1.084403	.000000	.000000	.007190	.020768	.025085	.012441	.007941	.020625	.000147	.007754	.037344	.048467	.038076	029759 .0	20156 .059918 1
	21. Textiles & Apparel	.000173	.000494	.000401	.000165	.000197	.000041	.000032	.000008	.000096	.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 .0	018206 .068238 20 024609 .048378 21
	22. Leather & Leather Goods	.015881	.045256	.036759	.014536	.018027	.003763	.002960	.000039	.003249	.000575	.000438	.187015	.003587	.002073	.000002	.007382	.004872	.000607	.014462	.003655	.000000	.0000127	1,215915	.016786	.018347	.003610	.001672	.009676	.005612	.001568	.039361	.028459	.035361		26919 .056161 22
	23. Stone, Clay & Glass 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	.010933	.000361	.003799	.057703	.037360	.059800	035298 .0	18093 .076119 2:
	25. Wholesale Trade	.000301	.000858	.000697	.000282	.000342	.000071	.000056	.000021	.000118	.0000015	.002618	.004779	.005087	.001124	.000018	.002205	.003083	.003716	.008481	.007595	.000000		.006533	.011563	.019231	.005249	.005693	.041190	.000108	.016783	.048380	.089873	.088074	036455 .0	30285 .079172 25
Trade	26. Service Stations 27. Eating & Drinking Places	.007442	.021208	.017210	.007915	.008436	.001761	.001385	.000018	.011671	.000007	.000484	.002426	.125528	.000947	.000002	.003033	.003900	.000675	.011506	.003692	.000000	.000000	.003430	.020378		.004554		.012041			.034639	.002202	.059651 ,	045224 .0	39151 .073450 26
a a	28. All Other Retail	.000114	.000326	.000264	.000110	.000130	.000027	,000021	1	.000069	.000009	.000781	.002831	.001929	.001576	.000003	ALL ALL SECTION IN	.001115	.001098	.036479	.012628		.000000		.015309		.003150	.004549	1.015393		.003175	.042427	.042418	.036660	030451 .0	25365 .053382 29
	29. Agricultural Services	.000143	.000409	.000332	.000136	.000163	.000034	.000027	.000006	.000076	.000003	.000283	.003365	.022088	.001636	.001075	.000865	.000691	.000399	.005652	.002940	.000000	.000000	.001283	.010375	.014311	.042956	.004695	.013663		1.001635	.028462	.082764	.018064	033331 .0	08301 .078019 29
Services —	30. Lodging 31. All Other Services (Except Professional)	.000156	.000445	.000362	.000147	.000177	,000037	.000029	.000012	.000067	.000018	.000884	.005910	I	.000646	.000003	.001757	.017900	.001223	.016846	.007691	.000000	.000000	.003266	.032709	.033960	.017120	.003467	.020756	.000056	.002338	1.054990	.024801	.024612 .	024403 1 .0	52301 .061438 30 19472 .056464 31
	32. Transportation	.001336	.003808	.003093		.001517	.000317	.000249	.000031	.000361	.000013	.002252	.004076	.022571	.001651	.000005	.005342	.002313	.003197	.012361	.023440	.000000	.000000	.003604	.086277	.027960	.007688	.008871		.000475	.004565		1.044671	.024751 .	044041 .0	15622 .068595 32
Utilities———	33. Electric Energy 34. All Other Utilities	.000100	.000286	.000232	.000097	.000114	.000024	.000019	.000008	.000073	.000007	.000692	.002203	.001692	.000423	.000007		.001509	.000976	.007255	.005564	.000000	.000000	.003617	.029996	.021626	.019022	.005235		000022					049152 .0.	13313 .073309 33 24235 .053110 34
<u></u>	35. Contract Construction	.000131	.000373	.000303	.000124	.000148	,000031	,000024 ,000011	.000119	.000069	.000212	.006506	.068943	.002209	.006283	.000003	.001138	.008554	.008807	.007795	.115648	.000000	.000000	.171745	.040143	.069963	.006879	.004240	.021275	1000040	.003201	.033003	.020256	.028998 .	020419 1.30	.053110 34 67708 .062347 35
Nata Pack outros chorse	36. Rentals & Finance s the total dollar production directly and indirectly	.000057	.000164	.000133	.000059	.000065	1 ,000014	.000011	.000003	.00003	.000010	.000331	1003174	1000770	.00043	]	.000004	.000000	1000431	.007433	.005405	.000000	.000000	.007679	.003670	.007753	.000954	.005694	.008241	.000022	1004412	.016626	.004754	.012610 .	015038 .06	00485 1.037027 36
ote. Back entry show	he industry at the top of the table per dollar of del	_																																		

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 GILA SUB-BASIN 2010
Table G-2010-c

	Industry		2		,			_						10			16			10 1	20	21		1										
	Purchasing	Dance	E-odo-	3	1 4	7	0	, ,	8	9	10	11	12	13	14	15	16	1/	18	19	20	- 21	22	23	24	25	26	27	28	29	30	31	32	33
Industry Producing		Range Livestock	Feeder Livestock	Dairy	Food & Field Crops	Truck Crops	Fruit		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 Manufactur- ing		Service Stations	All Other Retail	Drinking	Agricul- tural Services	Lodging	All Other Services (Except Pro- fessional)	Transpor- tation	Electric Energy	Other Utilities		Rentals & Finance	Final Demand	Total Gross Output
	1. Range Livestock	2,918	15,269	52	0	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	0	8,733	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	18,149	26,882
	3. Dairy	90	54	0	0	0	0	0	48	0	0	0	0	0	1,705	0	0	0	0	0	0	0	0	0	0	1 0	0	0	<del>                                     </del>	0	0	0	680	2,577 3.
	4. Food & Field Crops	0	296	0	0	0	0	0	0	0	0	0	0	0	2,192	0	0	0	0	0	0	0	0	0	0	0		0	<del>                                     </del>	0	0	0	4,396	6,884 4.
Agriculture-	5. Truck Crops	0	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	1	0	0	0	1,140	1 210 5.
_	6. Fruit	90	0	44	0	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		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	1	0		<del>                                     </del>		0		1,291	-
	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	1 0	0	-	1 0	0	0		1,400	3,658 /· 2,409 8.
	9. Coal	0	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. 0il & Gas	0	0	0	0	0	0	0	0	0	1.5	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.
Mining	11. Uranium	0	0	0	0	0	0	0	0	0	0	16,271	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	0	0	0	0	0	0	72,640	88,911 11.
	12. Zinc	0	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	1	1	0	0	0	16,317	16,333 12.
	13. All Other Mining	0	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		2,444		4,613	8,883 13.
	14. Food & Kindred Products	0	4,355	111	0	0	0	0	241	0	0	0	0	0	209	0	0	0	0	0	0	0	0	3,561	27	524	141	<del></del>	0	0	2,444	-	25,625	34,794 14.
	15. Lumber & Wood Products	30	0	0	0	0	9	0	0	0	0	178	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		144	0	5,868	
w 5	16. Printing & Publishing	0	0	0	0	0	9	0	0	8	1	0	0	62	70	0	125	3	11	73	0	9	5,354	263	34	35	328	64	15	210	0	351	341	6,229 15. 7,366 16.
Manufacturing	17. Fabricated Metals	0	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	210	288	331	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	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,
	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		55	0	0	1,219	15	30	431	88	5,706	9 722 21
Trade	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	90	288	263		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	87,015 28,530	29,191 23.
	24. Agricultural Services	722	430	271	503	520	4,291	0	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	177	00	28	-
Services	25. Lodging	0	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	1 0	1 0	30	0	0		6,829 24.
	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	17,471 25. 46,897 26.
	27. Transportation	361	699	144	110	1	9	0	51	0	23	8,358	0	0	70	710	37	28	68	274	4,186		4,719		20	87	281	2,310	61	30	2,157			,
	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	. ,	614	38,668 5,341	64,180 27. 15,205 28.
Utilities	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		256	52	726	642	0	367	281	257	46	1,200	42,994	263		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		2,136	297	6,806	701	116	646	1,266	1,027	304	480	2,876	2,192		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		34,735	7,439	66,831	20,346	5,970	13,174		48,649	11,132	26,277		81,539	03,743	37,076
	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			34,794	6,229	7,366	2,570	2,832		42,724	8,722	90,788	29,191	6,829	17,471	38,646 46,897	64.180	15,205	29,997		87,678		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)

UPPER MAIN-STEM SUB-BASIN 1980

Table UMS-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	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 and Kindred Products	Lumber and Wood Products	Printing & Publishing		Stone, Clay & Glass Products	All Other Manufactur- ing	Wholesale Trade	Service Stations	All Other Retail	Eating and Drinking Places	Agricultural Services	Lodging	All Other Services (Except Pro- fessional)	Transpor- tation	Electric Energy	Other Utilities		Rentals and Finance
	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	.000
	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	.000
	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
Control of the contro	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
Agriculture—	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
	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
	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
	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
	9. Coal	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.001	.002	.000	.000	.000	.000	.000	.000	001	001	000	103	.005	.000	,000
	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
Mining	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
	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
	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	.017	.000
	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
	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	.001	.000
	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	.004
Manufacturing-	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	.001	.000	.002	.000
	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	.016	.000
	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	1000
	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
Ħ	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	201
Trade	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	.001
~	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	.001	.001	.001	.001	.001	.001
	24. Agricultural Services	.024	.016	.105	.073	.430	.454	.000	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000
Services-	25. Lodging	.000	.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	.000	.000
	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	030	,020	.008	.012
	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	.004	.001	.015	.001
761714	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
Utilities-	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
	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
	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	.003

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 CUTPUT UPPER MAIN STEM SUB-BASIN 1980 Table UMS - 1980 - b

Industry Purchasing	Industry Producing	l Range Livestock	2 Feeder Livestock	3 Dairy	4 Food and Field Crops	5 Truck Crops	6 Fruit	7 Forestry	8 All Other Agriculture	9 Coal	10 Oil and Gas	11 Uranium	12 Zinc	13 All Other Mining	14 Food and Kindred Products	15 Lumber and Wood Products	16 Printing & Publishing	17 Fabricated Metals	18 Stone, Clay and Glass Products	19 All Other Manufactur- ing	20 Wholesale Trade	21 Service Stations		23 Eating & Drinking Places	24 Agricul- tural Services	25 Lodging	26 All Other Services	27 Transpor- tation	28 Electric Energy	29 Other Utilities	30 Contract Construc- tion	31 Rentals & Finance
	1. Range Livestock	1.107919	.000116	.003347	.000030	.000001	.003402	.000423	.000013	.000824	.000000	000000	000000	.000033	00070	.001113	.002014	.000033	.000037	.022247	.012045	.011838	.024067	.001316	.028519	.000061	.006233	-017773	.007730	.004152	.001390	.050164
	2. Feeder Livestock	.682156	1.043014	.012629	.022269	.000343	.010316	.000264	.004970	.001022	.000000	000000	.000000	.000033	.171369	.000694	.002145	.000033	.000047	.023107	010910	.010868	.018264	.001097	.041003	.000234	.009286	.041546	.009594	.004579	.001760	.052325
	3. Dairy	.037446	.011556	1.002418	.003028	.000092	.019317	.000022	.001335	.002283	.000000	.000000	.000000	.000042	.046042	.000059	.002847	.000061	.000073	.034849	.014268	013154	.027536	.001385	.115516	.000135	.006902	.063861	.021821	.005124	.001985	.036689
Agriculture-	4. Food and Field Crops	.00853	.006102	.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
	5. Truck Crops	.004869	.000471	.000109	.000123	1.000004	.000105	.000003	.000054	.001908	.000000	.000000	.000000	.000043	.001877	-000003	.004618	.000032	.000049	.045631	013020	.023133	.033388	.000269	.430626	000113	006913	006894	.018185	.005108	.001626	.027314
	6. Fruit	.005139	.000496	.000114	.000130	.000004	1.000110	.000382	.000057	.001944	.000000	.000000	.000000	.000036	.001977	.001007	.004950	.000050	.000056	.028076	.013920	.00074	.021387	.000198	454661	.000112	.009718	.006084	.018520	.004925	.001287	.018382
	7. Forestry	.000008	.000007	.000001	.000002	.000000	.600001	1.000000	-000001	.000130	000000	000000	2000000			.000001	.000672	.000030	.000038	.021486	.012098	012106	.007261	000135	000001	.000073	.003718	.002056	.001188	.000874	.000672	.025505
	8. All Other Agriculture	.179739	.026765	.025880	.007012	.000213	.005991	,000071	1.003092	.001386	000000	.000000	.000000	.000015	.000027	.000187	.001395	.000024			.007223	.012106	.010435	000123	.034892	.000051	010262	.029452	.001166	.007783	.001535	.027440
	9. Coal	.000007	.000005	.000001	.000001	.000000	.000001	.000000	.000001	1.004547	.000000	.000000	.000000	.000039	.106632	.000001	.001409	.000104	.000050	.015260	.010055	.014873	.000267	000107	000001	000133	.010362	.029452	.012962	.011149	.001025	.021128
	10. 0il and Gas	.000109	.000089	.000018	.000023	.000001	.000017	.000010	.000010	.001618	1.015228	000000	000000	.004710		.000001	.002657	.000104		.011557	.000315	.000213	.012163	001322	.000001	-001077	.002131	.027972	.014944	.005482	.025105	.089510 1
Mining-	11. Uranium	.000017	.000014	.000003	.000004	.000000	.000003	.000931	.000002	.000892	.000000	1.223990	.000000	.000539	.000355		.002637		.000431	.019277	.015683	.00867	.001873	.000221	000010	.000051	.007511	.121106	.008272	.004943	.003154	.004954 1
	12. Zinc	.000008	.000006	.000001	.000002	.000000	.000001	-000001	.000001	,004150	.000000	000000	1.001001	.001066	.000054	.002451	.000200	.006338	.000067	.019405	.006719	.003627	.000223	000021	000002	000031	.00/311	.001232	.039804	.004943	.002088	.002741 1
	13. All Other Mining	.000010	.000008	.000002	.000002	.000000	.000002	.000,000	.000001	.002589	.000000	000000					.007622		.000108	.009660	.006231	.000113	.004303	000001	000001	000031		.001232	.024402	.011137	.002000	.010584 1
	14. Food and Kindred Products	.324611	.264823	.053814	.069383	.002110	.051477	.000144	.030597	.001977	.0000000	-000000	.000000	1.001037	.000032 1.055071	.000001	.007622	.012059	.000065	.007447	.015306	.001142	012831	.001664	047803	.001141	.005391	.022047	.018571	.009609	.003273	.030022 1
	15. Lumber and Wood Froducts	.000025	.000020	.000004	.000005	.000000	.000004	.380001	.000002	.002790	.000000	000000	.000000	.000078	.000080	1.000002	.000897	.000063	.000084	.031196	.006416	.011968	.005457	.000319	.000004	.000078	.011658	.120480	.026508	.008962	.002092	.031226
	16. Printing and Publishing	.000051	.000042	.000009	.000011	.000000	.000008	.000002	.000005	.001579	.000000	000000	.000000	.000097	.000167	.000004	1.017908	.000029	.000096	.005168	.002423	001212	.005361	001108	000004	.000078	.007505	.006171	.014447	.016247	.004242	.016310
Manufacturing-	17. Fabricated Metals	.000022	.000018	.000004	.000005	.000000	.000004	.000001	.000002	.001900	.000000	.000000	.000000	.000037	.000167	.000004	.001599	1,001077	.000055	.065101	.002423	.001212	.002399	.001108	.000003	.000138	.011515	.012936	.008301	.006127	.001295	.004404
	18. Stone, Clay and Class Products	.000023	.000018	.000004	.000005	.000000	.000004	.000001	.000002	.004770	.00000	000000	.000000	.259326	.000073	.000001	.006645	.003203	1.000119	.057667	.007690	.001342	.002620	.000299	-000003	.000139	.009740	.027336	.025974	.015363	.002081	.021112 1
	19. All Other Manufacturing	.000149	.000121	.000025	.000032	.000001	.000024	.000004	.000014	.001525	.000000	000000	.000000		.000483	.000011	.004548	.001049	.000204	1.008398	.007690	.001423	.003377	.003113	000003	.002032	.005724	.016685	.014356	.007120	.011018	.021112 1
	20. Wholesale Trade	.000077	.000063	.000013	.000016	.000000	-000012	.000004	.000007	.000824	.000000	000000		.000240			.004348				1.003670		.002769	001253	000011	001042	017/20	.102921	.014336	.009929	1	
	21. Service Stations	.000066	.000054	.000011	.000014	.000000	.000011	.000004	.000006	.003597	.000000	000000	.000000	.000224	.000249	.000011	.001759	.000044	.000182	.013134	.002060	1.000985	.003591	.001190	.000011	.000031	.017420	.044629	.033966	.014906	.010422	1
Trade	22. All Other Retail	.000083	.000067	.000014	.000018	.000001	.000013	.000005	.000008	.002204	.000000	.000000	.000000	.000309	.000210	.000014	.061172	.000062	.000230	.010358	.002060	.002315	1.005157	.001328	.000012	000047	030370	.055889	020023	.021634		.037970 2
	23. Eating and Drinking Places	.039625	.032326	.006569	.008469	.000258		.000031	.003735	.002656	.000000	-000000	.000000	.000743	.128791	.000080	.011031	.000110	.000600	.010338	.049604	.002313	,017228	1,000434	.005835	.000223	01/010	.018705	.024182	.029495	.014100	.081598 2
	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	.024102	.006539	.034504	.034509 2
Services	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 2
	26. All Other Services	.001061	.000866	.000176	.000227	.000007	.000168	.000017	.000100	.005516	.000000	000000	.000000	.000731	.003449	.000013	.008339	.000071	.000284	.003079	.016143	.000397	.007788	.001215	000156	000060	1.039834			.033986	.011539	
	27. Transportation	.000100	.000082	.000017	.000021	.000001	.000016	.000003	.000009	.000621	.000000	000000	.000000	.000270		.000008	.002234	.000143	.000144	.118809	.012622	.020001	.004007	.001213	000015	.000257	.038410	.009145	.041751	.005934	.008306	.032442 2 .022369 2
	28. Flectric Energy	.000061	.000050	.000010	.000013	.000000	.000010	.000003	.000006	.115786	.000000	.000000	.000000		.000325	.000006	.001779	.001152	.002180	.009030	.001600	.001318	.002565	.001318	000000	,000237	.012815	.005463	.005359	.013468	.006015	.022369 2
Utilities —	29. Other Utilities	.000078	.000064	.000013	.000017	.000001	,000012	.000002	.000007	.005749	.000000	.000000	.000000	.000668	.000199	.000059	.007756	.001132	.002180	.010472	.004840	.001318	.003535	.001221	000013	001073				1.013766	.058455	
	30. Contract Construction	.000077	.000063	.000013	.000016	-000001	.000012	.000543	.000007	.000529	.000000	000000		.001264	.000254		.000926	· · · · - · · · · · · · · · · · · · · ·			.006954	.005013	.003443	.0011/3	.000012	.001042	.022283		.006303	.006177		
	31. Rentals and Finance	.000056	.000046	.000009	.000012	.000001	.000012	.000343	.000005	000027	000000	.000000	.000000	.030220	.000250	.001428		.003246	.022853	.020402			.003443		.000011		.013967	.024587	.004222		1.427701	.032131 3
ote: Each entry sho	ws the total dollar production directly and indirectly			1	1 .000022	.000000	.000009	.000002	1 .00000. [	.000904	.000000	.000000	.000000	.000117	.000183	.000005	.004588	.000023	.000103	.002544	.001408	.001112	*003311	.001086	.000008	.000018	.013389	.001/30	.008871	.011141		1.027044 3

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 Purchasing	1 Range	2 Feeder	3 Dairy	4 Food &	5 Truck	6 Fruit	7 Forestry	8 All Other	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
Industry Producing		Livestock	Livestock		Kindred Products	Crops		Totestry	Agriculture	Coal	011 & Gas	Uranium	Zinc	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Printing & Publishing		Stone, Clay, & Glass	All Other Manufactur- ing		Service Stations	All Other Retail	Eating & Drinking Places	Agricul- tural Services		All Other Services (Except Pro fessional)		Electric Energy	Other Utilities	Contract Construction	Rentals t & Finance	Final Demand	Total Gross Output
	1. Range Livestock	4,216	25,505	70	0	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	0	13,279	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	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	655	3,324
	4. Food & Field Crops	0	497	0	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	4,758	8,061
Agriculture	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	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		2,118	8,011
	8. All Other Agriculture	0	0	3	8	2	0	0	2	0	0	0	0	0	802	0	0	0	0	1,707	0	0	0	0	0	0	0	0	n	0	0	0	1,180	1 997
	9. Coal	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	137	0	3,352	505	0	0	5,891	9,954
	10. Oil & Gas	0	0	0	0	0	0	0	0	0	16	0	0	0	0	١ 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,000	1,016
Mining-	11. Uranium	0	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	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	1,115	45	11	n	0	0	0	1,066	0	0	0	0	0	0	0	0	0	0	0	3,531		5,233	11,001
	14. Food & Kindred Products	0	7,313	146	0	0	0	0	202	0	0	0	0	0	351	0	0	0	0	0	0	0	0	9,317	43	1.513	411	0	0	- 0	3,331	- 0	30,815	50,110
	15. Lumber & Wood Products	44	0	0	0	0	16	0	0	0	0	172	0	0	0	0	0	0	0	596	0	0	0	0	1	0	0	0	n		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
Manufacturing—	17. Fabricated Metals	0	0	0	0	0	0	0	0	0	0	515	404	132	0	0	0	8	0	43	0	0	0	0	0	0	0	0	31		415	042	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	n'	0	n	0	3,531	0	406	4,116
<u> </u>	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
l el	21. Service Stations	444	45	37	177	6	78	96	22	0	6	86	22	11	351	65	17	4	25	43	95	0	204	66	87	0	0	1,628	63	56	623	210	12,857	17,423
Trade	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		196,062	203,686
E E	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
	24. Agricultural Services	1,154	767	352	596	810	6,997	0	12	0	0	0	0	0	0	0	0	0	0	1 0	0	0	0	0	11	0	0	0	0	0	0	0	116	10,816
Services -	25. Lodging	0	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
	27. Transportation	533	1,174	189	137	2	16	0	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
n	28. Electric Energy	266	45	50	32	9	78	1 0	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	
Utilities ——	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	31,331 56,173
	30. Contract Construction	0	0	0	0	0	1 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		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	100,550	210,430
	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.

INTERINDUSTRY TRANSACTIONS (IN THOUSANDS OF DOLLARS)

UPPER MAIN-STEM SUB BASIN 2010

Table UMS-2010-a

Industry <b>Pro</b> ducing	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 <sup>l</sup> Metals	18 Stone, Clay & Glass	19 All Other Manufactur- ing	20 Wholesale Trade	21 Service Stations	22 All Other Retail	23 Eating & Drinking Places	24 Agricultur- al Services	25 Lodging	26 All Other Services	27 Transpor- tation	28 Electric Energy	29 Other Utilities	30 Contract Construc- tion	31 Rentals & Finance
	1. Range Livestock	.095	.565	.021	.000	.000	.000	.000	.132	.000	.000	.000	.000	.000	.126	.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	.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	.000	.048	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
griculture——	4. Food & Field Crops	.000	.011	.000	.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	.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	.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	.000	.380	.000	.000	.000	.042	.000	.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	.000	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
	9. Coal	.000	.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. 0i1 & Gas	.000	.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
dining-	11. Uranium	.000	.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	.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	.000	.013	.002	.001	.000	.000	.000	.000	.259	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.017	.000
	14. Food & Kindred Products	.000	.162	.044	.000	.000	.000	.000	.101	.000	.000	.000	.000	.000	.007	.000	.000	.000	.000	.000	.000	.000	.000	.142	.004	.031	.003	.000	.000	.000	.000	.000
	15. Lumber & Wood Products	.001	.000	.000	.000	.000	.001	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.014	.000	,000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000
Manufacturing	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	.001	.004
	17. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.006	.018	.012	.000	.000	.000	.002	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.002	.000
	18. Stone, Clay & Glass	.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	.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	.002
- 10	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	.004	.001
ail	_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	.001
rade	22. All Other Retail	.021	.003	.026	.017	.032	.020	.008	.006	.000	.011	.002	.000	.005	.002	.002	.005	.002	.001	.003	.002	.003	.004	.015	.004	.015	.007	.003	.002	.003	.002	.003
	23. Eating & Drinking Places	.001	.000	.001	.000	.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	.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	.000	.001	.000	.000	.000	.000	.000	.000	.000
Services	25. Lodging	.000	.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	.001	.001	.001	.001
	26. All Other Services	.003	.002	.001	.011	.001	.004	.002	.007	.002	.042	.002	.003	.005	.007	.005	.006	.012	.006	.007	.013	.016	.025	.009	.008	.044	.037	.035	.012	.022	.008	.013
	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	.006	.037	.005	.002	.016	.001
Itilities-	28. Electric Energy	.006	.001	.015	.004	.005	.005	.000	.008	.030	.012	.006	.036	.022	.012	.023	.013	.012	.018	.014	.006	.031	.015	.019	.024	.034	.042	.001	.111	.005	.001	.007
	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	.003	.010
	30. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.017	.001	.001	.000	.001	.000	.001	.007	.000	.005	.006	.007	.008	.026	.000	.022	.007	.005	.005	.046	.308	.003
	31. Rentals & Finance	.042	.019	.028	.008	.015	.008	.025	.015	.021	.082	.002	.002	.010	.006	.018	.016	.000	.016	.036	.051	.036	.076	.026	.019	.044	.029	.020	.024	.020	.026	.027

e: 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	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 Purchasing		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 Manufactur- ing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places	Agricul- tural Services	Lodging	All Other Services	Transpor- tation	Electric Energy	Other Utilities	Contract Construction	1
	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		.117088	.000213	.007589	.066527	.023834	.005911	.002320	.041163
Agriculture-	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		.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		.017527	.000248	.011955	.032302	.015089	.008568	.001995	.030789
	9. Coal	.000009	.000008	.000002	.000002	.000000	.000002	.000611	.000000	1.005885	.000000	.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	.0000000	.000000	.000594	.000544	.000338	.002829	.000102	.000500	.022199	.017079	.006998	.012251		.000025	.001225	.048201	.030111	.017989	.006348	.027276	.092208
Minin	11. Uranium	.000076	.000065	.000012	.000014	.000001	.000013	.001952	.000004	.001145	.000000	1.225490	.000000	.016031	.000245	.002756		.007599	.000083	.021530	.006942	.003842	.003200		,000011	.000077	.008048	.123490	.010138	.005523	.003647	.007684
Mining-	12. Zinc	.000009	.000008	.000002	.000002	.000000	.000002	.000572	.000000	.004507	.000000	.0000000	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	011526	001521	012261
	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		.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	.002032	.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	.0000000	.000000	.000078	.000201	.000339	1.020131	.000048	.000089	.024012	.002577	.001297	.005461	.001149	.000009	000107	.007900	.007293	.016195	.016883	.003251	019612
Manufacturing-		.000024	.000021	.000004	.000005	.000000	.000004	.003112	.000001	.001774	.000000	.0000000	.000000	.000258	.000079	.000931	+	1.002112	.000230	.065677	.001688	.001277	.002468	.000198	.000009	.000107	.013837	.007293	.015553	.010292	.011666	.004342
	18. Stone, Clay & Glass	.000024	.000021	.000004	.000005	.000000	.000004	.002830	.000001	.003287	.000000	.0000000	.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	.000004	.002129	.011065	.049330	.017874	.020333	.002404	.042451
	20. Wholesale Trade	.000089	.000076	.000014	.000017	.000001	.000015	.000907	.000005	.001072	.000000	,000000	.000000	-000240	.000287	-000278	-000877	.000053	-000206	.019080	1.003872	.003303	.002837	.001263	.000020	001132	.019002	.106938		.010506		
1	21. Service Stations	.000076	.000065	.000012	.000015	.000001	.000013	.000347	.000004	.004097	.000000	.000000	.000000	.000282	.000247	.000114		.000072	.000283	.007224	.003223	1.001097	.003625		.000013	.000124	.019002	.045151	.036740	.015336		.041014
Trade #	22. All Other Retail	.000094	.000080	.000015	.000018	.000001	.000016	.000745	.000005	.002454	.000000	.000000	.000000	.000325	.000304		.064490	.000070	.000293	.015628	.005733	.002352	1.005206		.000014	.000179	.030698	.052587	.020728	.022281	.014643	
~	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		.007004	.000365	.014992	.020558	.026785	.030257	.041311	
	24. Agricultural Services	.012393	.001140	.000247	.000253	.000013	.000277	.001623	.000069	.003197	.000000	.000000	.000000	.000046	.004302	.000493	.005822	.000067	.000082	.034191	.010782	.003724			1.001518	.000146	.010236	.007013	.029120	007197	.001456	.039363
Services-	25. Lodging	.010202	.008758	.001645	.001947	.000099	.001702	.000317	.000533	.006148	.000000	.000000	.000000	.000822	.033050	.000137	.004425	.000133	.000740	.006307	.010202	.000971	.016469		.001541	1.002249	.049974		.042892	.054880	-	
	26. All Other Services	.001080	.000927	.000174	.000206	.000010	.000180	.000345	.000056	.006863	.000000	.000000	.000000	.000340	.003497	.000137		.000091	.000740	.006307	.020510	.000971	.007906		.0001341	.000183	1.041692	.009423	.050664		.037029	
	27. Transportation	.000109	.000093	.000018	.000021	.000001	.000018	.005784	,000006	.000796	.000000	.000000	.000000	.000218	.000353	.001720	.002289	.000151					.004137		.000163	.000163	.040407	1.047238	.006366	.042960	.014389	
	28. Electric Energy	.000086	.000074	.000014	.000016	.000001	.000014	.000628	.000004	.121376	.000000	.000000	.000000	.000218	.000333	.0001720		.001175	.000184	.122141	:012987	.021254	.002688		.000013					.008003	.010010	.029931
Utilities-	29. Other Utilities	.000091	.000078	.000015	.000017	.000001	.000015	.000660	.000005	.010069	.000000	.000000	.000000	.001511	.000276	.000193		-	.002352	.013197	.002947	.002539				.001221	.015858	.007471	1.130626	.015503	.009835	.032857
	30. Contract Construction	.000105	.000090	.000017	.000020	.000001	.000017	.001632	.000005	.000604	.000000	.000000	.000000	.030995	.000339	.000236	.010033	.000177	.001343	.013408	.005105	.001420	.003641		.000014	.001153	.024873	.005002	.008167	1.016519		
	31. Rentals & Finance	.000076	.000065	.000017	.000014	.000001	.000017	.000135	.000003	.001106	.000000	.000000	.000000	.000126	.000339	.000045		.000025	.024603	.022865	.007247	.005200	.003617		.000016	.001558	.014725	.027320	.004893	.006992	.005619	

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND

UPPER MAIN- STEM SUB-BASIN 2010 Table UMS-2010-c

15. All Other Manuf 16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy				Crops	Fruit	prestry	All Other Agriculture	Coal	0il & Gas	Uranium	All Other Mining	Food & Kindred Products	Lumber & Wood Products	Publishing	14 Stone, Clay & Glass Products	All Other Manufactur- ing	Wholesale Trade	Service Stations	All Other Retail	Eating & Drinking Places		Oil Field Services		All Other Services (Except Pro- fessional)	Transpor- tation		Other Utilities		Rentals & Finance	29 Final Demand	30 Total Gross Output
3. Field Crops 4. Fruit 5. Forestry 6. All Other Agric 7. Coal 8. Oil & Gas 9. Uranium 10. All Other Minin 11. Food & Kindred 12. Lumber & Wood P 13. Printing & Publ 14. Stone, Clay & G 15. All Other Manuf 16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy		858	304	0	0	0	66	0	0	0	0	443	0	0	0	0	0	0	0	0.	0	0	0	0	0	0	0	0	0	16,196	17,866
4. Fruit 5. Forestry 6. All Other Agric 7. Coal 8. Oil & Gas 9. Uranium 10. All Other Minin 11. Food & Kindred 12. Lumber & Wood P 13. Printing & Publ 14. Stone, Clay & G 15. All Other Manuf 16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy		0	19	0	0	0	33	0	0	0	0	2,749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	910	3,710
5. Forestry 6. All Other Agric 7. Coal 8. Oil & Gas 9. Uranium 10. All Other Minin 11. Food & Kindred 12. Lumber & Wood P 13. Printing & Publ 14. Stone, Clay & G 15. All Other Manuf 16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy		0	0 '	0	0	0	23	0	0	0	0	519	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,935	4,477
6. All Other Agric  7. Coal  8. Oil & Gas  9. Uranium  10. All Other Minin  11. Food & Kindred  12. Lumber & Wood P  13. Printing & Publ  14. Stone, Clay & G  15. All Other Manuf  16. Wholesale Trade  17. Service Station  18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy		0	15	0	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	706	812
7. Coal  8. Oil & Gas  9. Uranium  10. All Other Minin  11. Food & Kindred  12. Lumber & Wood P  13. Printing & Publ  14. Stone, Clay & G  15. All Other Manuf  16. Wholesale Trade  17. Service Station  18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy		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
8. Oil & Gas  9. Uranium  10. All Other Minin  11. Food & Kindred  12. Lumber & Wood P  13. Printing & Publ  14. Stone, Clay & G  15. All Other Manuf  16. Wholesale Trade  17. Service Station  18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy	ther Agriculture	0	0 '	4	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	740	1,096
9. Uranium 10. All Other Minin 11. Food & Kindred 12. Lumber & Wood P 13. Printing & Publ 14. Stone, Clay & G 15. All Other Manuf 16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy		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	0	93	578
10. All Other Minin  11. Food & Kindred  12. Lumber & Wood P  13. Printing & Publ  14. Stone, Clay & G  15. All Other Manuf  16. Wholesale Trade  17. Service Station  18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy		0	0	0	0	0	0	0	2,259	0	0	0	0	0	0	2,701	0	0	0	0	0	101	0	0	66	660	7,203	102	1 0	148,261	161,353
11. Food & Kindred  12. Lumber & Wood P  13. Printing & Publ  14. Stone, Clay & G  15. All Other Manuf  16. Wholesale Trade  17. Service Station  18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy		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
12. Lumber & Wood P  13. Printing & Publ  14. Stone, Clay & G  15. All Other Manuf  16. Wholesale Trade  17. Service Station  18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy		0	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	1,224	0	7,128	10,714
13. Printing & Publ 14. Stone, Clay & G 15. All Other Manuf 16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy	& Kindred Products	71	0	0	0	0	31	0	0	0	0	214	0	0	0	0	0	0	0	1,355	0	0	396	109	66	0	0	0	64	12,963	15,271
14. Stone, Clay & G  15. All Other Manuf  16. Wholesale Trade  17. Service Station  18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy	r & 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	4,079	0	2,333	6,416
15. All Other Manuf 16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy	ing & 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
16. Wholesale Trade 17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy	, Clay & Glass Products	0	0	0	0	0	0	0	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	( 0	5,507	1 304	2,147	7,677
17. Service Station 18. All Other Retai 19. Eating & Drinki 20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy	ther 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	
18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy	sale Trade	107	15	40	2	19	13	3	323	245	21	31	26	17	54	45	66	6	145	475	13	287	22			70					22,508
18. All Other Retai  19. Eating & Drinki  20. Agricultural Se  21. Oil Field Servi  22. Lodging  23. All Other Servi  24. Transportation  25. Electric Energy	ce Stations	125	22	40	4	32	15	4	161	0	32	15	6	11	8	23	33	0	73	18	8	68	16	474	1,129 996	79	25	816 102	128	28,196	32,834
20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy	ther Retail	232	37	125	5	22	55	14	323	98	21	46	32	34	5/4	68	66	19	290	299	7	34	05	146	199	70	76	1,632	192	4,338	6,277
20. Agricultural Se 21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy	g & Drinking Places	18	0	0	0	0	0	0	161	0	11	0	0	0	0	0	33	0	73	0	,	34	16	26	133	79	25	1,032		68,322	72,623
21. Oil Field Servi 22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy		375	122	45	370	0	7	0	0	0	0	0	0	0	0	0		0	,3	0	0′	- 34	10	30	133	0	23		192	16,870	17,602
22. Lodging 23. All Other Servi 24. Transportation 25. Electric Energy		0	0	0	0	0	0	0	4,034	0	0	0	0	n	0	0	0	0	0		0		0	0	0	0	0	0	+	12.872	919
23. All Other Servi 24. Transportation 25. Electric Energy		0	0	0	0	0	0	0	0	0	0	0	0	n	0	0	33	0	72	0	0	24	32	36	66	0		0	64	12,872	16,906
24. Transportation 25. Electric Energy	ther Services (Except Professional)	143	148	45	9	3	2	35	484	98	96	229	173	7/4	138	248	591	301	2,614	370	13	34	809	839	1,328	423	204	3,569	1,729	15,521	15,859
Tries		214	334	4	0	0	20	0	323	5,544	0	92	96	63	38	563	3,743	176	5,301		13	338	16			211	204	3,467	1,729	21,433	36,486
	ric Energy	89	48	18	3	0	10	5	645	196	279	137	109	46	8/1	203	263	207	1,234	194 264	31	761 85		803	6,375	2 520			449	37,865	66,405
26. Other Utilities		54	15	13	2	0	5	3	0	147	86	168	19	69	123	135	821	446	1,452	352	31		381	401	133	3,538	102	204	448	17,242	26,406
27. Contract Constr		0	0	0	0	0	0	0	161	0	n	15	12	0	0	90	22	13	363	18		68	840	474	863	211	255	510	896	17,422	25,457
28. Rentals & Finan		393	78	54	9	81	18	8	2,420	147	354	764	7.7	246	100	293	1 100				17	693	254	0	66	0 050	/6	31,411	256	68,517	101,987
29. Final Payments	Is & Finance	15,080	2,542	4,063	402	2,532	792	496	149,736	30,521	8,101		3 022		192		1,182	433	4,357	1,144		220	539	1,788	1,660	2,852	433	2,448	3,778	38,043	64,036
30. Total Gross Out.			3,710	4,477		2,697	1,096	578	161,353	49,066	10,714	9,238 15,271	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	45,692 101,987	55,585	4	

e: 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 Producing	l Range Livestock	2 Dairy	3 Field Crops	4 Fruit		6 l Other iculture	7 Coal	8 Oil and Gas	9 Uranium	10 All Other Mining	Kindred	12 Lumber and Wood Products	13 Printing and Publishing	14 Stone, Clay and Glass Products	15 All Other Manufacturing	16 Wholesale Trade	17 Service Stations	18 All Other Retail Trade	19 Eating and Drinking Places	20 Agricul- tural Services	21 Oil Field Services	22 Lodging	23 All Other Services		25 Electric Energy	25 Electric Energy	26 Other Utilities	27 Contract Construction	28 Rentals and Finance
	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	.000
	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	.000
riculture	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
	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
	5. Forestry	.000	.000	.000	.000	.000	.000	.000	.000	.000	.065	.000	.297	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
}	6. All Other Agriculture	.000	.000	.001	.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
	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
ning	8. Oil and Gas	.000	.000	.000	.000	.000	.000	.000	.014	.000	.000	.000	.000	.000	.000	.120	.000	.000	.000	.000	.000	.006	.000	.000	.001	.025	.025	.283	.001	.000
	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
}	10. All Other Mining	.000	.000	.000	.000	.000	.000	.000	.000	.000	.089	.000	.000	.000	.031	.052	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.012	.000
	11. Food and Kindred Products	.004	.000	.000	.000	.000	.028	.000	.000	.000	.000	.014	.000	.000	.000	.000	.000	.000	.000	.077	.000	,000	.025	.003	.001	.000	.000	.000	.000	.001
	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	.040	.000
nufacturing	13. Printing and Publishing	.002	.001	.001	.002	.000	.001	.006	.000	.001	.000	.008	.001	.007	.001	.001	.002	.024	.044	.007	.019	.001	.008	.004	.002	.003	.003	.003	.001	.006
	14. Stone, Clay and Glass Products	.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
}	15. All Other Manufacturing	.004	.002	.005	.005	.003	.005	.007	.002	.004	.006	.003	.003	.005	.009	.014	.003	.004	.004	.008	.004	.007	.001	.003	.026	.004	.004	.002	.011	.004
	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
ade	17. Service Stations	.007	.006	.009	.005	.012	.014	.007	.001	.000	.003	.001	.001	.002	.001	.001	.001	.000	.001	.001	.009	.004	.001	.001	,015	.000	.000	.001	.001	.001
aue	18. All Other Retail Trade	.013	.010	.028	.006	.008	.050	.025	.002	.002	.002	.003	.005	.006	.007	.003	.002	.003	.004	.017	.008	.002	.006	.004	.003	.003	.003	.003	.016	.003
}	19. Eating and Drinking Places	.001	.000	.000	.000	.000	.000	.000	.001	.000	.001	.000	.000	.000	.000	.000	.001	.000	.001	.000	.000	.002	.001	.001	.002	.000	.000	.001	.000	.003
	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
rvices	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
	22. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.001					.001	.001	.000	.000	.000	.000	.001
Ĺ	23. All Other Services	.008	.040	.010	.011	.001	.002	.061	.003	.002	.009	.015	.027	.013			.018	.048	.036	.021	.014	.020	.051	.023	.020	.016	.016	.008	.035	.027
_	24. Transportation	.012	.090	.001	.000	.000	.018	.000	.002	.113	.000	.006	.015	.011			.114	.028	.073	.011	.000	.045	.001	.022	.096	.008	.008	.008	.034	,000
ilities	25. Electric Energy	.005	.013	.004	.004	.000	.009	.009	.004	.004	.026	.009	.017	.008			.008	.033	.017	.015	.034	.005	.024	.011	.002	.134	.134	.004	.002	.007
	26. Other Utilities	.003	.004	.003	.002	.000	.005	.006	.000	.003	.008		.003				.025	.071	.020	.020	.008	.004	.053	.013	.013	.008	,008	.010	.005	.014
	27. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.001	,002		.001		.001	.002	.005	.001	.000	.041	.016	.900	.001	.000	.000	.003	.308	.004
	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

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 OUTPUT SAN JUAN SUB-BASIN Table SJ-1980-b

	Industry	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 Producing Purchasing	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		All Other Manufac- turing	Wholesale Trade	Service Stations	All Other Retail Trade	Eating and Drinking Places	Agricul- tural	Oil Field Services	Lodging	All Other: Services	Transpor- tation	Electric Energy		Contract Construc- tion	Rentals and Finance
	1. Range Livestock	1.050631	.000807	.000153	.000030	.000025	.000102	.000151	.002413	.000000	.000301	.004444	.000017	002720	000022	.005170	.007273	.007908	.014263	.001215	.022106	000060	.000080	.011588	.017002	.008228	.005426	.000402	.029502
	2. Dairy	.086600	1.005149	.000023	.004025	.000030	.000016	.000370	.003731	.000000	.000343	.000680	.000025	.003730	.000031	.005863	.007706	.008699	.012356	.000482	.036824	.000093	.000208	.047160	.105099	.019009	.008458	.000567	.034918
Agriculture —	3. Field Crops	.000071	.000049	1.000024	.000001	.000027	.001002	.000123	.002357	.000000	.000327	.000103	.000018	.002922	.000031	.005624	.009597	.009280	.028503	.000124	.010010	.000059	.000075	.012967	.005568	.006486	.005231	.000422	.017783
Agriculture ———	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
	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
}-	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
	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
Mining -	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
	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
}-	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
	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
	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
Manufacturing	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
	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
-	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
	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
Trade -	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
	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
<b> </b>	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
	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
Services —	21. Oil Field Services	.000018	.000070	.000013	.000003	,000804	.000009	.000152	.009577	.000000	.001447	.000386	.002389	.001826		.009646	.019043	.005027	.003562	.002245	.000004	1.000239	.002130	.025738	.056042	.007409	.007008	1	.021296
	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		.047581
_	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	1		.057824
_	24. Transportation	.000070	.000265	.000050	.000010	.000139	.000034	.000106	.009942	.000000	.001736	.001461	.000090	.003317	.000121	.029830	.019588	.016839	.003949	.002409	.000015	.000249	.001199	.025949	1.111388	.004707			.035123
Utilities	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			.136369
	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			.025586
	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	.050181
	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

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

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 Professional)	24 Transpor- tation	25 Electric Energy	24 Transpor- tation	25 Electric Energy		27 Contract Construc- tion	28 Rentals & Finance	29 Final Demand	30 Total Gross Output
	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	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	0	3,129	8,913
riculture	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	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
	7. Coal	0	0	0	0	0	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0		0	1,146	0	1,146			- 0	161	1,361
	8. 011 & Gas	0	0	0	0	0	0	0	1,811	0	0	0	0	0	0	4,374	0	0	0	0	0	54	0	0	294	969	294	969	18 160	215	0	125,000	150.886
ning	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	294	969	294	969	18,169	215	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		2,792	0	9,342	15,957
	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		5,799	220	817	6,679
nufacturing	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	132	172	215	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	1 - 0	170	132	0	0	1 0	12,671	1,370	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		
	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	-		23,881	35,282
	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	1/6	1,664	44	57	1,718	457	74,810	85,196
ade	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	228	11,509	15,672
α	19. Eating & Drinking Places	26	0	0	0	0	0	0	302	0	16	27	0	15	17	35	85	16	191	0	14	27	50	-		132	196	132	+	215	685	-	191,291
	20. Agricultural Services	632	330	50	583	0	13	0	0	0	0	0	0	0	0	0		0	171	1	0	21	30	144	196	44	190	44	115	213	685	44,766	46,973
	21. Oil Field Services	0	0	0	0	0	0	0	3,621	0	0	0	0	0	0	0	0	0	0	1 0	0	0	0	0	0	U		0	0 /	0	0	0	1,608
rvices	22. Lodging	26	0	0	0	0	0	0	151	0	0	27	7	0	17	35	85	0	191	1 0	0	27		1//	106	0	106				0	10,000	13,621
	23. All Other Services (Except Professional)	316	365	55	14	6	6	86	604	163	160	459	194	219	327	459	1,704	768	7,268	1,080	2/4	259	2.660	144	196	44	2 152	740	3/	215		48,843	50,345
	24. Transportation	342	811	10	0	0	35	0	453	6,180	0	216	107	175	103	953	9,966	486	15,492	752	24		2,668	3,466	2,153	749	2,153	749	460	7,946	6,622	105,828	
	25. Electric Energy	158	134	25	6	0	20	20	604	325	447	297	127	131	224	423	767	533	3,634	752	55	599	50	3,177	9,493	441	9,493	441	575	7,732	0	39,720	97,868
ilities	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	55	68	1,208	1,589	196	5,905	196	5,905	230	430	1,598	24,163	44,068
<u> </u>	27. Contract Construction	0	0	0	0	0	0	·1	151	0	0	27	27	0	34	176	170	21	1,339	47	13	41	2,769	1,877	1,272	308	1,272	308	575	1,074	3,425	36,295	57,508
	28. Rentals & Finance	632	205	70	17	98	33	20	2,716	217	558	1,378	107	628	464	564	3,237	1 112			0	477	906	144	98	0	98	0	230	74,095	913	135,906	214,774
	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		25,335		11 014	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
	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	14,604 17, <b>1</b> 99	35,282	65,860 85,196	11,016 15,672	135,826	31,754 46,973		11,415	38,517 50,345	122,186	74,575 97,868	28,734	74,575 97,868	28,734	35,431 57,508	87,200 214,774	197,064		

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 2010
Table SJ-2010-a

	Industry	1	2	3																										7
Agriculture  2. Dairy 3. Field Crops 4. Fruit 5. Forestry 6. All Other Agriculture 7. Coal 8. Oil and Gas 9. Uranium 10. All Other Mining 11. Food and Kindred Products 12. Lumber and Wood Products 13. Printing and Publishing 14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy	Purchasing	Range Livestock	Dairy	Field Crops	4 Fruit	5 Forestry	6 All Other Agriculture	7 Coal	8 Oil and Gas	9 Uranium	10 All Other Mining		12 Lumber and Wood Products		14 Stone, Clay and Glass	15 All Other Manufac- turing		17 Service Stations	18 All Other Retail Trade	19 Eating and Drinking Places	20 Agricul- tural Services	21 Oil Field Services	22 Lodging	23 All Other Services	24 Transpor tation	25 Electric Energy	26 Other Utilities	27 Contract Construction		
Agriculture  2. Dairy 3. Field Crops 4. Fruit 5. Forestry 6. All Other Agriculture 7. Coal 8. Oil and Gas 9. Uranium 10. All Other Mining 11. Food and Kindred Products 12. Lumber and Wood Products 13. Printing and Publishing 14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy	Livestock	.045	.082	000	200							Troduces	Troducts	rabilaning	Froducts				11440	Traces	Services		-		*				Finance	
Agriculture  4. Fruit 5. Forestry 6. All Other Agriculture 7. Coal 8. Oil and Gas 9. Uranium 10. All Other Mining 11. Food and Kindred Products 12. Lumber and Wood Products 13. Printing and Publishing 14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy	HIVESCOCK	.000	.006	.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	
Agriculture  4. Fruit 5. Forestry 6. All Other Agriculture 7. Coal 8. Oil and Gas 9. Uranium 10. All Other Mining 11. Food and Kindred Products 12. Lumber and Wood Products 13. Printing and Publishing 14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy	Crops	.000	.000	.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	
Mining  5. Forestry 6. All Other Agriculture 7. Coal 8. Oil and Gas 9. Uranium 10. All Other Mining 11. Food and Kindred Products 12. Lumber and Wood Products 13. Printing and Publishing 14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy	22075	.000	.005	.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	
Mining  6. All Other Agriculture  7. Coal  8. Oil and Gas  9. Uranium  10. All Other Mining  11. Food and Kindred Products  12. Lumber and Wood Products  13. Printing and Publishing  14. Stone, Clay and Glass Products  15. All Other Manufacturing  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy	rv	.000	.000	.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	
Mining  7. Coal  8. Oil and Gas  9. Uranium  10. All Other Mining  11. Food and Kindred Products  12. Lumber and Wood Products  13. Printing and Publishing  14. Stone, Clay and Glass Products  15. All Other Manufacturing  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy		,000	.000	.002		.000	.000	.000	,000	.000	.055	.000	.297	.000	,000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	
Mining 8. 0il and Gas  9. Uranium  10. All Other Mining  11. Food and Kindred Products  12. Lumber and Wood Products  13. Printing and Publishing  14. Stone, Clay and Glass Products  15. All Other Manufacturing  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy		.000	.000	.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	
Manufacturing—  Trade  Trade  19. Uranium 10. All Other Mining 11. Food and Kindred Products 12. Lumber and Wood Products 13. Printing and Publishing 14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy	d Gas	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	,000	.000	.026	.000	.000	.000	
10. All Other Mining  11. Food and Kindred Products  12. Lumber and Wood Products  13. Printing and Publishing  14. Stone, Clay and Glass Products  15. All Other Manufacturing  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy		.000	.000	,000	-000	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.124	.000	.000	.000	.000	.000	.004	.000	.000	.003	.022	.316	.001	.000	
Manufacturing  12. Lumber and Wood Products  13. Printing and Publishing  14. Stone, Clay and Glass Products  15. All Other Manufacturing  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy		.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	
Manufacturing  13. Printing and Publishing  14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy	nd Kindred Products	.004	.000	.000	-000	.000	.000	.000	.000	.000	.089	.000	.000	.000	.031	.053	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.013	.000	]
Manufacturing  13. Printing and Publishing  14. Stone, Clay and Glass Products  15. All Other Manufacturing  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy	and Wood Products	.000	.000	-000	.000		.029	,000	.000	.000	.000	.018	.000	.000	.000	.000	.000	.000	.000	.103	.000	.000	.026	.003	.001	.000	.000	.000	.001	
Trade  Trade  14. Stone, Clay and Glass Products 15. All Other Manufacturing 16. Wholesale Trade 17. Service Stations 18. All Other Retail Trade 19. Eating and Drinking Places 20. Agricultural Services 21. Oil Field Services 22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy		.002	.002	.001	.003	.000	.000	.007	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	,000	.000	.000	.000	.000	.027	.000	
Trade  15. All Other Manufacturing  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy	Clay and Glass Products	.000	.000	.000	000		.002	.007	.001	.001	.000	.008	.001	.008	.002	.001	.003	.028	.045	,007	.020	.001	.008	.004	.002	.003	.003	.001	.006	1
Trade  16. Wholesale Trade  17. Service Stations  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy		.005	.003	.006	.006	.000	.000	.000	000	.000	.000	.000	.000	.000	.004	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.059	.000	] ]
Services  18. All Other Retail Trade  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy		.007	.005	.010	.004	.008	.006	.008	.003	.005	.007	.004	.004	.006	.011	.016	.005	.004	.005	.010	.005	.006	.001	.004	.027	.006	.002	.013	.004	1
Services  19. Eating and Drinking Places  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy	e Stations	.008	.006	.010	-006	.013	.013	.007	.003	.006	.003	.002	,004	.005	.007	.003	.002	.001	.003	.030	.015	.018	.003	.014	.018	.004	.002	.008	.002	
Services  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy	ner Retail Trade	.014	.011	.029	.007	.009	.014	.008		.001	.003	.001	.001	.002		1	.002	.000	.002	.001	.009	.005	.001	.002	.017	.001	.001	.001	.001	
Services  20. Agricultural Services  21. Oil Field Services  22. Lodging  23. All Other Services  24. Transportation  25. Electric Energy	and Drinking Places	.001	.000	.000	.000	.000	.000	.026	.002	.003	.002	.003	.006		.008	.003	.002	.003	.004	.023	.009		.007	.004	.004	.003	.003	.018	.003	1
22. Lodging 23. All Other Services 24. Transportation 25. Electric Energy		.024	.037	.010	.486	.000	.000	.000	.000	.000	.001	.001	.000	.001	.001	.001	.001	.001	.001	.000	.000	.002	.001	.001	.002	.001	.002	.001	.003	1
23. All Other Services  24. Transportation  25. Electric Energy	eld Services	.000	.000	.000	.000	.000	.000	.000	.024	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	,000	.000	.000	2
24. Transportation  25. Electric Energy	2	.001	.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	_ 2
Utilities 25. Electric Energy	ner Services	.012	.041	.011	.012	.002	.003	.063	.004	.003	.000	.001	.001	.000	.001	.001	.001	.000	.001	.000	.000	.002	.001	,001	.002	.001	.001	.001	.001	2
Utilities	ortation	.013	.091	.002	.000	.000	.019	.000	.003	.114	.010	.017	.029	.015	.019	.013	.020	.049	.038	.023	.015	.019	.053	.024	.022	.017	.008	.037	.029	2
26. Other Utilities	ic Energy	.006	.015	.005	.005	.000	.011	.000	.003		.000	.008	.016	.012	.006	.027	.117	.031	.081	.016	.000	.044	.001	.022	.097	.010	.010	.036	.000	12
	Utilities	.003	.004	.003	.003	.000	.005	.006	.004	.006	.028	.011	.019	.009	.013	.012	.009	.034	.019	.016	.034	.005	.024	.011	.002	,134	.004	.002		2
27. Contract Construction	ct Construction	.000	.000	.000	.000	.000	.000	.001	.001	.000	.008	.012	.005	.012	.017	.006	.025	.073	.021	.020	.008	.003	.055	.013	.013	.007	.010	.005	.015	12
28. Rentals and Finance	s and Finance	.024	.023	.014	.014	.033	.018	.015	.018	.004	.000	.001	.004	.000	.002	.005	.002	.002	.007	.001	.000	.035	.018	.001	.001	.000	.004	.345	.004	

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 SAN JUAN SUB-BASIN 2010 Table SJ-2010-b

		-																												
Industry Purchasing	Industry Producing	l Range Livestock	2 Dairy	3 Field Crops	4 Fruit	5 Forestry	6 All Other Agri- culture	7 Coal	8 Oil and Gas	9 Uranium	10 All Other Mining	11 Food and Kindred Products	12 Lumber and Wood Products	13 Printing and Publishing	14 Stone, Clay and Glass Products	15 All Other Manufac- turing	16 Wholesale Trade	17 Service Stations	18 All Other Retail Trade	19 Eating and Drinking Places	20 Agricul- tural Services	21 Oil Field Services	22 Lodging	23 All Other Services	23 All Other Services	24 Transpor- tation	25 Electric Energy	1	27 Contract Construc- tion	
	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
	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
And out towns	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
Agriculture —	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
	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	.004580	.004580	,002686	.001283	.002108	.000460	.037799
	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
	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
	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
Mining —	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
	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
	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
Manufacturing—	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 Class 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 1
	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
Trade	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
l R	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
	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
Services-	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 2
	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
Utilities —	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		1	.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		1.011895	1	.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		1.528549	1
	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		1.069917 28

DIRECT AND INDIRECT REQUIREMENTS PER DOL LAR OF FINAL DEMAND SAN JUAN SUB-BASIN 2010
Table SJ-2010-c

Industry Producing	Industry Purchasing	l Agriculture	2 Forestry	3 011 & 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.	ll 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 Transpor- tation	19 Electric Energy	20 Other Utilitie	21 Contract Construction	22 Rentals and Finance	23 Final Demand	24 Total Gross Output
	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
_	2. Forestry	0	0	0	0	0	0	1,982	0	0	0	0	0	0	0	0	0	С	0	0	0	0	0	40	2,022
	3. 011 & 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
Mining	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
ļ	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
1	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
	7. Lumber & Wood Products	58	0	0	109	0	0	25	0	0	0	О	0	0	110	0	0	0	0	0	0	287	0	4,544	5,133
Manfacturing	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
	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
ļ	10. Chemicals, Petroluem & 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
	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
	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 1
Trade	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 1
	14. Other Retail	636	14	0	0	0	158	64	1	2	3	20	69	1,723	880	21	<b>2</b> 50	294	173	63	383	96	659	67,841	73,350 1
	15. Oil Field Services	0	0	2,699	0	0	0	0	0	0	0	0	С	С	0	0	0	0	0	0	0	0	0	18,731	21,430
Services	16. Lodging	0	0	0	0	0	0	0	0	С	0	C	U	0	0	21	0	0	138	0	0	0	0	24,801	24,961 10
L	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 1
_	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 1
	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
Utilities	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 2
	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. Fach column shows purchases by the industry listed at the top of the table from each industry listed down the left margin.

INTERINDUSTRY TRANSACTIONS GREEN SUB-BASIN 1980 Table GR-1980-a

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	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
	1. Agriculture	.166	.000	.000	.000	.000	.520	.002	.000	.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	.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
Mining	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
	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
Manufacturing	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
	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
Trade	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
	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
Services	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
`	18. Transportation	.024	.000	.008	.025	.016	.039	.073	.004	.043	.040	.095	.024	.005	.075	.008	.004	.008	.123	.036	.036	.015	.001
Weilieige	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
Utilities	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
1	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 shows the input directly required from the industry	.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	l 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 0il field services	16 Lodging	17 Other services (except professional	18 Trans- portation	19 Electric energy	20 Other utilities	21 Contract Construction	22 Rentals & finance
	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. 0il & gas	.000081	.000003	1.010483	.001682	.000036	.000128	.000006	.000134	.001062	.002095	.000561	.001286	.001185	.000819	.015157	.000056	.000937	.010164	.008080	.000872	.000220	.043638
Mining	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
	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
Manufacturing	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 7	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
_	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
Trade	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
	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
Services	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
Services	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
Utilities	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

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

Industry Producing	Industry Purchasing	l Agriculture	2 Forestry	3 011 & Gas	4 Coal	5 Uranium & Non-Fuels	6 Food & Kindred Products	7 Lumber & Wood Products	8 Printing & Publishing	9 Stone, Clay & Glass Products	10 7. 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 Transpor- tation	19 Electric Energy	20 Other Utilities	21 Contract Construction	22 Rentals & Finance	23 Final Demand	24 Total Gross Output
	1. Agriculture	10,695	0	0	0	0	6,554	10	0	0	0	0	0	0	0	0	923	0	0	0	0	0	0	45,859	64,041
	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
	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
Mining	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
Ļ	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
	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	0	7,082	13,348
	7. Lumber & Wood Products	64	0	0	124	32	0	51	0	0	155	0	0	0	195	0	0	0	0	0	37	497	0	4,123	5,278
Manufacturing	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
	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
<u> </u>	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
	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
	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
Trade	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
_	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
	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	0	12,688	17,382
Services	16. Lodging	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	190	0	0	0	0	70,806	71,013
	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
_	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
	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
Utilities	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
	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
	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
	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		
	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		

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 GREEN SUB-BASIN 2010 Table GR-2010-a

Industry Producing	Industry Purchasing	l Agriculture	2 Forestry	3 Oil & gas	4 Coal	5 Uranium & non-fuels	6 Food & kindred products	7 Lumber & wood products	8 Printing & publishing		10 Chemicals, petroleum & coal other mfg.	ll 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 Transpor- tation	19 Electric energy	20 Other utilities	21 Contract construction	22 Rentals & finance
	1. Agriculture	.167	.000	.000	.000	.000	.491	.002	.000	.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	.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
Mining	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
	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	.000
1	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
Manufacturing	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
	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
Trade	2 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	.000	.000	.137	.014	.001	.001	.003	.011	.009	.086	.016	.001	.010	.017	.005	.002	.023	.002	.013
	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	.000
Services	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
	18. Transportation	.024	.000	.010	.027	.016	.041	.073	.004	.043	.090	.095	.024	.005	.075	.008	.005	.008	.123	.037	.036	.015	.001
Utilities	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
Utilities	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 pro- fessional)	18 Transpor- tation	19 Electric energy	20 Other utilities	21 Contract Constructio	22 Rentals and finance
	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	.000227	
	3. Oil & gas	.000089	.000303	1.016801	.002274	.000158	<b>.0</b> 00150	.000066	.001223	.001089	.004389	.001779	.002407	.001250	.002014	.017286	.000071	.001327	.013391	.010466	.002280		.032842
Mining	4. Coal	.000122	.001916	.005185	1.014911	.000564	.000195	.002287	.001325	.001163	.015821	.004906	.001949	.001613	.001205	.000088	.000143	.002660	1035806	.036263	.005098	.000270	.045732
	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	.005998	.032119
	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	.003202	.042340
	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	.003348	.051112
	8. Printing & publishing	.000108	.007283	.018857	.003649	.000195	.000176	.001326	1.006699	.000056	.107136	.006418	.001921	.000427	.003196	.000321	.000075	.043876	.018628	.016179	.010476	.000721	.045277
Manufacturing	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	.000410	.035169
	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	.000452	.040664
	11. Wholesale trade	.000157	.000281	.012897	.002839	.000282	.000254	.000150	.001780	.000148	.003501	1.007822	.002620	.001556	.013728	.000219	.000453	.020470	.113208	.012440	.030563	.000430	.046774
	12. Service stations	.000110	.000228	.015519	.003541	.000682	.000183	.000154	.021843	.013574	.002640	.003694	1.005183	.000531	.013168	.000264	.000135	.007986	.033682	.014978	.056187	.007072	.041414
Trade	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	.005094	.161307
	2 1/ Other retail	.003962	.001327	.006220	.004165	.000271	.006703	.002212	.012162	.000168	.006943	.012041	.008428	.003326	1.020834	.000106	.000373	.043821	.093187	.018465	.034990	.004351	.046143
-	15. Oil field services	.000099	.000152	.000791	.000565	.000096	.000140	.000053	.000085	.000052	.002081	.001644	.000259	.001144	.001410	1.000013	.001040	.001550		.002548	.002650	.002889	.069308
	16. Lodging	.021948	.000149	.008594	.005349	.000346	.010756	.000170	.004757	.000081	.001278	.006634	.000862	.000294	.015699	.000146	1.000055	.056549	.013636	.023308	.064392	.003407	.006165
Services	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	.004053	.079979
	18. Transportation	.001046	.000087	.005703	.006164	.000347	.001653	.000070	.004314	.000351	.000942	.038372	.023325	1015049	.009235	.000097	.004595	.014051	1.148680	.028100	.021168	.004635	.036901
	19. Electric energy	.000276	.000840	.061867	.224709	.012072	.000460	.000638	.001695	.000433	.009268	.004310	.002646	.004137	.003622	.001052	.000218	.003146	.054289	1.042449	.008205	.000771	.025771
Utilities	20. Other utilities	.000154	.000526	.112975	.007488	.000152	.000252	.001152	.001826	.000196	.001001	.005047	.003608	.000836	.026146	.001921	.000196	.010886	.048445	.010166	1.051546	.007237	.026676
	21. Contract construction	.000088	.002931	.005899	.002135	.021829	.000118	.006837	.000531	.015081	.002899	.049897	.007493	.000411	.003996	.000100	.000112	.007730	.027975	.009558	.006870	.001555	.057923
	22. Rentals and finance	.000063	.000049	.002131	.002179	.000163	.000106	.000068	.001416	.000058	.000344	.005153	.001372	.000121	.014879	.000036	.000018	.020633	.004424	.009798		1.115427	.033338
N. t Fach ontry	shows the total dollar production directly and indi	r-																			.013236		1.064474

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

		for Each	oi t	ne Six Sub-Ba Basin in 198		or the Color	ado K			•	. •	
	,	Gila	7	thousands of	Li	ars) Lttle Lorado		ower n Stem	San	Juan		pper n Stem
	Ranl		Ranl		Ranl	k	Rank		Rank		Rank	. P
Agriculture	4	1	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		٠ .	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									ľ	
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		and the second s		
"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		Par again	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			·	,				The second secon		
Zinc .											15	16,333
"Other" Mining	17	165,734			17	5,528	18	37,423	17	10,714	18	8,883
	-		1				1		1		1 -	

2,454

54,074 16

15,271 8

34,794

546,863

Food & Kindred Products

16

10,557

Table CRB-11a - Continued

			•		Table CK	р-тта	- Continued						•
			Gila	G	reen .		ttle orado		ower n Stem	San	Juan		pper n Stem
		Ran		Rank		Rank		Rank		Rank		Rank	
Lumber	& Wood	24	67,407	18	5 <b>,13</b> 3	10	31,120	24	16,999	19	6,416	24	6,229
Furnitu	re & Fixtures	30	22,479										
Paper &	Pulp	29	23,143										
Printin	ng & Publishing	21	105,868	22	1,474	20	2,311	20	31,937	21	5,716	21	.7,366
Chemica	ıls	25	62,432		, ,		•	17	42,647				•
	Petrol., Coal er Manufacturing			19	2,914								
Primary	Metals	8	604,014				•						
Fabrica	ted 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
Textile	s & Apparel	32	20,709							·			. ':
Leather	& Leather Goods	35	884						'		5		
"Other"	Manufacturing	6	759,463			11	30,073	15	48,597	11	22,508	13	18,253
Wholesa	le 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
Agricul	tural Services	27	45,893					13	57,898	26	919	23	6,82 <b>9</b>
Oil Fie	ld 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
Transpo	rtation	13	360,442	7	34,529	5	71,131	7	173,622	4	66,405	5	64,180
Electri	c 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
Contrac	t 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	G	reen		ttle orado		wer Stem	San	Juan		per 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			2.7	· 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 Rank		Green		Little Colorado		Lower Main Stem		San	Juan		Jpper In St <b>em</b>
,	Rar	nk ;	Ran	ık , ,	Rank	٤,	Rank		Rank		Rank	<b>.</b> .
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			edinomina de de calaba de de calaba					•
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

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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

		011-	0			ttle		wer		<b>T</b>		per
		Gila ~		een		orado		Stem		Juan		Stem
	Rank	<b>%</b>	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		8									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	ا و ا	84.89	14	73.65

Table CRB-11c - Continued

	(	Gila	G	re <b>en</b> .			tle orado		Lowe in S	er St <b>em</b>	San	Juan	-	per St <b>e</b> m
	Rank	%	Rank	%		Rank		Ran		%	Rank	%	Rank	%
Lumber & Wood	21	53.35	5	88.53		9	87.87	1	5	66.99	22	36.36	71	94.20
Furniture & Fixtures	6	93.16	1 1		•			-						
Paper & Pulp	27	22.54				-					A to the second			
Printing & Publishing	22	46.73	21	15.60		16	58.85	.2	6	18.22	26	14.03	30	4.63
Chemicals	29	19.48						1	0	77.79				,
Chem, Petrol., Coal Other Manufacturing			20	45.02			•							•
Primary Metals	3	95.93			,	a de la companya de l								
Fabricated Metals	25	26.08	1.					2	7	11.89			22	55.18
Stone, Clay & Glass	30	10.04	17	48.54				2	1 .	47.09	23	27.97	29	13.56
Textiles & Apparel	1	99.29							1					
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	1	6	64.58	8	85.87	. 8	86.81
Service Stations	19	60.68	10	75.63		12	74.26	1	1	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						3	0	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	2	o   .	49.98	21	57.02	20	60.25
Electric Energy	23	37.12	12	72.91		20	24.64	2	3	31.92	18	65.30	25	35.13
"Other" Utilities	13	71.45	15	54.59		10	79.88	1	8	57.97	14	68.44	15	72.24
Contract Construction	14	68.68	7	87.88		13	72.98	1	4	67.41	16	67.18	17.	67.05
Rentals & Finance	15	68.54	16	53.63		14	68.38	1	- 1	68.95	19	59.41	12	74.98

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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		G	reen		ttle orado		Lower In Stem	San	Juan		pper n Stem_
	Rank		Rank		Rank		Ranl		Rank		Rank	
Agriculture			) 5	1.432592					-		Ĭ	I
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				<u> </u>			]				17	1.277037
Field Crops		•		1			i		25	1.000024		
Forage Feed & Food	25	1.011229		1 <b>!</b>	11	1.349560	24	1.002945			į	
Truck Crops								i			4	1.611100
Vegetables	33	1.001005		]				,	Ì			1
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	<b>† 1</b> 8	1.006794	. 20	1.000685	7	1.534172
Forestry	36	1.000002	20	1,131468	25	1.132937	30	1.000003	7; 26	1.000017	30	1.082527
Coa1			18	1.152027	6	1.656867	į		22	1.000280	25	1.111209
Oil & Gas			22	1.095685	7	1.585098	•		<sub>†</sub> 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	1.390 301								
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	G	Green .		ttle orado		wer Stem	San	Juan		per Stem
	Rani	k _	Rank	<b>.</b> .	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					1	`				
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	1, /							
Primary Metals	23	1.013096										100198
Fabricated Metals	99	1.056449	,		1 1		10	1.031035			1	1.120188
Stone, Clay & Glass	2	1.206650	17	1.231773	1	·	12	.1.018014	17	1.003111	10	1.451147
Textiles & Apparel	26	1.007094										
Leather & Leather Goods	35	1.000044	1							- <b>K</b> 1		- 0 / 7 1 3
"Other" Manufacturing	5	1.174766	. ,		21	1.159484	20	1.006345	9	1.015967		1.104713
Wholesale Trade	16	1.020433	16	1.247015	5	1.716170.	13	1.011716	16	1.004767	19.	
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		20709
Lodging	32	1.001065	13	1.304841	24	1.133743	28	1.000118	18	1.004147	12	
"Other" Services	10	1.050925	8	1.385232	23	1.146122	7	1.048056	8	1.026982	20	
Transportation	11	1.039599	10	1.343634	12	1.316334	5	1.062229	4	1.111388	18	
Electric Energy	4	1.186529	6	1.425816	20	1.188740	6	1.051038	3	1.156901	13	- (2522
"Other" Utilities	18	1.018515	11	1.327659	17	1.232773	14	1.011022	12	1.011222	22	(06/22
Contract Construction	1	1.366429	14	1.300315	8	1.559942	1	1.495381	1	1.446154	1	1.606433 1.081125
Rentals & Finance	12	1.033249	19	1.136395	19	1.197843	8	1.047353	6	1.067180	3	1.001123

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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
		-	· ~	·		8 %
Agriculture	and the second	. 8	•		•	
Range Livestock	· 7		5	7	. <b>5</b>	· <b>7</b> · ·
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		, <del>(</del>
Cotton	12			. 9		
"Other" Agriculture	17		9	9	10	. 13
Forestry	4	4	. 3	4	2	3
.Coal	ŕ	٠ 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

	ı		•				
		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	4	•
	Chem, Petrol., Coal Other Manufacturing	•	4		·	•	
	Primary Metals	16	·	•		•	
	Fabricated Metals	11			7 .		_ 3 <b>3</b>
	Stone, Clay & Glass	10	٠ 4		9	. 5	6
<b>–</b>	Textiles & Apparel	. 8					
125	Leather & Leather Goods	· <b>1</b> 5	•				0
	"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 <sup>1</sup>	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
	Transportat <b>io</b> n	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		Gr	een		tle orado		ower n Stem	San	Juan		oper n Stem
	Rank		Rank		Rank		Rank	,	Rank		Rank	
Agriculture	1		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		ittle lorado		Lower in Stem	San	Juan		Upper in Stem
	Rank	Rank	Ran	k	Ran	k	Rank		Ran	k
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,	323 1	336,882	3	1,226,399	2	214,774	2	2.07,745
Rentals & Finance	2 4,905,958	2 131,	441 . 3	272,717	2	1,346,151	1	228,344	1	210,436

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Food & Kindred Products

587,210

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		reen	Little Colorado		Lower Main Stem		San	Jean		per n Stem
•	Rank		Rank		Rank	.•	Rank	•	Rank	:	Rank	
Agriculture	1		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		<i>T</i>
Forage Feed & Food	36	0			20	910	22	9,755		,		
Truck Crops											27	1,729
Vegetables	18	84,895						,				
Citrus Crops	29	9,524					17	37,607				10.000
Fruit	ì			•					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	22,43
"Other" Mining	19	74,996			16	7,553	21	12,044	18	9,342	21	5,23

17

7,082

2,331

30,81

12

15

31,688

19,468

Table CRB-12b - Continued

	Gila	G	reen .		ittle lorado		Lower in Stem	Sar	ı Juan	Ma	Upper in Stem
	Rank	Rank	:	Ranl	c .	Ran	ık	Rank		Ran	ık .
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								4
Primary Metals	6 1,124,133								, r	,	
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	s 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		1
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	<b>1</b> 2	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 Lower Colorado Main Stem			San	•	Upper Main Stem		
,	Rank	% '	Rank	%	Rank		Rank	%	Rank			Rank	%
Agriculture	1 1		12	71.61	1				. ]				
Range Livestock	30	11.18		1	3	95.23	26	13.75	4	90.35		28	17.80
Feeder Livestock	31	7.31	ĺ		2	98.02	7	88.66		The state of the s		14	70.58
Dairy	22	25.35			23	2.10	28	4.38	22	35.11		27	19.71
Food & Field Crops		<u>`</u>										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		<b>.</b>			
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		Juan	Upper Main Stem	
		Ranl		-	Rank	. %		ank	. %	]	Rank	%	. I	Rank	, %	Ranl	c %-,
-	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	1				•
	Chem, Petrol., Coal Other Manufacturing				15	66.05	•			i.							* * * * * * * * * * * * * * * * * * *
	Primary Metals	4	91.46										.		•		
	Fabricated Metals	27	13.92						4		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	·					,								`
131	Leather & Leather Goods	3	92.18			,			٠				,				40.00
	"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	٠.	9	77.86		9	73.44	13	73.79
I	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		00.00
	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	t	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		<b>1</b> 6	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 in Stem	San		Upper Main Stem		
	Rank	k	Rank	k	Rank	k	Rank	k	Rank		R	lank	
Agriculture	ì		6	1.450008				•	1			- 1	· · ·
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	145				1.045520
Dairy	21	1.018943	1.		4	1.908955	11	1.028436	14	1.006190	i	- 1	1.002450
Food & Field Crops	ľ	-	1. !				'		-		- 1		1.000031
Field Crops		,					1		25	1.000047			1.
Forage Feed & Food	28	1.006283			11	1.389800	24	1.004939					
Truck Crops					Ç.	•	1 1		No.			31	1.000006
Vegetables	31	1.002023					1						
Citrus Crops	30	1.003184					- 26	1.001001			1		·
Fruit	1 7	1			=	:			27	1.000002		22	1.001127
Veg. & Melon Products					•		25	1.002004					1
Cotton	29	1.004478			•	•	19	1.008793					1
"Other" Agriculture	27	1.006709	1		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	2,6	1.000018			1.001077
Coal		1	18	1.171337	5	1.687299			22	1.000518		14	1.005885
Oil & Gas		1	21	1.124815	. 6	1.665816	*		11	1.013526	. "	12	1.016260
Uranium	17	1.025736	1 :1		2	2.011647	2	1.449275	2	1.322751		2	1.225490
Uranium & Nonfuels		i - ·	7	1.434203			1 . 1	1			- 1		i
Copper	11	1.045081				•	1 1	1				, •	
Zinc		I						1		No maintenance.		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

·	<u></u>	Gila	Green .		reen .		ittle Lorado		Lower In Stem	San	Juan	Upper Main Stem	
<i>*</i>	Rank		R	lank		Rank	۲.,	Ranl	ς .	Rank		Rank	, I
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	l.			,			, ,				<i>:</i>
Printing & Publishing	15	1.026750		15	1.282581	15	1.285039	18	1.008908	13	1.009015	10	1.020131
Chemicals	14	1.026754				ŀ		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					٠.						,
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	l	1		1	1.446588
Rentals & Finance	-13	1.037027		19	1.143320	19	1.222857	8	1.048789	. 1 6	1.069917	9	1.029516

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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
	,			<i>'</i> .		•
Agriculture	emina entr	. 8	•		•	
Range Livestock	· . 6	•	9	. 8	5 .	8 .
Feeder Livestock	10		8	9		13
Dairy	11		9	13	. 7	12
Food & Field Crops	<b>\</b>				·	. 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		•			•
Zine		,				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	<b>10</b>	5	.9	5	8
Furniture & Fixtures	11.					<b>*</b>
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

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

	1950	1980	2010
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 <b>,7</b> 58
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	<sup>7</sup> 2,307
Coal	47,639	59,387	61,412
0il & 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)

	. 1960	1980	2010
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.)

	1960	1980	2010
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	Ration Virter	reeder	restock Date	401868	Rood Rolestry	orner Agri	culture dranks	other nin	too fire	red Lighber wood	nemicals	eliting shine captical
Range Livestock Feeder Livestock Dairy Forage, Feed, & Food Cotton Vegetable & Melon Citrus	109			003 005		.006			.005	.00	07 <b>1</b> 9	
Forestry Other Agriculture Uranium Other Mining Food & Kindred Lumber & Wood Chemicals		.004	038	.004	013	.004	.010	.003	.004	.004		
Printing & Publishing Fabricated Metals Stone, Clay & Glass Other Manufacturing Wholesale Trade Service Stations								.006		.0	05	
Eating & Drinking Other Retail Ag. Services Lodging Other Services									.007	•		
Transportation Electric Energy Other Utilities Contract Construction										·		.004

Rentals & Finance

ak

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	හි	φ. φ. <sup>Α</sup>	ting te			ي.	Jiral	a .&	ation			ction &
Producing Industry Purchasing	stone, as	Othet	curing les de	service on	otiet tai	Agricult	stres dices	Atoe to Charles	Alectric	other in	controls	ruction as a re-
Range Livestock Feeder Livestock		.006		•				.014				.003
Dairy	1					.014	012	.004	.005			.006
Forage, Feed, & Food						.006	•0.2	.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 Service Stations						,	.003	.005				.004
Eating & Drinking												
Other Retail												
Ag. Services			•									
Lodging												
Other Services												
Transportation												,
Electric Energy												.003
Other Utilities					*							.005
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		<b>8</b> €	2024	. 9	4000 A		To B		اد مده	<b>,</b>	~	70°00°0	ing.
Industry Purchasing	A Line of the second	4000	of sold	to res	E STERLY A	11 to 12 to	at the state of th	Olio Mains	to Arigh	THE TO SE	Stantage Co.	A THE THE SECOND	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Range Livestock	<b></b> 003			<del>~~~~~</del>					.010			,	
Feeder Livestock	032			<b>-</b> .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 Station <b>s</b>													

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

Industry	<u>.</u>	4	178	- <del>-</del> ,	(Cont'd)	)			rion				
Producing Industry Purchasing	g cha	other and	iacturine ale	e section	orter retail	Ast seri	othet er	itces	co siectif	other 12	controls	Reflection Restriction	Artice
Range Livestock		.006				.004					0 0	. 003	
Feeder Livestock						.003		.006				.004	
Dairy								.005	.006			.004	
Forage, Feed, & Food						.006			.005			.005	
Cotton						.003			000			.004	
Vegetable & Melon						.005		000	.003			.004	
Citrus				.003		.003		.003	.004			.005 .003	
Forestry		•		.003				.003	.003			.003	
Other Agriculture Uranium				.005	.005		.003	.003	.003		•	.005	
Other Mining	.003	.006	.003		.003		.003	.003	.004		.003	.005	
Food & Kindred	, , , ,	,,,,	,,,,		.003			,003	.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	.004					
Wholesale Trade								.005					
Service Stations					•				.003				
Eating & Drinking									004			004	
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 Industry Purchasing	Range Livestock	edet restock Dair	401 400 1 400 1	koreatry othe	Agriculture	other	ining food	Andred Limbe	wood chen	deals printing	olighing Radric
Range Livestock Feeder Livestock Dairy Forage, Feed, & Food	121	008	003 009 .005			.005	,005		.005		
Cotton Vegetable & Melon Citrus	·	,	• •			.005	,		.020		· · ·
Forestry Other Agriculture Uranium Other Mining	•	•	.004	·	.019	.006	.004	. 004	.003		
Food & Kindred Lumber & Wood Chemicals	.004	040	007	004	÷	.012		.005			
Printing & Publishing Fabricated Metals Stone, Clay & Glass Other Manufacturing					,	.009			.006		
Wholesale Trade Service Stations Eating & Drinking		<b>0</b> 09				,	.007	,	•	,	
Other Retail Ag. Services Lodging Other Services						,				.003	, 3
Transportation Electric Energy Other Utilities			,								
Contract Construction Rentals & Finance								.004		•	.006

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#### 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	C187 <sup>↔</sup>	edrib Ae			utal	<b>a</b> '	etation.			ckion &
Industry Purchasing	Stores of the think	activities ate	Set it to Other	AST CO	tirtices other	seta ces services	il glectiv	orther 1	ties contract	Rentaline
Range Livestock Feeder Livestock Dairy Forage, Feed, & Food Cotton	.007	.003	005	.016 .006	011	.018 .030 .011 .007	.004 .010 .012 .003	.003		.005 .005 .013 .010
Vegetable & Melon Citrus Forestry Other Agriculture		.007	003	.009	.003	025 .014 .013 .003	.007		012	.008 .011 .004 .006
Uranium Other Mining Food & Kindred Lumber & Wood Chemicals	.004	.004	.005		.006 .004	.008 .007 .004 .011	.009 .006 .004	.005	.013	.007 .006 .004 .007
Printing & Publishing Fabricated Metals Stone, Clay & Glass Other Manufacturing Wholesale Trade	.004	.004	.003		.004 .005 .003	.004	.010 .005 .004	.004	.004	.004 .009 .006
Service Stations Eating & Drinking Other Retail Ag. Services Lodging		•		•	.004	.003		,		.003
Other Services Transportation Electric Energy Other Utilities Contract Construction Rentals and Finance	.005				.003	.003	.006		.009	.003

#### 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

,					e Lower Ma	in Ste	m Sub-Bas:	in	a. Marie	,	, ,		
Industry Producing Industry Purchasing	RATUSE LIVE	egtock det	vestock Dat	40 <sup>5</sup> 48	ed tood forest	cy other	Referitive Dran	Other wa	ining good	Andred Link	pet tood ches	olcolo Principle	A Ray
Range Livestock	003	•			,				.011				
Feeder Livestock	036			005		•				•	.004		
Dairy			007	<b>~.</b> 008	•			.,	.004	•	.007	•	,
Forage, Feed, & Food		,						.007			.027	•	•
Cotton				•	•	1					.005		. ,
Vegetable & Melon	·					•		.007			.027		,
Citrus	*		,	•				.006			.005	A Springer	. ,
Forestry	`,			005				· ·	. 00/	•	006		
Other Agriculture				.005	•		010	005	.004	. 004	.006 .005	٠,	
Uranium					•		.010	.005		.004 .004	.005	.004	
Other Mining	.006	.005	030	-,004	•	.003		.003		.004		004	1
Food & Kindred	.000	.005	-,050	7.004	006	.005	,		,				٠.
Lumber & Wood	* *		•		000			.011			•		1
Chemicals					•	•		.011		1			
Printing & Publishing			•				•			•		,	
Fabricated Metals	•	1					•	.006	,	• •	.009		
Stone, Clay & Glass Other Manufacturing			•				Ť	.006			.009		
Wholesale Trade	•	1					٠.	.000			,		
Service Stations	•	•				٠	,		•			,	
Eating & Drinking			007				٠.		•		, .	*	••
Other Retail	, ,		,				**	:		t		1	,
Ag. Services		•		·.			+			•			1
Lodging								•.			,	•	
Other Services								•					i.
Fransportation	•			•					•				- 1
Electric Energy			•							•			
21000120 2110100													

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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	, <b>t</b>	ched 4	aring .	્ર			tural		ortation	, ,	. e.\$	t iction
Industry Purchasing	store?	other name	Scruring 128	se state	Lotts Other	ASTIC	akurak berukea	services of ans	Portar for	the ted other	the contro	et treeton s
Range Livestock		007		•		.005	,	000	,			.005
Feeder Livestock							004	.008	010	.004		.000
Dairy		•				.004 .006	.004	.009	.010	.004		.010
Forage, Feed, & Food						.003	.004	.003	.003			.009
Cotton						.003	.003	.003	.003			.009
Vegetable & Melon						.003	.003	.004	.007	;		.009
Citrus				.003		.003	.004	.004	•007			.004
Forestry		•		.003		.006	.003	.004	.005		•	.004
Other Agriculture	.004		.004	,004	.008	, •000	.003	.004	.003	.005	.006	.012
Uranium	.004	.006	.004		.008		.007	.007	.004	.003	.006	.006
Other Mining	. 004	.•000	.004		• 004		.004	.003	.004	.005		.005
Food & Kindred	<i></i>			-	.004		.003	.003	.003			.005
Lumber & Wood		.004			.004	•	.019	.005	.006	.004		.010
Chemicals	•	. 004					.019	.005	.005	.004		.003
Printing & Publishing							.003	.003	.003			.006
Fabricated Metals	.004			•	.004		.005	.005	.014	.006	.004	.009
Stone, Clay & Glass	,004		;		.004		.005	.006	.004	.003	• 004	.004
Other Manufacturing					.004	,	.003	.006	.004	• 005		.004
Wholesale Trade					•	,	.003	.000	.004		•	
Service Stations	:			. ^			.004		.004	•		.003
Eating & Drinking		•					.004		.005			.006
Other Retail						,			,•005	*	•	
Ag. Services	* • •	•		,		,			,		.003	
Lodging				`							.003	•
Other Services	•							•				.004
Transportation							.004	.003			•	.004
Electric Energy			,				.004	.003				.005
Other Utilities	002						.004		.003	.,		.004
Contract Construction Rentals and Finance	.003					,	. 004		.003	7	-	.004

.

Electric Energy Other Utilities

Contract Construction Rentals & Finance

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 Industry Purchasing	Range Beatrock Dear	4 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Crops Crops Otheric	alture	Urentus Oth	er thining good thindred in	mod Other utacturing
Range Livestock	.021	.024					
Feeder Livestock		.073					
Dairy		.093			·	•	.003
Forage, Feed & Food					,		.004
Forestry		000	005		•		.003
Other Agriculture Coal		.032	.005				.005
Oil & Gas				.013			.004
Uranium		•		.013	.011		.010
Other Mining					****		.005
Food & Kindred	023		062				·
Lumber & Wood							
Printing & Publishing		•					
Other Manufacturing Wholesale Trade				.004			
Service Stations							
Eating & Drinking							•
Other Retail		-					
Lodging				1	•		
Other Services							
Transportation	•						•

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	inolegale	garine de	orther ta	service	tions direct	ices	Sie green	Other 11 tiles	et rickion dis sice
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		ŕ	.026						
Other Retail		•							
Lodging								•	.003
Other Services									•
Transportation	•					•			
Electric Energy									.003
Other Utilities							.003		.004
Contract Construction						.007			.005
Rentals & Finance									.005

Industry Purchasing The stock Dairy doing to do to the

.003

.041

.061

.005

.030

Other lculture

.010

..003

.003

.003

.003

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

orher Hining 400d to

abet dod Other ufac

.005

.004

.008

.004

.003

.004

		A 12
	·	
	Range Livestock	
	Feeder Livestock	.005
	Dairy	
	Forage, Feed & Food	
	Forestry	
	Other Agriculture	,
	Coal	•
	Oil & Gas	
	Uranium	
	Other Mining	
	Food & Kindred	
	Lumber & Wood	
	Printing & Publishing	
	Other Manufacturing	
	Wholesale Trade	
	Service Stations	
	Eating & Drinking	
	Other Retail	
	Lodging	
	Other Services	
	Transportation	
	Electric Energy	
	Other Utilities	•
•	Contract Construction	
	Rentals & Finance	

.004

.003

.003

# 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 Producing		<b>A.</b>				ation			, tor
Industry Purchasing	Wholesale	Rating of the Los	contractors	clong other	ices gransp	alectric	ed other	Contract	Friction 18 thance
Range Livestock	.004	.008	.003	•		.003			.008
Feeder Livestock		.005		•				,	.005
Dairy	.003	.006	004		.006	.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		•				•			N.
Printing & Publishing		•		•	•				000
Other Manufactur <b>in</b> g					.003	.003			.003
Wholesale Trade			7,		·.	<b>-,</b> 399·			
Service Stations			•				•	•	
Eating & Drinking		.027				221	001		.004
Other Retail						.004	.004		.005
Lodging		•			• •	.003	*	•	.003
Other Services					205				.003
Transportation			.003		<b>.0</b> 05	000		•	.003
Electric Energy			•		0.02	.003			.004
Other Utilities			•		.003	.003		.004	.004
Contract Construction					.004			.004	.003
Rentals & Finance			•	.004					. 004

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		•	Reed Chops	.√e				
Industry Purchasing	RATES DE	TOTAGE	Rotestry Other	theulture of Cas	<b>Trantum</b>	Other pining rood the	tumber of	Other utactu
Range Livestock	.022	.026						
Feeder Livestock	.010	.084		·			. •	.004
Dairy		.095					. ,	.009
Forage, Feed & Food	•		,	*		•	:	.005
Forestry			e e e			,		.004
Other Agriculture	· ·	.033	.005					.007
Coa1			•			t		.004
Oil & Gas			·	023				.007
Uranium		•		•	.025	,	.003	.018
Other Mining	,	,					•	.005
Food & Kindred	02	3 .013	064			.005		.005
Lumber & Wood			011		•		•	
Printing & Publishing	,	÷.				•		
Other Manufacturing		ŧ		.007				
Wholesale Trade			•	•				.003
Service Stations	• •		,					•
Eating & Drinking	à.			,		•		
Other Retail		,	4		•			
Lodging			· · · · · · · · ·				·	,
Other Services					•			
Transportation			***.	• ` `		,		
Electric Energy		•					<b>*</b> 2 .	
Other Utilities	•		:					
Contract Construction	٠.		·			•	.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							, clot			200	
Industry Purchasing	Wholesale	Rating big	other a	Securice	tions there	ces Transpi	Alectric	ced other	Little's Contract	Rental	Anance
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			005	
Food & Kindred						.006	.014	•		.005	
Lumber & Wood			•	•			.006			.003	
Printing & Publishing		٠.					.004			005	
Other Manufactur <b>ing</b>			,			.003	.011	001		.005	•
Wholesale Trade	,			1.		.005	.463	.004		.006	
Service Stations				•		•					٠.,
Eating & Drinking			.026	,			.007			.003	
Other Retail	•	٠				•	.005	•	٠	001	
Lodging	,				<i>*</i> :	· • ·	.003		•	.004	
Other Services				·	•		.009				
Transportation			,	f then		•	.013			201	
Electric Energy			•		",		.004			.004	
Other Utilities							.016		000	.005	
Contract Construction	. *•				.003	.010	.004	,	.008	006	
Rentals & Finance					.003		.003			.006	

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 Producing		•		Reed ors		.0,			,	. ·	
	Industry Purchasing	Pante Part	Daley .	ROLDER!	hod Cr.	other other	Leuleure of Cas	Urantum O	ther ning	Rood Hadre	Limber &	Other
	Range Livestock	•		.042								.005
	Feeder Livestock	.005		.080								<b>. 0</b> 06
	Dairy		.003	.007								.006
	Forage, Feed & Food	(				•		,	,			<b>. 0</b> 06
	Forestry			,			•					.007
	Other Agriculture			.032		.003						.005
	Coal									•	.005	.006
è	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			4 .			<b>.0</b> 05		,			<b>å</b> .
	Wholesale Trade				<i>p</i>		•					
	Service Stations	•	•		•							
	Eating & Drinking											
	Other Retail	•							·		4	
	Lodging				• •		•					•
	Other Services		or i							· •	٠.	•
	Transportation	•								· ·		.004
	Electric Energy								,			*
	Other Utilities	•								1. 1		
	Contract Construction	*f			•			i	•		1	,004
	Rentals & Finance								٠.			

# 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							tion		• ·	. ot	
Industry Purchasing	who trade	Rat Ins	inking other	sti service	tions other	vices Trans	portarion portarion	ted other livi	Littes	Pentale Rentale	Rance
Range Livestock	.005		.012	.005		.004	.009			.014	٠
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 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	.008	.003			.003	,
Lumber & Wood						.004			.003	.004	
Printing & Publishing			•		.003	.003				.003	
Other Manufacturing		. :	.004		.003	.007	.003		.004	.005	
Wholesale Trade		•	•	<b>&gt;</b> .			<b>~.</b> 459 '				•
Service Stations	,			•						.004	
Eating & Drinking			.028				•			.007	•
Other Retail	•						.003	.004	×		
Lodging		,	003			· ·	.003	•	.003	.006	
Other Services			•				005			.003	•
Transportation	gamente 1917 11			.003		.007	<b></b> 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	

Industry Purchasing	Rance Vives	redet ate	Dalry	40theed	od corror	46	gerable car	Crops Fore	Other Asri	Culte Urant	de Cobbe	other of the	TUR GOOD A	indr
Range Livestock Feeder Livestock	011	,		018		•			V				.003	•
Dairy.				017									.003	٠
Forage, Feed & Food												•		
Cotton													.017	•
Vegetables											,		*	
Citrus Crops							,				,			
Forestry						•						*	000	
Other Agriculture	•	•		008	•			. ,	.003	. 01.5		005	.009	
Uranium	,	,		•						.015	010	.005 .006		
Copper Other Mining								•		,	.012	.047		
Food & Kindred		.006		,	005		005	•				.047	.013	
Lumber & Wood		.006			005	•	.005	033				.006	.013	
Furniture & Fixtures								033	•			.000	•	
Paper & Pulp	1												•	
Chemicals	•			•					•	4		.010		
Primary Metals				•						•	074	.010		
Printing & Publishing	i.											•	,	
Fabricated Metals	•							•				.028	, .	
Textiles & Apparel				•			•					•		
Leather & Leather g <b>ood</b> s	3							•					.010	
Stone, Clay & Glass													•	
Other Manufacturing	•			•			,	•					.006	
Wholesale Trade									ν.					
Service Stations			÷	~ .	;	,	•						206	
Eating & Drinking		· <b>·</b> ,				•	,	•				*	.006	
Other Retail		•												
Agricultural S <b>ervices</b> Lodging	•	•							•					
	*													
Other Services Cransportation				,						٠,		000		
llectric Energy			·							• •		009	•	
Other Utilities										4.p				
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

Produci	ng	٠.				f+ 02	ծ ՝	<b>&amp;</b>	code	cled .	4178		
Industry Purchasing	Limber 4	Paper Pull	Chemical	e erinary	Ala Printing	ight to the	die gethal	atel teathe	the stone of	legs other	ufacturing	de seratce in	ons tating
Range Livestock		***************************************	territories de la constitución d									*	****
Feeder Livestock				ı								•	·
Dairy Fred C Food			000							•			•
Forage, Feed & Food	•		.030							,			
Cotton			.015							.009			•
Vegetables			.012	•					,				
Citrus Crops			.013							.003			•
Forestry					•							• •	
Other Agriculture	000		005			000		•			020		
Uranium	003		.005		005	.009			008	.010		~	
Copper			.007		.005	006		٠.	010	.007			
Other Mining	,	.009	.005		.007	.006			.010	000	000		.003
Food & Kindred Lumber & Wood	•	.009			.008		*			.008	.028	,	
Furniture & Fixtures	005	.016								005			,
Paper & Pulp	÷.094	.009			•					.005	.005	•	•
Chemicals	F. U34	.009	.008		•		,		,	.004	•		•
Primary Metals			•000	.010	.004					.004			٠,
Printing & Publishing		.044		.010	,004					•000	,005	.005	
Fabricated Metals		• 0		022		021		.*		011	.003	.005	
Textiles & Apparel				.023		.021	007			.011	.007		٠.,,
Leather & Leather good	la						.007 .022	•	.010	.008			•
Stone, Clay & Glass							.022	•	.018			· .	
Other Manufacturing	••		.006	.007	.004			•	.007	.010	,		
Wholesale Trade	f		.000	.007	.004				.007	.099			
Service Stations						,			•	.077			,
Eating & Drinking					•	•		,			•		٠,
Other Retail	•			028		.004			•		.023		
Agricultural Services											•	<i>:</i>	
Lodging		,	•			·					.003		•
Other Services								•		•	. 004	6	
Transportation										.004			* 1
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)

	•	•		pic Oic		Sila Sub-Ba				
Industry		ASTACULT	Lat.			•			Liucidon Renta	Pie.
	,	. X	, L. B	other u	•	Potion siecti	ed other 12	tiles contra	, cur	. કુ. કુ. કુ. કુ. કુ.
	other per	ath acid	1,00 %	no st	ces Italia	Rotor sleets	ed other 1.	the train	Cruck's Renta	Inence
Industry	other	hot get	1098	other th	V. C.	are attended	in others	COLLOUS	~ &et 4'	Y.C.
Purchasing				0 50		Ex				
Range Livestock		,			.012				.009	
Feeder Livestock		008			.018					
Dairy									.004	
Forage, Feed & Food		010				.005			.004	
Cotton		007				.009		•		
'Vegetabl <b>es</b>		ř			<b></b> 076	.013		•		
Citrus		009				.003				
Forestry					.017				.006	
	010	008		•	.004	.007			.003	
Uranium				007	.020	.005	.00,8	.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		٠,		.011	.008	.008	010	007	.011	
Primary Metals				.003	.009	.011	.013	.006	.020	
Printing & Publishing				.00€	.007	.009	.004	,	.007	
Fabricated Metals				120	.010	.011	.008		.013	
Textiles & Apparel				.005	.003	.005	.003		.005	
Leather & Leather Good				000	005	.005	.004		,006	
Stone, Clay & Glass	.005		•	.003	.005	.005	006		.006 .004	
Other Manufacturing	00/	•		.004	.006	.009	.006		.004	
Wholesale Trade	.004		.004		005	.005		.004	.008	
Service Stations			7	.009	.005			.004	.003	
Eating & Drinking		•		.009	.007		•	•000	.004	
Other Retail	٠				.007				.000	
Agricultural Services Lodging				.003		•		.003		
Other Services	.004		•	.003				.005		
Transportation	. 004	,							.004	
Electric Energy	.005				.005	.009	• 004		.006	
Other Utilities	.003	*	.003	.012	.003	.003	.004	.003	.005	1,
Contract Construction	.005	•	.005	. 012	.003	005	. 004	• 003	• 005	
Rentals & Finance					,				.003	
Kentara a Limino									.005	

# 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			The	Gila Sub-B							
producing	8 %	<b>SL</b>			, e9 ·		A	rure		,	
Industry Purchasing	gange gestock	eder grock patry	40t de 4000 Cott	or degeta	CALTUS OF	Rotesti	orher period	JI. Trank	de copper	Other 108	ood Lindr
Range Livestock											
	011		090	•					·	·	
Dairy			161					٠			
Forage, Feed & Food					·				•	,-	
Cotton									•		
Vegetables										٠	
Citrus Crops								•			.003
Forestry	•			<b>,</b> ,							
Other Agriculture	`.		017								.004
Uranium	,							.010	•		.005
Copper *		, .					•		.010	.007 -	.008
Other Mining			004					·	.003	.050	
Food & Kindred	• (	.008	004	.010	.004		.003				.007
Lumber & Wood						017					
Furniture & Fixtures		i	,		•						
Paper & Pulp		ı				,				020	
Chemicals								,	020	.020 .004	
Primary Metals								,	030	.004	002
Printing & Publishing											.003
Fabricated Metals		•								,	
Textiles & Apparel		•									
Leather & Leather good	8							•		011	
Stone, Clay & Glass		•			,				•	.011	.005
Other Manufacturing						•				.006	.005
Wholesale Trade Service Stations									•	•	
Eating & Drinking		,	,	•		,	.003				.003
Other Retail							.003	,		1, 1	.003
Agricultural Services			•						•		
Lodging				•							
Other Services	,		• •					· · ·			
			•								
Transportation											
Electric Energy				, •		•					

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Other Utilities

Contract Construction 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				•	the	Gila Sub-B	asin (Co	ont'd)				,	
Produci	na								<b>⋋</b> ≎	<b>A</b>	. 5%		
Trouder	برو مبرو	_		. &		respine	્રું હ	્રે ઇ∀ .	L & Goods	324	infacturing infactor	sale service in	
Industry	.4	٠	Chemics	grings	id a principo	the during car	jes gestili	estel Leathe	ather cone co	28 <sup>5</sup> 4.	ntacturi t	ser cere	ofi <sup>5</sup>
Purchasing	Limberd	Paper PuliP	anil	ATIA	all are	ne new co		oat atil	the tone G	in Their	ufir se	age which	470
Taremas Ling	12,40	\$0.50	Cities	45 48	the print	y Garther	Vo. by	` 48° 6	" છે	0,40	Whit I	inde securician	48 0
Range Livestock	\ <del></del>	· ·											
Feeder Livestock													
Dairy										1			•
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	.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 good	ds						.003			•		•	
Stone, Clay & Glass		· .					,		.003			•	
Other Manufacturing		.004	.006	.008	•	.005		•	.005	.010			
Wholesale Trade	ج ۾ بود آسين									.009	.004		
Service Stations			· .		.003								
Eating & Drinking	•				.003	• •	•				.003		
Other Retail				1	.003					.003	020		
Agricultural Services		•											,
Lodging						••					00/		
Other Services										4	.004	€ .	
Transportation													
Electric Energy					•	. *				••		•	
Other Utilities	000					0/0			055	.003		.003	
Contract Construction	003				,	.042			.055	,		e de la companya de l	
Rentals & Finance						41					3		

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)

						the Gi	la Sub-B	asin (Co	ont'd)		
•	Industry Producing		il golge	Tal						Tuckion Renka	ę <sub>s</sub> ,
	Liouderiig	· .	۸. ۵	Y'CO'S	d <sub>n</sub>	· 6	56.	Ç .	Les Lo	Jick,	ُ جي ج
		Other Rete	A LACO	rices raices	orther of	ce <sup>s</sup> Transpo	ion siecti	red other i	Lities Contract	Tucki Renka	Inance.
	Industry	Occurse	120 co	4000	Orlivery	440 KB	\$1 age	, origin	, co cour	4. 4.	<b>Y</b>
	Purchasing	\ <u> </u>			- 2			<u>~</u>			•
	Range Livestock									.007	
	Feeder Livestock		003							.005	
	Dairy		.003				.003			.003	*
	Forage, Feed & Food		003				.003				
	Cotton				.003		.004	•			
	Vegetables		.009	,			.003		, F		
	Citrus		005								
	Forestry	1	.003	•			,			.004	
	Other Agriculture	<b>011</b> ·.			•		.012		٠.	.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	
16	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	.004	0.05	. 003	.005	
	Fabricated Metals	.005			.005	,006	.009	.005	000	.003	
	Textiles & Apparel	.006	,	•	.005	.004	.006	.004	.003	.007	
	Leather & Leather Goo	σs	, ,		.003	· .	.008	.003		000	
	Stone, Clay & Glass			•	.003	00'3	.006	.003		.003	
•	Other Manufacturing	.003		.003	.004 .003	.003	.006	.005	•	.003	
	Wholesale Trade	.005		.003	.003	.005		.003	,	.005	
	Service Stations				***	*					
.	Eating & Drinking		•	4				•			
	Other Retail				000		•				,
	Agricultural Services		•	•	.003						
	Lodging Other Services				.004						
	Transportation		•			•					
	Electric Energy			•		•	.010	.003			
	Other Utilities				.003		.010	.003			••
	Contract Construction				.003	003		.003			
	Rentals & Finance				003	.003			.003		
	Wetter a Limite	4			.003				.003		

q'

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

Industria					the Gi	la Su	b-Bas:	<u>Ln</u>			•			`;
Industry											, Le			
producing	Range West	geedet este	₹.				vegetar	Tes		estry Other	Leu Trans			•
Industry	de est	i het ave	Dairy	GOT GEE	₩ .	C.	tal		ું _ ૭	est let	ren si	Cobb	er Orher	ains od vindr
Purchasing	Rankital	Ree Lives	Date	got gee	ood corro		1000	CALCA CA	OB 401	orth Asi	Ura	Cos,	orh.	ring Rood Kindr
		<del>- 1</del>		· * * *	00								- 2	<u> </u>
Range Livestock														.003
Feeder Livestock	011		٠.	019		•							1	.008 .005
Dairy				018							4	`	.006	.005
Forag <b>e,</b> Feed & Food Cotton												•	.003	.018
Vegetables													,005	.010
Citrus Crops		•											.003	.003
Forestry								•						
Other Agriculture		.003		007						.003			• •	.014
Uranium											.015	•	.010	·
Copper											1	.013	.009	.003
Other Mining												.004	.068	
Food & Kindred		.009		:	004			.004					.019	.003
Lumber & Wood				•					032					
Furniture & Fixtures			.*				•							•
Paper & Pulp	1								191	. ,			201	
Chemicals										•		050	.024	003
Primary Metals Printing & Publishing			,							·		058	.022	.003
Fabricated Metals	1			•					•	•		017	.037	
Textiles & Apparel												017	.037	
Leather & Leather goods	<b>a</b>	.004				•								.016
Stone, Clay & Glass		•••						•		•			.013	,
Other Manufacturing				•		•					.006	.006	.008	
Wholesale Trade	******												•	
Service Stations						• '	•	,						
Eating & Drinking					·		• .							
Other Retail			*		•				•					
Agricultural Services														
Lodging		•							•					
Other Services			,										009	
Transportation Electric Energy													009	
Other Utilities		•				•	٠.				4			
Contract Construction												.010		-,004
Rentals & Finance								•		•	•			
t_1									_					

#### 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					the (	Gila Sub-1	Basin (Co	nt'd)					•
Produci	na								ኢዓ	4	080		
1100001				o,		ne grind	, ed	ૂ ઇવ્ય	the store of	104	stacturing and read	e	A :
Industry	Ludger	-4	Chemica	le <u>Prina</u>	ch is reiner	Up 31, 10	ied gerthe	ate leating	stier store of	49 <sup>5</sup> 4	stacture lead	serialistati	olig V
Purchasing	This Cod	Paper Puls	e diff.	1712	call strict	973 Sept. X	ar areas	ar atri	the found	ass other	uno ira	Se 243, 253	KAL
	42 40	* &	Chi	Sec. 40	s, St. So	\$ 40 40	Ve Pix	4,46,	, २, ५	0.48.	Mr. L.	Se Se	40
Range Livestock				<del></del>			,				<del></del>	<del></del>	
Feeder Livestock			.006							.005	.003		· ·
Dairy			.013							.004	•		·
Forage, Feed & Food			.031		•					.005			
Cotton		•	.016							.015	.003		
Vegetables			.012					•					ν
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	<b></b> 095	.011			.003				,	.008			.004
Chemicals .		•	.009	•	.003				.003	.009	.005		.003
Prim <b>a</b> ry 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 good	is	.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	-	•			028	.005			•	.007	.024		•
Agricultural Services		*										•	
Lodging							,			.006	.006		
Other Services	,							*.		.007	.005	(	
Transportation										.010		,	٠.
Electric Energy						.003	•	٠,		.009			
Other Utilities			¥							.009	.005		
Contract Construction						.014			.023	.013		<b>.</b>	
Rentals & Finance													4*

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)

				the Gi	.la Sub-B	asin (Co	nt'd)		
Industry	Other Retail Action	. Lar					,	L' Renta	•
Producing	Other perality	Lines	orige raice	,s 	ton siecti	Ç	Liles Contrac	, truckie Renka	Lance
	at at the	3 3 CC 8	√20 € CE	s so	or ex	A &	F. 160.	ور الأراني	Lance
Industry	orthoeth partice	itices 1000	the Ay	acathar	ion siett	ced other 1.	COULT	Det s'	100
Purchasing	0 4 4 2	45	. 0° 50°		jor slectr	0 1/2	- 0 %	, V	٠.,
Range Livestock		(		.014				.013	
Feeder Livestock	012			.024	.004			.008	
Dairy	006	•		.005	007			.008	
Forage, Feed & Food	010		.003	.005	.008		•	.009	, N
Cotton	.006		.003	.005	.013	.003	,	.006	•
Vegetables				.076	.016		·	.004	
Citrus	009		.005	.004	.006		•	.007	•
Forestry	.003	•		.018				.007	
Other Agriculture	009010		.003	.007	.011			008	
Uranium	•		.004	.025	.011	.0 <del>1</del> 1	.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 Good			.015	.007	.010	.006	.006	.013	
Stone, Clay & Glass	.009		.008	.016	.015	.008	.009	.034	
Other Manufacturing	.004		<b>.</b> 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	٠.
Electric Energy			.004	.008	.015	.007	.005	.010	
Other Utilities	.004	.003	.015	.005	.005	.006	.006	.009	17
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

_			Range Restrock Datry Rotage of Corton Jesetables Cititals Rotestry Other Charten Confer Other Pool Study												
	Industry		•			•									
	producing	g	×					6		А	LUC				
		_	,0 <sup>C</sup>	20℃			•	<u>ئ</u>	۵.	50	.S <sup>v</sup> .	<b>Ø</b>	,	100	
Industry		RANGE LIVE	rock reeder	cot pairy	to tage	god corror	vegetal	ole citeri	one Rote	other other	ditto Urani	de Coppe	Other of Win	26 & 4 X	
		08 Up 346	266, 462	- 27.	ROLAGE	tood corror	. 4	250	0.0°	other.	1705	<b>20</b> 5,	or his as	tood Aind	
Purchasing	g \	A. A.	4 44	D	<b>₹</b> ° ₹°√	60 CO	40	. O C		0 800	2	G	0.45.	€0 A.	
Range Lives	tock														
Feeder Lives		010													
	SLOCK	012			097										
Dairy			004	004	168									•	
Forage, Feed	d & Food				005								.012		
Cotton													.009		
Vegetables													.004		
Citrus Crops	<b>2</b>			*	003					•				001	
Forestry	•				003								.005	.004	
-	4.														
Other Agricu	ilture				024								.004	.007	
Uranium											.010		.015		
Copper				•.								.013	.014	.010	
Other Mining	2											.009	.085	.003	
Food & Kindr			.010	.009	034	003	.010	.004		.003		.009			
Lumber & Woo			.010	.007	034	003	.010	.004	01.5	• 003			.003	.011	
									017				.003		
Furniture &															
Paper & Pulp									008						
Chemicals													.041		
Primary Meta										•		016	.021	.008	
Printing & P	Publishing								•				-	.004	
Fabricated M										*		.012	.039	.001	
Textiles & A												, 012	.039		
Leather & Le					000										
		3			009									.003	
Stone, Clay		•											.029		
Other Manufa												.007	.015	.007	
Wholesale Tr		•							•				.003		
Service Stat	ions														
Eating & Dri	nking				003					002				.002	
Other Retail					.005					.003				.002	
Agricultural															
Lodging	DOIVICOD														
Other Servic															
Transportati															
Electric Ene	rgy										**				
Other Utilit															
Contract Con												004	.042		
Rentals & Fi										•		.004	.042		
<b>_</b>															

### 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				the Gi	i <b>la Sub-</b> B	asin (Co	nt'd)					
Producing								C oods	4	, DE		
\			^		4 00	8	4	م کام	184	NY.	e	
Industry Purchasing	ን	Chemical	grinari He	dia Printing	igning to the ra	s sextapp	rel reather	the stone of	age sther ou	And trai	se service to	ns setines
Purchasing Light Hoo	Paper Puls	S SHIFT	Jug.	els printing	20 7 7 8 Y	, 4, 26	agir a	the folia co	athe au		Se Star Serve	Rational Drin
Toronto Trig	4. 4.	Citie	St. 46	\$4, 50.	to the	do by	18 160	9° 4	0.48.	Mr. Cr.	Sp 22	\$2 Dx
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 & Fixtures027	.012			.007	•••			•	.012	.011	.004	
Paper & Pulp108	.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	•02,		.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		i i	.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	• • • •				•				•	•023		
Lodging					.003			.004		.004		
Other Services		,							.005	.005		
Transportation				.004	.003				.005			
Electric Energy	.005			.004								
Other Utilities									·· <b>.</b> 006	.003	.004	
Contract Construction004		.005	.006	.004	.065			.093	.013	.005	7	
Rentals & Finance		-			.003			.004				
16												

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)

			A		the G1.	ra Sub-Ba	arm (con		
Industry Producing		AST SELV	Tal			4			Pertain Pertain
Troducing	Other Reta	A sile	ices rodsing	other vic	es granago	on siectri	ed other 11th	les contract	Perty line
	her to	Trac to	A AGIT	Other wic	rango,	on Riecter	ed other 11's	ORKILES	C. CILLAIRE
[ndustry Purchasing	Or to	Pop co	3,000	oricer	Vic for	RIL RILE.	OFTER	Co Cor	40 4 h
		<del></del>				***************************************			
Range Livestock	20.5								.009
Feeder Livestock	005	011				221			.004
Dairy Forage, Feed & Food	008	012		001	226	.004	000		000
Cotton		003		.004	.006	.008	.003		.008
Vegetables				.007	.006	.008	.005		.009
Citrus		001		.004	.005	.006	.003		.007
		004		.004	.004	.006			.005
Forestry	010	.003		00.5	224	0.1.0		000	.005
Other Agriculture	010			.005	.006	.019	.005	.003	.010
Uranium	227		000	.010	.017	.038	.010	.018	.021
Copper Other Mining	.007		.003	.022	.027	.015	.015	.011	.016
Food & Kindred	.014		.009	.019	.042	.053	.015	.018	.061
	.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	1.0		.004	.006	.020	.022	.009	.044	.014
Chemicals	.008		.003	.012	.021	.020	.010	.009	.030
Primary Metals	.010				.025	.020	.016	.015	.025
Printing & Publishing	.005		.003	.007	.008	.009	.005	.006	.011
Fabricated Metals	.009		.004	.013	.018	.023	.013	.009	.021
Textiles & Apparel	.007			.008	.007	.010	.006	.006	.011
Leather & Leather Good				.006	.007	.015	.006		.008
Stone, Clay & Glass	.004	•		.008	.012	.019	.008	.006	.018
Other Manufacturing				.010	.011	.015	.010	.003	.012
Wholesale Trade	.004		.004	.007	.009	.007	.007	.005	.008
Service Stations				.003	.004	. 004	.004		.004
Eating & Drinking				.004	.005	.005	.003 ·	.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	.005
Electric Energy	.003			.003	.004	.016	.006	.005	.004
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 Producing		rocit geder	a <b>st</b> ock	good belt	Crops Foresti	Other 12	jalkure coal	Rood Strated	, e <sup>t</sup> d	Printing & line	ie, C1388
Industry Purchasing	Range	466 1124	Dairy	400 tre	₹ort	Okti Agr.		ROOTING.	Truther wood	Prite pull Sto	<del>-</del>
Range Livestock Feeder Livestock		100	016								
Dairy		120	016								
Food and Field Crops											
Truck Crops											
Fruit									•		
Forestry			007								
Other Agriculture Coal			087							.01	Ω.
Oil & Gas				•						.01	O
Uranium			•							. •	
Zinc					•			,			
Other Mining											
Food & Kindred Lumber & Wood	037	.230	060	025		011					
Printing & Publishing							•				
Fabricated Metals	•								•		
Stone, Clay & Glass										¢	
Other Manufacturing										•	
Wholesale Trade Service Stations						,					
Other Retail											
Eating and Drinking P1	•							.019			,
Agricultural Services				•							
Lodging						·					
Other Services											
Transportation Electric Energy							.007	•			
Other Utilities		*					.005			Y	
Contract Construction									1.		
Rentals & Finance											

Rentals and 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	l)`	^			
Industry Producing	Other utac	turing sale	٠	Not geral	, 6°	1) Ace <sup>8</sup> Transpor	kakiou ci	ن م	Lies Contra	extriction as a ce
Industry Purchasing	Othernsta	turine sale	Other Retail	Not Getal	other of	Tranti	wieckri	other 12	Concon	Rent int
Range Livestock Feeder Livestock Dairy Food & Field Crops Truck Crops	,									
Fruit				003						
Forestry Other Agriculture	010								•	
Coal Oil & Gas	019 008	009		,						•
Uranium Zinc			•							· ·
Other Mining Food & Kindred Lumber & Wood Printing & Publishing						·		•	,	•
Fabricated Metals				4					•	
Stone, Clay & Glass Other Manufacturing						•				010
Wholesale Trade										.013
Service Stations Other Retail Trade Eating & Drinking Pl.		.006				004	,			. *
Agricultural Services Lodging										005
Other Services Transportation					.003		.004	.004		.004
Electric Energy Other Utilities				,				.003	.012	.005 .003
Contract Construction										.010

·	•				•			·
Industry Producing	o. v	ock redet estock	્	Crop\$	other til	alture.	, 4.88 .44	grinting grone ch
Industry Purchasing	RATERIA	Geedine Oak	ry Rookies	d Crovesti	Othe Ret		ood trated Light wood	Printrol Store
Range Livestock								
Feeder Livestock	003	,						
Dairy			,					
Food and Field Crops					•		•	•
Truck Crops					•			
Fruit	•							•
Forestry Other Agriculture	٠,	•	•				•	. •
Coal							•	
Oil & Gas		,				• •		•
Uranium				•				
Zinc								
Other Mining								
Food & Kindred	004	.014	007		<b></b> 013 . ·			•
Lumber & Wood						•		,
Printing & Publishing Fabricated Metals								•
Stone, Clay & Glass								
Other Manufacturing				.042			.014	•
Wholesale Trade				• • • • • • • • • • • • • • • • • • • •				,
Service Stations			•				١	
Other Retail								.003
Eating and Drinking Pl.					٠.,	.0	20	
Agricultural Services		• •						•
Lodging								
Other Services								<i>,</i>
Transportation Electric Energy						.004		
Other Utilities						.004		
							**	

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Contract Construction Rentals & Finance

# 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)

			4		~	ton		•	^	
	Industry	§	Enring ale	, Sti	ta.	portat.		يو <sup>اي</sup> ۾وڙ	derion 3	ب پي رو
	Industry Purchasing	Other	de lindes de	other persial hericulti	other Trans	aportation alecti	Other 1	contract	Retrait	ARTICE .
	Range Livestock Feeder Livestock Dairy Food & Field Crops									
	Truck Crops Fruit			007					,	
	Forestry			-,007					•	
	Other Agriculture	.020	•	018						
_	Coal Oil & Gas									
71	Uranium									
	Zinc			•	•					
٠	Other Mining		* * * * * * * * * * * * * * * * * * *							
	Food & Kindred	.005							•	
	Lumber & Wood				,'		.003	•		
	Printing & Publishing	.018				•		•		
	Fabricated Metals			,	011	.006	.003	.007	,	
	Stone, Clay & Glass					·				
	Other Manufacturing				.003 .029		.012	• •	.019	
	Wholesale Trade	.005			. ,003					
	Service Stations			• • •	,	'		•		
	Other Retail Trade	.004			004					
	Eating & Drinking Pl.		.004		,			.004		
	Agricultural Services	.004		•				٠.		
	Lodging	000	001					.007		١.
	Other Services	.003	.004			.007	.008			
	Transportation	002	•			006			.004	٠.
	Electric Energy	.003				.006		006	.004	
	Other Utilities	•		•	•			.006	.004	
	Contract Construction Rentals and Finance					,		.009	.006	

### 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 Producing	RATE BEST	Reeder 111	gkock	,	crops Forestry	Other heric	alture		, to	\$ 65 \$	e in	ing aning	် (၁
Industry Purchasing	RATINES	4000117	- Datry	400g to 12	- Port	Othe Age.	COST.	Other ning	400d by te	Light Hood	Prin.	600, 640, 4	<b>,</b>
Range Livestock Feeder Livestock Dairy Food and Field Crops Truck Crops Fruit	003 118 .004	.040	027	003					.006				•
Forestry Other Agriculture Coal	.008	.025	094					905			. ,	.018	• *
Oil & Gas Uranium Zinc Other Mining							* * * * * * * * * * * * * * * * * * * *					,	
Food & Kindred Lumber & Wood Printing & Publishing Fabricated Metals	.110	.244	063	021		011			.037				
Stone, Clay & Glass Other Manufacturing Wholesale Trade Service Stations			•							,	•		
Other Retail Eating and Drinking Pl. Agricultural Services	.018	.030	005	· · · · · · · · · · · · · · · · · · ·		,		, ,	. 024				
Lodging Other Services Transportation Electric Energy	.003	.007					.009	٠.	. ,				,
Other Utilities Contract Construction Rentals & Finance					t.	•	.005						

### 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 Producin	other uti	cturing	le orneterationalization	, ruices	ckarlon cic	٠. ١	contract	Lickhoft als de Rentalisates
Industry Purchasing	Othernif	acturing less	le Ornet gerall her celtures Ornet	Traft.	4.1ectrate	Other 111	Contonel	Pert Atre
Range Livestock Feeder Livestock Dairy Food & Field Crops Truck Crops		٠.	003005			· ,		.003
Fruit				,				
Forestry				,				
Other Agriculture Coal	022 .007	.009	009	006				,
Oil & Gas	.007	.009			•			
Uranium							74	
Zinc			•				,	
Other Mining								.009
Food & Kindred Lumber & Wood				.004	•	,		•009
Printing & Publishing	•		•		•			,
Fabricated Metals	•						,	,
Stone, Clay & Glass			•			,		
Other Manufacturing	•					.003		.015
Wholesale Trade Service Stations	•		en e	. •	,			
Other Retail Trade				005				
Eating & Drinking Pl.		.007			•		.005	.005
Agricultural Services						•		006
Lodging	•		.004		.005	.005		.006
Other Services Transportation	,		.004		•005	.005		.006
Electric Energy		•	•			•	.004	.007
Other Utilities	.003			;		.004	.018	.005
Contract Construction Rentals and Finance					, ·		.013	.015

### 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 Producing		oct «	Kock.	good bel	८५०१० १५५	other led	Litte	· •	8 . 5	od geingines	ains ci
	Industry Purchasing	RATE DE ST	reeder de la	- Dalty	400 the	4 Crop estry	Other Agrice	coal	400d the	Limber 100	reinerine de	Stone Gr
	Range Livestock					•						
	Feeder Livestock Dairy	.004										
	Food and Field Crops Truck Crops					.004						•
	Fruit									• ,		
	Forestry Other Agriculture	٠,	•		•		•		•	•		4
	Coal		,						•			
	Oil & Gas											
174	Uranium					•						
•	Zinc	•								٠,	• • •	
	Other Mining						•		,			
	Food & Kindred	,	.015	•	007		.014				•	•
	Lumber & Wood							•				
	Printing & Publishing					000				•	, ,	
	Fabricated Metals Stone, Clay & Glass					.003			•			
	Other Manufacturing	•				.048				.014		
	Wholesale Trade					.040				4027	•	
	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)

					(cont d)	, 00			
Industry	Other Hames	178	otiet ketali ket ser	tar	dices Transpo	-8K2			Liuctlon Rentaliance
Producing		rue are		ry es	es of	,	·	Les ac	Section Section
	A 60	cturine sale	other perail her ger	dice other	rices granapo	electric	ced other 12	ties contrac	tricet Rental 3 to
Industry	orthe duit	Mortal	Other Retail Agrico	ornee?	4.4.2	1 e de	Chilly	COLOS	46, 4y
Purchasing	0 40		00 1 1 0	-	-	4 4			
•									
Range Livestock			.003						.003
Feeder Livestock									.005
Dairy	.003	• •					•		
Food & Field Crops					.004				.004
Truck Crops	.004				•				.004
Fruit	.003	•	007		•				
Forestry				٠.					
Other Agriculture	.021	•	017		· ·				.003
Coal ·	•				•				
Oil & Gas						.003			
Uranium								•	
Zinc			·						
Other Mining									
Food & Kindred	.006			•		.003		,	.006
Lumber & Wood	•	•	- 10 mg		•		.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	٠			•
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	i				,			.018	.010
Rentals and Finance			•					*	
			r						

### 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 Industry Purchasing	Range Livest	oft patri	Rield Crops	<sub>gru</sub> k gotest	otile kericulture	, 011 6 Cat	Trutted 400 Link	red principle blick
Range Livestock Dairy Field Crops Fruit Forestry Other Agriculture Coal	006	Plan Processor subsides	l			<b>Q</b> aditood-v-darkera		
Oil & Gas Uranium Other Mining Food & Kindred Lumber & Wood Printing & Publishing Stone, Clay & Glass Other Manufacturing		.038	011	.006	010		.012	
Wholesale Trade Service Stations Other Retail Trade Eating & Drinking Pl. Agricultural Services Oil Field Services Lodging Other Services	189						.018	
Transportation Electric Energy Other Utilities Contract Construction Rentals & Finance			·		.008	.022		

### 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)

	` )	,	(Cont'd)				
Industry Producin	ng cies	deturine de la desa	e ·	plitutal setates	ie <sup>a</sup> Transportat	yor ,yor	Linctiton 18 dece
Industry Purchasing	Stone 233 Other parties	Whole	other perall perio	politices setatices	Transt	siectric	Kriect Rentale Rece
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							
Eating & Drinking Pl.		005	004		.004		006
Agricultural Services		.005	.004				.006
Oil Field Services						006	
Lodging						006	
Other Services							
Transportation	,						
Electric Energy							
Other Utilities							
Contract Construction	.003					.024	.004
Rentals & Finance	1003					.024	•00-
That her A T WINGTON			•				

Industry Producing Industry Purchasing	Retice 1110	Join Dairy	A Le Ct of	, grait	Rote Stity Orthe	kericulture cost	012 4 624	Trantin	400d Atri	red Rightin	to Thunder a
Range Livestock	003			•		,		•	-		
Dairy									•		
Field Crops				•		54			*		
Fruit	•										
Forestry		7		•						•	
Other Agriculture Coal				٠.				•	,		
Oil & Gas								•			,
Uranium		•				•	•	.003			
Other Mining	,			-	.010			• • • • • • • • • • • • • • • • • • • •			,
Food & Kindred	010	.030	·014	.007	.00	7	٠.		.004		
Lumber & Wood	•	•					•	•		•	
Printing & Publishing							•	•		* *	
Stone, Clay & Glass										•	
Other Manufacturing			ť				.004				•
Wholesale Trade	,		•	*					•	001	
Service Stations Other Retail Trade										. 004	,
Eating & Drinking Pl.		•			•				.026		
Agricultural Services		•						,	.020		
Oil Field Services	•			•		, .		(			,
Lodging			•	No.							
Other Services			•		•	• .					
Transportation						•					
Electric Energy		,				.009	003				
Other Utilities		•	*				.033		~	*	)
Contract Construction Rentals & Finance			•					· .			013

### 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 Producin	8 ch <sup>27</sup>	Ather Manufacturing	ale	il kericulti	atal.	es c	station strike	د م	netion &	e
Industry Purchasing	Store and	Stiet Manufacture	other teta	i keteeli	other ser	vices Transpi	sil sietti	ced contract	ruckion is to	
Range Livestock Dairy		· · · · · · · · · · · · · · · · · · ·		.003						
Field Crops	•			.030	,				.003	
Fruit Forestry	, ,			030				•	.003	
Other Agriculture	:	•		•			006			
Coal Oil & Gas	•						.006		.003	
Uranium					•					
Other Mining Food & Kindred	٠	•	•			,				
Lumber & Wood										
Printing & Publishing					. *				,	
Stone, Clay & Glass Other Manufacturing		ı					.003		.003	
Wholesale Trade	,				• •	.003		.,		
Service Stations' Other Retail Trade				,		.003				
Eating & Drinking Pl.		.003	.006			.005		,	.009	
Agricultural Services Oil Field Services	, marrie 9 m	•						006	.003	
Lodging					; ;					
Other Services										
Transportation Electric Energy									.005	
Other Utilities								.037		
Contract Construction Rentals & Finance	.005			· .	. •					

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

Industry Producing  Industry Purchasing	stock Dairy	gleld ope grutt	Rotestial other esticulture	Gest granting good this	red ritting ting
Range Livestock011			Andrews and a second se		
Dairy007		•			•
Field Crops			•		
Fruit097 Forestry					* .
Other Agriculture	1			•	
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 P1.	.006	t.	,	.018	
Agricultural Services200					,
Oil Field Services Lodging				•	
Other Services					•
Transportation			•	, `	
Electric Energy			.009	• ,	
Other Utilities .	•		.022		8 000
Contract Construction	•			*	୬ .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	10%	, s <sup>2</sup>		2,100	on
Producing 65°	tur. ale	Kin es	.9 .	K <sup>K</sup>	, ુંદરે ૂ
Industry Purchasing cytone other	ishutacturing other tail herico	tives other	ices granspo	tie the tod contract	Ecucator Atlan
Range Livestock					
Dairy	•		.005		
Field Crops		•	•005		
Fruit	030				
Forestry	,,,,		•	*	.010
Other Agriculture					,
Coal				.003	
Oil & Gas					.003
Uranium		•	.004		·
Other Mining					
Food & Kindred	•		.005	•	.005
Lumber & Wood	<i>:</i>				.004
Printing & Publishing					,
Stone, Clay & Glass	•	٠.			,
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		<i>:</i>	•	007	
Lodging	· · · · · · · · · · · · · · · · · · ·	• .			
Other Services					
Transportation					
Electric Energy					•
Other Utilities	,			050	000
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 Producing	turing ale		tital	ces Transpor	tation.	K. Ckrock
Industry Purchasing	Other Manufacturing out	ketaii petici	trites caices	Lees Transpo	tiestrie	L'Construction Rentalisance
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		206	001	007	004	.003
Food & Kindred Lumber & Wood	•	.006.	.004	.007	.004	003 .004
Printing & Publishing	·	•	.003		•0	.004
Stone, Clay & Glass	, •					.004
Other Manufacturing	ě		.003	.003	.004	.005
Wholesale Trade	· ·-		.003	.004	.004	.004
Service Stations				.004	•	.004
Other Retail Trade			.003	.010	.0	.004
Eating & Drinking Pl.	.004 .00	6	.005	.009	, .	.014
Agricultural Services						•
Oil Field Services					0	.004
Lodging	•		•		.0	.003
Other Services			•		·	•
Transportation			.003			.004
Electric Energy	•			.003		.008
Other Utilities						.003
Contract Construction .012	.005	5	.007	.008	.(	.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		, et		κά	A	. Kure	, g			d trepine	ψ.
Industry Purchasing	Range Lives	Dairy	HAP CLOPS STUIL	GOT BALL	other beit	coal	Oth & G	<b>Trantum</b>	4004 dada	A Printing light	hood
Range Livestock Dairy	003			**************************************				` <del></del>			Ngarantiti
Field Crops										,	
Fruit .											
Forestry	,							•		*	
Other Agriculture			,								•
Coal	•								i	,	
Oil & Gas Uranium								.005		•	
Other Mining			•				•	.005			
Food & Kindred	007	.032	014 .007		.007	,			.005		
Lumber & Wood	007	.032	014 .007	,	.007				.005		
Printing & Publishing			<b>'</b>			•			,		•
Stone, Clay & Glass				,					•		
Other Manufacturing										•	
Wholesale Trade			•		•	•			,	•	
Service Stations								•		.004	
Other Retail Trade											•
Eating & Drinking Pl.		.008					,		.027	•	
Agricultural Services						~					
Oil Field Services	Ammerical all aging of				•				,		
Lodging Other Services			·	•							
Transportation			•			•	.003				•
Electric Energy						.010	, 000				
Other Utilities		•				, 020	.034		,		
Contract Construction				005			.003			, <del>,</del> 0	17
Rentals & Finance											

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Contract Construction Rentals & Finance

### 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 Industry Purchasing	ASTICULTURE ROTESTAY	<u>_01</u> , cs	,3 	Uranium ————————————————————————————————————	ers of	Indred Limber	Principle Store Class	onentcals detro de ale	
	Agriculture Forestry Oil & Gas Coal Uranium & Nonfuels Food & Kindred	030	.009	<b></b> 003	.017	.010	,		.005	
	Lumber & Wood Printing & Publishing Stone, Clay & Glass Chemicals, Petro., Coal & Other Mfg.						.005	.004	.090	
	Wholesale Trade Service Stations Eating & Drinking Other Retail Oil Field Services Lodging Other Services Transportation									
	Electric Energy Other Utilities		· :	.014						

### 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

Industry Purchasing

Agriculture Forestry Oil & Gas Coa1 Uranium & Nonfuels Kood & Kindred Lumber & Wood Printing & Publishing Stone, Clay & Glass Chemicals, Petro., Coal, & Other Mfg. Wholesale Trade Service Stations Eating & Drinking Other Retail Oil Field Services Lodging Other Services Transportation Electric Energy Other Utilities Contract Construction Rentals & Finance

service on other extail out services other other

.004 .004 .004

-.008

.003

.003

### 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							.ced		<b>&amp;</b>	Retto Mes
Producing	Actal.	ture korestr	S Gas	•	Uran lun	4000 y 41	ind Lighter &	Printing aning	chan therical	a ? Other mir
Purchasing	- VST.	Force	OTT	<u> </u>	- Ura ont	- 400G	Timbood -	Printing Stone	cilas dienicoal	Who Tra
Agriculture									222	
Forestry									.003	
Oil & Gas			.006						000	
Coal .	· ·								.003	
Uranium & Nonfuels									.003	·
Food & Kindred	029		,			.008			.030	
Lumber & Wood							.005		,	
Printing & Publishing					•	,		•	.015	
Stone, Clay & Glass				٠ .				.003		
∞ Chemicals, Petro				*	•		, ,			
Coal & Other Mfg.	•	.063	247	7			.012		.003	
Wholesale Trade									.003	
Service Stations									•	
Eating & Drinking			1	•				•		
Other R <b>etail</b>					•	.003			.005	
Oil Field Services										
Lodging			•							
Other Services								,		•
Transportation										
Electric Energy	Tuesday .			.008	.009				.005	
Other Utilities	, *		.003							
Contract Construction										
Rentals & Finance										

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						LOT	·	•	
Producing ·		•				, at		_	130th
	service	-D.9	oil servi	, es	ilces Transpo	Se A		.yes act	13c2 73 9
Industry		you to the said	4 4 A	y wet it	it and t	ekt.	(4) \(\sigma^2\)\(\sigma^3\)	, strate	entalization
Purchasing	5º GYA	or other rati	oth serv	other seri	ites transpo	siectri	ced other 12	contract	tick long and a second
Agriculture		format productions		<del></del>	**********	<del></del>	•		
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	•	t					•		
Eating & Drinking					•				
Other Retail							•		
Oil Field Services		• .		,		•			
Lodging	·					•			•
Other Services									.003
Transportation								•	
Electric Energy	•	•							
Other Utilities					•				
Contract Construction		•			•	,		.004	•.006

.003

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 Producing Industry Purchasing	ASTIC	Lture Porestry	017 688	coal	Ur and Len	Food & L'	Lighted 4	printing of	store dia	as chemica	2 Petro Atale
	Agriculture								•			
	Forestry											
	Oil & Gas		•	.010								
	Coal .		1	• • • • • • • • • • • • • • • • • • • •	'						.005	
	Uranium & Nonfuels			.004		.027		,			.004	
'	Food & Kindred	030					.009				,	
	Lumber & Wood							.005			007	•
	Printing & Publishing			.037			•			,	.091	
88	Stone, Clay & Glass									.004		
•-	Chemicals, Petro.,		•						•		.003	•
	Coal & Other Mfg. Wholesale Trade			.007							.003	
	Service Stations						•					
	Eating & Drinking											•
	Other Retail			•			•	•				
	Oil Field Services									٠.		,
	Lodging								٠			
	Other Services											
	Transportation									•		
	Electric Energy				.015	,						
	Other Utilities		ŧ	.004							*	
	Contract Construction					•	•		•			

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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 Producing		2	<b>xation</b>	a kijob
	Industry Purchasing	secutor other at	orl services orrest rate	es transportation the cities of the till	contract tuction agrication
	Agriculture Forestry Oil & Gas	,			
	Coal				003
	Uranium & Nonfuels	•			.005
	Food & Kindred		.006	.005 .005	.004
0	Lumber & Wood				
0	Printing & Publishing	• •	,	.005	.005
	Stone, Clay & Glass			·	,
	Chemicals, Petro., Coal,		<i>:</i>		
	& Other Mfg.			.004	. 004
	Wholesale Trade	008		201	•
	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		
		•			

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 Producing		.0					ared			4 4	Petro his
Industry Purchasing	Agricult	Rotestry	011 6 (88	coal	drantum.	els el	Timber &	Printing.	Stone 12	, lay cherical	d'ortholesale
Agriculture	•									.003	
Forestry		.003	010							.003	
Oil & Gas			.006								
Coal						•				.003	
Uranium & Nonfuels					.019				,	.004	
Food & Kindred	030		.006					.008		.034	
Lumber & Wood		.003	003				.005			0.0.6	
Printing & Publishing		.007	020			•				.016	
Stone, Clay & Glass		•						,	.003		
Chemicals, Petro										006	005
Coal & Other Mfg.	•	.069	246	;	,					.006	.005
Wholesale Trade										.003	
Service Stations						•				.004	•
Eating & Drinking	•		•				•				
Other Retail						.003				.005	
Oil Field Services				•				,			
Lodging							•				
Other Services	,	··•`									
Transportation			000		010			•		.006	
Electric Energy	į, t		.003	.009	.012					•000	
Other Utilities			.004	100	, ,						•
Contract Construction											
Rentals & Finance											

-

(Cont'd)

Industry Producing							*ation			ritor 4
Industry Purchasing		service of	ns Other ta	i gled	ces orther	vices rranspo	silectric	ed other 12	des contract	ericklon & &
Agriculture		<del></del>			.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,				* 7						
& Other Mfg.		.004	.004	003	.006	.060	.003	.023		.004
Wholesale Trade			.010					•		
Service Stations			•	••			•		•	
Eating & Drinking	100		.014			•				.003
Other Retail				•						
Oil Field Services				٠						
Lodging										001
Other Services					,				,	.004
Transportation	•				•			,	,	004
Electric Energy						.003	4			.004
Other Utilities Contract Construction									005	.003
Rentals & Finance			Ť		.004				.005	.000
Kentals & Finance					.004		•			

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# 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:

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

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:

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

Purchasing		Mining &	•		Total gross
Producing A	Agriculture	mfg.	etc. 1,000 dolla	Demand rs	output
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

Purchasing Producing	Agriculture	Mining & mfg.	Trade services, etc.
Agriculture Mining & mfg.	.105	.054	.002
Trade, services, utilities, etc.	.302	.154	.210

Table CRB-17

ILLUSTRATIVE DIRECT AND INDIRECT INPUT COEFFICIENTS

LOWER MAIN STEM SUB-BASIN, 1960 (transposed)

	Agriculture	Mining & mfg.	Trade services, etc.
Agriculture	1.122	.071	.005
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.

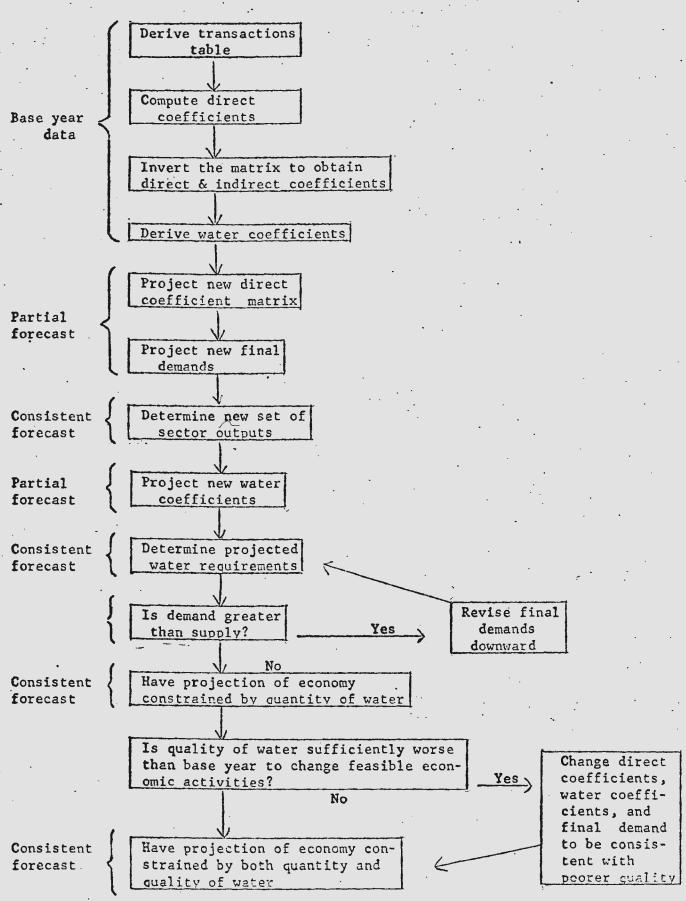
Our projections have been made within the context of a series of ever tightening resource constraints.

- 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, \$129,000, 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:



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.

$$\begin{bmatrix} \overline{1} - \overline{A} \end{bmatrix}^{-1} = \begin{bmatrix} 1.1164 & .0798 & .005\overline{3} \\ .0652 & 1.1881 & .0373 \\ .4317 & .2675 & 1.2594 \end{bmatrix}$$

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

$$\begin{bmatrix}
1.1164 & .0798 & .0053 \\
.0652 & 1.1881 & .0373 \\
.4317 & .2675 & 1.2594
\end{bmatrix}$$

$$\begin{bmatrix}
100,000 \\
125,986 \\
120,000 \\
900,000
\end{bmatrix} = \begin{bmatrix}
125,986 \\
182,662 \\
900,000
\end{bmatrix}$$

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,

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 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. 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 vater 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.
- 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.
- (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 paymetns 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

Changes in cropping patterns resulting from salinity changes may also require adjustmenst of coefficients because of varying fertilizer requirements between specific crops. If shifts are between sectors rathern 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.

- 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.
- 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

O<sub>1</sub>

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:

- 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 damange 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. D	ecreases	in	total	gross	output

1. Direct = \$192,800 2. Indirect = 87,800

3. Total =

#### II. Industrial Damages

#### A. Increased water treatment costs

1. Direct = \$ 18,400 2. Indirect = 5,600

3. Total =

\$ 24,000

\$280,600

#### 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

ı.	Agricul	ture Damag	ges				· ·	
	A. Dec	reases in	tota	al gr	oss output	•		•
	1. 2. 3.			\$	444,800 315,800	\$	760,600	
II.	Indust	rial Damage	es				٠.	
•	A. Inc	creased wat	ter t	treat	ment costs			•
	1. 2. 3.	Direct Indirect Total	=	\$ ·	8,000 1,700	\$	9,700	
	B. Inc	creased wat	er 1	purch	ase costs			
	2. 3.	Direct Indirect Total	=	\$	38,100	\$	38,100	
111.	Househo	old Damages	S					٠
	A. Inc	creased so	ap p	urcha	ses ·		•	•
	1. 2. 3.			\$	34,367 6,133	\$	40,500	•
IV.	Total 1	Direct Cost	ts		<b>=</b>		•	\$ <b>525,</b> 267
v.	Total :	Indirect Co	osts		æ	Party.		<b>3</b> 23,633
VI.	Total 1	Damages			=	å 31€		848,900

#### Table CRB-20

### DAMAGE INJECTION RESULTS

2010 Gila Economy 2010 Water Quality

I.	Agr	icul	ture Damages	•			·	
	A.	Dec	reases in tota	l gross ou	tput			
		1.	Direct	=	\$321,300			
		2.	Indirect	=	168,700			•
		3.	Total				\$490,000	
.*		٠.	10001			• •	4150,000	
ïI.	Ind	ustr	ial Damages	,			•	
	A.		reased water t	reatment c	osts'		· ,	
		1.	Direct	=	\$ 82,400		·	
		2.	Indirect	==	26,900			
	•	3.	Total	=	20,000		\$109,300	
							,	•
-	В.	Inc	reased water p	urchase co	sts	,		
		1.	Direct	<b>=</b> \ \ '	\$515,400		,	
		2.	Indirect	=	0		•	•
		3.	Total	=			\$515,400	
					•	•	7,520,100	
III.	· Hou	seho	ld Damages		•		·	
				· ··		•	•	•
	A.	Inc	reased soap pu	rchases				
	•	1.	Direct	=	\$6,262,191		,	
	•	2.		=	1,426,209			
	•		Total	=	2, 120,200		67.600.400	
		•	10041	_	٠.		\$7,688,400	
IV.	Tot	al D	irect Costs			·		<b>\$7,</b> 181,291
					. ,		•	
v.	Tot	al I	ndirect Costs		•			\$1,621,809
								72,022,000

\$8,803,100

Sum of the TGO's on the Gila 2010 Unconstrained Table:

Total Damages

VI.

\$32,749,158,000

# Table CRB-21

### DAMAGE INJECTION RESULTS

2010 Lower Main Stem Economy 2010 Water Quality

			•										
ı.	Agr	icul	ture Damag	es .	-								
	A.	Dec	reases in	tot	al gro	ss c	utput						
		1. 2. 3.	Direct Indirect Total	= =	\$	•	94,500		\$		5,507,400		
II.	Ind	ustr	ial Damage	s			•						
	Α.	Inc	reased wat	er	treatm	ent	costs			·		•	
		1. 2. 3.	Direct Indirect Total		\$		.26,200 <b>44,</b> 400		<b>\$</b>		170,600		
	В.	Inc	reased wat	er	purcha	se c	osts						
		1. 2. 3.	Direct Indirect Total	=	\$		51 <b>7,</b> 900	) )	\$		617,900		•
III.	Hou	seho	1d Damages					,				•	
	A.	Inc	reased soa	p p	urchas	ses				•			
		1. 2. 3.	Direct Indirect Total	=======================================	\$		84,792 15,208		·\$		100,000	,	
IV.	Tot	al D	irect Cost	s			<b>=</b>	18	•••			\$ 3,841,7	92
v.	Tot	al I	ndirect Co	sts			=				· .	2,554,1	08
VI.	Tot	al D	amages				<b>*</b>				•	6,395,9	

#### 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 comparision 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.

Industry Froducing	1ndustry Purchasing	1 Range Livestock	2 Feeder vestock		4 Forage, Feed & Food Crops	5 Cotton	6 Vegetables & Melon Products	7 Citrus Crops	8 Forestry	9 All Other Agricultur		All Other Mining	12 Food & Kindred Products	13 Lumber & Wood Products	14 Chemicals	15 Printing & Publishing	16 Fabricated S Metals		18 All Other Manufactur- Ing			21 Eating & Drinking Places	All Other Retail	23 Agricultural Services	Lodging		Transpor- tation	Electric Energy		29 Contract Construc- tion	30 Rentals & Finance		32 Total Gross Output	
			4 550	0.10		0	0	0		0	0	0	472	0	0	0	0	0	0	0	0	0	0	0		0		- 7		0	0	2,217	8,026	1.
	1. Range Livestock	787	4,550	0.4		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	30,541	32,609	2.
	2. Feeder Livestock	-	0	90			0	0		0 0	0	0	4,252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		M+ 0	0	32	4,434	3.
	3. Dairy	0	5 363	1 202	41		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.
Agriculture——	4. Forage, Feed & Food Crops	353	5,302	1,202		25	0	0		0 0	0	0	0	0	0	0	0	0	0	0	0	01/	0	4,159	0	0	0	0 1	0	0	0	20,347	24,530	5.
	5. Cotton	0	00		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	0.
	6. Vegetables & Melon Products	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	77.
	7. Citrus Crops	0.3	0	-	- 0	0	0	0	8. 5	0 0	0	0	0	3,979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 7/0	3,979	8.
	8. Forestry	0	/55		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 1	0	0	0	5,743	9,4/1	9.
· >	9. All Other Agriculture	0	455			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	3,694	5,315	10.
Mining	10. Uranium	0	- 0			0	0	324	J.	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.
	11. All Other Mining		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		90	0	0 174	- 0	20,220	34,071	12.
	12. Food & Kindred Products	0	0		0	0	0	0	1	0 0	16	544	0	1,746	0	0	0	0	0	0	0	0	0	0	0	0	0	0	132	3,1/4	0	11,387	16,999	13.
	13. Lumber & Wood Products		0		1,494	1,815	3,141	735		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	42,622	14.
	14. Chemicals		- 0	0	0	0	0	0	1	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.
Manufacturing-	15. Printing & Publishing				0	0	0	0	1	0 0	11	0	0	0	0	0	227	0	.0	0	0	0	0	0	0	0	174	0	0	6,348	0	912	7,672	16.
	16. Fabricated Metals	0			0	0	0	0		0 0	27	435	0	0	1,597	0	0	503	228	0	0	0	0	0		0	347	0.	0	20,103	0	20,684	43,925	17.
	17. Stone, Clay & Glass Products 18. All Other Manufacturing	/0			0	0	0	0		0 9	0	254	0	0_	756	316	0	0	228	00	0	0	0	0	0_		0	180	0	0	0	46,804	48,597	18.
7	19. Wholesale Trade	70	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		114,463	177,239	19.
	20. Service Stations	72	07	49	450	294	511	130	10	3 246	5	109	105	17	84	0	8	42	46	844	250	0	1,363	404	3,501	611	868	360	4,210	4,761		45,768	65,784	20.
Trade	The second secon	00	- 7/	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		529	1.8	127,174	133,859	<u>21</u> .
Ret	21. Eating & Drinking Places 22. All Other Retail	261	22	53	983	613	2,265	324	1	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
' \		144	2 275	62	266	2,183	38,718	13,615		0 502	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	2.022		0	0	450	437,000	440.364	23.
Services-	23. Agricultural Services		50	0	0		0	0		0 0	0	36	0	0	0	0	0	0	46	338	63		341	1 000	12.566	25.064	2,256	2 261	0 551	4 761		539,087		25
	24. Lodging 25. All Other Services (Except Professional)	0	0	27	20	25	0	22	D)	4 9	43	218	1,365	504	714	253	220	671	1,187	9,792	1,251	6,482	14,314	1,098	13,300	9,170	2,256 9,546	2,341	8,551			86,784	173,572	26
-		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	7 002		9,340	2,101	2,105	2,116	2,289	29,194	91,463	27
16	26. Transportation	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	126	7,002	7 336	2,430	3,962 5,223	921	2,116	4,120		135,294	28
Utilities-	27. Electric Energy	8	0	13	i.	49	146	0	117	0 28	43	835	525	218	462	537	425	377	228	3,039	1		10,224	170	14,003	7,336	2,083		2,236				619,244	20.
- Kr.	28. All Other Utilities 29. Contract Construction	0	0		0	0	0	0		0 0	64	1,306	1	84	0	0	15	294	457	0	501	794	341	693	11,815	5,502	2 404	810	the second second second second	174,579				30
		80	162	80	389	466	3,799	194	2	23 265	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	13,733	19,225	313,039	437,749	30.
- ij ur	30. Rentals & Finance	5,965	18,702	1.861	16.212		21,552	5.683	3.5	21 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	35.5, 312	4151177		<del> </del>	31.
	31. Final Payments	8,026	32,609	4.434	20,469	24.530	73,053	21,610	3,9	79 9,471	5,315	37,416	1 54 071	16,999	1 42.622	31,936	7,672	43,925	48,597	177,239	65,784	133,859	386,465			638,880				019,244	437,749			<u> 37.</u>
	32. Total Gross Outlays	3,020	_ \ .					4			The second secon		73			eren co						and the second	1	100	FR MAIN STE	NDUSTRY TRANS	SACTIONS (IN	THOUSANDS O	F DOLLARS)	ی در دید مونموس هین در ایداد دسام	and the second second	Name of the same of		والمساوية
4				Ã		and the second	Tables a market of the contract of	mile (g)			g and the same of	2 1		- 4- 14-	The second state of	Table 1	rigoros en la calenda La calenda de la calenda d							. 3	PK LIWIN DIE	M SUB-BASIN-1	LYOU-COMBINA	Table	-1980-QC-a				The second section of the section	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -
The second secon	les by the industry at the left to all industries		A second second						-						140		a man from the t			T.	· Sant	Section 1	- 135		1	recognice of		lawrence Court	DE NOT IN A	1	1			

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	1 Range Livestock	2 Feeder Livestock	3 Dairy	Forage, Feed & Food Crops	5 Cotton	6 Vegetables & Melon Products	Crops	8 Citrus Crops	9 All Other Agriculture	10 Uranium	All Other Mining	Kindred	13 Lumber & Wood Products	14 Chemicals		16 Fabricated Metals		18 All Other Manu- facturing	19 Wholesale Trade	20 Service Stations	21 Eating & Drinking Places	22 All Other Retail	23 Agricultur Services		25 All Other Services (Except Professional)	tation		28 All Other Utilities	29 Contract Rec Const- ruction	
	1. Range Livestock	.098	.140	.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. Feeder Livestock	.000	.000	-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
	3. Dairy	.000	.000	.020	-003	000	100.	.000	000	000	000	000	.038	.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
Agriculture	5. Cotton	.000	.000	.000	.000	001	000	.000	.000	000	000	000	000	.000	.000	.000	.000	.000	,000	.000	.000	.000	000	072	.000	-000	.000	.000	.000	.000	.000
	6. Vegetable & Melon 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
	7. Citrus Crops	.000	.000	.000	-000	000	1000	.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. Forestry	.000	.000	.000	.000	000	.000	.001	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
	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
	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	.011	.000	.000	.000	.000
	12. Food & Kindred Products	.000	.000	.158	.000	.000	000	.015	000	.074	.000	.000	.011	.000	.000	.001	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000	.000	.001	.000	.000	.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	.001	.006	.000
Manufacturing—	14. Chemicals	.000	.000	.000	073	.074	.000	.000	000	008	002	001	000	000	001	.000	.000	.050	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
manuracturing—	15. Printing & Publishing	.000	.000	.000	.000	.000	.043	.034	-000	000	001	.003	.003	.001	001	.007	.002	.001	.001	.003	.014	.006	.036	.002	.005	.009	.001	.001	.001	.001	.005
	16. Fabricated Metals	.000	.000	.000	.000	000	000	1.000	.000	.000	002	.000	000	.000	000	.000	.030	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.012	.000
	17. Stone, clay & Glass Products	.000	.000	.000	000	000	0000	.000	.000	000	005	012	000	.000	.038	.000	.000	.012	.005	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.038	.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
<b>—</b>	19. Wholesale Trade	.009	.001	-007	.014	012	.006	.000	.008	.003	.003	.015	002	.006	.004	1	.008	.002	.008	.007	.006	.062	.005	.037	.023	.031	.010	.016	.019	.021	.001
		.011	.003	.011	.022	012		.009	.026	.026	.001	-003	.002	.001	002	.000		.001	.001	.005	.004	.000	.004	.007	.008	.001	.005	.004	.032	.009	.001
Trade——	20. Service Stations 21. Eating & Drinking Places	.000	.000	.000	000	000	.007	.006	.000	.000	-000	.001	.000	.000	001	.000	.000	.001	.001	.002	.002	.000	.000	.000	.007	.001	.007	.002	.000		.001
Re	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		.004000
>	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	.000	.000	.000	.000	.000
Sorvices	24. Lodging	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.001		.001	1	.001	.000	.000	.000	.012	.000	.000	.000	.001
Services	25. All Other Services (Except Professional)	.000	.000	.006	.001	.000	000	.000	.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		.100	.066		.016	.275	.000	.015	.055	.024	.016		.008
	27. Electric Energy	.001		.011	.010	.004	006	000	.000	.008	.013	.039	.011	.020	.029	.013		.060	.037	1	.035		.044	.006	.016	.017	.014	.044	.007	.004	.005
Utilities———	28. All Other Utilities	.001	.000		.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	
	29. Contract Construction	.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		.005
	30. Rentals & Finance			.018	.019	010	.000	.000	.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-CONSTRAINED FOR WATER QUALITY
Table-1980-QC-b

Industry Purchasing	Industry Producing	l 2 Range Feeder Livestock Livestoc		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	Kindred	13 Lumber & Wood Products	14 Chemicals	15 Printing & Publishing		& Glass	18 All Other Manu- facturing	19 Wholesale Trade		21 Eating & Drinking Places	22 All Other Retail	23 Agricultura Services	24 Lodging	25 All Other Services (Except Pro fessional)	26 Transpor- tation		28 All Other Utilities	29 Contract Construction	30 Rentals & Finance
	1. Range Livestock	1.108649 .000004		.048931	.001494	.000000	.000000	.000012	.000007`	.000000	.002282	.000107	.000052	.003704	.002436	.000044	.000309	.006806	.012693	.014134	.000298	.053509	.020728	.000446	.005283	026967	006205	.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	.005283	.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	.000732	.017376	.049742	.022274	.009367	.002353	.044398 3.
Agriculture	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	.049902	.013170	.000720	.008044	.016817	.018033	-005357	.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		.000039	.045745	.000000	1.001001	.000128	.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.
<u></u>	9. All Other Agriculture	.001214 .002905		.029576	.003921	.000000	.000000	.000017	1.006795	.000000	.002846	.076456	.000073	.010547	.002820	.000056	.000593	.001288	.007307	.028377	.000343	.046123	.054409	.000424	.009429	.023803	.014806	.007826	.002553	.044706 9.
Mining	10. Uranium	.000002 .000005		.000011	.000000	.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.
<b>—</b>	11. All Other Mining	.000007 .000017		.000039	.000000	.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.
	12. Food & Kindred Products	.016347 .039128	`.085374	.087051	.000637	.000000	.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	.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.
Manufacturing	14. Chemicals	.000008 .000020	.000044	.000045	.000000	.000000	.000000	.000927	.000033	.000000	.226309	.000532	.003912	1.003340	.002673	.000250	.042141	.019862	.010912	.004281	.001952	-005968	-000005	.001089						.039908 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	-006195	.000010	.000416	.025935	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	.015434	.000001	000410	038277	03/886	020319	061325	.005753	.028670 16
	17. Stone, Clay & Glass Products	.000008 .000020	.000044	.000045	.000000	.000000	.000000	.000971	.000033	.000000	.233060	.000534	.004097	.051189	.002910	.000352	1.018014	.002751	.009450	.003446	-001828	.011121	000001	000725	025660	034166	.077586	021730	.025618	046094 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	.010245	.000004	.001663	.033779	.032247	.049106	.014188	.026290	.058709 18.
	19. Wholesale Trade	.000012 .000030	.000065	.000067	.000000	.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.
Trade	20. Service Stations  Eating & Drinking Places				.000000	.000000	.000000	.000031	.000046	.000000	.001024	.000736	.000133	.000041	.015526	.000250	.000706	.000245		1.005530		.016536	.000006	.001995		.074487	.040296		.014038	.058590 20.
le LE	71.	.003926 .009396	020502	.020904	.000153	.000000	.000000	*000030	.015493	.000000	.000857	.247272	.000128	.001694		.000180		.000211			10000	.016704			1			.030020	.012033	.072449 21.
	22. All Other Retail	.000003 .000008	.000017	.000017	.000000	.000000	.000000	.000018	.000013	.000000	.000386	.000201	.000078	.000013		.000081		.000480	.008728	.005756	.000450				.050336				.004630	.095882 22.
	23. Agricultural Services	.000010 .000023	.000050	.000051	.072538	.000000	.000000	.000053	.000038	.000000	.004868	.000606	.000224	.005464	.003684	.000555	.001640	.000200	.043697	.010405	.002375	.013414		.003771	.029727	-300938	.014718	1	1	.043038 23.
Services	24. Lodging	.000029 .000069	.000151	.000154	.000001	.000000	.000000	.000079	.000114	.000000	.000472	.001826	.000332	.000096	.006313	.000533	.001659	.000109	.026997	.009948	-007280	.010109	<del></del>	1,000189	.039005	.006633	.020052	.035726		.034749 24.
	25. All Other Services (Except Professional)	.000006 .000014	.000031	.000031	.000000			.000030	000000		1				.010318	.000210	.000634	.000150	.034139	.002154	.001371	.011811	.000003	.000383	1.048056	.022211	.021073	.015789	.015117	.033543 25.
	26. Transportation			.000162			.000000	.000057	.000120	.000000	.012285	.001915	.000240	.000145	.002125	.001126		.000148	.013054		007663	.011909		.012829	.018788				.002472	.025676 26.
	27. Electric Energy	1 1000028 1 1000067	.000145	000148	000001	000000	000000	000050	000110	000000	000010	001750			.003641	.000262	.000799	!	.020759	.007158	002700	.011909	.000015	,000717	.038923	.033967	1.051040	.065799	.018352	.238193 27.
Utilities	28. All Other Utilities																	.000060	.023050	)	.000478	.012458	.000001	.000451	.072950	.024580				.063170 28.
	29. Contract Construction	.000002 .000003	.000042	.000042	.000000	.000000	.000000	.002430	.000031	.000000	.013518		.010253	.002912	.003001	.018526		· · · · · · · · · · · · · · · · · · ·				<del></del>		.000474	021256	026079	014335	011314	1.495381	.050972 29.
2 - 123 42	30. Rentals & Finance	.000008 .000019	3 .1101111125	1 10000125 1	110000000		000000	l Utiliii /	( 1100011111111111111111111111111111111	nnanaa	000007	.000302	.000072	.000020	.005653	.000115	.000349	.000072	.002222	.001602	001170	.014362	000003	.001180	.013671	010153	006476	010581		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.

DIRECT AND INDIRECT REQUIREMENTS PER DOLLAR OF FINAL DEMAND LOWER MAIN STEM SUB-BASIN-1980-CONSTRAINED FOR WATER QUALITY Table-1980-QC-c

Industry Producing	Industry Purchanting	l Range <b>Live</b> stock	2 Feeder Livemtock	3 Dairy	Fornge, Feed & Food Grops	5 Cotton	6 Vegetichten & Melon Products		8 Forestry	4 All Other Agriculture	10 Brantum	All Other Mining	12 Food & Kindred Products	Lumber & Wood Products	14 Chemicals	Printing and Publishing		Stone, Clay and Class		19 Wholesale Trade	20 Service Stations	21 Enting and Drinking Places	22 All Other Retail	23 Agricul- tural Services	24 Lodging	25 All Other Services (Except Pro- fessional)	tation	27 Electric Energy	28 All Other Utilities	29 Contract Construc- tion	30 Rentals & Pinance	31 Final Demand	32 Total Gross Output
	1. Range Livestock	788	4,725	0	0	0	U	0	0	0	O	0	1,645	0	0	0	0	0	0	0	0	0					-						
	2. Feeder Livestock	0	0	0	0	0	257	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	1,141	8,300
	3. Dairy	0	0	113	73	0	0	0	0	0	0	0	5,812	0	0	0	0	0	0	0	- 0	0	0	0		0	0	0	1	0	0	38,924	43,897
	4. Forage, Feed & Food Crops	0	0	0	340	7,044	1,769	97	0	398	0	0	6,032	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	275	6,273
iculture	5. Cotton	0	0	0	0	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7 200	0	0	0	1	0	0	0	8,671	24,352
	6. Vegetables & Melon Products	0	0	0	0	0	257	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,388		0	0	1	0	0	0	26,305	33,761
	7. Citrus Crops	0	0	0	0	0	0	37	0	0	0	0	0	O	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128,409	128,666
	8. Forestry	0 ·	0	0	0	0	0	0	0	0	0	0	0	4,533	0	0	0	0	0	n	0	0	0	U	0	U	1 0	0	0	0	0	37,436	37,473
	9. All Other Agriculture	0	569	0	0	0	0	0	0	57	0	0	7,128	0	0	0	0	0	0	0	0	0	- 0	0	0	0	U	0	0	0	0	0	4,533
ing	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	6,450	14,204
<b>&gt;</b>	11. All Other Mining	0	0	0	0	0	0	712	0	0	100	183	0	0	14.724	0	0	18,293	11,503	0	0	0	0	0	0	0	0	0	0	0	0	4,926	7,139
	12. Food & Kindred Products	83	0	1,016	0	0	0	0	0	1,108	0	0	1,535	0	0	89	0	10,233	11,505	0	0	76 200	0	0	0	0	4,822	0	0	0	0	12,044	62,380
	13. Lumber & Wood Products	0.	0	0	0	0	0	0	0	0	36	1,097	0	2,080	0	0	0	0	0	0	0	76,388	0	0	0	0	0	223	0	0	0	31,688	112,130
	14. Chemicals	0	0	0	2,411	2,667	8,878	1,461	0	185	36	122	0	20	133	1 - 0	0	4,845		0	0	0	0	0	0	0	0	0	378	7,367	0	8,831	19,789
ufacturing —	15. Printing & Publishing	0	0	0	0	0	0	0	0	0	14	366	548	20	67	709	32	4,043		2 212	2 777	0	0	0	0	0	0	0	0	0	0	46,709	67,466
	16. Fabricated Metals	0	. 0	0	0	0	0	0	0	0	21	0	0	0	0	0	508	04	08	2,213	3,114	2,228	33,591	202	6,216	16,950	402	446	378	1,052	8,076	12,558	89,333
	17. Stone, Clay & Glass	0	0	0	0	0	0	0	0	0	50	914	0	0	2,598	0	300	1,169	474	0	0	0	0	0	0	0	402	0	0	13,682	0	1,417	16,030
	18. All Other Manufacturing	0	0	0	0	- 0	0	0	0	28	0	792	0	0	1,332	1 064	0	1,109	5/1	0	0	.0	0	0	0	0	804	0	0	42,097	0	39,191	87,298
	19. Wholesale Trade	66	44	56	341	405	772	375	41	71	36	1,097	219	137	266	266	1/2	167	609	1 126	0	0	0	0	0	0	0	668	0	0	0	67,384	71,894
1	20. Service Stations	91	131	69	487	405	901	262	131	412	14	244	329	20	133	200	143	0/	609	4,426	1,453	20,370	5,598	3,745	23,830	52,546	4,420	3,788	7,182	23,154	1,346	427,656	584,624
de ab	21. Eating & Drinking Places	. 0	0	0	0	0	0	0	0	0	0	122	110	20	67	0	10	167	68	3,319	831	0	3,732	708	8,289	1,695	2,411	891	12,095	9,472	1,346	171,063	219,650
~	22. All Other Retail	373	88	69	1,120	777	3,989	525	50	582	86	488	659	315	135	620	238	753	677	1,106 3,874	415	0 120	0	0	8,289	1,695	2,813	688	0	1,052	1,346	304,091	322,028
	23. Agricultural Services	183	3,194	100	463	3,106	68,836	23,720	0	824	0	0	0	0	100	0	0	,,,,	- 0//	3,074	3,322	4,138	3,735	708	10,372	18,650	4,018	4,106	4,159	9,472		975.077	
vices	24. Lodging	0	0	0	0	0	0	0	0	0	0	122	0	0	0	0	0	0	68	1,106	208	/3	0	0	0	0	0	0	0	0	0	783	101,209
	25. All Other Services (Except Professional)	0	44	44	49	68	0	75	9	28	79	488	3 071	628	2 100	886	493	1 504	1 062			17 222	933	0	0	0	4,822	0	0	0	1	1,034,000	1
	26. Transportation	124	1,356	226	97	135	3,345	412	73	14	171	2 194	1 755	275	2,199		477	7 597	1,902	33,193	4,360	16,232	40,122	2,024	33,154		5,626	6,238	25,325	11,577	17,497	1,493,213	1,771,377
	27. Electric Energy	17	219	107	365	203	1,158	487	0	156	121	2,499	1.535	// // // // // // // // // // // // //		2,482	302	1,587	1,624	58,087	7 000	4,138	15,862	27,833	0	27,120	22,503	5,793	6,426	12,629	10.768	176.880	401.836
lities	28. All Other Utilities	8	0	31	0	101	257	0	0	71	71	1 524	1,316	432			902	5,931	2,639	14,383	7,890		44,788		16,577	30,510	6,028	10,026	2,646	5,262	6,730	55,670	225,483
Va.	29. Contract Construction	0	0	0	0	0	0	0	0	0	100	2,377	210	00	866	1,595	722	1,086	677	9,958	3,114	7,320	29,859			20,340	4,022	14,744	2,046	4,210	12,114	239,125	389,401
	30. Rentals & Finance	108	394	138	584	777	7,205	525	267	440			1, 777	205		2 216	219	752	2,030	20 220	1,661	2,228	933	1,215	30,046	16,950	0	2,228	6,804	_347,304	8,076	804,756	1,226,371
	31. Final Payments	6,459	33,133	4,304	18,022	18,005		8,785		9,830			71 224	10 760	799	77.899	12,549		48 412	422 620	8,721	14,641	74,646	2,631	22,794	38,985	7 733	17 222	10 255				1,345,950
	32. Total Gross Outlays	8,300	43,897			33,761	128,666	37,473		14,204	7,139	62,380	112,130	19,789	67 466	77,899 89,333	16 020	U7 200	71 00/	423,039	170,442	109,889	804,852	53.845	848.848	1 474 745	220 210	120 222	301,707	700 605			

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-CONSTRAINED FOR WATER
QUALITY
Table 2010-QC-a

Industry Producing	Industry Purchasing		? Feeder Livestock		Forage, Feed & Food Crops	5 Cotton	6 Vegetable & Melon Products	7 Citrus Crops	8 Forestry	9 All Other Agriculture	10 Uranium	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 & Orinking Places	22 All Other Retail	23 Agricul- tural ervices	24 Lodging	25 All Other Services (Except Pro- fessional)	26 Transpor- tation	27 Electric Energy	28 All Other Itilities		30 Rentals & Finance
	1. Range Livestock	.095	.108	.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
	2. Feeder Livestock	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.043	.000		000	000	.000	000	.000	000	000	000	.000		000	.000	.000	1,000	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
Agriculture	4. Forage, Feed & Food Crops	.041	.161	.282	.004	.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 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	.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 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 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 8
}	9. All Other Agriculture 10. Uranium	.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 9
Mining-	11. All Other Mining	.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 10
>	12. Food & Kindred Products	.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	.012	.000	.000	.000	.000 11
3	13. Lumber & Wood Products	.010	.000	.162	.000	.000	.000	.000	.000	.078	.000	.000	.014	.000	.000	.001	.000	.000	.000	.000	.000	.240	.000	.000	.000	.000	.000	.001	.000	.000	.000 12
	14. Chemicals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.018	.000	.106	.000	.000	.000	.000	.000	.000	.000	.000	<b>.</b> '000	.000	.000	.000	.000	.000	.001	.007	.000 13
Manufacturing—	15. Printing & Publishing	.000	.000	.000	.0 <b>9</b> 9	.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 14
	16. Fabricated Metals	.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	.006 15
		.000	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.000	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.013	000 16.
	17. Stone, Clay & Glass 18. All Other Manufacturing	.000	.000	.000	.000	.000	1	.000		.000	.007	.015	.000	000	.039	.000	.000	.014	.007	.000	.000	.000	.000	.000	.000	.000	,002	.000	.000	.040	.000 17.
<b></b>	19. Wholesale Trade		.000		.000	.000	.000	.000	.000	.002	.000	.013	.000	.000	.020	.012	.000	.001	.008	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.600	.000 18.
		.008	.001	.009	.014	.012	.006		.009	.005	.005	.018	.002	.007		.003	.009	.002	.009	.008	.007	.064	.006	.037	.023	.031	.011	.017	010	022	.001 19.
Trade	20. Service Stations 21. Eating & Drinking Places	.011	.003	.011	.020	.012	.007			.029			.003		.002	000		.001	.001	.006	.004	.000	.004	.007	.008	.001	.006	004	.032	.009	.001 1 20.
Ret	22. All Other Retail	.000	.000	.000	.000	.000		000		.000		.002		1		.000		.002	.001	.002		.000	.000			.001	.007	-003	.000		.001 21.
	23. Agricultural Services	.045600	.002000	. 011000	.046000	.023000	.031000	.014000	.011000	.041000	.012000	.008000	.006007	.016051		.007000		.009013	.010001	.007003	.016000	.013002	.004003	.007000	.010011	.011003	.010000	.018430	.011004	.009000	.004001 22
Services		.022	.073	.016		.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 23
	24. Lodging 25. All Other Services (Except Professional)		.000	.000	.000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.000	.000	.000	.001	.002	.001	.000	.001	.000	.000	.000	.012	.000	.000		.001 24.
	26. Transportation	.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 25.
Utilities	27. Electric Energy	.002		.036	.004	.004	.026	.011	.016	.001	.024	.036	.016		.050	.028	.030	.019	.024	.105	.068	.013	.017	.275	.000	.016	.056	026	.017	.012	.008 26.
001110168	28. All Other Utilities	100	.005		.015	.006	.009	.013	.600	.011	.017	.041	.014	.022	.032	.017	.019	.071	.039	.026	.038	.014	.048	.007	.016	.018	.015	.045	.007	.005	.005 27.
	29. Contract Construction	.001	.000	1 .005	.000	.003	.002	.000	.000		.010	.025	.012	.013	.013	.018	.058	.013	.007	.018	.015	.023	.032	.002	.033	.012	.012	.058	.007		.009 28.
	30. Rentals & Finance	.000	.000	.000	.000	.000	.000	.000	.000	.000	.014	.039	.002	.005	.000	.000	.002	800.	.010	.000	.008	.007	.001	.012	.029	.010	.000	.010	.018	330	.006 29.
ote: Each entry shows t	the input directly required from the industry at the	.013	.000	.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 30.

ote: 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-L

25. All Other Services (Except Professional) 00008 00007 000008 000007 000000 000000 000000 000000 000000										a is to the second seco							1		1				THE STATE OF THE S	1								
Part			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		24	25	26	27	28	29	30
1					Dairy	Feed & Food	Cotton	& Melon		Forestry		Uranium		Kindred	Wood	Chemicals	V .					1	Drinking		tural		Services (Except Pro-				Construc-	
Part		1 Pance Livestock	1 105222	000494	000762	0/6/47	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.
Teach   Color   Colo			119392	1 000108				000000	000000	.000028		.000000				.017297	.001386	000099	.000993	.000496	.009171	.009514	.000590	.017843	.080129	.000836	.007437	.062904	.012701	.003559	.002557	.025653 2.
Part		3. Dairy	.003693	.007316				-000000	.000000			.000000					.003130	.000106	.001584	.000875	.017863	.019852	.000888	.029640	.023621	.000859	.021296	.058592	.031995	.013006	.003386	.054351 3.
Section   Sect		4. Forage, Feed & Food Corps	.000015	.000029				.000000	.000000			.000000			.000514	.100112	.002929	.000067	.004520	.002449	.017637	.021519	.000533	.048701	.019278	.000465	.012356	.022304	.025550	.006666	.003308	.042032 4.
Properties   Pro	Agriculture	5. Cotton	.000003	.000007	.000009			.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.
Transfer   Control C	1-5	6. Vegetable & Melon Products	.000250	.002025	.000027			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.
F.		7. Citrus Crops	.000011	.000022	.000027				1.001001	.000180	.000033	.000000	.032101	.000502	.000777	.043069	.003707	.000422	.003247	.001425	.039931	.014586	.001897	.024043	.637932	.002751	.027049	.209489	.029000	.009910	.015292	.053343 7.
Fig.		8. Forestry	.000002	.000004	.000004	.000007	.000000				.000005	.000000	.000284	.000082		.000007	.001422	.000038	.000096	.000030	.009984	.029523	.000313	.012239	.000001	.000383	.005420	.021256	.002925	.002175	.001183	.065942 8.
Column   C		9. All Other Agriculture	.001753	.003472				.000000	.000000	,000031	1.009331				.000134	.017005	.003301	.000073	.000954	.002541	.010200	.031882	.000518	.046165	.059968	.000490	.012533	.027356	.019850	.010957	.003355	.051272 9.
1.   First Principle   1.   All Column			.000004	.000008	.000010		.000000	.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.
1.   Local a Mod Production   1.   Model	Mining-	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	.012150	.000008	.002766	.018978	.047304	.049825	.032218	.062426	.098242 11.
1. Laber & 1. Compared reducts   1. Compar		12. Food & Kindred Products	.022343	.044262	.055807	.082621	.000745	.000000	.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.
15. Practice of Particle   15. Practice   15. Practice of Particle   15. Practice of Particle   15.			.000009	.000018	.000022	.000033	.000000	.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.
Particular   Par		14. Chemicals	000014	,000028	.000035	.000052	.000000	.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. Tartisane Printing Places 16. Tartisane Printing Places 17. Tartisan Printing Places 18. All Other Results (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000) (19.000)	Manufacturing	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	.008574	.000011	.000464	.014757	.032671	.020376	.020955	.001789	.034741 15.
18. All Cher Numbacturity   18. All Cher Numbacturity   18. All Cher Numbacturity   18. All Cher Numbacturity   19. No-lease Trade	manulactuling——		.000003	.000006	.000008	.000011	.000000	.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.
19   Woolesel Trade   19   Woolesel Trade   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   200   20		17. Stone, Clay & Glass	.000020	.000039	.000050	.000073	.000001	.0000000	.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.
19. Services   19.		18. All Other Manufacturing	.000012	.000024	.000030	.000044	.000000	.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 2 1 Esting & Drinking Places 0.0356 0.0030 0.03402 0.1842 0.00379 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.0000		19. Wholesale Trade	000018	.000035	.000044	.000065	.000001	.000000	.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.
21. Esting & Pitalking Places 0.00366 0.10630 0.13402 0.19842 0.00007 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000	Trade	20. Service Stations	.000017	.000033	.000041	.000061	.000001	.000000	.000000	.000037	.000050	.000000	.001172	.000762	.000160	.000054	.016845					1.005725	.002833	.018964	.000008		.028919				li I	
A Services   A S	eta	21. Eating & Drinking Places	.005366	.010630	.013402	.019842	.000179	.000000	.000000	.000039	.016271	.000000	.001098	.247199	.000171	.002241	.010686	.000226	.000756	.000298	.069944	.003993	1.000867	.019602	.002446		.070984					
Services		22. All Other Retail	.000005.	.000010	.000012	.000018	.000000	.000000	.000000	.000022	.000015	.000000	.000472	.000229	.000094	.000019	.038026	.000096	.000275	.000631	.010139	.005932	_000543	1.007210	.000002	.001436	.052578	.024888				.102115 22
25. All Other Services (Except Professional) 000008 000017 0000001 0000000 000000 000000 000000 000000	* (	23. Agricultural Services	.000013	.000027	.000034	.000050	.073642	.000000	.000000	.000064	.000041	.000000	.005388	.000620	.000277	.005948	.003915	.000582	.001748	.000290_	.044304	.010816	.002424	.013621	1.006781	.003795	.031857	.302117	.016693			.045300 23.
26. Transportation 000042 000083 000105 000010 000000 000000 000000 000000	Services-	24. Lodging	.000045	.000090	.000113	.000167	.000002	.000000	.000000	.000095	.000137	.000000	.000560	.002084	.000411		1	.000623	,001888	.000166	.027405	.010081		.012513	.000021	1.000202	.040888	.007301	.020610	.037027	.045820	.035777 24
27. Electric Energy 1.00004 1.00003 1.000004 1.000007 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.000000 1.0000000 1.0000000 1.0000000 1.00000000			.000008	.000017	.000021	.000031	.000000	.0000000	,000000	.000037	.000025	.000000	.000498	.000385	.000160	.000048		.000251	.000744	.000217	.034422	.002264	.001417	.013134	.000004	.000408	1.049707	.023872	.022576			
28. All Other Utilities 29. Contract Construction 29. Contract Constru		26. Transportation	000042	.000083	.000105	.000155	.000001	.000000	.000000	.000072	.000127	.000000	.013441	.001935	.000312	.000189	.002364	.001138	.002489	.000272	.014394	.007409	.007742	.012257	.000019	.012874	.020481	1.064005	.019909	.016440	.002886	
28. All Other Utilities	Urilities	27. Electric Energy	.000044	.000087	.000110	.000163	.000001	.000000	.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
29. Contract Construction .000012 .000023 .000029 .000043 .000000 .000000 .000000 .000000 .000000	DOLLITTES		.000003	.000006	.000008	.000012	.000000	.000000	.000000	.000318	.000009	.000000	.000626	.000144	.001375	.000078	.003372	.000424	.001266	.000090	.023369		.000514	.013821	.000001	.000475	.075693	.026224	.012649	1.011268	029579	.065047 28
The contract of the contract o			1	.000023	.000029	.000043	.000000	.000000	.000000	.002777	.000036	.000000	.014643	.000542	.012022	.003598_	.003371	.020121	.061116	.000420	.035959	.014772			.000005	.000535	.025685	.028981	.017643			1
30. Rentals & Finance .00007 .000013 .000017 .000025 .000000 .000000 .000000 .000000 .000000			.000007	.000013	.000017	.000025	.000000	.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-BASEN-2010-CONSTRAINED FOR WATER QUALITY Table-2010-QC-c

hastry	Industry Purchasing	1	2 Feeder	3 Dairy		1 &	tton Ve	6 egetables	7 Citrus Crops	8 Forestry	All Oth Agricultu	10 Uraniu	La Coppei	All O Mini		dred		15 Furniture & Fixtures		17 Chemical	B Primary Metals		5 Fabricate Metals		23 Stone Clay Cla	& Manu-		26 Servi	ions Drinking		29 Agricultu	30 Lodging	All Other Services	32 3. Transportation Electron		- annead	11	37 & Final Demand	38 Total Gross
- T	V	-1 0	41.150		0	0	0	0	0	0	0		0 (		0 1	,062	0	0	0	0	C	) 0	0	0	3	0	. 1		Places	2	PELAICER		Ex. Pro.			tion			Output
	1. Range Livestock	0	0		0 1	,608	0	0	192	0	110		0		0 83	,859	0	0	0	0	0	0	0	0	5	0	0	7 000 000		0	-						0	3,381	45,592
	2. Feeder Livestock		0	9/	41	574	0	0	90	0	0		0 (		0 67	,405	0	0	0	0	0	0	0	U		0	0						0	0	0	0	0	29,930	115,589
	3. Dairy	2,736	20,806	29.9	70	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	3,381	72,392
iculture-	4. Forage, Feed & Food Crops		0		0	0	215	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	1,066	57,433
iculture-	5. Cotton	A	0		0	0	0	78	0	0	0		0		0 2	,123	0	0	0	0	0	0	0	0	0	0	0 0		0 (	0	0	· · · ·	0		00		0	176,901	214,799
	6. Vegetables	0			0	0	0	0	11	0	0		0		0 3	,715	0	0	0	0		0	0	0.	0	0	0 0				0	0	0		0	0	0 0	75,827	78,028
100	7. Citrus Crops		0	<del></del>	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	7,553	11,280
1	8. Forestry		+			0	0	0	0	0	67		0		0 4	,777	0	0	0	0	0	) 0	0	.0	0	0	0		0	0		ļ	0	0	0	0	0	00	2,100
1,	9. All Other Agriculture		-				0	0	0	0	0		.2	1	164	0	0	0	0	0	0	0	0	0		0			3,336	0	- <u>-</u>	0	20	0	0	0	0 0	14,031	22,211
1	10. Uranium	0	0		0				0	0	0		0 13.17	3	328	0	0	0	0	0	421,903	3 0	0′	0		10	0			0	0	0	0	0	0	0	0	614	790
ning	11. Copper	0	- 0		0				0	0			4 3.51	24.6	637	0	110	0	0	8,984	33,752	2 0	4,605	0	10.2	7 / 7	17		0   0	0	0	0	0	0	0	0	0 0	3,852	439,262
(	12. All Other Mining	0	0		<u> </u>	0	2 (52		102		4 464		0 4 39		0 20	.169	0	0	()	0	603	3 104	0	0	704	0 4 00	2/		0	0	0	0	0	0	0	0 22,25	2 0	47,231	165,730
1	13. Food & Kindred Products	729	5,895	2,6	06	0 1	3,032		0	0	0		6 1,31		821	0	933	908	7,828	0	1,205	5 0	0	0	0	0 4,55	12	-	52,428	0	0	2,645	774	6,488	408	0	0	_ 436,161	546,816
ł	14. Lumber & Wood Products	0	<u> </u>			_ 0				0	0		0		0	0	0	1,372	0	0	0	0	0	0		<u>~</u> + / -	13		0	0	0	0	0 -	0	408	0 17,30	7 0	35,959	67,406
	15. Furniture & Fixtures	0	0						0	1	44	-	0		0 5	,308	588	807	1,677	0	1 0	6,219	0	0	<u> </u>	0 1 10	0		0	0	0	165	0	0	0	0	0 0	29,942	22,479
	16. Paper & Pulp	0	0		0 +		V.	5 206	600	0	200		4 8.78	3,1	121	531	58	0	22	786	603	3 0	0	0		0 1,42	2/		0 0	1,499	0	165	00	721	0	0	0	5,216	23,142
	17. Chemicals	<u> </u>	0		0 2	,8/2	5,444	3,300	000				0 43	2.4	464	0	0	0	0	0	6,027	7 0	7,073	0		4,28	30 0	- }	0 0	0	0	0	11,606	0	0	0 4,94	5 0	12,159	62,410
nufacturing-	18. Primary Metals	0	0		0		0						3 3.51	1.0	642 4	777	175	202	134	337	3,616	1 969	658	37		0 8,56	0		0   0	0	0	0	0	0	0	0	0	579,450	604,014
	19. Printing & Publishing	0	0		0		- 0		23	-			3 95	2.	792	0	350	0	0	1	1.808	311	8 388		5 //	5,70	923	2,4	32 1,906	0	46	4,132	9,285	2,163	815	1,902 2,47	2 6,802	49,474	105,854
	20. Fabricated Metals	0	0		_0	0	0			ļ <del>-</del>			0			0	0	0	0	1 0	+,			129		0 4,99	0	1	11 0	8,993	0	0	2,321	6,127 1	,631	1,268 84,06	2 0	46,552	173,673
	21. Textiles & Apparel	0	0		0	0	0	0	0				0		-		0		0	1			-0	37	18	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				12 2 10		285	531	992	0	<u>-</u> -	1	1 808	106	1		0	0	0 0		0 0	10	0	0	0	0	0	0	0	847	884
	23. Stone, Clay & Glass	. 0	00		0	0	0	0	0				2,17	, ,,	6/2	777	233	242	45	449	7 233	622	3 9/7	166	0 29,51	3 5,70	0		0 0	1,499	0	0	0	0	0	0 116,20	3 0		179.932
	24. All Other Manufacturing	0	0		0	57	1,933	156	34		,			2	/4/ 15	302	1 050	484	0	225	603	3 1 65	2 702	100	/4	1 100,44	4 101,558		0 0	2,998	0	0	13,153	22,346 5	,707 1	0,144 22,25	2 0	451.765	759,439
	25. Wholesale Trade	137	809	) 4	434	804	3,652	1,014	102	6	311		2 3,95	1	404	521	1,000	40		1	603	1,030	7,703	92	0 1,58	2,85	12,002	1,10	06 30,027	46,465	413	4,628	18,569	6,848 1	,223	8,876 106,31	4 4.081	736,362	1 018 322
	- 26. Service Stations	547	231		579	804	2,363	780	90	42			2 1,/3		007	531		20	202	110	603	029	329	92	0 1 17	6 2,14	923	55	53 477	1,499	1,835	2.645	1 10.832 1	1,442	0	8,876 7,41	7 0	76,176	125 516
rade — —	27. Eating & Drinking Places	0	0	)	0	0	0	_ 0							285 2	2,123	1 000	01	201	112	- 603	207		3/	17	6 71		44	42 4,/66	4,497		1	1,547	2,163 1	,631	1.268 2.47	5.441	451 038	483.162
	28 All Other Retail	182	2,890	1,3	375	2,470 1	1,384	3,277	316	21	2,732		9 2,19	3,	285	2,123	1,000	01		223	000	1,244	1,316	_ 221	0 1,40	6 2,85	,		/4   4,/00	14,989	413	2 810	11,606	2,883 5	,311	5.706 22.25	8,162	1	
	29. Agricultural Services	0	925	;	0	4,824 3	5,442	156	3,880	0	444									<del> </del>			+ 0	0	0	0	0 0	1	0 0	0	0	0	0	0	0	0	0,102	200	45 971
			1111	) [	0	0		A 1		1 0			1 2,19				58			36	603	311	329	18	0	0 71	3 11,079	22	21 0	1,499	]	0	774	0 1,081	408	3 170	1 360	130 330	165 202
ervices-	30. Lodging 31. All Other Services (Except ofessional)	0	C	)	0	57	215	78	23	0	2:		8 8,78	5 3,	285	9,023	1.866	161	201	1,348	3,014	2,280	3,947	166	19 5,27	0 5,70		2,54	43 34,317	47,964	734	11.735	33,270	1,081	223	0 16/ 22 25	12 243	532 330	103,282
		547	2,081	2,	172	1,000	2,578	2,419	11	36	200		16 18,44	9   11.	497 19	5.923	3.208	/8/	1,542	1,1/9	17,479	9   2,902	2,632	148	4   12,12	1 12.12	8 64,628	5,63	6,673	49,463	3.394	826	10 058	11,173 4	892	9,164 22,25	1 360	71 516	360 422
	32. Transportation  33. Riectric Energy	274	231	1	652	517	2,578	1,248	271	0	170	3	47 8,34	6 9,	033	4,777	_1,458	404		898	16,2/3	1,866	2,961	240	9 2,98	6 11,41	5 56,319	4,75	5,243	35,973	367	661	0 295	3 604	100	2 170	9 523	154 428	416 029
utilities		137	116	5	145	57	859	78 1	11	1 0	1 , 6		12   8,78												11 2,10	8 6,42	1 17,542	3,75	9,532	34,474	1.147	6 281	13 152	11,894 13	,183	2,4/	14.000	154,420	410,038
	34. All Other Utilities	0			0 .	0						1	1	3 1,	- 1		1	0 1	0	l ez	/ 000					5,70	7 11,079	2,43	3,813	the state of the s	1	- ,	13,153	1 440		7,41	14,964	464,209	649,698
	3). Contract Construction		2 623	7 1	520	1 723 1	0.740	2.185	1.455	57	55:	5	20 2,19	6 27,	922 16	6,984	2,625	605	559	2,246	12,657	3,628	4,605	572	20 2,28	7,13	4 48,009	6,08	14,299	56,957	2 700	4 777	0,903	1,442 18,021 21	910	7,608 655,189	53,054	1,731,315	2,520,732
	35. Contract Construction  36. Rentals & Finance  37. Final Payments  38. Total Gross Outlays	5,51/	2,42	1	000	0 601 13	2 744	61 253	3 981	1.938	9.97	3 5	51 332,9	3 57,	822 236	6,322	48,917	15,923	10,328	45,004	58,549	79,216	126,169	18,403	581 101.40	560.399	9 636.094	9/. 67	71 911 570	1 247 455	2/ /30	0,///	30,949	18,021 21	,197 2.	5,360 49,448	38,090	933,083	1,361,304
	37. Final Payments	34,786	35,028	31,5	300	7 401 13	4 700	79 029	11 280	2,100	22.21	7	90 439.20	2 165.	730 540	6,816	67,406	22,479	23,142	62,410	604,01	105,854	173,673	20,709	884 179.93	759 430	9 1 018 322	175 61	16 400 150	1,347,451	34,632	114,374	627,264	251,575 293.	.327 527	7,336 1,363,644	1,206,224		
	38. Total Gross Outlays	45,592	115,589	9 72,	392   5	7,433 21	4,799	10,028	11,200	~ 1 ~ 1						حالت تحمي	and the same of th			***	the same of the same of		4			199,79	1,010,322	1 143,51	483,162	1,674,206	45,871	165,282	817.409	360.423 476	.038 649	9.698 2.520 733	1,361,304		

-	Industry Porchasing	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1.7	-18	19	20	21	22	93	24	25	26	97	20	1							-
	Forenasing	Range	Feeder Livestock	Dairy	Forage,	Cotton	Vegetables		Forestry	All Other	Uranium	Copper	All Other	Food &	Lumber &	Furniture	Paper &	Chemicals	Primary	Printing &	Fabricated	Textiles	Leather	Stone	All Other	Whalasala	Comico	Vation 6	28		30	31	3.2	33	3/4	35	36
Industry		Livestock	Livestock		Feed & Food Crops			Grops		Agriculture			Mining	Kindred	Wood	A Fixture	≝ Pulp		Metals	Publishing	Metals	6	Leather	Clay &	Manu-		Stations	Enting & Drinking		Agricultural Services	Lodging	All Other Services	Transpor =     tatton	Electric	All Other Utilities	Contract	Renta
Producing		000				-								Froduces	Products	-	-					Apparel	Goods	Class	facturing		13	Places					Citerini	later gy	O'TTTTTOS	Con→ structlon	1
	1. Range Livestock	.000	- 356	,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	.000	.000	.000	.000	000	.00
	2. Feeder Livestock	,000		,000	.028	.000	.000	.017	,000	.000	.000	.000	.000	.158	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	.00
	3. Dairy	.000	.000	.013	,010	.000	.000	.008	1000	.000	.000	.000	,000	.127	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	900	.0
culture	4. Forage, Feed & Food Crops	.060	- 180	.414	.001	.000	.000	.000	,000	.126	.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	.0
	5. Cotton	.000	000	.000	000	.001	.000	.000	.000	.000	.000	.000	.000	.071	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	,000	.000	.000	.000	.000	.000	000	.0
	6. Vegetables	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	.004	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	7 .000	.000	.000	-000	000	,00
	7. Citrus Crops	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000	.000	.000	.007	,000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	000	-01
	8. Forestry	000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.036	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	.000	000	.00
Ļ	9. All Other Agriculture	.000	.000	.000	.000	.000	.000	.000	.000	.003	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.007	.000	.000	.000	.000	.000	000	000	000	.00
	10. Uranium	.000	.000	.000	.000	.000	.000	.000	.000	.000	.015	.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	-01
.ng	11. Copper	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.030	.002	.000	.000	.000	.000	.000	.700	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	000	000	000	000	.00
>	12. All Other Mining	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.008	.150	.000	.000	.000	.000	.160	.056	.000	.028	.000	.000	.110	.002	.000	.000	.000	000	.000	.000	.000	000	000	000	.000	00
	13. Food & Kindred Products	.016	.051	.036	.000	.017	.000	009	.000	.201	.000	.010	.000	.038	.000	.000	.000	.000	.001	.001	.000	000		.000	.007	.000	.000	.110	.000	.000	-016	.001	018	001	000	.009	00
	14. Lumber & Wood Products	.000	.000	.000	000	.000	.000	.000	.000	.000	.007	.003	.005	.000	.016	.045	.350	.000	002	.000	.000	.000	000	.000	.001	.000	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	. 00
	15. Furniture & Fixtures	.000	.000	.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	.001	.000	.000	.000	.000	.000	00
	16. Paper & Pulp	.000	,000	.000	.000	.000	.000	.000	.000	.002	.000	.000	.000	.010	.001	.040	.075	.000	.000	.060	000	.000	007	000	.002	.000	.000	.000	.001	.000	.001	.000	.002	.000	.000	000	.00
	17. Chemicals	.000	.000	.000	.050	.030	.068	.061	.000	.009	.005	.020	.019	.001	.001	.000	.001	.014	.001	.000	.000 i	.000	.000	.000	.006	.000	.000	.000	.000	.000	.000	.015	.000	.000	-000	.002	.00
facturing	18. Primary Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.001	.015	.000	.000	.000	.000	.000	.010	.000	.043	.000	.000	.000	.012	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.00
	19. Printing & Publishing	.000	.000	.000	.000	.000	.000	.002	.000	.000	.004	.008	.010	.009	.003	.010	.006	.006	.006	.019	.004	.002	.006	.004	.008	.001	.022	.004	.000	.001	.025	.012	.006	.002	.003	.001	.00
	20. Fabricated Metals	.000	.000	.000	.000	.000	.000	.000	.000	.000	.015	.009	.017	.000	.006	.000	.000	.000	.003	.003	.051	.000	000	.000	.007	.000	.001	.000	.006	.000	.000	.003	.017	.004	.002	.034	.00
	21. Textiles & Apparel	.000		.000	,000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.007	022	.000	.000	.000	.000	.000	-000	.000	.000	.000	.000	.000	.000	000	.00
İ	22. Leather & Leather Goods	.000	.000	.000	.000	.000	.000	.000	.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	.00
ľ	23. Stone, Clay & Glass	.000			.000	.000	.000	.000	.000	.000	.040	.005	.020	.001	.017	000	.000	.000	.003	.001	.000	.000	.000	.168	.008	.000	.000	.000	.001	.000	.000	.000	.000	.000	.000	047	.00
	24. All Other Manufacturing	.000		.000	.001	.009	.002	.003	.000	.002	.010	.009			.004		.002	,008	.012	.006	.024	.009	.002	.003	.145	.110	.000	.000	002	.000	.000	.017	.062	.014	016	.009	.00
ſ	25. Wholesale Trade	.003	.007	.006	.014	.017	.013	.009	.003	.014	.002	.009		.029	.018	.024	.000	.004	.001	.016	.023	.005	.000	.009	.004	.013	.010	.063	031	.009	,028	.024	.019	003	014		.00
	26. Service Stations	.012	.002	.008	.014	.011	.010	.008	.020	.005	.002	.004	.004	.001	.002	.002	.001	.000	.001	.008	.002	.005	.000	.001	.003	.001	.005	.001	001	.040	.016	.014	.004	000		.003	.00
le	27. Eating & Drinking Places	.000	.000	.000	.000	.000	.000	.000	.000	.000		.000	.005	.001	.001	.001	.009	.002	.001	.002	.002	.002	.000	.001	.001	.002	.004	.010	.003	.002		.002	-006	004	002		.00
į	28. All Other Retail	.004000			.043000	.053000	.042000	.028000	.010000	.123000	.011000	.005000	.020000	.004000	.031004	.004000	.000000	.004002	.001006	.012000	-008000	.012000	,00000di	.008002	.004000	.031000	.007000	.010000	.010000	.009000	.017001	.015000	.008000	.013029	002000	000000	.004
ſ	29. Agricultural Services	.000	.008	.000	.084	.165	.002	.344			.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	.00
rices	30. Lodging	,000	.000	*****	.000		.000	.000	.000	.000	.001	.005	.009	.001	.001	.001	.002	.001		.003	.002	.001	.000	.000	.001			.000			.000	.001		.001		-000	.00
	31. All Other Services (Except Professional)	.000	.000	.000	.001	.001	.001		.000							.008			.005	.022	.024	.009	.023	.030	.008	.030	.023	.072	.032	.016	.017	043			.005		.00
	32. Transportation	.012	.018	.030		.012	.031	.001	.017	.009	.020	.042	.070	.030	.055	.039	.060	.021	.029		.016	.008	.005	.069	.017	.070	.051	.014	.032			013	023	.003	.046	.009	.00
	33. Electric Energy	.006			.009	.012	.016	.024	.000	.008	.060	.019	.055	.009	.025			.016	.027		.018	.013	.011	.017	.016	.061	.043	.1111	027	.074	.004	.013	.010	.012	,011	.005	
ities	34. All Other Utilities	.003	.001	.002	.001	.004	.001	.001	.000	.003	.015	.020	.028	.006	.015		.018	.009	.016	.017	.014	.008	.013	.012	.009	.019	.034	.020	.023	.025		.012	r region less services		005	.001	
	35. Contract Construction	.000	.000	.000	.000	.000	.000	.000	.000	.000	.050	.010	.012	.009	.008	.000	.000	.001	.008	.006	.002	.011		.002	.008		.022	.008	.012		.032	.009	.033	.034	.014	.003	.011
	36. Rentals & Finance	.121	.021	.021	.030	.050	.028	.129	i i		.025	.005		.032	1	.030			.021	.035	.028	.031	.025	.013	.010	.052	.055	.030	.012		.041		194 S	.002		.265	
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	1 2 3 4 5 6 7 8 9 10 11 12 13 14 5 6 7 8 9 30 31 32 33 34 35 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19
Industry	Render Dafry Forage Cotton Vegetables Citrus Forestry All Other Contract Part Contract Contra
Industry	L estock Livestock   Publishing   Services   Fred b   Services   Coods   Class   facturing   Coods   Class   Con-   Finance   Coods   Con-   Finance   Coods   Con-   Coods
Purchasing	Food Crops   Food Crops   000000 000000 000000 000000 000000 0000
	1.001642 .004514 .002888 .062190 .00337 .00334 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .000007 .0000007 .0000007 .0000007 .0000007 .0000007 .0000007 .0000007 .0000007 .00000000
1. Range Livestock	361658 1.015549 .010013 .208923 .004360 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430 .000430
2. Feeder Livestock	.000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .00000001 .0000001 .0000001 .0000001 .0000001 .0000001 .0000001 .00000001 .0000001 .0000001 .0000001 .0000001 .0000001 .00000001 .00000001 .0000001 .0000001 .00000001 .00000001 .00000001 .00000000
3. Dairy	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
4. Forage, Feed & Food Crops	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Azriculture 5. Cotton	-0.001125   0.000001   0.000001   0.000001   0.000001   0.0000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.0000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.000001   0.0000
6. Vegetables	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
7. Citrus Crops	-000001 $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$ $0000001$
8. Forestry	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
8. Forestry 9. All Other Agriculture	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
To liverium	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
10. 5141143	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
11. Copper	.000217  .000590  .000476  .000253  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000261  .000
12. All Other Mining	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
13. Food & Kindred Products  14. Lumber & Wood Products	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
100	000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000007 000000
15. Furniture & Fixtures	.000201 .000546 .000441 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .000307 .0000000000
o E O 16. Paper & Pulp	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
17. Chemicals	00077 00077 00077 00077 00077 00077 00077 00077 00077 00077 00077 00077 00077 00077
Manufacturing 18. Primary Metals	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
19. Printing & Publishing	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
20. Fabricated Metals	.000028 .000005 .000005 .000005 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .00000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .0000008 .000008 .000008 .000008 .0000008 .000008 .000008 .0000008 .000008 .000008 .000008 .000008 .0000008 .000008 .00000000
21. Textiles & Apparel	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
22. Leather & Leather Goods	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
為第 g . 23. Stone, Clay & Glass	000001 .000001 .000001 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .000008 .00000000
24. All Other Manufacturing	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
26. Service Stations	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
Trade 27. Eating & Drinking Places	000007 000007 000007 000007 000007 000007 000007 000007 000007 000000
28 All Other Retail	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
H D T T	.000122 .000332 .000147 .000000 .000148 .000147 .000000 .000148 .000147 .000000 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148 .000148
1 0 0 7 3	.001130 .003067 .002476 .001073 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778 .000778
Servdices	0.000126 $0.000341$ $0.000275$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$ $0.00000$
4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
32. Transportation	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
many making as appropriate making and an array of the second and a second a second and a second and a second and a second and a second	.000058 .000158 .000058 .000058 .000058 .000058 .000058 .000058 .000058 .000058 .000058 .000058 .000058 .000058
34. All other scritter	.00243 .000024 .000024 .000024 .000024 .000024 .000028 .000024 .000028 .000028 .000028 .000028 .000028 .000028
35. Contract Construction	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
36. Rentals & Finance	DIRECT AND INDIRECT REQUIREMENTS PER

DOLLAR OF FINAL DEMAND

GILA RIVER SUB-BASIN 1980 CONSTRAINED

Table G-1980-QC-c FOR WATER QUALITY

	Industry	1	2	3	4	5	1 6	7	8	9	10	11	12	13	1/	15	16	17	10	10	26		11 20						-								1 11 11 11 11 11		
	Purchasing	Pange	Feeder	Dairy	Forage,	Cotton	Vegetable	es Citrus	Foresti	ry All Other	Uranium	Copper	All Other		Tumbor L	Down Lt. www	10	1₹	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
ndustry roducing		Range Livestock	Livestock		Feed & Food Crops		, regeration	Crops		Agricultur		copper	Mining	Kindred Products	Wood Products:	& Fixtures	Pulp	Chemicals	Metals	0	Metals		Leather & Goods	Clay & Glass	Manu- facturing	Wholesale S Trade S	tations D	rinking		Services	0 0	All Other Services (	Transpor- tation		All Other Utilities	Construc	Rentals & Finance	Final Demand	Total Gross
	1. Range Livestock	0	52,173	0	0	' 0	0	0	0	0	0	0	0	828	0	0	0	. 0	0	0	0	0	0	01	0	0		Places	2			fessional)				tion		# (F)	Output
	2. Feeder Livestock	0	0	0	1,677	0	0	317	0	0	0	0	0	138,210	0	0	0	0	0	0	0	0	0	01	0		0	0	0,		0	0	0	0	0	0	0	6,666	59,666
	3. Dairy	0	0	1,679	479	0	0	149	0	0	0	0	0	111,726	0	0	0	0	0	0	0	0	0	01	0	0	0	0	0	0	0	0	0	0	0	0	0	11,021	151,225
	4. Forage, Feed & Food Crops	2,983	13,610	38,622	60	0	0	0	0	4,620	0	0	0	0	0	0	0	0	0	0	0	0	0	01	0	0	0	0		0	U	U	0	0	0	0	0	38,624	152,658
ulture——	5. Cotton	0	. 0	0	0	775	0	0	0	0	0	0	0	55,449	0	0	0	0	0	0	0	0	0	0	0	0				0	0	0	0	0	0	0	0	0	59,896
	6. Vegetables	0	0	0	0	0	193	0	0	0	0	0	0	11,586	0	0	0	0	0	0	0	0	0	0	0	- 0	0	0	0	0	0	0	0	0	0	0	0	202,237	258,462
	7. Citrus Crops	. 0	0	0	0	0	0	56	0	0	0	0	0	9,104	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0.0	0	0	0	84,856	96,636
ĺ	8. Forestry	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	1 0	0	0	0	0	9,512	18,671
	9. All Other Agriculture	0	0	0	0	0	0	0	0	170	0	0		9,931	0	0	0	70	0	0	10	0	0	0	0	0	0	11 310	0	0	0	0	0	- 0	0	0	0		2,139
ε(	10. Uranium	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	1	0	0	20,975	42,385
ng	11. Copper	0	0	0	0	0	0	0	0	0	0	34,672	2,856	0	0	0	0	0	821,836	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 0	0	0	0	906	2,687
	12. All Other Mining	0	0	0	0	0	0	0	0	0	27	13,002	114,239	0	0	0	0	29,119	73,597	0	36,134	0	0	104,389	12,209	0	0	0	0	0	0	0	0	0	0	115.839	0		866,812
	13. Food & Kindred Products	1,074	7,864	5,648	0	4,911	0	224	0	8,689	0	15,603	0	37,242	0	0	0	0	2,453	1,627	0	0	406	0	18,312	0	0 1	27,798	0	0	8,675	2,164	17,232	2,100	0	113,039	0		373,331
	14. Lumber & Wood 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	3,052	0	0	0	0	10	0	0	0	1,050	0	24.387	0	387,210	849,232 131,353
	15. Furniture & Fixtures	0	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	482	0	0	0	0	0	0	74,460	
44	16. Paper & Pulp	0	0	0	0	0	0	0	0	85-	0	0	0	10,759	225	1,444	6,274	0	0	30,503	0	0	3	0	9,156	0	0	0	6,984	0	964	0	2,872	0	0	0		10,758	32,807 80,028
	17. Chemicals	0	0	0	5,391	15,766	7,248	1,270	0	593	27	17,336	14,280	2,483	225	0	157	3,074	1,227	0	0	0	0	0	18,312	0	0	0	0	0	0	34,624	0	0	0	24.387	0		
factoring_	18. Primary Metals	0	0	0	0	0	0	0		0	0	1,734	10,281	0	0	0	0	0	22,079	0	40,385	0	0	0	30,521	0	0	0	0	0	0	0	0	0	0	0		1,124,133 1	,
	19. Printing & Publishing	, 0	0	0	0	0	0	56	0	0	16	10,402	10,281	11,586	450	442	706	1,456	11,040	8,948	4,960	137	13	5,176		4,275		6,786		114	12,530	28,132	7,659	4,200	2,572	6,097	29,412		411,484
	20. Fabricated Metals	0		0	0	0	0	0	0	0	54	13,002	11,424	0	788	0	0	0	6,133	2,440	51,012	0	0	0	18,312	0	268	0	27,935	0	0	8,656	17,232	5,250	1,286	463,358	0	101 377	728 527
	21. Textiles & Apparel	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	30, 334	30.759
	22. Leather & Leather Goods	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 1	1.614	1 751
	23. Stone, Clay & Glass	0	0	0	120	2 0/2	207	0	0	170	121	5,201	17,136	828	2,139	0	0	0	6,133	1,220	0			147,526		0	0	0	6,984	0	0	0	0	0	0	621,875			
>	24. All Other Manufacturing	170	007	7 060	839	2,843	38/	93	6	503	27	13,002 9,535	8,568	12,414	900	531	314	2,103	20,853	3,254	23,381	384	5		236,534	254,367	0		17,460	0	0	41,116		16,799		67,065	n	808 917 1	1 600 450
	25. Wholesale Trade	716	307	1,009		2,585	1,230	100	//5	393	11	9,000	1		2,364	147	7.53	9/1	3,680	7,321	20,547	247	0	7,765	9,156	36,338		74,643	38,411	515	14,458	60,592	19,147			262,163	14,706		2,356,918
ie   7	26. Service Stations	710	302	1,009	7/9	2,303	870	131	43	297	3	6,934		1,655	450	59	1.000	162	3,680	4,067	2,834	219	0	863	6,104				3,492	2,344	8,193	32,460	4,787	1,050	10,932	18,290	0 1	1/5,791	302.116
Re	27. Eating & Drinking Places 28. All Other Retail	239	3,629	2 7/8	2 //56	13,182	3,962	504	26	4 747	3	7.801	5,141	828	4.278	118	1,090	1 205	2,453	2,034	3,543	13/			3,052			11,310	10,476	172	7,229	4,328	6,701	4,200	2,572	6,097	24,510	1,040,232 1	1,146,045
>	29. Agricultural Services	119	756	/58	4 852	42 398	1.063	6,330		8/8	33	7,001		4,900	4,278	110	0	1,295	4,913	6,101	9,211	494	0	7,766	7,630		1,873	11,310	38,411	572	9,157	34,624	8,616	15,814	7,074	48,775	29,412	3,517,369 3	896,634
		- 0	7.50	430	4,032	42,300	1,003	0,330	1	040		6.068	7.997	1 655	220	50	202	204	1 227	0 110	0.027	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0			
vices	30. Lodging 31. All Other Services (Except Professional)	0	0	0	120	1,034	200	56	1 2	127	40	20,000		1,000	4 300	354	1 020	7 601	2,727	2,440	2,834	82	0	0	3,052	32,063	535		6,984	0	10	2,164	2,872	1,050	3,858	0	9,804		57,169
	32. Transportation	776	3.026	4 885	1 797		3.189	27	41	424	81	52 000	51,407	33,104	6,753		6,274	4,853	39/252	10,168	15 597	384	142	28,470	18,312				15,233	1,086	36,145	97,381	29,678	4,200	31,510	54.871	58 823	1 523 651 2	271 004
	33. Electric Energy	418	3024	1.832		3,010		//85	0	848	228	21 670		12.414			2.353			12,608	15,587	521	31					16,964 1		4,231	2,410	32,460	31,593	14,699	8,360	48,775	4,902	166,664	957,351
ities	34. All Other Utilities	179	151	305	1 1	1,551	103	10	0	212	54	26.004	17 136	6,621	2 251		1 882	2 103	38,025			321	71	12,043				13,571				,	22,100	113,241	4,301	12,194	39,215	327,545 1.	.067,776
	35. Contract Construction	0	0	0	0	1,,,,,	1,73	17	0	0	161	13,002	9,710	9,931	1,801	0	1,002	485	12.710	7,728	20,402	329	10		21,364			23,750	80,314	1,429	18,795	36,788	33,507	38,848	10,932	24,387	58,823	124,365	647.271
		7,637	3,932	3,664	1.857	13,440	2,899	2,409	66	1.229	94	8.668	111.383		6,303	1,120	2,745	R 089	27 110	3,000		384	19		12,208			10,179			15,422	19,476	4,787	4,200	8,360	1,603,462	205,881	4,185,393 6.	,213,630
	37. Final Payments	45,346	64,575	90,679	38,630		73,250	- 1,107		18,733	1.622	558,229			89,144	ALC PROPERTY OF THE PARTY OF TH		7.5	33,119	16,268	21,964	1,042	1 110							3,602		00,127	404023	33,047	20,300	121,930	147,058	3,776,377   4,	ONE SEC
		- 59,666	151,225	152,658							2,687		573,551	1		32,807		pp.	to an a second			25,549		455,573 1.		386,475 22		19,673 3,0		42,589	324,816	1,720,080	650,042	/21,228	506,44L	2,689,672	4,283,213		3
	,-				1 33,070	1 270,402	1 70,030		, , , ,	42,303								178,093	1,229,132	411,484	728,527	30,759	1,751	873,134 [1.	,608,450 2,	356,918 30	2.116 1.14	46.045 3.8	96 634	57,169	481,927	2,271,901	957,351	1.067.776	647,271	6,213,630	4,905,759		

																		44-4-					12			<del></del>
	Industry	1 2	3	4	5 6	7	3 7	10 11	12	13 14	15	16 17	18	19	0 1	22	23 24	4 25	26 2	7	в 29	30 31	Tempspor - Kilo	34	35 36	
	Purchasing	Range Feeder	r Dairy	Forage,	Cotton Vegetable	es Citrus Fore	estry   All Other	Uranlum Copper	All Other	Food & Lumber	6 Furniture 6 P.	aper &   Chemica:	1 1	Printing a Fabri Publishing Met			flome, All (	Other   Wholesal	Service Enti	ng & All	Other Agricul-	Lodging All Other		tric All Other cry Utilities (	Contract Rentals & ountract Finance	
Ind: -try		Livestock Livesto	ock	Food &		Crops	ngii~ culture		Mining	Products Produc	ts	rutp	rictaria	rubilaning det	ara   Apparer	Leather Goods	Clay &   Mam Glass   factu	u= Trade	Stations Drin	king   Rea	Services	cept Pro.)			fou	
Producing	l Human i Sucatorik	1/5	000		000	000	10 1 000	000 -	000	001 000		000 = 000			000	000	.000 + 00	00 = 000	fun   11	700 , (	000 ,000	.000	-000	000 000	000	
	2. Feeder Livestock	000, 000	000	028	000.	017	10 .000	.000	0.000	167 000	000	000 000	.000	.000	000 .000	000	000	000	.000	00	.000	.000 .000	.000	000 - 000	000 000	1.
	2. Predaty Livestock	.000		000	000	608 00	000	.000	0 7000	135 000		000 000	000	000	000	000	.000	.000	0.00	- ,	,000	.000	000	V60 (000	.000	2.
	5. Barry	.000	.011	.008	.000		10	000	000	000	000	000 ,	000	000	000	.000	.000	.000	.000 .0	00 ',	000	000	000	000 000	000.	3.
A	4. Forage, feed & Food Crops	.050090			000	.000	000	000	0 000	067 000	000	000 000		600	000		.000	.000	.000 .0	00 _ '	000	000	000	000	.000 ,000	4.
Agriculture —	J. GOLION	000.		.000	.000	.000	000	000	000	01/4	000	000 : 000	000	200	000		.000	10000	.000	00 ',	000	.000		000, 000	.000	
	o. Vegetables	000.	.000	.000	.000	.000	000	000	0 000	011		000 .000			00   1000	.000	.000	00 ] .000	.000	00	000	000	.000	,000	000 000	6.
	7. Citrus crops	.000			000.	.003	000	000	0 000	000 010	.000	000		000	000	.000	.000	000	.000 .0	00	000	000	000	000	000, 000	1.
	8. Forestry	000.	.000		.000	.000	.000	000	000	012 000	.000	000	.000	000	000		.000	.000	.000	00	1 000	.000	.000	000,	.000	8
<b>├</b>	9. All Other Agriculture	.000	.000	.000	.000	.000	.004	025	000	000	000	000   000	000	000	000		.000	.000	.000	10	000	.000	000.	.000	•000	9.
•	10. Uranium	.000	.000	.000	.000	.000	000	000	0 005	.000		000	670	000			000   000	.000	.000	00	000	.000	.000	.000	.000	10.
Mining ———	11. Copper	.000	.000		.000			010	5	000.000		.000 .000	060	000	.000			.000	.000	00		.000	.000	.000	.000	11.
<u> </u>	12. All Other Mining	.000	.000	.000	.000 .000	.000	305	.010	9 000	000.	.000	.000	.000	.000	000	350	.121 .00	.000	.000	00	000	.000	.000	000 .000	.019 .000	12.
	13. Food & sindred Products	.052	037 -	000	.019 .000	.000	203	.000	3 000	.043 .000	.000	000	001	000	.000	430	.000 -  01	.000	.000	13	.000	.018	.018	02 000	.000 .000	13.
	14. Lumber & Wood Products	.000 .000			.000	.000	.000	.004	.004	.000 .018		.230 1 .000		000	.000		.000	02	000 .0	00	.000	.000	.000	000	,004 ,000	14.
	15. Furniture & Fixtures	.000 .000	.000	.000	.000 000.		.000	.000	000	.000 .000	.068	.000	.000		.000	000	.000 .00	.000	.000	00	.000	.000 .000	.000	.000	.000	15.
	16. Paper à Pulp	000.000	.000	.000	.000	.000	00 .002	.000	0 .000	.013 .002	.049	.080 , .000	.000	.0/3	.000	.002	.000 .00	000	.000 .0	00	000	.002 .000	.003	.000	.000	16.
	17. Chemicals	.000 .000	.000	.090	.061 .075	,068	.014	.010 .020	0 .023	.003 .002	.000	.002		.000	.000	000	.000 .01	.000	.000 .0	00	.000	.000 .016	.000 .0	.000	.000	17.
Manufacturing_	18. Primary Metals		.000	.000	.000 .000	.000	000	006	2 .018	.000 .000		.000		000	.000	-000	.000 .02	.000	.000 .0	00	000	.000	.000 .0	000:000	.000	18.
	19. Printing & Publishing	.000000	.000	.000	.000 .000	.003	2000	020	5 020	.014 .004	015	.009	.009	.022	.005		.006 .01	.002	.025 .0	06	133	.026 .013	.008 .0	04 .004	.001 .006	19.
	20. Fabricated Metals	.000 .000	.000	.000	.000 .000	.000	000	.020 .01	0.020	.000 .007	.000	.000	.005	.000	.000		.000   .01	.2 .000	.001	0000	.000	.000 .004	.018 .0	05 .002	.076 .000	20.
	21. Textiles & Apparel	.000	.000_	.000_	.000 .000	.000	.000	.000	.000	000.	.000	.000	.000	.000	.014	.025	.000	.000	.000	00	.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	1 1	.000		.000	.000	.000	.000	000	.000	.000 .000	.000 .0	.000	.000000	22.
	23. Stone, Clay & Glass	.000 .000		000		000	.000	.045		100.			1	.003		.000		.000	.000 .0	00	.000	.000	.000	.000	.102 .000	23.
<b>&gt;</b>	24. All Other Manufacturing	.000000	.000	- 002	.011 .004	.00501	.004	.010	.015	.015 .008		.004	!	008	!			.119	.000 .0	00	.000	.000 .019	.063 .0	16 .019	011 000	24.
	25. Wholesale Trade	.003 .006	.007	.014	.017 .013	.009 .009	.014	.004		045 021	033	.000 .006	.003	i	I	000_	.00900	06	0120	66	.009		.0200	.016	.043 .003	0.5
	26. Service Stations	.012 .002	.007	.013	.010 .009	.007		.002	.006	.002 .004		002	.003	. 010		.000	.001 1 .00	.002	.007	01	001041	.017 .015	.005 .0	.017	.003 .000	26.
Trade	27. Eating & Drinking Places	.000	.000	.000	.000	.000	.000	.001 .000	0 .009	.001		.014 .005	.002	.005	005   .005 _	-j -oōo	.001	2 .003	.005		003 - 003	.015 .002	.007 .0	.004	.001 .005	27.
<u></u>	28. All Other Retail	.004000 .0240	.01800	.041000	.051000 .04100	00 .027000) .03		.013000	.026000	.006000 .038	005 .004000	.000001	03 .004007	015000	.018000	.000000	.00900200	.034000	.007000 .0	100000	.010000		.009000 .0	.011000	.006000	28.
	29. Agricultural Services	.002 .005	.003	.081	.164 .011	.339 .00	- · · · · · ·	.000	.000	.000   .000	000	.000	1	· <del>-</del> -		.000	.000		.000 .00	00	.000	.000 .000	.000 .00	.000	.000 .000	29.
Services-	30. Lodging	.000 .000	.000	000	.000 .000	.000		.001	.014	.002 .003	002	.005	.001	.006	004 - 003	000			.00200		.000	.000 .001	.003 .0	006	.000 .002	30.
	31. All Other Services (Except Professional)	.000 .000	.000	.002	.004 .003	.003 .00	.003	.015 .039	5	.020 .039	.012	.013		025		.026	.03301		.024 .0		.019	.075 ,045	.031 .00	04 .049	.009 .012	31.
	32. Transportation	.013 .020	.032	.030	.014 .033	.002 .03						.080 , .030			.012	.007	.071 .02		.053 .03		.074	.005 .015	.033 .03	.013	.008 ' .001	32.
	33. Electric Energy	.007 .002	.012	.012	.016 .019	.026		.085 .02	I		.030	.030021_		.022	027 - 019 -	.019	.023 .02	2 .063	.044 .0:		.009	.005 .013	.012 .10	.007	.002 .008	33.
Utilities—	34. All Other Utilities	.001	.002	.002	.006 .002	.001	.005	.020030		.008 .020		.024 .013	.019	.019	.012	1	.01501	4	.036 .03		.025	.039 .017	.035		.004 .012	34.
	35. Contract Construction	.000 .000	.000	.000	.000 .000	.000 .00		.060 .01	0 E	.012 .016		.000 .003	.012	.009	.014	.012	.003 .00	8 .014	.023 .00	. 9	.000	.032 .009	.005 .00		.263 .042	35.
	36. Rentals & Finance	.128 .026		.031	.052 .030	.129 .03		.035   .038	0 .195	.040 .056		.035	.027	.040	.038	.026	.01601	2 .055	.056 .03	i .	.063	.042 .041	.051 .09	.041	.020 .030	36.
Note: Each entry sho						5				9					15			-1-	er to a to			ی استنسان بیشانیسست در و استانیست از ا	9 8 80 TO 10 1 TO 10 10 10 10 10 10 10 10 10 10 10 10 10	CHASES PER DOLLAR OF		

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-2010-CONSTRAINED FOR WATER QUALITY Table 2010-QC-b

The half the first of the state 
																	1						-	1	1										-		
	Taduatwy	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	All <sup>3</sup> Other	32	33	34	35	36
	Industry Producing	Range	Feeder	Dairy		Cotton	Vegetables	Citrus	Forestry	All Other	Uranium	Copper	All Other	Food &	Lumber &	Furniture	Paper &	Chemicals	Primary P	Printing & Fal	bricated	Textiles &	Leather &	Stone,	All Other W	nolesale	Service Eat	ing & /	All Other	Agricul-	Lodging	Services	Transpor	Electric	All Other C	Contract	Rentals &
Industry Purchasing		Livestock	Livestock		Feed & Food Crops			Crops		Agriculture			Mining	Rindred Products	Products	& Fixtures	Pulp		Metals P	rublishing !	Metals	Apparel		lay & Glass		Trade	Stations Dri	laces		Services	A STATE OF THE STA	(Except Pro-	tation	Energy	Utilities	Construc- tion	Finance
1 01 01100 2116	Y				Tood Grops									-		000001	000591	005117	000107	002212	001479	000000	000000	001372	.003866	006974	.013589	-001199	008684	006502	000660	005058	010522	012567	007760	200650	
	1. Range Livesteck	1.001668	.004776	.003142	.051387	.001342	.000280	000220	.000004	.000253	.000005	.000146	.001738	.019962	.000217	1000001	.000381	.005117	.000197	.002312	.001478	.000000	.000000	.001372	.007696	014821	-009326	.001310	.034036	015770	000000	.0037305	.019522	.013567	.007762	.009650	.140361
	2. Feeder Livestock	.349800	1.013729	.009570	.111343	.004265	.000890	.000700	.000009	.000778	.000010	.000249	.003159	.063468	.000448	.000001	.001455	.011145	.000334	.003/39	.002046	.000000	000000	.001276	.009370	016356	.012656	001075		.015770	.000925	.007705	.038099	.013899	.008511	.008257	.089227
	3. Dairy	.004966	.014272	1.018943	.259641	.002814	.000587	.000462	.000008	.000518	.000019	.000337	.006162	.041879	.000400	.000001	.001193	.024652	.000437	.003027	002202	.000000	000000	002054	012453	010016	017000	002162	047522	.024804	.000961	.008380	.051672	.025671	.009709	.006070	.049165
	4. Forage, Feed & Food Crops	.009931	.028775	.008629	1.006283	.000241	.000050	.000040	.000007	.000065	.000067	.000690	.021873	.003584	.000379	.000001	.000804	.093338	.000823	.004942	002908	- 000000	000000	.002034	022215	024494	018364	002412	059019	16/051	.001390	.013958	.049503	.026380	.012631	.007381	.05923
Agriculture —	5. Cotton	.001294	.003687	.002995	.001187	1.004478	.000307	.000241	.000009	.000288	.000047	.000731	.015411	.021855	.000484	.000002	.001179	.063/10	.000932	.003040	003024	.000000	000000	.002264	013653	017222	010582	001688	0/52/1	011051	.001462	.018099	.038983	.032063	.019102	.009351	.083525
	6. Vegetables	.000081	.000231	.000188	.000076	.000092	1.002023	.000015	.000006	.000033	.000056	.000630	.018226	.001372	.000339	.000001	.000694	.077496	.000766	.004137	.002028	.000000	000000	.001779	.015763	010570			.045241		.001189	.012098	.044388	.031975	.009852	.006173	.04863
	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	.013763	.018572			.036961		.001589	.021373	.040382	.046537	.019984	.014398	.17683
	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	.000317	.002/12	.004537	.021372				.000327	.003857	.022354	.002897	.002852	.003434	.03616
	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	-0000000	.000000	.002847	.020364	.032619	.012645	.002273	.127520	.033655	.001970	.020412	.040811	.042866	.018337	.012894	.068750
	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	.068/3/	.025425	.014604	.004488	.003352	.020815	.000045	.002659	.028869	.048109	.116352	.033401	.091830	.062943
Mining-	11. Copper	.001345	.003831	.003112	.001233	.001526	.000319	.000251	.000079	.000297	.000091	1.045081	.029728	.022710	.004134	.000010	.002295	.023758	.004671	.017632	.022724	.000000	.000000	.012991	.033320	.020955	.011462	.002280		.000476		.050642	.078100	.043594	.042559	.029023	.03600
	12. All Other Mining	.000403	.001147	.000931	.000386	.000457	.000095	.000075	.000128	.000248	.003916		1.272848	.006796	.006718	.000022	.003704	.034926	.026567	.032786	.037793	.000000	.000000	.054611	.048633	.037467	.012310				.020852		.140263	.142008	.062536	.055599	.29138
	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	.03/592	.060436	.009128		.020700						.021085	.027258	.08929
	14. Lumber & Wood Products	.000167	.000477	.000387	.000160	.000190	.000040	:000031	.019370	.000096	.000022	.001005	.007001	.002825	1.019485	1.072066	050370	.003010	000000	.009035	002202	.000000	.000000	.002665	.024041	.029614	.006926	.006180	.045035	000057	.004374	.033136	.074836		.031319		
	15. Furniture & Fixtures	.000152	.000434	.000352	.000145	.000173	.000036	.000028	.000747	.000079	.000005	.000692	.001539	.002570	.039324	000000	1.090/20	.001186	000980	015025	.003393	.000000	000000	002003	022102	012025	005050	019665	015049	.000037	.004076	.024943	.061937	.050484	.037733	Management of Albert	
	16. Paper & Pulp	.000306	.000873	.000709	.000301	.000347	.000073	.000057	.005273	.000250	.000010	.000646	.003275	.005169	.277530	.000008	001051	1 026754	.000902	017675	.000090	.000000	000000	011720	021060	017160	004736	.018003	.013940	0000129	.007608	.038122	.1144/6	.058302	.042847	.014547	.0/3621
	17. Chemicals	.000190	.000541	.000440	.000184	.000216	.000045	.000035	.000032	.000132	.000722	.005051	.234693	.003208	.001680	.000007	.001931	020192	1 02/272	.017673	.009311	-000000	000000	021600	.031060	.01/100	012090	0057/2	020021	000070	.000014	.04/314	.061640	.056196	.030364	.020218	.114953
Manufacturing	18. Primary Metals	.001171	.003337	.002710	.001078	.001329	.000277	.000218	.000091	.000296	.000312	.715384	.101331	.019778	.004804	000000	.003104	.020102	001079	1 026750	010262	.000000	000000	007100	020768	025096	012/41	007941	020931	000147	.009298	.051625	.100/44	.080879	.058139	.044336	.080723
	19. Printing & Publishing	.000406	.001156	.000938	.000380	.000460	.000096	.000076	.000411	.000162	.000009	.000767	.002833	.006848	.021615	000008	.004202	.001349	.001078	01/22/	1 004402	-0000000	000000	006965	.020708	040103	007729	009941	.020020	0000147	.007734	.037344	.048467	.038076	.029760	.020156	.059918
	20. Fabricated Metals	.000239	.000681	.000553	.000227	.000271	.000057	.000045	.000024	.000130	.000240	.046233	.078022	.004035	.001240	.000006	.000034	.004622	.003602	.014224	1.084403	.000000	.000000	.000003	.038010	012222	0007720	006004	.022386	.000063	.007304	.046916	.046463	.055486	.035042	.018206	.068238
	21. Textiles & Apparel	.000173	.000494	.000401	.000165	.000197	.000041	.000032	.000008	.000096	.000006	.000479	.001789	.002927	.000421	.000004	.000934	.000808	.000673	.007646	.003219	1.014327	1 000127	.003541	.022204	.013332	.009313	.006094	.021173	005612	.003732	.039361	.017/85	.028022	.017346	.024609	.048378
	22. Leather & Leather Goods							.002960							.002073	.000002	.007382	.004872	.000607	.014462	.003655	.025358	1.000127		.016786	.010347	.003610									.026919	.056161
	23. Stone, Clay & Glass	.000212	.000605	.000492	.000200	.000241		.000040							.001450	-			.004507	.015083	.009122	.000000	.000000								.004073	.057703	.114286	.059800		.018093	.076119
	24. All Other Manufacturing	.001017		.002353			000241	.000189	.000098	.000248	.000071	.018182	.022963	.017173	.005137	.000004				.015689	.019277	.000000	.000000		1.193315				.010936		.003799	.024347	.037360	.041478		.019132	
j.	25. Wholesale Trade	.000301	.000858	.000697	.000282	.000342	.000071	.000056	.000021	.000118		.002618						.003083	.003716	.008481	.007595	.000000								22/22/00		.048380		1000077	.030430	THE RESIDENCE OF THE PARTY OF T	
	26. Service Stations			.000349			.000036	.000028	.000018	.000100	.000008	.000477	.002541	.002549		.000004		.000987	.000665	.028597	.006580	.000000	.000000		.011563				.012045			.034639	.062202	.059651			
the left and a spart etail	27. Eating & Drinking Places	.007442	.021208	.017210	.007915	.008436	.001761	.001385		.011671	.000007	.000484	.002426	.125528	.000347	.000002	-		.000675	.011506	.003692	.000000	.000000	.003430	.020378	.080363									.030978		
X X X X	28. All Other Retail	000114	.000326	.000264	.000110	.000130	.000027		.000030	.000069	.000009		.002831	.001929		.000003	.005457	.001115	.001098	.036480	.012628	.000000	.000000	.006096	.015309	.01/182					.003175		.042418	.036660	.030451	.025366	.05338
IA		.000143	.000409	.000332	.000136	.000163	.000034	.000027	.000006	.000076	.000003	.000283			.000299		.000865	.000691	.000399	.005652	.002940	.000000	1000000	.001283	.0103/5	.014311					.001071		.082764		.033331	.008301	
O I	29. Agricultural Services						.000310		.000031	.000435	.000010	.000477	.003365	.022088		.001075		.002250	.000658	.030912	.005898	.000000	.000000	.006997	.012411	.040595	.020290								.047667	· man	
Services——	30. Lodging 31. All Other Services (Except Professional)	.000156	.000445		.000147	.000177	.000037	.000029	.000012	.000067	.000018	.000884	.005910	.002638	.000646	.000003	.001757	.017900	.001223	.016846	.007691	.000000	.000000	.003266	.032709	.033960	.017120		.020/30			2.03,1330		.024012			
0	32. Transportation	.001336	.003808	.003093	.001233			.000249		.000361		.002252	.004076	.022571	.001651	.000005	.005342	.002313	.003197	.012361	.023440	.000000	.000000	.003604	.086277	.027960	.007688										
5		.000248	.000706		.000233		.000059		.000030	.000110	.000005	.000787	.001762		.001591	.000002	.000962		.001115	.007306	.008815	.000000	.000000	.002271			.002750					.012198				.013314	
Utilities	33. Electric Energy 34. All Other Utilities			.000232			.000024	.000019	.000008	.000073				.001692		.000007		.001509		.007255	.005564	.000000	,000000	.003617		.021626	.019022								1.023155		-
1	35. Contract Construction	.000131	.0003/3	.000000	.000124	.000140	.000031	.000024	·OOTT	.00000	*000515	.000000	.000943	.002203						.007796	.115648	.000000											AND THE SECURITY SHOWING THE RESERVE AND ADDRESS.		.020419		
				I was a second and				.000011			to the commence of the state of	The state of the s	The second secon	The state of the s	.000455	.000003	.000684	.000668	.000451	.007435	.005465	.000000	.000000	.007679	.003670	.0077531	.000954	.005694	.0082421	.000022	.0024/2	.016626	.004754	.012610	.015038	.060485	1.037027
	36. Rentals & Finance				STATE OF				-	1					-				100										13	1	1				T REQUIREMENTS		



# 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

2010 Quality Unconstrained - 2010 Quality Constrained

# Industry Producing

Industry Purchasing	Orther Ail
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	

# Industry Producing

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

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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	Printing.							
Producing	ATIEN	ino legale		other vices	irateport,	. 0	Other 12th	હુ ૂં ધ
Industry	37123381	Who leade	Otherail	et ice	2570	kilectric	ner lik	Rentals &
Purchasing	Projet	Whoted	ornera.	Ortho Ed.	Transfor	vec exe,	OF The	gent hat
•	ν	· · · · · · · · · · · · · · · · · · ·		- 50	. 200	Riectered		
Range Livestock								
Feeder Livestock			.000001					
Dairy			.000002					
Forage, Feed & Food			.000002					
Cotton			.000001					
Vegetable & Melon			.000001				,	
Citrus Crops			.000002					
Forestry								
Other Agriculture			.000001					
Uranium			.000001					
Copper					•	•		
Other Mining			.000003			•		
Food & Kindred			.000003					
Lumber & Wood			.000016	.000001		.000001	.000001	.000002
Furniture & Fixtures				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				• • • • • • • • • • • • • • • • • • • •
Paper & Pulp	3 · · ·							
Chemicals			.000009					.000001
Primary Metals	•		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Printing & Publishing			.000001					
Fabricated Metals			.000001					
Textiles & Apparel			.000001					
Leather & Leather Goods	3							
Stone, Clay & Glass			.000008					.000001
Other Manufacturing			.000003			•		, , , , , , , , , , , , , , , , , , , ,
Wholesale Trade			.000003				•	
Service Stations			,000002					
Eating & Drinking			.000002					
Other Retail			.000004					
Agricultural Services			.000004					
Lodging			.000001					
Other Services			.000001					
Transportation			.000001				•	
Electric Energy	.000002	.000001	.000058	.000003	.000001	.000003	.000002	.000006
Other Utilities	.000002	· OOOOOT	.000038	.000003	*00000I	.000003	.000002	.00000
Contract Construction			.000001					
Rentals & Finance	r		•000001					

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		e &	,				,	 XV	Kners <sup>y</sup>	X	rion &
Industry Purchasing	Printing	Wholesale	service service	ns Other ail	Lodeling	Other vice	es Transpor	Riectric	orher 11	cantract Contract	Rentale &
Range Livestock	**************************************	· • • • • • • • • • • • • • • • • • • •		.000004	<del></del>			*****************			
Feeder Livestock				.000006				000001			.000001
Dairy Forage, Feed & Food	.000001			.000016		.000001			.000001		.000002
Cotton	.000001			.000014	•	.000001		.000001	.000001		.000001
Vegetable & Melon	.000001			.000009		.000001		. 000001	.000001		.000001
Citrus Crops	.000001			.000014		.000001			.000001		.000001
Forestry	.000001		•	.000014		.000001		• • • • • • • • • • • • • • • • • • • •	.000001		.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							000001				
Chemicals	.000002	.000001		.000053		.000003	.000001	.000003	.000002		.000005
Primary Metals								•			
Printing & Publishing Fabricated Metals				.000009		000001		000001			.000001
Textiles & Apparel				.000011		.000001	•	.000001			.000001
Leather & Leather Goods											
Stone, Clay & Glass	.000002	000001		.000056		000003	.000001	.000003	000003		.000006
Other Manufacturing	.000001	.000001		.000036				.000001			.000003
Wholesale Trade	.000001			.000018		.000001	,,,,,,,,,		.000001		.000003
Service Stations	.000001			.000019		.000001			.000001		.000002
Eating & Drinking	.000001			.000015		.000001			.000001		.000002
Other Retail	.000001			.000027			.000001	.000001			,000003
Agricultural Services				.000008							.000001
Lodging	.000001			.000021		.000001	.000001	.000001			.000002
Other Services				.000013		.000001		.000001	.000001		.000001
Transportation				.000009							.000001
Electric Energy	.000017	.000005	.000003	.000457	.000001		.000011	.000025	.000017	.000002	
Other Utilities				.000010		.000001		.000001			.000001
Contract Construction Rentals & Finance				.000010				.000001			.000001
Wenters & Linence				.000004							

Table CRB-G-22a

Absolute Changes in Direct Input Requirements Per Dollar of Output in the Gila Sub-Basin

1980 Quality Unconstrai	ned - 1980 Quality Constrained	2010 Quality Unconstrat	ined - 2010 Quality Constrained
Industry Producing		Industry Producing	
Industry Purchasing		Industry Purchasing	To the state of th
Lumber & Wood	.000004	Lumber & Wood	.000005
Printing & Publishing	The state of the s	Printing & Publishing	.000001
Chemicals	.000002	Chemicals	.000003
Primary Metals	.000006	Primary Metals	.000007
Stone, Clay & Glass	.000002	Stone, Clay & Glass	
Lodging	.000001	Lodging	.000001

Electric Energy

.000062

22

Electric Energy

. .000029

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

#### Industry Producing

Rentals & Finance

Floudcing		•
Industry Purchasing	or her sil	Rental & Buce
Range Livestock	**************************************	
Feeder Livestock		
Dairy	.000001	
Forage, Feed & Food	.000001	
Cotton	.000001	•
Vegetables	.000001	
Citrus Crops	.000001	•
Forestry	. 000001	
Other Agriculture	.000001	
Uranium	.000002	
Copper	.000001	
Other Mining	.000003	
Food & Kindred	.000003	
Lumber & Wood	.000005	
Furniture & Fixtures	.000001	
Paper & Pulp	.000003	
Chemicals	.000003	
Primary Metals	.00008	
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	

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

1,6

Industry Producing	17.9			ctuting 332	ned - 201		ď	Ç	,	des tract	oction &
Industry Purchasing	Printing	aning ricated and reading the real of the	Other hite	cturing leade	Other all	other dic	es Transports	silectric	Other 12	contract	Rentals Bergindrice
Range Livestock Feeder Livestock Dairy Forage, Feed & Food Cotton Vegetables Citrus Crops Forestry Other Agriculture Uranium Copper Other Mining Food & Kindred Lumber & Wood Furniture & Fixtures Paper & Pulp					.000001 .000001 .000002 .000002 .000002 .000003 .000008 .000003 .000009 .000003 .000009						,
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 Agricultural Services Lodging Other Services Transportation					.000007 .000013 .000006 .000003 .000004 .000002 .000002 .000002 .000002	.000001	.000001				.000001 .000003 .000004 .000002 .000002
Electric Energy Other Utilities Contract Construction Rentals & Finance	.000003	.000001	.000001	.000001	.000076 .000001 .000002 .000001	.000003	.000003	.000003	.000002	.000002	.000004

# 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

			4	şee <sup>o</sup>			Ca.	^	ي و	ed clay
	Industry Purchasing	Range Reaccit det est	Dalty Rotage of	d Rotestry Other ic	Tranta (	other line food b	ed tubber o	Chenical	esticate	
	Range Livestock	`								
	Feeder Livestock	109	003							
	Dairy		005			.005				
	Forage, Feed & Food							.017		
	Cotton							.007		
	Vegetable & Melon							.019		
	Citrus Crops							.010		
	Forestry		.004			.004				
ى ك	Other Agriculture Uranium		004		.010	.004				
л	Other Mining	•			.010	.005	.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								001	002
	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	*Link	,	tal	,	tation			NOTE (
	Industry Purchasing	Orther uffactive inte	, le Recicul	ices orher	ices Transf	ortation siectri	ed other 12	Lies Contrac	Ericklon &
	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	2 7			.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	· <b>,</b> 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 Producing

			×			&ce'd	4	re			ę		~ · · · · · · · · · · · · · · · · · · ·	
	Industry Purchasing	RANGE	grock get	stock Dalty	KOTAGE T	od Rotest	other lo	il turanti	othet i	rood &	ed Limber	Chemi	eals printing his	
	Range Livestock	003			003					.010				
	Feeder Livestock	032			004									
	Dairy				007					.004				
	Forage, Feed & Food											.026		
	Cotton											.005		
	Vegetable & Melon											.026		
	Citrus Crops Forestry								.004			.005		
	Other Agriculture	, 40	~		.005					.004		.005		
၁ ၁	Uranium	3.	- Sec		.005			.005		.004		.003		
J	Other Mining							.005			.003	.005	.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			•										

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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												
		ć	127	112112	2	•	٠,	te.		rtatao.	c	۵ ۵	c crion &
]	Industry Purchasing		95 Other nuf	activities all who is a second	secutor	Others'	her tentr	re Other w	ices Transp	Statton Stept	other 11	cies contract	Replication &
	Range Livestock Teeder Livestock		006				.004		.006				.003
	airy						.005		.005	.006			.004
1	Forage, Feed & Food						.006			.005			.005
	Cotton Vegetable & Melon						.003			.003			.004 .004
	Citrus Crops						.003		.003	.004			.005
	Forestry				.003				.003				.003
ა (	ther Agriculture	,,,- /i-	~		.003		.005			.003			.003
~	Jranium	3 12	<b>"</b> \$			.005		.003	.003	.004			.005
	ther Mining	.003	.006	.003		.003			.003	000		.003	,
	Food & Kindred Lumber & Wood					.003				.003			
	Chemicals					.003		.016		.003			.005
	Printing & Publishing							.010		.004	•		.005
	abricated Metals									.003			.004
	Stone, Clay & Glass	٠,								.011	.004		.003
	Other Manufacturing		.003	•				.003	.004				
-	Molesale Trade Service Stations	•		•					.005	000			
	Other Retail									.003			.004
	Transportation									.004			.004
	Electric Energy												.003

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# 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 Producing	о			<del>geed</del>		.e⁰			د		<b>.</b> 9 .	<sub>ઌ</sub> ૢૢૢૢૢૢૢૢૢૢૢૢૢ૽૾
	Industry Purchasing	Parke tocker	astock Dalry	40tage.	od Rotes	other ic	ultul dran	other of	is sood s	red limber o	Chemic	als Principle	hind cated
	Range Livestock			003						•			
	Feeder Livestock -	.121		009									
	Dairy		008	005					.005		∙005		
	Forage, Feed & Food							.005			.017		
	Cotton								•		.008		
	Vegetable & Melon							.005		•	.020		
	Citrus Crops							.006			.010		
	Forestry Other Agriculture			004					.004				
ې	Uranium			.004			.019		.004		.003		
9	Other Mining						• 47.5	.004		.004	.005		
	Food & Kindred	.004	040	007		.004		.004		,			
	Lumber & Wood				013		•			.005			
	Chemicals							.012		•			
	Fabricated Metals												
	Stone, Clay & Glass							.009			.006		
	Other Manufacturing							.005					•
	Wholesale Trade	• ,	000						007				
	Eating & Drinking		009						.007				
	Other Retail Agriculture Services												
	Other Services											.003	
	Transportation												
	Electric Energy												
	Contract Construction									.004			.006

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									ortation Clerki			
Producing		A	170	,			<del>L</del> e		akil	•		. of 44
	ර	<sup>8</sup> 34	LUE.	Ş\$° .€	, 00 m	N.	UN A	8	والمراكبة	بغ	.05 cX	CKIN VO W
Industry	209.0	8 et	480 V68	ale service	, v.	V very	Cer ex	Lee 359	ect ?	ed of	The Kast	Trib ata anci
Purchasing	stone las	other	afacturing	S CO CYN	Jons Other a	Agricul	cet other	Mice's Transp	ortal ectri	control	ties contract	Refrance
m	<del>28</del> .				0 80	. 2	- 2			- 0	- 6	-005
Range Livestock		.007			205			.018	001			.005
Feeder Livestock			002		005			.030	.004	000		.005
Dairy			.003					.011	.010	.003		.013
Forage, Feed & Food						227		.007	.012			.010
Cotton				0.0=		.006		.006	.003			.006
Vegetable & Melon	•			.007		.007		025	.007			.008
Citrus Crops	,		1007			.005	.003	.014	.011			.010
Forestry							070	013				.004
Other Agriculture			010			.007		.003	.006			.006
Uranium	001				.005		.006	.008	.009	.005	.013	.007
Other Mining	.004	<b>L</b>	.004				.004	.007	.006		.004	.006
Food & Kindred								.004	.004			.004
Lumber & Wood		•			.003		017	.011		•		.007
Chemicals	.004							.003	.004			.007
Fabricated Metals		•			221		.004	.004		.004		.004
Stone, Clay & Glass	.004				.004		.005	.006	.010		.004	.009
Other Manufacturing		.003	.004				.003		.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	á			.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				4eed		.0,					. 6	<b>&amp;</b>
•	Industry Purchasing	Range esto	Reedet atock	ch gotag	Food Bor	estry other	Leulfure	orher of	hre good w	dred Limber	d chemi	eals Princips	, c.
	Range Livestock	003			***********				.011				
	Feeder Livestock	036		005							.004		
	Dairy		007	7006					.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	2 7	•					.003		.004		.044	
2	Food & Kindred	006	00503	<b></b> 004		.003							
	Lumber & Wood				006								
	Chemicals						•	.011	•				
	Printing & Publishing								•				
	Fabricated Metals	·		•				004					
	Stone, Clay & Glass							.006			.009		
	Other Manufacturing							.006				•	
	Wholesale Trade Service Stations				•		,						
	Eating & Drinking		007	,									
	Other Retail		007										
	Lodging												,
	Transportation												
	Electric Energy												
	Contract Construction												

per

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		3.89	, uring	, <b>~</b>			ure		tation			, job e	,
Industry Purch <b>asi</b> ng	grone,	ass Other	stacturing	de getalce	Jons Other	all Asticul	troother d	ices Trans	portation Liectri	ed other 1	contract contract	Erickion as	e,
Range Livestock		007				.005				X		.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	.00.6	.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 Printing & Publishing		.004		,			.019	.005	.006	.004		.010	
Fabricated Metals									.005			.003 .006	
Stone, Clay & Glass	001				201		.003	.003	.004	006	.004	.010	
Other Manufacturing	.004	001			.004		.006	.005	.014	.006	.00,4	.004	
Wholesale Trade	•	.004			.004		.005	.006	.004	.003		.004	
Service Stations							.003	.006	.004				
Eating & Drinking		•					.004		.004			.003	
Other Retail							▲ 004		.005			.006	
Lodging									.005		.003		
Transportation		•									, , , ,	.004	
Electric Energy							.004	.003				.005	
Contract Construction	.003						.004		.003			.004	

### 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						.9	ity Consti	inte	•	
	Industry Purchasing	RANGE	tock det good De	I'd ROLDE	od cotton	vegetabl	cateria or	Forestry Other	Fleulture Uranti	coppe	orher Hining
	Range Livestock Feeder Livestock Dairy Forage, Feed & Food Cotton Vegetables Citrus Crops Forestry Other Agriculture Uranium	011		018 017				.003	.015		.005
	Copper								*013	.012	.006
233	Other Mining Food & Kindred Lumber & Wood Furniture & Fixtures		.006		005		.005	33			
	Paper & Pulp Chemicals Primary Metals Printing & Publishing									074	.010
	Fabricated Metals Textiles & Apparel			•							.028
	Leather & Leather Goods Stone, Clay & Glass Other Manufacturing Wholesale Trade	<b>s</b>									
	Service Stations Eating & Drinking Other Retail Agricultural Services Lodging										,
	Other Services Transportation Electric Energy Other Utilities										009
	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)

			1900	Quali	cy officor	isciatii	ieu - 15	ov Quar		THEA (COHE	u)	
	Industry Producing			<del>ઇ</del>		. 9		4.0	red es	of Goods	टोश्र	12118 16
	Industry Purchasing	Food.	tridred trimber		rs Ched	cals prim	ath original	ing string	cated tiles b	ather grone	lass other	tacturine ale
	Range Livestock	.003						v				
	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 Copper				.006		.005				.007	
	Other Mining	.048			.005		.007	.005		.010		
	Food & Kindred	.013		.009			.008				.008	.026
	Lumber & Wood		.005									
၁ ပ	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 Good	s.011										
	Stone, Clay & Glass									.018		
	Other Manufacturing	:006			,006	.007	.004			.007	.010	
	Wholesale Trade									,	.099	:
	Service Stations											
	Eating & Drinking	.006			•							000
	Other Retail						028	.004				.023
	Agricultural Services						•					000
	Lodging											.003
	Other Services										004	.004
	Transportation										.004	
	Electric Energy										.005	007
	Other Utilities		000					000		013	.005	.004
	Contract Construction		003					.008		.013		
	Rentals & Finance								1			

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		e.		Litted Lode	•	·	· ·		`	ct ruction &
<b>~</b> 1	erite ous sting	build other	ر نوع م	Aices Todes	ns Other	Alces Arane	Port Siert	\c	ilities contro	ct rections of
Industry Purchasing	erice ous stips	nking other	at being	10gg	other	yte gran	ion siects	ted other	the contra	etrict 18 18 co
Range Livestock	2		- 3-		-3	.012	- A SIL	~~		.009
Feeder Livestock			008			.018				
Dairy										.004
Forage, Feed & Food			010				.005			.004
Cotton Vegetables			007							
Citrus Crops			000			076	.013			
Forestry			009			01.5	.003			006
Other Agriculture		011	000			.017	00=			.006
Uranium		011	008			.003	.007	000	000	.003
Copper.				005	007	.020	.005	.008	.020	.014
Other Mining	.003	,		.005	.007	.014	.005	012	012	.131
Food & Kindred	003			• 000	.005	.019	.027	.013	.012	.131
Lumber & Wood		.004				.015	.010	.005	.004	.010
Furniture & Fixtures		,004			.003	.005	.006	.003	.004	.008
Paper & Pulp					•003	.016	.009	.005		.010
Chemicals					.011	.008	.008	.005		.011
Primary Metals					.003	.009	.011	.013	.006	.020
Printing & Publishing					.006	.007		.013	.000	.007
Fabricated Metals	•				120	.011	.011	.008		.013
Textiles & Apparel		.005			.005	.003	.005	.003		.005
Leather & Leather Goods					.011	• • • •	.005	.004		.006
Stone, Clay & Glass		.005			.003	.006	.005	• • • •		.006
Other Manufacturing	•					.006	.009	.006		.004
Wholesale Trade		.003		.003		.006	.005		•	.005
Service Stations				,		.005			.004	.008
Eating & Drinking					.009				.005	. 004
Other Retail						.007				.006
Agriculture Services										
Lodging					.003				.003	
Other Services		.004				•				•
Transportation				•						.005
Electric Energy	·	.006				.006	.009	.004		.006
Other Utilities		.003		.003	.012	.003	.003	.004	.003	.005
Contract Construction Rentals & Finance										201
Ventara & Linguice										.004

### 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			alley C	Source Til			LLY COIL				
Producing	44	der grock Dair		4eed	vegetai	. 0,0		other lo	Le .		
	a voce	der stock detr			*	J. 18	€	ig .	A Tranton	4	
Industry	Range getor	det stol Dati	J. 75.80	oo keer	gert	A YEL OP	ું <sub>પ્</sub> રુજે	get to	T. State	COPPET	"her drib
Purchasing	RATES TOOK	Pyr Dr	4 orage	ood cotton	400	Cherria	Rotest	Other ic	<b>3</b>	G,	Other
Range Livestock			010								
Feeder Livestock	011		090								
Dairy			161				·				
Forage, Feed & Food											•
Cotton											
Vegetab <b>les</b>										•	
Citrus Crops											
Forestry											
Other Agriculture			017								
Uranium									.010		.005
Copper		·								.010	.007
Other Mining			•							.003	.050
Food & Kindred	.00	.008		004	.010	.004		.003			
Lumber & Wood		•					017				
Furniture & Fixtures											
Paper & Pulp											
Chemicals Primary Metals		•				•				020	.004
Printing & Publishing	•								•	.030	.004
Fabricated Metals								•			.023
Textiles & Apparel											.023
Leather & Leather Good	ds	•									
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					•						

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

		1980	Qualit	y Cons	trained	- 2010	Qualit	y Const	rained	(Cont'd	1)		
Industry				b							& coods	Clay Lass Other Life of the	.00
Producing			. 45	_		. 9		4 do .	·es	<b>₹</b>	4 GOO2	CLON STUT	~
	્	, & , &	itis.	હું ક		3 A		So it co	~	y se	,	AS A ACTU	
Industry	Kood 1	are wer	The Kin	, set	o, In I	Ind a	ra ruch	A 247		te still	the other	ras her its	
Purchasing	40 TV	dred Limber &	Putaitut	Paper o	chemi	cals rinary	le Printin	ishing ca	rearise	s Leather Leather	her grone?	Lass Orher lifactiv	
Range Livestock -				<u> </u>			<u>`</u>						
Feeder Livestock													
Dairy													
Forage, Feed & Food					.040							•	
Cotton					.031								
Vegetables					.007						•		
Citrus Crops	.003				.007								
Forestry	.003				.007								
Other Agriculture	.004		•		.005								
Uranium	.004	003			.005			.005			.005		
Copper	.008	005			.005		.004	.005			.005	.006	
Other Mining	.000				.006	.003	.004	.003			.010	.005	
Food & Kindred	.007			.003	.000	.003	.005	.003			.010	.006	
Lumber & Wood	.007			•005		.004	.003					.000	
Furniture & Fixtures		023		.009		.004	.005					.006	
Paper & Pulp		100		.005			.003					.000	
Chemicals		100		.005	.005		.003					.005	
Primary Metals		·			.005	.008	.003					.005	
——————————————————————————————————————	.003	•	•	.015		.000	.003	.003				.005	
Fabricated Metals	.005		1	.013		.014	.003	.021				.009	
Textiles & Apparel						.014	.003	.021	.007	.003		.005	
Leather & Leather Goods							.005		.003	.005		.005	
Stone, Clay & Glass	•								.005		.003		
	.005			.004	.006	.008		.005			.005	.010	
Wholesale Trade	• 005			.004	•,000	.000		.005		•	.005	.009	
Service Stations		·					.003					.007	
Eating & Drinking							.005						
Other Retail							.033				•	.003	
Agricultural Services		•					•					.005	
Lodging													
Other Services													
Transportation													
Electric Energy													
Other Utilities												.003	
Contract Construction		003						.042			.055		
Rentals & Finance													

	Industry Producing		. 0			•	Je.		, сон	J.		•	,00	
	Troducing	0.9	all a	ce one	e ine	<b>A</b> . c <sup>5</sup>	altices as	18	ces of	عمرين	etc '	, 1es	actuctions	₩ ₩
	Industry Purchasing	Moles	ale secul	celons th	Shine other	cail region	altur cylces	us other	Chices	port, siect	ered other	lities	actuction netruction	ac.
	Range Livestock												.007	
	Feeder Livestock					003							.005	
	Dairy					.003				.003			.003	
	Forage, Feed & Food Cotton					003				.003				
	Vegetables					.003				.004				
	Citrus Crops					.009				.003		•		
	Forestry					.003							.004	
	Other Agriculture				011	.005				.012			.004	
	Uranium							.005	.010	.025	.005		•004	
	Copper_		.004		.004			.015	.018	.006	.010	.005	.005	
	Other Mining			.004	.006	.005		.005	.020	.025		.005	.025	
	Food & Kindred	.016						.003	.010	.006		.003	.008	
	Lumber & Wood			.003	.007			.007	.005	.010	.005	.008	.011	
1	Furniture & Fixtures	.009	.003					.004	.003	.007	.007		.008	
1	Paper & Pulp			.005			.003	.004	.020	.015	.006		.010	
	Chemicals			.003	.004			.005	.009	.005	.004	001	.010	
	Primary Metals	•		000	.003		000	000	.003	.004	.003	.004	.006	>
	Printing & Publishing Fabricated Metals	000	•	.003	.003		.003	.003	.003	.004	005	.003	.005	
	Textiles & Apparel	.006	.003	.003	.005			.005	.006	.009	.005 .004	.003	.003 .007	
	Leather & Leather Good	.004	.003	.003	.006			.005	.004	.008	.004	.003	.007	
	Stone, Clay & Glass							.003		.006	.003		.003	
	Other Manufacturing	•						.004	.003	.006	.005		.005	
	Wholesale Trade	.004			.003		.003	.003	.005		.003		.003	
	Service Stations				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •		••••					
	Eating & Drinking	.003												
	Other Retail	020												
	Agricuture Services							.003						
	Lodging							.004						
	Other Services	.004												
	Transportation		٠.							0.0				
	Electric Energy Other Utilities		000					000		.010	.003			
	Contract Construction		.003					.003	003		.003			
	Rentals & Finance							.003	.003			,003		
	Weitrers a Lineitee							.005				.005		

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	<u>۲</u> ۰	the feet.	~} <sup>e</sup>		A Kitte	,	
	Industry Purchasing	ABIGE PAROCK REPERSE	Dalt's Forage Food	gotton vegetables	crops gorest	Orher leafture	COPY	other like
	Range Livestock Feeder Livestock Dairy Forage, Feed & Food Cotton Vegetables Citrus Crops	.011	019 018					.006
	Forestry Other Agriculture Uranium Copper Other Mining	.003	008			.003	.013 .005	.010 .009 .068
230	Food & Kindred Lumber & Wood Furniture & Fixtures Paper & Pulp	.009	00	.00	05 033 019			
	Chemicals Primary Metals Printing & Publishing						058	.024
	Fabricated Metals Textiles & Apparel Leather & Leather Goods	.004			,		.017	.037
	Stone, Clay & Glass Other Manufacturing Wholesale Trade Service Stations Eating & Drinking	.004					.006	.013
	Other Retail Agriculture Services Lodging Other Services Transportation Electric Energy							009
	Other Utilities Contract Construction Rentals & Finance							.010

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			Cu.		<b>\</b> 9		4.00	red a	4 4 Goods	Clay.	uring 1e
	Industry Purchasing	Food &	The Thurber	d Paper	s Chen	deals Prina	ed arigh	lightno Lightno	aled nextiles	Leather stone	alass or her	hulacturing ale
	Range Livestock	.004				***************************************	-					
	Feeder Livestock				.006						.005	.003
	Dairy	.005			.013						.004	
	Forage, Feed & Food				.031						.005	000
	Cotton	.018			.016						.015	.003
	Vegetables	000			.012						007	
	Citrus Crops	.003			.015						.007	
	Forestry	.014		.005	.008						.010	011
	Other Agriculture Uranium	.014	003	.005	.006			.013		.014	.017	.004
	Copper	.003	003		.007		.007	.013		,014	.013	.005
	Other Mining	.005			.009	.005	.011	.011		.018	.012	.008
	Food & Kindred	.019	.004	.011	.006	.003	.009	.044		.010	.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 Good	<b>s.01</b> 6		.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										006	006
	Lodging										.006	.006
	Other Services										.008	.005
	Transportation Electric Energy							.004			.010	
	Other Utilities							.004			.010	.006
	Contract Construction		004					.014		.023	.013	.000
	Rentals & Finance		-,004					.014			.013	

Industry Producing					Lighe Sices						et nertane
	servi	ce one ations ations	the other	tail Asticu	Aices 100	0.00	Culces Trans	port' steers	red other i	ties contro	stricticals de
Industry	ceta.	ce one ation	iky, who	ray ryc	44° 46	ins other	will age	St. Lec's	ted her	tra outre	act centinani
Purchasing	_ 2 ex	40 DE	× 0 %	Mag get	40	0,00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	AC EN BUT	Or ary	6.00.	4.44
Range Livestock							.014	-			.013
Feeder Livestock				012			.024	.004			.009
Dairy				<b></b> 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 Good	S					.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 Producing		. کو	. act	y 001130	eed	2020 Q	le <sup>8</sup>		A	, site	_	
	Industry Purchasing	Range	kocik Kedir	legrock Dair	40LAGE	od cott	of vegetal	Citita	s Rotest	other ic	il Lucania	de coppe	other ins
	Range Livestock Feeder Livestock Dairy Forage, Feed & Food	012	004	004	098 168 005	Control of							.012
	Cotton Vegetables Citrus Crops				.003						•		.009 .005 .005
	Forestry Other Agriculture Uranium Copper				024		,				.010	. 013	.004 .015 .014
2	Other Mining Food & Kindred Lumber & Wood Furniture & Fixtures		.010	.009	035	003	.011		017	.003		.009	.085 .004 .003
42	Paper & Pulp Chemicals Primary Metals							•	009			016	.042
	Printing & Publishing Fabricated Metals Textiles & Apparel Leather & Leather Goods				<b>00</b> 9							.012	.039
	Stone, Clay & Glass Other Manufacturing Wholesale Trade Service Stations	٠.	•	· .	009							.007	.030 .016 .003
	Eating & Drinking Other Retail Agriculture Services				003					.003			
	Lodging Other Services Transportation Electric Energy					·							
	Other Utilities Contract Construction Rentals & Finance					·					·	.004	.042

# 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	•	1300	Quarti	y Const			Quality		armed	49		t utacturings and leads
Producing					. 6		4 4	, ed	¥	e coods	clay	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	و	. 8	<b>4</b>	<b>.</b>	. call	A A	the party of	200	5 . et	ιζ <sup>©</sup> .	39	, activ again
Industry	00	are me	2 22°	ines	A THE	als in	The Soll	are the	der athe	he one	Glass Othe	tation of ac
Purchasing	\$00d 6	dred Limber	A, 4,	, cur	ilcals	ed Print	Listing Paris	ale restiti	teather	the grone	00,4	t ufacturi esale
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 Good	ls.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	<b>.</b> 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	<b>. 00</b> 6
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			,	-, -, -	tural ices		4 can 2 c	, 001.00			ot renta	
Producing	0.	φ.	€ 00		KUTC	4	69	OK.	<sup>₹</sup> C	.05	ck ckh	(9 <sub>2</sub>
Industry	1200	ons ing	Litro e	(io, 4), v	Cos 3	ing her	i itel	spir cur	et et	ALL SEL	L'ELL YO	ALCO
Purchasing	service service	ons ine	iking othe	etail paticul	ices Jode	ing other	t ices	sporter	ted other	Likies Contro	actuctiva actuctiva	hance
Range Livestock						H <del>armon Ja</del>		· <u>· · · · · · · · · · · · · · · · · · </u>	3.1/		.009	-
Feeder Livestock			<b></b> 005	011							.004	., 652
Dairy	004		009	012				.004				
Forage, Feed & Food				<b></b> 003		.005	.006	.008	.003		.008	
Cotton						.007	.006	.009	.005		.009	(*)
Vegetab <b>les</b>				.009		.004	. 005	.006	.003		.007	
Citrus Crops				<b></b> 005		.005	. 004	.006			.005	
Forestry				.003							.005	
Other Agriculture			010	题	4-7	.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 Good	s					.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			20%			.004	.005	.004			.004	
Transportation			F			.005	.005	.006	.004	.003	.005	34
Electric Energy			.003	*		.003	.004	.016	.006	.005	.004	
Other Utilities	.003					.005	.004	.004	.005		.004	
Contract Construction	<del>-</del>						.020	.015	.009		.018	
Rentals & Finance						. 004				.005	.004	

# <u>Technical Note: Procedures to be Followed in Calculating Damages</u> 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. 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. are:

Coefficient of FD Change
0671
.0696
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 Damanges

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.l. and I. C.l. 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.