



Economic Impact of Southern New Mexico Vegetable Production and Processing

College of Agriculture and Home Economics
Cooperative Extension Service
Agricultural Experiment Station

In November 1998, the New Mexico Chile Task Force was formed to identify and implement ways to keep chile pepper production profitable in New Mexico and to maintain and enhance the research and development partnership between the New Mexico chile industry and New Mexico State University.

Chile Task Force reports will be issued periodically to consider issues of concern to the industry and to document the Task Force's progress in developing techniques and technologies to improve industry competitiveness in the 21st century global trade environment.



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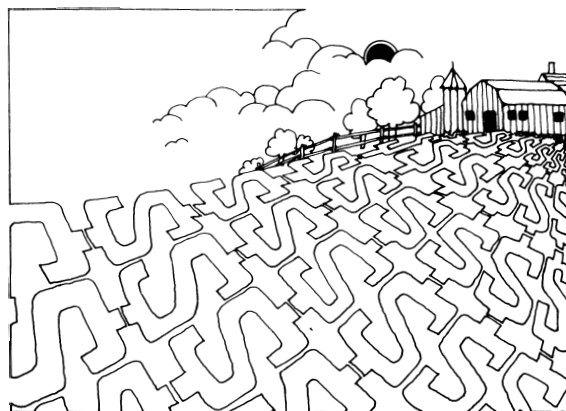
T. Y. Hall² and R. K. Skaggs³

Introduction

Concern about the long-term viability of commercial chile pepper production in New Mexico prompted creation of the New Mexico Chile Task Force in December 1998. The objectives of this interdisciplinary team are to identify and implement ways to keep chile pepper production and processing profitable in New Mexico and to maintain and enhance the research and development partnership between the New Mexico chile industry and New Mexico State University.

Since the initiation of the Task Force, numerous questions regarding the size, nature and economic impact of the New Mexico chile industry have been raised. These questions often have come before the Task Force in the context of wondering what would be the economic impact of losing the local industry and also in situations where the challenges faced by the industry are being communicated to the public, government agencies and New Mexico state legislators.

This report discusses the southern New Mexico chile pepper industry and provides economic impact estimates of all vegetable production and processing in the region. The study area is confined to the three New Mexico counties where the majority of commercial chile pepper and other vegetable production and processing takes place. The information reported here is the result of graduate thesis research conducted by T. Y. Hall (Hall, 2001). The research was performed in coordination with and in support of other New Mexico Chile Task Force activities. Impact Analysis for Planning (IMPLAN) software and data were used in this research.



Description of the chile pepper industry

Chile peppers ranked fifth in commodity cash receipts in New Mexico in 2000, following beef cattle, milk, hay and greenhouse nursery crops (NMDA, 2000). In 2000, there were 19,000 acres of chile peppers harvested in New Mexico, yielding 80,500 tons of green chile

¹This article was reviewed by Lowell Catlett, professor, James D. Libbin, professor, and Frank A. Ward, professor, Department of Agricultural Economics and Agricultural Business; and Richard Phillips, project manager, New Mexico Chile Task Force; all with New Mexico State University, Las Cruces; and David Layton, agriculture manager, Border Foods Inc., Deming, N.M. The New Mexico Agricultural Experiment Station and the New Mexico Chile Task Force supported this research.

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... Doña Ana, Luna and Hidalgo counties accounted for 86 percent of the state's chile pepper production and 74 percent of the state's harvested chile acreage in 2000.

and cayenne peppers (wet weight) and 28,500 tons of red chile peppers (dry weight). Although peppers are produced in several other counties, Doña Ana, Luna and Hidalgo accounted for 86 percent of the state's chile pepper production and 74 percent of the state's harvested chile acreage in 2000 (NMDA, 2000). In 1997, New Mexico accounted for 46 percent of harvested hot pepper acreage in the United States (NASS, 1999).

New Mexico also is home to numerous chile pepper processing facilities of different sizes that use a variety of raw materials and technologies. Recent research has led to an estimated 112,009 wet tons of green chile, cayenne and jalapeño peppers and 36,735 dry tons of red chile peppers processed in New Mexico in 2000 (Hall and Skaggs, 2003). Many green chile and jalapeño peppers are imported from Mexico (approximately 40,000 tons in 2000), while dried red chile peppers and powders are imported from several Asian, African and Latin American countries for further processing in New Mexico.

The state's chile pepper processing sector is extremely diverse but has become more concentrated in recent years. The industry is comprised of numerous small firms and a few large firms. Firms are reluctant to disclose information due to privacy concerns and the industry's competitive nature. Descriptive data for chile pepper processing in New Mexico are scarce, some existing government data are not publicly available due to disclosure issues and other publicly available data are confounded by the chile peppers moving between counties at various processing stages. A description of the pepper types produced, the nature of New Mexico chile processing and the sources of peppers that flow into the state's processing industry can be found in Hall and Skaggs (2003).

Prior to this study, no research had been conducted to estimate the economic impact of the New Mexico chile pepper industry, specifically, or the state's overall vegetable production and processing. Data limitations currently prevent estimating chile pepper industry economic impacts separately from those of other vegetable production and processing sectors (e.g., onions, lettuce). In this research, an input-output model, using IMPLAN software and limited data, was constructed to develop preliminary impact estimates of all vegetable production and processing in Doña Ana, Luna and Hidalgo counties. These counties were chosen for analysis because of their predominance in farm-level pepper production, both red and green chile processing and production of other vegetables.

Eighty-eight percent of New Mexico's onion acreage (6,800 acres) is located and 87 percent of onion production occurs in Doña Ana and Hidalgo counties (NMDA, 2000). The 1997 Census of Agriculture reported approximately 1,600 acres of lettuce in Doña Ana and Luna counties, 850 acres of cabbage and spinach in Doña Ana County and 1,150 acres of watermelons in Luna County. Plantings of other vegetables in Doña Ana, Luna and Hidalgo counties are small (less than 200 acres total) (NASS, 1999). Overall, 74 percent of New Mexico's total vegetable acreage is located in the three counties (NASS, 1999).

Input-output analysis and IMPLAN applications in the agricultural sector

Input-output modeling is a technique used to measure interactions among firms, industries and institutions within a local economy (Mulkey and Hodges, 2001). It is a methodology often applied when there are questions about the impact of a particular industry or effects of changes in an industry on a local economy. An input-output model is a system of linear equations describing the circular flow of income and product throughout an economy (Holland and Yeo, 2001). The model represents all consumption and production in an economy, which is divided into sectors that include firms or organizations with similar characteristics or activities.

This study used IMPact Analysis for PLANning (IMPLAN) software for the input-output modeling. The U.S. Department of Agriculture's Forest Service developed IMPLAN in the 1970s, in cooperation with the Federal Emergency Management Agency and the U.S. Department of Interior's Bureau of Land Management. The software program originally was used to evaluate the effects on local economies of closing roads in wilderness areas (MIG, 2000). In 1993, Minnesota IMPLAN Group Inc. (MIG) obtained exclusive rights to the IMPLAN software. Their most recent version, IMPLAN Professional 2.0, released in 1999, was used in this research, along with 1998 economic data for New Mexico (also sold by the Minnesota IMPLAN Group).

The IMPLAN databases that are used in developing input-output models come from a variety of governmental agencies. Sources of IMPLAN data include the Bureau of Labor Statistics, Bureau of Economic Analysis, County Business Patterns and the U.S. Census of Agriculture.

IMPLAN uses three categories of effects to describe the economic impacts of a selected industry. The categories are direct effects, indirect effects and induced effects. These effects are founded on the observation that when money is brought into an economy by a particular industry (through sales of their goods and/or services), it is spent within the local economy. The money continues to be spent in the local or regional economy until it leaks out of that economy into another (Mulkey and Hodges, 2001). Direct effects are those experienced by a particular industry that produces and sells goods and/or services. As economic impacts spread from firm to firm throughout the local economy, indirect effects are changes in interindustry transactions that occur as other industries produce and sell more goods and services to the directly affected industries (Mulkey and Hodges, 2001). Induced effects are felt by businesses selling goods and services to households that receive income as a result of increases or changes in local economic activity. The changes in local spending are due to income changes in the directly and indirectly affected industries or economic sectors (Mulkey and Hodges, 2001).

There are three basic types of multipliers used to construct an input-output model in IMPLAN. Type SAM (Social Accounting Matrix), the recommended and default multiplier used in IMPLAN input-output models, was used in this research. Type SAM multipliers give direct, indirect and induced effects of industries and/or changes in the industries.

IMPLAN input-output model multipliers trace backward linkages only (MIG, 2000). Backward linkages refer to goods and services purchased from an industry to produce a product. Examples include labor, utilities and transportation. Forward linkages not captured in the model are those between an industry producing a good or service and the consumers of that good or service (MIG, 2000). Consumers could be other industries that add value or

further services before the product reaches the final consumer. Examples of forward linkages include exporting costs, household consumption and value-added remanufacturing.

IMPLAN does not count the number of jobs in an industry or a local economy in terms of full-time equivalents (FTE). IMPLAN counts full and part-time employment as being the same (MIG, 2000). If an employee works one or seven days per week, he simply is considered an employee and one job exists. This feature of IMPLAN creates challenges when attempting to estimate the economic impacts of industries characterized by a high degree of less than full-time employment (such as agriculture).

Numerous researchers have used IMPLAN to evaluate the regional economic impacts of agriculture and agribusiness. For example, Miller and Armbruster (1991) used IMPLAN to investigate the economic impact of grape juice production in Arkansas. Leones and Conklin (1993) used IMPLAN to analyze direct, indirect and induced agriculture effects in Arizona. Holland and Yeo (2001) used IMPLAN to study Washington's potato industry and calculate agricultural multipliers that affect the state's economy. Robison et al. (1991) used IMPLAN to investigate the impact of agriculture, food processing, timber, recreation and mining on Idaho's economy.

IMPLAN modeling procedures

Using IMPLAN, an input-output model was constructed for Doña Ana, Luna and Hidalgo counties. The vegetable industries and particularly the chile pepper industry in the three counties are linked tightly at both farm and processing levels.

Doña Ana, Luna and Hidalgo counties are major producers of green chile peppers and jalapeños, and both Doña Ana and Luna counties have large processing plants within their boundaries. Green and jalapeño chile peppers grown in the three counties are processed there, but may cross county lines one or more times during processing for value adding or container labeling. The largest green and jalapeño chile processor in New Mexico has processing plants located in both Doña Ana and Luna counties and regularly moves products at varying stages of processing between the two plants. Red chile peppers and powders at various processing stages also move between locations in the three counties.

The IMPLAN economic sectors most relevant for examining the economic impacts of green chile pepper and jalapeño production and processing are sectors 18, 67 and 70 (table 1). Sector 18, the vegetable sector, includes farms that produce Irish potatoes, vegetables and melons. In southern New Mexico, this would include farms that produce chile peppers, onions, lettuce, spinach, cabbage, watermelons and other vegetables. Sector 67, canned fruits and vegetables, includes establishments primarily involved in canning fruits and vegetables. Sector 70 is frozen fruits, juices and vegetables. Sector 70 could not be represented in the

... there are at least 10,000 farmworkers employed part-time or full-time in the region from September through November, primarily engaged in chile pepper harvesting.

Table 1. Economic sectors relevant to vegetable production and processing in Doña Ana, Luna and Hidalgo counties.

Sector #	Sector Title	Description
18	Vegetable production	Irish potatoes, vegetables and melons
67	Canned fruits and vegetables	Canned fruits, vegetables, preserves, jams and jellies
68	Dehydrated foods	Dried and dehydrated fruits, vegetables and soup mixes
70	Frozen fruits, juices and vegetables	Frozen fruits, fruit juices and vegetables, dried fruit pulp, quick frozen and coldpack fruits and vegetables
103	Food preparations-Not elsewhere classified	Food preparations, not elsewhere classified (NEC) (chili pepper or powder)

Source: MIG, 2000; and OMB, 1987.

models, because IMPLAN shows no data for sector 70 in Doña Ana, Luna or Hidalgo counties, even though there is at least one green chile freezing plant operating in the region.

The IMPLAN sectors most relevant to the red chile pepper industry were sectors 18, 68 and 103 (table 1). Sector 18 is defined above. Sector 68 (dehydrated foods) includes items, such as dried fruits, vegetables and soup mixes. In southern New Mexico, this includes dehydrated red chile powder, spice mixes and dehydrated onions. Sector 103 (food preparations-NEC) includes all foods that are not elsewhere classified (NEC) into other categories, including “chili pepper or powder” (OMB, 1987). Both sectors 68 and 103 were included here, because data for the region’s red chile processors likely are included in both sectors.

For the three counties, IMPLAN reports that sector 18 (vegetables) has 843 employees, sector 67 (canned fruits and vegetables) has 649 employees, sector 68 (dehydrated food products) has 142 employees, and sector 103 (food preparations-NEC) has 278 jobs. In Doña Ana, Luna and Hidalgo counties, a total of 84,592 people were employed in all industries in 1998. Thus, sectors 18, 67, 68 and 103 employed about 2.3 percent of the working population in the three counties (1,912 jobs). Again, these data are for 1998.

IMPLAN agricultural employment data are based on standard, national output to employment ratios and underestimate the total number of sector 18 employees in Doña Ana, Luna and Hidalgo counties. Individuals knowledgeable about the southern New Mexico farm labor situation estimate there are at least 10,000 farmworkers employed part-time or full-time in the region from September through November, primarily engaged in chile pepper harvesting (Hall, 2001).

From the preceding discussion and the sector definitions presented in table 1, it is obvious that data or information for other vegetables are combined with farm-level chile pepper production data. Furthermore, data for the processing sectors (table 1) includes data for vegetables other than chile peppers. However, given the nature of the vegetable industry in Doña Ana, Luna and Hidalgo counties, the majority of vegetable production and processing activities for which data are reported and included in IMPLAN is directly related to chile

Table 2. Aggregated input-output model results for employment impact of vegetable production and processing in Doña Ana, Luna and Hidalgo counties.

Economic Sector Title	Direct Effects	Indirect Effects	Induced Effects	Total Effects
Agriculture	843	1,720	10	2,573
Construction	0	91	16	107
Manufacturing	1,069	56	13	1,138
Transportation, communication and utilities	0	184	27	211
Retail and wholesale trade	0	239	281	520
Finance, insurance and real estate	0	97	56	153
Services	0	288	285	573
Government	0	14	10	24
Other	0	0	21	21
Total Employment	1,912	2,689	719	5,320

peppers. The same cannot be said for sector 18, which includes data for onions and lettuce, both of which are produced in significant quantities in the study region.

IMPLAN input-output model results for the aggregated direct, indirect and induced employment impacts of sectors 18, 67, 68 and 103 on Doña Ana, Luna and Hidalgo counties are shown in table 2. The 1,912 workers directly employed in sectors 18, 67, 68 and 103 are shown at the bottom of the column labeled “Direct Effects.”

Indirect employment in the region related to activities in sectors 18, 67, 68 and 103 equals 2,689 jobs. Unaggregated employment impacts are presented in appendix A, where it is shown that 59 percent of the indirect employment workers are employed in the agricultural services sector (#26). This sector includes activities, such as soil preparation, crop services, farm labor contracting and farm management services. Other sectors with relatively large indirect employment effects include motor freight transport and warehousing (#435) and wholesale trade (#447).

The total induced employment impact is 719 jobs (table 2). Induced employment effects are distributed widely throughout the three-county region, with some of the largest effects noted for general merchandise stores (#449), food stores (#450), automotive dealers and service stations (#451), eating and drinking establishments (#454), miscellaneous retail (#455), doctors and dentists (#490) and hospitals (#492) (see appendix A). Thus, approximately 5,320 jobs in Doña Ana, Luna and Hidalgo counties are directly or indirectly related to vegetable production and processing in the region.

Aggregated output impact results from the IMPLAN model are presented in table 3. Output is defined as the gross receipts of local industries. The direct output impact of sectors 18, 67, 68 and 103 (i.e., vegetable production and processing) was estimated at \$281.3 million. The indirect output impact of the four sectors was \$97.6 million, while the induced output impact was \$39.5 million for a total output impact (in 1998 dollars) of \$418.4 million. From the input-output model results, this is shown to be approximately 7.9 percent of total industry output value in Doña Ana, Luna and Hidalgo counties in 1998. Unaggregated output impacts are presented in appendix B.

Table 4 shows employment and output multipliers for sectors 18, 67, 68 and 103 for Doña Ana, Luna and Hidalgo counties, as estimated through the IMPLAN modeling procedures. These SAM multipliers are equal to (direct effects + indirect effects + induced effects) / direct effects.

The multipliers in table 4 are predictive tools and describe the local economy's likely response to a change in sectors 18, 67, 68 and 103. The multipliers summarize the total impact that can be expected from a change in economic activity in the four sectors. For instance, hiring an additional 200 employees in sector 67 (canned fruits and vegetables) is predicted to lead to the creation of 268 additional jobs $((2.34 \times 200) - 200)$ in Doña Ana, Luna and Hidalgo counties. As noted previously, this includes both full- and part-time employment. Alternatively, reducing 200 employees in sector 67 is predicted to lead to a loss of 268 other jobs.

The output multiplier estimates the total change in local output resulting from changes in output by the listed sectors, including the initial output from the sector experiencing the change. The output multiplier of 1.61 for sector 18 (vegetable production) indicates that for every \$1 of vegetables produced, an additional \$0.61 of output is produced in Doña Ana, Luna and Hidalgo counties.

Conclusion

Numerous factors have prompted Chile growers, processors, researchers and others involved in the New Mexico Chile pepper industry to take a closer look at all aspects of the industry. This report is a small step in documenting the size and nature of all vegetable production and processing in three southern New Mexico counties. IMPLAN data and

Table 3. Aggregated input-output model results for output impact of vegetable production and processing in Doña Ana, Luna and Hidalgo counties.

Economic Sector Title	Direct Effects \$	Indirect Effects \$	Induced Effects \$	Total Effects \$
Agriculture	100,036,096	31,837,992	490,533	132,364,616
Construction	0	4,409,639	869,293	5,278,932
Manufacturing	181,262,032	5,798,642	1,669,713	188,730,384
Transportation, communication and utilities	0	18,671,628	3,572,593	22,244,220
Retail and wholesale trade	0	13,740,763	9,429,785	23,170,548
Finance, insurance and real estate	0	9,118,776	9,594,333	18,713,108
Services	0	12,212,461	12,462,955	24,675,416
Government	0	1,765,597	1,236,002	3,001,600
Other	0	31,260	164,348	195,600
Total Output	281,298,128	97,586,758	39,489,556	418,374,431

Table 4. Employment and output multipliers for vegetable production and processing in Doña Ana, Luna and Hidalgo counties.

Sector #	Sector Title	Employment Multiplier	Output Multiplier
18	Vegetable production	3.54	1.61
67	Canned fruits and vegetables	2.34	1.45
68	Dehydrated foods	1.90	1.40
103	Food preparations-NEC	1.97	1.35

IMPLAN modeling often are used to create information about the economic impacts of specific local economic sectors or for the effects of various changes in a local economy. IMPLAN data and IMPLAN modeling are not perfect tools. However, they do give researchers, industries and communities a relatively cost effective means of assessing economic impacts. There was no manipulation of or “corrections” to IMPLAN data in order to generate the information contained in this report. IMPLAN data are the result of data collection efforts conducted by numerous federal government agencies. Much of the data is obtained through voluntary reporting by firms. These data are not above criticism, but they are widely accepted as the best available data for the U.S. economy.

Extensive data and information are not available for the New Mexico or U.S. chile pepper industries. This is due to the nature of the chile pepper industry, and its small size relative to the overall agricultural economy. Members of the industry have a strong desire and need to keep information private, which makes it even more difficult to assess the impacts, size and nature of chile pepper production and processing in New Mexico. However, even with its limitations, it is hoped that the information presented in this report contributes to a greater understanding of the New Mexico chile pepper industry.

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Appendix A

Unaggregated input-output model results for employment impact of vegetable production and processing in Doña Ana, Luna and Hidalgo counties.



Employment Impact

July 23, 2002

IMPACT NAME: all sectors in three counties MULTIPLIER: Type SAM
 Dona Ana Luna Hidalgo counties.iap

Industry	Direct*	Indirect*	Induced*	Total*
1 Dairy Farm Products	0.0	1.5	0.5	2.1
2 Poultry and Eggs	0.0	2.6	0.2	2.8
3 Ranch Fed Cattle	0.0	1.2	0.1	1.3
4 Range Fed Cattle	0.0	1.5	0.2	1.7
5 Cattle Feedlots	0.0	0.7	0.1	0.7
6 Sheep- Lambs and Goats	0.0	0.3	0.0	0.3
7 Hogs- Pigs and Swine	0.0	0.1	0.0	0.1
9 Miscellaneous Livestock	0.0	13.9	0.6	14.5
10 Cotton	0.0	0.6	0.0	0.6
11 Food Grains	0.0	0.0	0.0	0.0 #
12 Feed Grains	0.0	0.2	0.0	0.2
13 Hay and Pasture	0.0	4.7	0.2	5.0
16 Fruits	0.0	0.2	0.0	0.2
17 Tree Nuts	0.0	1.2	0.1	1.3
18 Vegetables	843.0	70.4	1.0	914.5
21 Oil Bearing Crops	0.0	4.7	0.0	4.7
22 Forest Products	0.0	0.1	0.0	0.1
23 Greenhouse and Nursery Products	0.0	35.3	1.3	36.6
24 Forestry Products	0.0	0.0	0.0	0.0 #
26 Agricultural- Forestry- Fishery Servic	0.0	1,578.4	3.9	1,582.3
27 Landscape and Horticultural Services	0.0	2.2	1.5	3.7
31 Gold Ores	0.0	0.0	0.0	0.0 #
38 Natural Gas & Crude Petroleum	0.0	0.2	0.1	0.3
41 Sand and Gravel	0.0	0.0	0.0	0.0 #
47 Misc. Nonmetallic Minerals- N.E.C.	0.0	0.0	0.0	0.0 #
55 Maintenance and Repair- Residential	0.0	3.3	5.5	8.8
56 Maintenance and Repair Other Facili	0.0	87.9	10.5	98.4
57 Maintenance and Repair Oil and Gas	0.0	0.0	0.0	0.0 #
58 Meat Packing Plants	0.0	0.0	0.0	0.0 #
59 Sausages and Other Prepared Meats	0.0	0.7	2.0	2.7
62 Cheese- Natural and Processed	0.0	0.0	0.1	0.2
67 Canned Fruits and Vegetables	649.0	2.4	0.1	651.5
68 Dehydrated Food Products	142.0	1.0	0.0	143.0
79 Bread- Cake- and Related Products	0.0	0.0	0.1	0.1
80 Cookies and Crackers	0.0	0.0	0.4	0.4
82 Confectionery Products	0.0	0.0	0.0	0.0 #
93 Wines- Brandy- and Brandy Spirits	0.0	0.0	0.0	0.0 #
95 Bottled and Canned Soft Drinks & W	0.0	0.0	0.0	0.0 #
101 Manufactured Ice	0.0	0.0	0.1	0.1
103 Food Preparations- N.E.C	278.0	1.6	1.0	280.6
108 Broadwoven Fabric Mills and Finishi	0.0	0.0	0.0	0.1
110 Womens Hosiery- Except Socks	0.0	0.0	0.5	0.5
124 Apparel Made From Purchased Mate	0.0	0.1	3.2	3.3
125 Curtains and Draperies	0.0	0.0	0.0	0.0 #
130 Automotive and Apparel Trimmings	0.0	0.0	0.0	0.0 #
134 Sawmills and Planing Mills- General	0.0	0.0	0.0	0.0 #
137 Millwork	0.0	0.4	0.1	0.5
138 Wood Kitchen Cabinets	0.0	0.1	0.1	0.2
140 Structural Wood Members- N.E.C	0.0	0.0	0.0	0.0 #
143 Mobile Homes	0.0	0.0	0.0	0.0 #
146 Reconstituted Wood Products	0.0	0.0	0.0	0.0 #
148 Wood Household Furniture	0.0	0.0	0.8	0.8
164 Paperboard Containers and Boxes	0.0	4.8	0.0	4.8
174 Newspapers	0.0	22.4	1.5	23.9
175 Periodicals	0.0	0.7	0.1	0.8
176 Book Publishing	0.0	0.0	0.1	0.1
178 Miscellaneous Publishing	0.0	4.5	0.4	4.8
179 Commercial Printing	0.0	14.1	0.7	14.8
180 Manifold Business Forms	0.0	0.1	0.0	0.1
184 Typesetting	0.0	0.0	0.0	0.0 #
195 Drugs	0.0	0.0	0.1	0.1
211 Paving Mixtures and Blocks	0.0	0.1	0.0	0.1

*Dollars
Version 2.0104

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Report IM020



Employment Impact

July 23, 2002

IMPACT NAME: all sectors in three counties MULTIPLIER: Type SAM
Dona Ana Luna Hidalgo counties.iap

Industry	Direct*	Indirect*	Induced*	Total*
220 Miscellaneous Plastics Products	0.0	0.4	0.0	0.4
233 Brick and Structural Clay Tile	0.0	0.0	0.0	0.0 #
242 Concrete Block and Brick	0.0	0.0	0.0	0.0 #
243 Concrete Products- N.E.C	0.0	0.0	0.0	0.0 #
244 Ready-mixed Concrete	0.0	0.0	0.0	0.0 #
249 Asbestos Products	0.0	0.0	0.0	0.1
250 Minerals- Ground Or Treated	0.0	0.0	0.0	0.0 #
260 Primary Copper	0.0	0.0	0.0	0.0 #
268 Aluminum Foundries	0.0	0.0	0.0	0.0 #
269 Brass- Bronze- and Copper Foundrie	0.0	0.0	0.0	0.0 #
272 Primary Metal Products- N.E.C	0.0	0.0	0.0	0.0 #
282 Fabricated Structural Metal	0.0	0.0	0.0	0.0 #
284 Fabricated Plate Work (Boiler Shops)	0.0	0.0	0.0	0.0 #
285 Sheet Metal Work	0.0	0.0	0.0	0.0 #
286 Architectural Metal Work	0.0	0.0	0.0	0.0 #
291 Nonferrous Forgings	0.0	0.0	0.0	0.0 #
294 Metal Stampings- N.E.C.	0.0	0.2	0.1	0.3
309 Farm Machinery and Equipment	0.0	0.5	0.0	0.5
312 Mining Machinery- Except Oil Field	0.0	0.0	0.0	0.0 #
313 Oil Field Machinery	0.0	0.1	0.0	0.1
321 Special Dies and Tools and Accessor	0.0	0.5	0.0	0.5
322 Power Driven Hand Tools	0.0	0.2	0.1	0.2
335 Packagng Machinery	0.0	0.2	0.0	0.2
342 Computer Peripheral Equipment-	0.0	0.1	0.1	0.2
347 Refrigeration and Heating Equipmen	0.0	0.1	0.0	0.2
353 Scales and Balances	0.0	0.0	0.0	0.0 #
354 Industrial Machines N.E.C.	0.0	0.0	0.0	0.0 #
369 Lighting Fixtures and Equipment	0.0	0.0	0.0	0.0 #
370 Radio and TV Receiving Sets	0.0	0.0	0.0	0.0 #
373 Radio and Tv Communication Equip	0.0	0.0	0.0	0.0 #
374 Communications Equipment N.E.C.	0.0	0.0	0.0	0.0 #
376 Printed Circuit Boards	0.0	0.1	0.0	0.1
377 Semiconductors and Related Devices	0.0	0.1	0.0	0.1
378 Electronic Components- N.E.C.	0.0	0.0	0.0	0.1
383 Electrical Equipment- N.E.C.	0.0	0.0	0.1	0.1
384 Motor Vehicles	0.0	0.0	0.1	0.1
385 Truck and Bus Bodies	0.0	0.0	0.1	0.1
386 Motor Vehicle Parts and Accessories	0.0	0.1	0.0	0.1
387 Truck Trailers	0.0	0.0	0.0	0.0 #
391 Aircraft and Missile Equipment-	0.0	0.0	0.0	0.0 #
396 Complete Guided Missiles	0.0	0.0	0.0	0.0 #
408 Surgical Appliances and Supplies	0.0	0.0	0.1	0.1
415 Jewelry- Precious Metal	0.0	0.0	0.1	0.1
421 Sporting and Athletic Goods- N.E.C.	0.0	0.0	0.0	0.0 #
429 Signs and Advertising Displays	0.0	0.3	0.0	0.3
432 Manufacturing Industries- N.E.C.	0.0	0.0	0.0	0.1
433 Railroads and Related Services	0.0	4.1	0.3	4.5
434 Local- Interurban Passenger Transit	0.0	4.4	4.7	9.2
435 Motor Freight Transport and Wareho	0.0	121.4	8.2	129.6
437 Air Transportation	0.0	2.8	1.1	3.9
438 Pipe Lines- Except Natural Gas	0.0	0.1	0.0	0.1
439 Arrangement Of Passenger Transport	0.0	1.3	1.0	2.3
440 Transportation Services	0.0	6.1	0.6	6.7
441 Communications- Except Radio and	0.0	8.1	5.2	13.3
442 Radio and TV Broadcasting	0.0	14.6	1.0	15.6
443 Electric Services	0.0	4.8	2.6	7.4
444 Gas Production and Distribution	0.0	1.0	0.2	1.2
445 Water Supply and Sewerage Systems	0.0	0.5	0.7	1.2
446 Sanitary Services and Steam Supply	0.0	14.4	1.7	16.0
447 Wholesale Trade	0.0	194.0	16.6	210.6
448 Building Materials & Gardening	0.0	1.9	9.9	11.8

*Dollars
Values in \$

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Report IM020



Employment Impact

July 23, 2002

IMPACT NAME: all sectors in three counties MULTIPLIER: Type SAM
Dona Ana Luna Hidalgo counties.iap

Industry	Direct*	Indirect*	Induced*	Total*
449 General Merchandise Stores	0.0	2.0	34.0	36.0
450 Food Stores	0.0	1.0	29.8	30.8
451 Automotive Dealers & Service Statio	0.0	2.8	37.5	40.3
452 Apparel & Accessory Stores	0.0	0.2	5.5	5.8
453 Furniture & Home Furnishings Stores	0.0	0.6	10.0	10.6
454 Eating & Drinking	0.0	31.7	86.6	118.3
455 Miscellaneous Retail	0.0	4.6	51.0	55.6
456 Banking	0.0	13.9	13.4	27.3
457 Credit Agencies	0.0	25.1	10.3	35.4
458 Security and Commodity Brokers	0.0	1.2	1.2	2.4
459 Insurance Carriers	0.0	1.6	5.2	6.8
460 Insurance Agents and Brokers	0.0	0.8	2.5	3.2
462 Real Estate	0.0	54.9	23.7	78.6
463 Hotels and Lodging Places	0.0	38.5	17.2	55.7
464 Laundry- Cleaning and Shoe Repair	0.0	8.5	12.1	20.6
465 Portrait and Photographic Studios	0.0	0.1	0.8	0.9
466 Beauty and Barber Shops	0.0	0.0	5.9	5.9
467 Funeral Service and Crematories	0.0	0.0	1.7	1.7
468 Miscellaneous Personal Services	0.0	0.6	4.8	5.3
469 Advertising	0.0	3.8	0.2	4.0
470 Other Business Services	0.0	37.5	6.5	44.0
471 Photofinishing- Commercial Photogr	0.0	2.7	0.7	3.4
472 Services To Buildings	0.0	13.2	4.7	18.0
473 Equipment Rental and Leasing	0.0	6.6	0.6	7.2
474 Personnel Supply Services	0.0	64.2	9.6	73.8
475 Computer and Data Processing Servi	0.0	11.0	2.9	13.9
476 Detective and Protective Services	0.0	9.0	2.6	11.5
477 Automobile Rental and Leasing	0.0	7.7	1.1	8.8
478 Automobile Parking and Car Wash	0.0	0.3	2.3	2.6
479 Automobile Repair and Services	0.0	14.5	8.8	23.3
480 Electrical Repair Service	0.0	2.8	0.8	3.6
481 Watch- Clock- Jewelry and Furniture	0.0	0.0	0.1	0.1
482 Miscellaneous Repair Shops	0.0	15.7	1.3	16.9
483 Motion Pictures	0.0	8.8	3.1	11.9
484 Theatrical Producers- Bands Etc.	0.0	0.2	0.1	0.3
485 Bowling Alleys and Pool Halls	0.0	0.0	1.5	1.5
487 Racing and Track Operation	0.0	7.0	1.4	8.4
488 Amusement and Recreation Services-	0.0	0.0	7.7	7.7
489 Membership Sports and Recreation C	0.0	1.0	6.5	7.5
490 Doctors and Dentists	0.0	0.0	45.0	45.0
491 Nursing and Protective Care	0.0	0.0	8.4	8.4
492 Hospitals	0.0	0.0	42.0	42.0
493 Other Medical and Health Services	0.0	0.3	16.4	16.6
494 Legal Services	0.0	3.9	5.9	9.8
495 Elementary and Secondary Schools	0.0	0.0	2.4	2.4
496 Colleges- Universities- Schools	0.0	0.0	0.0	0.0
497 Other Educational Services	0.0	0.0	3.7	3.7
498 Job Trainings & Related Services	0.0	0.1	1.3	1.4
499 Child Day Care Services	0.0	0.0	5.1	5.1
500 Social Services- N.E.C.	0.0	0.0	12.6	12.6
501 Residential Care	0.0	0.0	3.6	3.6
502 Other Nonprofit Organizations	0.0	0.1	4.7	4.8
503 Business Associations	0.0	2.4	1.1	3.5
504 Labor and Civic Organizations	0.0	0.9	19.3	20.2
506 Engineering- Architectural Services	0.0	3.2	1.0	4.2
507 Accounting- Auditing and Bookkeep	0.0	13.0	4.5	17.5
508 Management and Consulting Service:	0.0	6.0	1.4	7.4
509 Research- Development & Testing Sc	0.0	4.8	1.4	6.2
510 Local Government Passenger Transit	0.0	0.1	0.2	0.3
512 Other State and Local Govt Enterpris	0.0	7.8	5.2	13.0
513 U.S. Postal Service	0.0	5.8	3.3	9.1
515 Other Federal Government Enterpris	0.0	0.6	1.3	2.0

*Dollars

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Report IM020



Employment Impact

July 23, 2002

IMPACT NAME: all sectors in three counties MULTIPLIER: Type SAM
Dona Ana Luna Hidalgo counties.iap

Industry	Direct*	Indirect*	Induced*	Total*
525 Domestic Services	<u>0.0</u> 1,912.0	<u>0.0</u> 2,689.7	<u>20.9</u> 719.1	<u>20.9</u> 5,320.8

*Dollars
Values in \$

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Report IM020

Appendix B

Unaggregated input-output model results for output impact of vegetable production and processing in Doña Ana, Luna and Hidalgo counties.



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Output Impact

July 23, 2002

Dona Ana Luna Hidalgo counties.iap

IMPACT NAME: all sectors in three counties MULTIPLIER: Type SAM

Industry	Direct*	Indirect*	Induced*	Total*	Deflator
1 Dairy Farm Products	0	254,734	87,386	342,120	1.00
2 Poultry and Eggs	0	600,959	35,426	636,385	1.00
3 Ranch Fed Cattle	0	75,313	8,292	83,605	1.00
4 Range Fed Cattle	0	79,863	9,031	88,894	1.00
5 Cattle Feedlots	0	131,949	14,569	146,517	1.00
6 Sheep- Lambs and Goats	0	2,926	320	3,246	1.00
7 Hogs- Pigs and Swine	0	1,797	196	1,994	1.00
9 Miscellaneous Livestock	0	373,818	15,558	389,376	1.00
10 Cotton	0	75,923	874	76,797	1.00
11 Food Grains	0	1,056	44	1,100	1.00
12 Feed Grains	0	12,462	607	13,069	1.00
13 Hay and Pasture	0	96,709	4,713	101,422	1.00
16 Fruits	0	7,602	729	8,331	1.00
17 Tree Nuts	0	89,999	11,334	101,333	1.00
18 Vegetables	100,036,096	8,355,352	123,771	108,515,216	1.00
21 Oil Bearing Crops	0	233,174	934	234,108	1.00
22 Forest Products	0	5,556	543	6,099	1.00
23 Greenhouse and Nursery Products	0	2,143,729	76,773	2,220,502	1.00
24 Forestry Products	0	23	9	32	1.00
26 Agricultural- Forestry- Fishery Serv	0	19,215,420	47,823	19,263,242	1.00
27 Landscape and Horticultural Services	0	79,630	51,601	131,230	1.00
31 Gold Ores	0	151	27	178	1.00
38 Natural Gas & Crude Petroleum	0	31,000	8,679	39,679	1.00
41 Sand and Gravel	0	46	13	59	1.00
47 Misc. Nonmetallic Minerals- N.E.C.	0	62	6	68	1.00
55 Maintenance and Repair- Residential	0	220,930	368,949	589,879	1.00
56 Maintenance and Repair Other Facili	0	4,184,314	499,113	4,683,427	1.00
57 Maintenance and Repair Oil and Gas	0	4,395	1,231	5,626	1.00
58 Meat Packing Plants	0	2,575	7,923	10,498	1.00
59 Sausages and Other Prepared Meats	0	147,770	444,886	592,656	1.00
62 Cheese- Natural and Processed	0	17,024	77,648	94,673	1.00
67 Canned Fruits and Vegetables	116,090,864	427,840	25,532	116,544,232	1.00
68 Dehydrated Food Products	19,068,050	130,956	6,670	19,205,676	1.00
79 Bread- Cake- and Related Products	0	1,072	9,965	11,037	1.00
80 Cookies and Crackers	0	3,452	68,577	72,028	1.00
82 Confectionery Products	0	223	461	685	1.00
93 Wines- Brandy- and Brandy Spirits	0	573	1,937	2,510	1.00
95 Bottled and Canned Soft Drinks & W	0	1,829	4,082	5,911	1.00
101 Manufactured Ice	0	0	3,366	3,366	1.00
103 Food Preparations- N.E.C	46,103,124	269,996	160,604	46,533,724	1.00
108 Broadwoven Fabric Mills and Finishi	0	385	5,504	5,889	1.00
110 Womens Hosiery- Except Socks	0	10	40,171	40,181	1.00
124 Apparel Made From Purchased Mater	0	4,810	258,065	262,875	1.00
125 Curtains and Draperies	0	104	2,924	3,028	1.00
130 Automotive and Apparel Trimmings	0	150	3,322	3,472	1.00
134 Sawmills and Planing Mills- General	0	966	236	1,202	1.00
137 Millwork	0	25,706	8,574	34,280	1.00
138 Wood Kitchen Cabinets	0	6,948	3,497	10,445	1.00
140 Structural Wood Members- N.E.C	0	900	333	1,234	1.00
143 Mobile Homes	0	53	34	87	1.00
146 Reconstituted Wood Products	0	208	264	472	1.00
148 Wood Household Furniture	0	367	60,523	60,890	1.00
164 Paperboard Containers and Boxes	0	801,124	5,888	807,012	1.00
174 Newspapers	0	1,776,259	122,036	1,898,295	1.00

*1998 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

Version 4.01/04



Output Impact

July 23, 2002

Dona Ana Luna Hidalgo counties.iap

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IMPACT NAME: all sectors in three counties MIH.TIPI.IFR.Tvne.SAM

Industry	Direct*	Indirect*	Induced*	Total*	Deflator
175 Periodicals	0	99,980	13,833	113,813	1.00
176 Book Publishing	0	1,357	19,480	20,837	1.00
178 Miscellaneous Publishing	0	339,985	27,199	367,184	1.00
179 Commercial Printing	0	1,266,359	59,347	1,325,706	1.00
180 Manifold Business Forms	0	7,527	1,904	9,431	1.00
184 Typesetting	0	4,277	368	4,644	1.00
195 Drugs	0	1,497	14,851	16,348	1.00
211 Paving Mixtures and Blocks	0	28,445	6,601	35,046	1.00
220 Miscellaneous Plastics Products	0	69,783	3,988	73,771	1.00
233 Brick and Structural Clay Tile	0	177	44	222	1.00
242 Concrete Block and Brick	0	17	4	21	1.00
243 Concrete Products- N.E.C	0	189	23	212	1.00
244 Ready-mixed Concrete	0	165	50	214	1.00
249 Asbestos Products	0	1,950	693	2,643	1.00
250 Minerals- Ground Or Treated	0	1,219	44	1,263	1.00
260 Primary Copper	0	19,029	6,430	25,458	1.00
268 Aluminum Foundries	0	3,801	224	4,025	1.00
269 Brass- Bronze- and Copper Foundrie	0	0	0	1	1.00
272 Primary Metal Products- N.E.C	0	707	239	946	1.00
282 Fabricated Structural Metal	0	907	51	958	1.00
284 Fabricated Plate Work (Boiler Shops)	0	1,674	113	1,787	1.00
285 Sheet Metal Work	0	703	105	808	1.00
286 Architectural Metal Work	0	1,440	199	1,638	1.00
291 Nonferrous Forgings	0	1,151	43	1,195	1.00
294 Metal Stampings- N.E.C.	0	18,669	14,085	32,753	1.00
309 Farm Machinery and Equipment	0	81,553	639	82,192	1.00
312 Mining Machinery- Except Oil Field	0	670	125	794	1.00
313 Oil Field Machinery	0	8,190	732	8,922	1.00
321 Special Dies and Tools and Accessor	0	31,970	929	32,900	1.00
322 Power Driven Hand Tools	0	22,309	7,696	30,006	1.00
335 Packaging Machinery	0	45,932	298	46,230	1.00
342 Computer Peripheral Equipment-	0	30,351	26,958	57,309	1.00
347 Refrigeration and Heating Equipme	0	21,408	8,063	29,472	1.00
353 Scales and Balances	0	501	1,392	1,892	1.00
354 Industrial Machines N.E.C.	0	1,906	157	2,063	1.00
369 Lighting Fixtures and Equipment	0	181	62	243	1.00
370 Radio and TV Receiving Sets	0	208	2,870	3,079	1.00
373 Radio and Tv Communication Equip	0	263	370	633	1.00
374 Communications Equipment N.E.C.	0	148	208	355	1.00
376 Printed Circuit Boards	0	3,136	2,413	5,549	1.00
377 Semiconductors and Related Devices	0	9,508	2,422	11,930	1.00
378 Electronic Components- N.E.C.	0	6,387	4,916	11,303	1.00
383 Electrical Equipment- N.E.C.	0	1,811	12,108	13,919	1.00
384 Motor Vehicles	0	1,217	47,729	48,946	1.00
385 Truck and Bus Bodies	0	797	13,988	14,786	1.00
386 Motor Vehicle Parts and Accessories	0	10,534	3,709	14,243	1.00
387 Truck Trailers	0	103	134	236	1.00
391 Aircraft and Missile Equipment-	0	1,616	825	2,441	1.00
396 Complete Guided Missiles	0	2,857	2,801	5,658	1.00
408 Surgical Appliances and Supplies	0	371	22,478	22,849	1.00
415 Jewelry- Precious Metal	0	412	6,181	6,594	1.00
421 Sporting and Athletic Goods- N.E.C.	0	303	2,989	3,292	1.00
429 Signs and Advertising Displays	0	18,141	1,062	19,204	1.00
432 Manufacturing Industries- N.E.C.	0	3,551	2,519	6,070	1.00

*1998 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

Version 01/00



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Output Impact

July 23, 2002

Dona Ana Luna Hidalgo counties.iap

IMPACT NAME: all sectors in three counties MIH TIPI IFR Tyne SAM

Industry	Direct*	Indirect*	Induced*	Total*	Deflator
433 Railroads and Related Services	0	773,985	64,349	838,335	1.00
434 Local- Interurban Passenger Transit	0	182,415	194,258	376,673	1.00
435 Motor Freight Transport and Wareho	0	10,757,851	727,812	11,485,663	1.00
437 Air Transportation	0	206,703	81,010	287,713	1.00
438 Pipe Lines- Except Natural Gas	0	27,312	10,728	38,040	1.00
439 Arrangement Of Passenger Transport	0	44,955	32,676	77,631	1.00
440 Transportation Services	0	255,150	24,303	279,453	1.00
441 Communications- Except Radio and	0	1,802,209	1,155,996	2,958,205	1.00
442 Radio and TV Broadcasting	0	1,496,385	104,078	1,600,462	1.00
443 Electric Services	0	1,618,307	872,716	2,491,023	1.00
444 Gas Production and Distribution	0	562,111	146,417	708,528	1.00
445 Water Supply and Sewerage Systems	0	44,512	54,151	98,664	1.00
446 Sanitary Services and Steam Supply	0	899,734	104,099	1,003,833	1.00
447 Wholesale Trade	0	12,318,233	1,055,156	13,373,389	1.00
448 Building Materials & Gardening	0	81,939	438,015	519,954	1.00
449 General Merchandise Stores	0	57,561	991,234	1,048,795	1.00
450 Food Stores	0	31,270	920,988	952,258	1.00
451 Automotive Dealers & Service Statio	0	115,988	1,560,981	1,676,969	1.00
452 Apparel & Accessory Stores	0	7,297	171,203	178,500	1.00
453 Furniture & Home Furnishings Stores	0	18,509	308,817	327,326	1.00
454 Eating & Drinking	0	997,838	2,727,781	3,725,619	1.00
455 Miscellaneous Retail	0	112,129	1,255,610	1,367,739	1.00
456 Banking	0	1,812,602	1,738,704	3,551,306	1.00
457 Credit Agencies	0	823,642	338,627	1,162,269	1.00
458 Security and Commodity Brokers	0	112,430	121,672	234,102	1.00
459 Insurance Carriers	0	180,224	582,362	762,586	1.00
460 Insurance Agents and Brokers	0	23,916	77,281	101,197	1.00
461 Owner-occupied Dwellings	0	0	4,076,939	4,076,939	1.00
462 Real Estate	0	6,165,962	2,658,749	8,824,710	1.00
463 Hotels and Lodging Places	0	1,250,501	560,421	1,810,922	1.00
464 Laundry- Cleaning and Shoe Repair	0	142,663	202,513	345,176	1.00
465 Portrait and Photographic Studios	0	3,883	31,992	35,875	1.00
466 Beauty and Barber Shops	0	0	91,607	91,607	1.00
467 Funeral Service and Crematories	0	0	51,050	51,050	1.00
468 Miscellaneous Personal Services	0	26,691	219,922	246,612	1.00
469 Advertising	0	167,130	9,869	176,999	1.00
470 Other Business Services	0	2,179,073	378,748	2,557,821	1.00
471 Photofinishing- Commercial Photogr	0	165,612	45,073	210,686	1.00
472 Services To Buildings	0	411,539	146,077	557,615	1.00
473 Equipment Rental and Leasing	0	446,709	39,572	486,281	1.00
474 Personnel Supply Services	0	1,095,104	163,333	1,258,437	1.00
475 Computer and Data Processing Servi	0	759,828	199,087	958,915	1.00
476 Detective and Protective Services	0	238,213	67,847	306,060	1.00
477 Automobile Rental and Leasing	0	554,383	82,137	636,520	1.00
478 Automobile Parking and Car Wash	0	5,355	46,556	51,912	1.00
479 Automobile Repair and Services	0	928,156	564,302	1,492,459	1.00
480 Electrical Repair Service	0	190,056	56,495	246,551	1.00
481 Watch- Clock- Jewelry and Furniture	0	23	1,798	1,821	1.00
482 Miscellaneous Repair Shops	0	954,115	77,213	1,031,328	1.00
483 Motion Pictures	0	601,109	214,941	816,050	1.00
484 Theatrical Producers- Bands Etc.	0	11,798	7,397	19,194	1.00
485 Bowling Alleys and Pool Halls	0	668	27,502	28,170	1.00
487 Racing and Track Operation	0	323,465	62,657	386,121	1.00
488 Amusement and Recreation Services-	0	1	116,900	116,901	1.00

*1998 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

Version 8/10/02



Output Impact

July 23, 2002

Dona Ana Luna Hidalgo counties.iap

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IMPACT NAME: all sectors in three counties MULTIPLIER: Type SAM

Industry	Direct*	Indirect*	Induced*	Total*	Deflator
489 Membership Sports and Recreation C	0	22,664	146,883	169,547	1.00
490 Doctors and Dentists	0	0	3,387,010	3,387,010	1.00
491 Nursing and Protective Care	0	0	212,662	212,662	1.00
492 Hospitals	0	1,200	2,367,359	2,368,560	1.00
493 Other Medical and Health Services	0	11,993	778,781	790,774	1.00
494 Legal Services	0	203,783	311,900	515,683	1.00
495 Elementary and Secondary Schools	0	0	52,157	52,157	1.00
496 Colleges- Universities- Schools	0	23	810	833	1.00
497 Other Educational Services	0	1,146	134,135	135,281	1.00
498 Job Trainings & Related Services	0	5,238	51,754	56,992	1.00
499 Child Day Care Services	0	0	164,567	164,567	1.00
500 Social Services- N.E.C.	0	0	525,430	525,430	1.00
501 Residential Care	0	0	82,662	82,662	1.00
502 Other Nonprofit Organizations	0	2,645	136,445	139,090	1.00
503 Business Associations	0	97,214	46,753	143,967	1.00
504 Labor and Civic Organizations	0	8,334	187,253	195,587	1.00
506 Engineering- Architectural Services	0	273,675	84,711	358,386	1.00
507 Accounting- Auditing and Bookkeep	0	410,718	140,194	550,912	1.00
508 Management and Consulting Service:	0	443,732	103,887	547,619	1.00
509 Research- Development & Testing Sc	0	274,022	82,595	356,617	1.00
510 Local Government Passenger Transit	0	4,794	5,781	10,575	1.00
512 Other State and Local Govt Enterpris	0	1,282,410	854,108	2,136,518	1.00
513 U.S. Postal Service	0	413,183	238,965	652,148	1.00
515 Other Federal Government Enterprise	0	65,211	137,148	202,359	1.00
525 Domestic Services	0	0	155,624	155,624	1.00
Total	281,298,134	97,586,757	39,489,556	418,374,439	

*1998 Dollars - if results are deflated and aggregated, then deflators displayed are set to 1.0 (results have been deflated)

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New Mexico Chile Task Force Publication List

Report 1: An Industry-University Response to Global Competition

Report 2: Chile Seed Germination as Affected by Temperature and Salinity

Report 3: Yield and Quality of Machine-Harvested Red Chile Peppers

Report 4: Chile Seed Quality

Report 5: Guidelines for Chile Seed Crop Production

Report 6: Improving Chile Harvesting and Cleaning Technologies

Report 7: Farm Labor Employers' Handbook

Report 8: New Mexico's Chile Pepper Industry: Chile Types and Product Sourcing

Report 9: Economic Impact of Southern New Mexico Vegetable Production and Processing



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