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Changes in New Mexico Agriculture 1996



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PREFACE

Changes in New Mexico Agriculture provides an annual accounting in constant units of changes that occurred in cash receipts and value of production between the preceding year and the title year. It is a companion for publications such as New Mexico Agricultural Statistics and Agricultural Statistics, which publish extensive statistics related to agriculture; however, the monetary values reported in those publications are measured in nominal dollars. As a consequence, a comparison between years does not allow a determination of the real changes that have occurred. Changes in New Mexico Agriculture remedies this problem. Changes in cash receipts are calculated for all commodities. In addition, a top-10 county disaggregation is made for the 10 commodities accounting for the highest percentage of cash receipts in New Mexico for the period covered in the report. Longterm trends and changes in cash receipts and value of production are reported in Trends in New Mexico Agriculture.

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Changes in New Mexico Agriculture 1996

Wilmer M. Harper and Jacob Way*

INTRODUCTION

This report is a baseline reference for New Mexico's agricultural sector with respect to cash receipts, value of production, and major commodities. Annual cash receipts and value of production are converted from nominal monetary values to constant-dollar values.1 Inflation in the general price level produces nominal price changes that do not reflect changes in the real value of goods and services in the economy. To remove changes associated with inflation, the value of the commodities covered in this report are adjusted to a common base period (1990) using the Consumer Price Index² (CPI) (appendix A). Adjusting cash receipts to a common base period removes variation in cash receipts between time periods that may be due to price differences associated with changes in the nominal value of the dollar. Adjusted values allow the identification of monetary values that have increased or decreased in real terms. Although conversion to a common base period does not take into account changes in production due to technology, a comparison of the constant-dollar values between the two periods provides a measure of whether producers' real incomes have increased or decreased. For commodities with decreases in production, there also may be a decrease in the cost of production. In these cases, cost decreases could partially offset decreases in profits associated with lower quantities.

This report should not be interpreted as measuring the impact of agriculture upon the state's economy; the data are cash receipts and values of production. Cash receipts understate total value in some cases and overstate total value in others. However, cash receipts are the values used in publications such as New Mexico Agricultural Statistics. Cash receipts do not account for intrafarm transfers of commodities such as hay, pasture, livestock, and grain. The value of production for final products, such as calves and yearlings, may include the value of hay and grain that were produced on the farm or ranch. In these cases, cash receipts and value of production for the final product do not record the production of intermediate goods used in the final product. The general result is that cash receipts data overstate the importance of livestock operations where one animal may appear in cash receipts more than once in a given year and the value of nonmarketed feed is attributed to the animal not the crop. Value added would be a preferable concept, but the data are not available. In addition, cash receipts and value of production leave unmeasured the multiplier effect that accompanies agricultural production. This unmeasured impact includes such important components as agriculture's impact on the input and service industries associated with the production process, the processing of agricultural products, and the impact of the multiplier effect upon cash receipts as they cycle through the economy. The value of the multiplier for New Mexico's agricultural sector is 2.4472. This means every \$1 change in output that occurs in the agricultural sector results in a \$2.4472 change in New Mexico's aggregate economy (U.S. Department of Commerce, 1992, p. 34).

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¹Throughout this report, changes between periods reported in 1990 constant-dollar values will be referred to as changes in real values measured in constant units

²Adjustments to a constant value are most meaningful when the adjustment mechanism is familiar to those who will use the adjusted values. No single price index is appropriate for making adjustments to the values of all goods and services; however, the Consumer Price Index (CPI) is frequently used to measure inflationary changes in the economy. Because the CPI is familiar to most readers, it is used in this report to adjust the nominal dollar values.

Agriculture in New Mexico

The 1997 Census of Agriculture classifies 45.8 million acres of New Mexico's land area as farmland. The U.S. Department of Agriculture definition does not distinguish between cropland and rangeland. There were 14,094 farms, 0.7 % of the U.S. total.³ Units of 2,000 acres or more accounted for 18.84 % of the total farm classification, and units in the 1-50 acre range constituted 36.98 % of the total.⁴ By sales class, 81.40 % of the units had sales less than \$50,000, and 3.44 % had sales greater than \$500,000. The average operator age was 56.5 years, and 51.1 % of the operators reported farming as their principal occupation. With respect to tenure, individual or family operations were the predominant types, comprising 83.60 % of total operators (1997 Census of Agriculture, State and County Data, N.M., pp. 10-11).

In 1996, New Mexico ranked 34 among the 50 states with respect to total farm marketings and produced 0.84 % of total U.S. farm marketings. New Mexico ranked 37 with respect to total farm marketings from crops, producing 0.47 % of the U.S. total, and it ranked 27 with respect to total farm marketings from livestock, producing 1.29 % of the US total (USDA, Agricultural Statistics 1998, p. IX-39). Farm income⁵ was 1.09 % of New Mexico's total personal income generated from all industries. Farm income increased from \$336.5 million in 1995 to \$352 million in 1996 (U.S. Dept. of Commerce, REIS). Cash receipts from all commodities were \$1.71 billion in 1996, a nominal increase of 17.20 % from 1995. In constant dollars, total cash receipts increased 13.84 % from 1995 to 1996 (table 1).

From 1995 to 1996, the nominal value of cash receipts increased for 17 commodities, decreased for eight commodities, and remained constant for four commodities. However, when valued in constant dollars, 14 commodities showed an increase in cash receipts and, 15 commodities showed a decrease. The rank of the commodities also showed substantial change from 1995 to 1996. Of the 29 commodities reported, seven commodities maintained the same rank, 14 increased in rank, and eight decreased in rank (table 1). When compared to the 1993-95 average, constant-dollar cash receipts was greater than the 1993-95 average for 10 commodities and less for 18 commodities (table 2). Onecommodity, Christmas trees, has not been reported

separately long enough to calculate the multiple year average. The state's constant-dollar total cash receipts was greater than the 1993-95 constant-dollar average. Of the top 10 commodities in 1996, nine were in the top 10 for the 1993-95 constant-dollar average. Five of the top 10 commodities had 1996 constant-dollar cash receipts that exceeded their 1993-95 constant-dollar average. Wheat was in the top 10 in 1996, but did not rank in the top 10 for the 1993-95 constant-dollar average. Pecans ranked in the top 10 for the 1993-95 constant-dollar average, but did not rank in the top 10 in 1996.

Constant-dollar value of cash receipts increased 13.84 % from 1995 to 1996. The balance sheet for New Mexico's farm sector (table 3) shows a real increase in the value of farm assets. The value of farm debt increased 4.54 % in real terms. Although total farm debt increased in both real and nominal terms, the debt-to-equity and debt-to-asset ratios decreased from 1995 to 1996, due to the increase in total farm assets. The value of real estate and crops increased, while livestock, machinery and vehicles, purchased inputs, and financial assets decreased in value.

The Major Commodities

In 1996, the top 10 commodities accounted for 91.14 % of the 1996 total value of cash receipts for New Mexico. These commodities were taken as the major commodities for New Mexico in 1996. An important part of the detailed analysis which follows is the disaggregation of the change in the value of production into its component parts- change due to the difference in commodity price, change due to the difference in the quantity of commodity produced, and the interaction of difference in price and difference in quantity.

With respect to cash receipts, the top 10 (of 33 total) counties account for 85.01 % of New Mexico's total cash receipts (table 4), up 9.21 % from 1995. The top two counties, Chavesand Doña Ana, account for 30.69 % of total value of cash receipts in New Mexico, down 1.51% from 1995. Both Chaves and Doña Ana counties rank in the top 10 for six of the top 10 commodities.

Where possible, the county-level analysis uses cash receipts; however, this is not possible for all commodities. At the county level, some commodity data are reported only in value of production. Differences in cash receipts and value of production arise for various reasons. In the case of commodities used in the produc-

³The USDA classifies as a farm any agricultural production unit that had \$1,000 of sales in the census year or that was capable of \$1,000 sales in the census year.

⁴Since USDA does not distinguish between cropland and rangeland, the high percentage of units with more than 2,000 acres should not be taken to imply an equal weighting of irrigated units in this category. Only 1.76 % of land classified as _land in farms_ is classified as irrigated land.

⁵Farm income consists of the proprietor's net farm income, the wages of hired farm labor, the payment-in-kind of hired farm labor, and the salaries of officers for corporate farms.

Table. 1 Cash receipts, all New Mexico commodities, 1995-96.

| | | | 1996 | | | | 1995 | | | Percent change |
|-----------------------|------|-----------|--------------|---------------|--------------|------------|-----------|--------------|---------|----------------|
| | | | Percent | Cumulative | Cash⁵ | | | Cash | | cash receipts |
| | | Cashª | agricultural | percent of | receipts | | $Cash^a$ | receipts | | 1995 - 1996 |
| | | receipts | cash | agricultural | (\$1000) | | Receipts | (\$1000) | Nomina | nal |
| Commodity | Rank | (\$1000) | receipts | cash receipts | (1990 = 100) | Rank - | (\$1000) | (1990 = 100) | dollars | ars |
| Cattle and calves | _ | 628,219 | 36.76% | 36.76% | 526,519 | _ | 483,140 | 416,883 | 30.03% | 3% |
| Milk wholesale | 7 | 509,358 | 29.80% | %95'99 | 426,900 | 7 | 417,222 | 360,005 | 22.08% | 3% |
| Нау | က | 154,745 | 9.05% | 75.62% | 129,694 | က | 130,484 | 112,590 | 18.59% | %(|
| Chile | 4 | 65,460 | 3.83% | 79.45% | 54,863 | 9 | 44,840 | 38,691 | 45.99% | % |
| Onions | 2 | 44,744 | 2.62% | 82.06% | 37,501 | 2 | 52,826 | 45,581 | -15.30% | % |
| Greenhouse nursery | 9 | 39,358 | 2.30% | 84.37% | 32,986 | 7 | 39,062 | 33,705 | 0.76% | % |
| Cotton lint | 7 | 38,929 | 2.28% | 86.65% | 32,627 | 80 | 30,979 | 26,731 | 25.66% | % |
| Corn | œ | 38,673 | 2.26% | 88.91% | 32,412 | 6 | 28,214 | 24,345 | 37.07% | % |
| Potatoes | 6 | 19,903 | 1.16% | %20.06 | 16,681 | 10 | 24,045 | 20,747 | -17.23% | % |
| Wheat | 10 | 18,195 | 1.06% | 91.14% | 15,249 | 12 | 14,919 | 12,873 | 21.96% | % |
| Eggs | 1 | 17,213 | 1.01% | 92.14% | 14,426 | 16 | 13,383 | 11,548 | 28.62% | 9 |
| Pecans | 12 | 16,280 | 0.95% | 93.10% | 13,644 | 4 | 55,800 | 48,148 | -70.82% | % |
| Misc. vegetables | 13 | 16,250 | 0.95% | 94.05% | 13,619 | 7 | 16,250 | 14,021 | 0.00% | % |
| Sorgum grain | 14 | 15,077 | 0.88% | 94.93% | 12,636 | 17 | 12,251 | 10,571 | 23.07% | vo. |
| Milk retail | 15 | 13,921 | 0.81% | 95.74% | 11,667 | 4 | 13,581 | 11,719 | 2.50% | 9 |
| Other livestock | 16 | 13,586 | 0.79% | 96.54% | 11,387 | 15 | 13,525 | 11,670 | 0.45% | % |
| Other field crops | 17 | 12,043 | 0.70% | 97.24% | 10,093 | 19 | 11,427 | 098'6 | 2.39% | , 0 |
| Sheep and lambs | 18 | 10,902 | 0.64% | 88.76 | 9,137 | 18 | 12,186 | 10,515 | -10.54% | \ 0 |
| Peanuts | 19 | 9,954 | 0.58% | 98.46% | 8,343 | 13 | 14,190 | 12,244 | -29.85% | ٠,0 |
| Dry beans | 20 | 7,029 | 0.41% | 88.86 | 5,891 | 21 | 6,340 | 5,471 | 10.87% | ٠,0 |
| Lettuce | 21 | 5,654 | 0.33% | 99.21% | 4,739 | 20 | 8,493 | 7,328 | -33.43% | . 0 |
| Cottonseed | 22 | 4,529 | 0.27% | 99.47% | 3,796 | 24 | 3,406 | 2,939 | 32.97% | . 0 |
| Wool and mohair | 23 | 2,855 | 0.17% | 99.64% | 2,393 | 22 | 4,074 | 3,515 | -29.92% | ٠,0 |
| Christmas trees | 24 | 1,674 | 0.10% | 99.74% | 1,403 | 25 | 1,674 | 1,444 | 0.00% | \ 0 |
| Other fruits and nuts | 25 | 1,540 | 0.09% | 99.83% | 1,291 | 56 | 1,540 | 1,329 | 0.00% | vo. |
| Apples | 56 | 1,530 | 0.09% | 99.95% | 1,282 | 27 | 894 | 771 | 71.14% | v, |
| Hogs and pigs | 27 | 1,374 | 0.08% | 100.00% | 1,152 | 23 | 3,429 | 2,959 | -59.93% | % |
| Other poultry | 28 | 40 | 0.00% | 100.00% | 34 | 28 | 40 | 35 | 0.00% | , 0 |
| Farm chickens | 29 | 21 | 0.00% | 100.00% | 18 | 29 | 16 | 14 | 31.25% | |
| Total | | 1,709,056 | | | 1,432,383 | | 1,458,230 | 1,258,250 | 17.20% | |

^aSource: New Mexico Agricultural Statistics - 1996, p. 16. Data for 1994 have been revised from those reported in 1995.

^bThe Consumer Price Index with base year 1990 = 100 was calculated to be 115.8935 for 1995, and 119.3156 for 1996.

^cBold numbers indicate a higher nominal rank in 1996 than in 1995; italic numbers indicate a lower nominal rank in 1996 than in 1995.

Table. 2 Cash receipts, all New Mexico commodities, 1993-96.

| 1993-95 Average | Cash receipts 1996 > 193-95 receipts (\$1000) (1990 = 100) | 567,189 | 366,639 324,198 YES | | 46,432 | | | 34,709 | 32 411 28 756 YES | | 23,123 | 23,123 19,335 | 23,123 19,335 16,255 | 23,123 19,333 16,255 13,350 | 23,123 19,335 16,255 31,759 | 23,123 19,335 13,350 31,759 14,409 | 23,123 19,335 13,350 14,759 15,097 | 23,123 19,335 16,355 13,350 14,409 10,409 | 23,123 16,255 16,255 13,759 17,099 17,109 17,11 | 23,123 16,255 16,255 13,723 17,729 17,097 10,076 | 23,123 19,335 13,350 13,350 14,769 10,479 11,714 10,076 9,359 | 23,123 19,335 11,255 12,355 14,409 10,409 11,714 11,714 16,359 | 23,123 16,255 16,255 17,723 17,729 17,74 10,076 10,076 10,076 10,076 10,076 10,076 | 23,123 19,335 11,255 13,350 14,769 10,076 10,076 10,076 10,076 11,685 12,828 12,828 | 23.12.3 19.33.5 19.33.5 19.33.5 10.40.9 10.40.9 10.00.6 10.00. | 23, 123, 123, 123, 123, 123, 123, 123, 1 | 23,172 19,335 11,355 14,759 17,074 17,076 | 23,172 19,335 19,335 13,350 10,4409 11,714 11,714 11,714 11,076 12,359 13,086 14,685 14,685 17,77 17,77 17,07 18,086 18,086 18,086 19,0 | 23,123 19,335 14,255 13,350 17,759 10,479 11,714 11,714 11,714 11,685 14,685 14,685 14,685 14,685 17,717 1,366 1,366 | 23,123 19,335 13,350 14,409 15,007 10,076 10 | 23,123 19,335 13,350 14,409 15,097 10,479 10,076 14,685 14 | (1) (1) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3 |
|-----------------|--|-------------------|---------------------|---------|--------|--------|------------|---------|-------------------|--------|--------|------------------|----------------------------|--------------------------------------|--|---|---|--|---|---|--|---|--|---|--|---|--|--|--|---|--|--|
| |)0) Rank | l | | | 4 | | | | | | თ | _ | | | | | | | | | | | | | | | | | | | | |
| | Cash ^b receipts (\$1000) (1990 = 100) | | 273,319 | 66,816 | 51,032 | 40,041 | | 33,836 | 30,044 | | 21,351 | 21,351 17,300 | ., | ., | • | (1 | (1 | ((| (1 | (1 | ((| (1 | (1 | (1 | (1 | W | <i>(1</i> | W | (4 | (V | (V | (1 |
| 1993 | Cash⁴ receipts (\$1000) | 763,886 | 300,339 | 73,421 | 56,077 | 43,999 | | 37,181 | 33,014 | 23 462 | | 19,010 | 19,010 | 21,588 21,588 16,693 | 21,588 21,588 16,693 21,600 | 21,588 21,588 16,693 21,600 | 20, 426 19, 010 21, 588 16, 693 21, 600 16, 250 21, 613 | 21,588 21,588 16,693 21,600 21,613 0,428 | 21,588 21,588 16,693 21,600 21,613 21,613 10,428 | 21, 52, 70, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1 | 19,040 21,588 16,693 21,600 16,250 21,613 10,428 13,533 10,976 | 20,020 21,588 21,609 21,609 21,600 21,613 10,028 11,001 11,001 11,008 | 20,091 20,091 20,093 20,009 20 | 20,000 21,588 16,693 16,693 16,693 10,428 13,533 10,976 11,988 18,988 18,988 17,017 | 20,020 21,588 21,588 21,560 21,603 10,953 10,953 10,978 11,017 11 | 21,588 21,588 21,6693 21,6693 21,613 10,250 10,976 11,017 | 20,091 20,092 20,009 20 | 20,091 20,088 21,588 21,693 21,603 21,613 21 | 21,588 21,588 21,588 21,693 21,693 10,976 113,533 10,976 113,633 10,976 11,907 | 20,020 21,588 21,588 21,6693 22,613 10,926 11,042 11,043 1 | 20,020 21,588 21,588 21,609 21,609 10,976 11,017 11 | 21,588 21,588 221,588 221,600 22,600 10,976 10,976 10,976 11,540.00 1,540.00 4,894 4,994 |
| | Rank | - | 7 | က | 4 | 2 | | 9 | 7 | ω | | 7 | 4 7 | 0 4 4 | <u>6 </u> | 2 1 7 7 7 0 1 | <u>5 </u> | <u>7774000</u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | 7 | 7777 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 77-70-00-00-00-00-00-00-00-00-00-00-00-0 | 71-7-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0 | 0 4 1 4 0 5 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2 4 4 4 6 6 9 9 8 7 5 7 5 6 5 6 9 8 7 5 6 7 6 8 7 6 8 7 6 8 7 6 8 7 8 7 8 7 8 7 | 211401000011111212222222222222222222222 | 21.4000000000000000000000000000000000000 | 211401 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 1 1 4 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| | Cash ^b receipts (\$100) (1990 = 100) | 589,522 | 339,270 | 122,188 | 49,572 | 28,440 | | 36,586 | 29,493 | 23,673 | | 19,957 | 19,957 16,245 | 19,957 16,245 13,310 | 19,957 16,245 13,310 27,471 | 19,957 16,245 13,310 27,471 14,419 | 19,957 16,245 13,310 27,471 14,419 15,051 | 19,957 16,245 13,310 27,471 14,419 15,051 | 19,957 16,245 13,310 27,471 14,419 10,227 11,155 | 19,957 16,245 13,310 27,471 14,419 15,051 10,227 11,155 10,380 | 19,957 16,245 13,310 27,471 14,449 15,051 10,227 11,155 10,386 7,536 | 19,957 16,245 13,310 27,471 15,051 10,227 11,155 10,380 7,531 14,531 | 19,957 16,245 13,10 27,471 14,419 15,051 11,1257 11,12 | 19,957 16,245 13,310 27,471 14,419 15,051 10,380 10,380 17,536 14,531 14,531 6,373 | 19,957 16,2245 17,747 17,027 10,038 1 | 19,957 16,245 17,245 17,245 17,051 10,380 10,380 17,536 14,536 17 | 19,957 16,245 17,340 17,471 10,380 10 | 19,957 16,245 17,471 14,419 16,021 10,027 11,155 10,380 17,538 17 | 19,957 16,2245 17,245 1 | 19,957 16,245 17,245 17,245 17,051 10,380 10 | 19,957 10,224 14,47 14,47 10,227 10,227 10,236 | 19,967 10,224 10,224 10,224 10,224 10,236 |
| 1994 | Cashdreceipts (\$1000) | 664,389 | 382,356 | 137,705 | 55,868 | 32,052 | | 41,232 | 33,239 | 26,679 | | 22,491 | 22,491 18,308 | 22,491 18,308 15,000 | 22,491 18,308 15,000 30,960 | 22,491 18,308 15,000 30,960 16,250 | 22,491 18,308 15,000 30,960 16,250 | 22,491 18,308 15,000 30,960 16,250 16,962 | 22,491 18,308 15,000 30,960 16,962 16,962 11,526 12,572 | 22, 491 18, 308 15,000 30,960 16,250 11,526 11,698 | 22,2 18,308 15,000 30,600 30,960 16,962 17,526 1,532 1 | 22,491 18,308 18,308 16,260 16,262 17,572 17,698 17,698 16,3493 16,3493 | 22,491 18,308 15,000 30,960 16,250 17,526 17,572 17,698 8,493 16,633 | 22, 491 18,308 15,000 30,000 30,000 16,250 17,726 17,726 17,698 18,493 16,376 16,376 18,493 17,698 18,493 18,493 18,493 18,493 | 22,2 18,30,000 1 | 22,491 18,308 10,000 30,960 16,250 11,698 11,698 16,473 17,182 17,182 182 183 183 183 183 183 183 183 183 183 183 | 22,491 18,308 10,000 30,960 11,526 11,526 11,698 18,493 16,376 16,6376 17,823 1 | 22,491 18,308 10,000 10,260 11,6966 11,6966 11,697 11,698 | 22,2 18,308 18,308 16,260 16,260 17,572 17,698 18,493 17,77 17,20 17,20 18,493 | 22,491 18,308 10,000 30,960 16,250 11,698 12,572 12,572 14,698 16,653 3,224 17,74 16,74 16,74 16,74 16,74 16,74 16,74 16,74 17 | 22,491 18,308 10,000 10,250 11,6926 11,6926 11,693 16,376 16,376 16,376 17,7,7,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1, | 18,308 18,308 18,308 10,060 10 |
| |) Rank | _ | 7 | က | 4 | 7 | | 2 | 9 | σ |) | . 0 | , 2 7 | , 2 | 0 7 7 8 | | | | | | | | | | | | | | | | | |
| | Cash ^b receipts (\$1000) (1990 = 100) | 416,883 | 360,005 | 112,590 | 38,691 | 45,581 | | 33,705 | 26,731 | 1 | 24,345 | 24,345 | 24,345 20,747 12,873 | 24,345 20,747 12,873 11,548 | 24,345 20,747 12,873 11,548 48,148 | 24,345 20,747 12,873 11,548 48,148 14,021 | 20,747 20,747 12,873 11,548 48,148 14,021 | 24,345 20,747 12,873 11,548 48,148 48,148 14,021 10,571 | 24,745 20,747 12,873 11,548 48,148 46,021 10,571 11,719 | 24,545 20,747 12,848 11,548 48,148 48,148 48,148 14,021 10,571 11,670 9,860 | 24,545 20,747 12,848 11,548 48,148 48,148 14,021 10,571 11,719 11,670 9,880 9,880 9,150 | 24,545 20,747 12,873 11,548 14,148 14,148 10,571 11,719 9,860 9,860 | 24,747 20,747 12,873 11,548 44,021 11,570 11,670 10,515 10,515 10,515 10,515 | 24,747 27,747 20,747 21,548 48,118 48,118 48,019 60,511 60,515 60,600 600 | 24,747 24,747 20 | 24,747 20,747 20,747 11,548 44,102 10,571 11,670 11,670 12,242 12,243 13,28 13 | 24,747 20,747 | 24,747 20,747 12,873 11,548 48,11 14,021 10,517 11,719 10,515 10, | 24,747 20,474 20,474 20,474 21,144 | 24,747 27,747 27,747 28,747 28,747 29,747 20,747 | 24,747 27,747 | 24,747 20,747 20,747 48,11,18 48,11,18 41,18 |
| 1995 | Cash ^c receipts (\$1000) | 483,140 | 417,222 | 130,484 | 44,840 | 52,826 | | 39,062 | 30,979 | 777 | 10,07 | 24,045 | 24,045 24,045 14,919 | 24,045 24,045 14,919 13,383 | 24,045 24,045 14,919 13,383 55,800 | 24,045 24,045 14,919 13,383 55,800 | 24,045 14,919 13,383 55,800 16,250 | 24,045 14,919 13,383 55,800 16,250 12,251 13,581 | 26,6-14 24,045 13,383 13,383 16,250 16,250 12,251 13,581 | 26,614 24,045 14,919 13,383 55,800 16,250 13,525 13,528 11,427 | 26,71 24,045 24,045 13,383 16,250 17,251 13,581 13,581 17,427 17,427 | 20,61-4 20,61-4 14,91-9 15,383-3 15,800 16,250 12,251 13,581 13,525 11,182 12,180 14,190 | 24, 64, 64, 64, 64, 64, 64, 64, 64, 64, 6 | 24,0,14 24,0,14 14,919 13,383 55,800 16,250 12,251 13,581 13,581 14,22 14,190 6,493 | 2.0, 14 2.0, 14 14, 019 13, 383 55, 800 16, 525 11, 525 11, 525 11, 486 12, 186 14, 190 8, 340 8, 340 | 2.6.6.1.4.2.7.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 | 24.014 24.014 14.919 13.383 55.800 16.250 12.251 13.581 13.581 11.427 11.427 11.427 11.427 12.186 12.186 14.93 8.493 3.406 4.1074 | 24,0,14 24,0,14 14,919 13,383 55,800 16,280 12,251 13,581 14,225 11,4,225 12,186 14,190 6,493 8,493 8,493 1,674 | 2.4.0.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4. | 2.4.04.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4 | 24.0.14 24.0.14 14.919 16.250 16.250 17.251 | 2.6.04.9 2.6.04.9 1.6.050 1.6.050 1.6.050 1.7.050 1 |
| | Rank | _ | 7 | က | 9 | 2 | | 7 | 80 | c | D | 0 0 | 0 4 5 g | 0 4 4 5 g | 0 0 1 0 4 | 0 0 1 1 4 1 | 0 0 1 1 4 1 1 | 00004 | 0 0 0 0 0 4 7 7 4 6 | 001114111111111111111111111111111111111 | 001114111411 | 0 | 0 | 0 0 7 0 4 7 7 7 5 6 7 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 8 7 0 8 | | | | | | | | |
| | Cash ^b receipts (\$100) (1990 = 100) | 526,519 | 426,900 | 129,694 | 54,863 | 37,501 | | 32,986 | 32,627 | | 32,412 | 32,412 16,681 | 32,412 16,681 15,249 | 32,412 16,681 15,249 14,426 | 32,412 16,681 15,249 14,426 13,644 | 32,412 16,681 15,249 14,426 13,644 | 32,412 16,681 15,249 14,426 13,644 13,619 12,636 | 32, 412 16,681 15,249 13,642 13,619 12,636 | 32,412 16,681 15,249 13,644 13,619 12,636 11,667 | 32,412 16,681 14,426 13,644 13,619 12,636 11,367 11,367 10,093 | 32,412 16,681 17,426 13,644 13,619 17,667 11,667 11,067 11,067 11,067 10,093 | 32,412 32,412 15,689 14,426 13,644 12,661 11,667 11,387 10,093 8,343 | 32,412 32,412 15,249 13,644 13,619 11,667 11,667 11,387 10,093 9,137 8,137 8,834 | 32,412 32,412 15,249 13,644 13,644 13,636 11,667 11,667 11,037 10,038 10,037 8,343 4,739 | 32,412 32,412 15,249 14,426 13,644 12,636 11,667 11,387 10,030 9,137 8,343 8,343 8,736 | 32,412 32,412 15,249 13,644 14,426 12,644 11,667 11,387 10,093 10 | 32,412 32,412 15,249 14,426 13,644 13,644 11,667 11,87 10,093 9,137 9,137 9,137 9,137 1,403 | 32,412 32,412 15,249 13,644 13,644 13,636 11,667 11,667 10,093 | 32,412 32,412 15,249 13,624 12,636 11,367 10,093 10 | 32,412 32,412 14,426 13,664 13,664 11,667 11,667 11,187 11,187 11,187 11,403 11,403 1,282 | 32,412 32,412 16,249 13,644 13,644 13,644 11,667 11,667 10,093 10,093 10,093 10,093 11,673 11,739 11,282 11,282 | 32,412 32,412 14,426 13,614 13,614 11,667 11,367 |
| 1996 | Cash ^a Receipts (\$1000) | 628,219 | 509,358 | 154,745 | 65,460 | 44,744 | | 39,358 | 38,929 | 0 0 0 | 38,673 | 38,673 19,903 | 38,673 19,903 18,195 | 38,673 19,903 18,195 17,213 | 38,673 19,903 18,195 17,213 16,280 | 38,673 19,903 18,195 17,213 16,280 | 38,673 19,903 18,195 17,213 16,280 16,250 | 38,673 19,903 17,213 16,280 16,280 15,077 | 38,673 19,903 18,195 17,213 16,280 15,077 13,921 | 38 673 19,903 17,219 16,280 16,250 15,077 13,921 12,048 | 38 673 19,903 17,213 16,280 16,250 13,921 13,586 12,002 | 38,673 19,903 18,195 17,213 16,280 15,077 13,927 13,586 12,043 10,902 | 38,673 19,903 18,195 17,213 16,280 16,280 15,077 13,921 13,921 12,043 10,902 10,902 10,902 | 38,673 19,903 18,195 16,280 16,280 15,077 13,921 13,921 10,902 9,954 6,654 | 38,673 19,903 17,213 16,280 16,280 15,077 13,921 12,043 10,902 10,903 10 | 38,673 19,903 17,213 17,213 16,280 15,077 13,921 13,921 10,002 10 | 38,673 19,903 11,213 16,280 16,280 15,077 13,686 12,043 10,902 9,924 7,023 7,023 7,023 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,903 | 38,673 19,903 18,195 16,280 16,280 16,280 16,280 10,070 13,921 13,986 10,902 9,954 7,029 7,029 7,654 1,674 | 38,673 19,903 11,213 17,213 16,280 15,077 13,921 12,043 10,902 10 | 38,673 19,903 11,213 17,213 16,280 16,280 12,043 10,902 10,902 10,902 10,902 10,902 10,902 10,902 10,902 11,654 11,540 11,540 | 38,673 19,903 11,213 16,280 16,280 16,280 13,921 13,921 10,902 10 | 38,673 19,903 11,213 16,280 16,280 15,074 13,921 13,921 10,902 9,954 10,902 10, |
| | Rank | 1 0 | N | က | 4 | 2 | | 9 | 7 | • | × | သတ | 2 O O | 7 0 0 c | 8 6 1 1 C | 8 6 1 1 2 7 7 7 7 7 7 1 1 0 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 8 6 1 C E 4 | 8 6 1 | 8 6 0 1 1 5 1 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | × 0 1 1 2 2 4 5 5 7 | x e o 1 1 5 6 7 7 8 7 9 7 1 8 1 | × 0 0 1 | x 0 0 1 1 5 1 7 1 7 1 7 1 7 1 8 5 0 0 | 8 0 0 1 1 2 1 7 1 1 2 1 8 8 1 7 1 7 1 8 1 1 7 1 7 1 8 1 1 7 1 7 | x e o c c c c c c c c c c c c c c c c c c | 8 6 0 1 1 1 1 1 1 1 0 8 8 1 1 1 1 1 1 1 1 1 | 8 0 0 1 1 7 1 1 2 1 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3 3 | 8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 20011 | 8 6 0 1 1 2 2 1 2 2 2 2 3 2 3 2 3 3 3 3 3 3 3 | 2011 2011 2010 2010 2010 2010 2010 2010 | 2011 2017 2017 2017 2017 2017 2017 2017 |
| 1 | Commodity | Cattle and calves | Milk wholesale | Hay | Chile | Onions | Greenhouse | nursery | Cotton lint | 2.00 | 5 | Potatoes | Potatoes Wheat | Potatoes Wheat Eggs | Potatoes Wheat Eggs Pecans | Coll Wheat Eggs Pecans Misc. vegetables | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other field crops Sheep and lambs | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Mik retail Other livestock Other field crops Sheep and lambs Peanuts | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other field crops Sheep and lambs Peanuts Dry beans | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other livestock Other ded crops Sheep and lambs Peanuts Dry beans | Potatoes Wheat Eggs Pecans Pocans Misc. vegetables Sorgum grain Milk retail Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed Wool and mohair | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed Wool and mohair Christmas trees | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed Wool and mohair Wool and mohair Christmas trees | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed Wool and mohair Christmas trees Other fruits and | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed Wood and mohair Christmas trees Other fruits and nuts Apples | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk ratail Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed Wool and mohair Christmas trees Other fruits and nuts Apples Hogs and pigs | Potatoes Wheat Eggs Pecans Misc. vegetables Sorgum grain Milk retail Other livestock Other livestock Other field crops Sheep and lambs Peanuts Dry beans Lettuce Cottonseed Wool and mohair Christmas trees Other fruits and nuts Apples Apples Apples Hogs and piggs Other poultry |

*Source: New Mexico Agricultural Statistics - 1996, p. 16.

"The Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, 112.6996 for 1994, 109.8859 for 1993, and 106.6920 for 1992.

"Source: New Mexico Agricultural Statistics - 1994, p. 16.

"Bold numbers indicate a higher nominal rank in 1996 than the 1993-95 nominal rank; italic numbers indicate a lower nominal rank in 1996 than the 1993-95 nominal rank. Prior to 1994 christmas trees were included in forest products. Forest products ranked 22 in 1992-93 with \$5,000,000 in cash receipts reported in each of these years.

Table. 3 Change in balance sheet of New Mexico's farm sector, 1995-96.^a

| | | redmil | | | Percent | |
|------------------------------------|---------------|-----------------------|----------|-----------------------|---------|----------------|
| | 1996 | | | 1995 | 1995-96 | |
| Farms | 13,500 | | | 13,500 | 0.00% | |
| | | | | | Per | Percent change |
| | | 1996 | | 1995 | 199 | 1995-1996 |
| | | Millions ^b | | Millions ^b | | Constant |
| | Millions | dollars | Millions | dollars | Nominal | dollars |
| | dollars | (1990=100) | dollars | (1990=100) | dollars | (1990=100) |
| Assets | | | | | | |
| Real estate | 11,387.1 | 9,543.7 | 10,540.6 | 9,095.1 | 8.03% | 4.93% |
| Livestock and poultry ^c | 842.5 | 706.1 | 843.2 | 727.6 | -0.08% | -2.95% |
| Machinery and motor | 427.9 | 358.6 | 431.8 | 372.6 | %06:0- | -3.75% |
| vehicles ^d | | | | | | |
| Crops [®] | 100.2 | 84.0 | 85.5 | 73.8 | 17.19% | 13.83% |
| Purchased inputs | 14.0 | 11.7 | 15.3 | 13.2 | -8.50% | -11.12% |
| Financial | 439.0 | 367.9 | 474.1 | 409.1 | -7.40% | -10.06% |
| Total farm assets | 13,210.7 | 11,072.1 | 12,390.5 | 10,691.3 | 6.62% | 3.56% |
| Farm debt | | | | | | |
| Real estate | 692.6 | 580.5 | 643.6 | 555.3 | 7.61% | 4.53% |
| Non-real estate ⁹ | 579.0 | 485.3 | 537.9 | 464.1 | 7.64% | 4.55% |
| Total farm debt | $1,271.6^{f}$ | 1,065.7 | 1,181.5 | 1,019.5 | 7.63% | 4.54% |
| Equity | 11,939.1 | 10,006.3 | 11,209.0 | 9,671.8 | 6.51% | 3.46% |
| Ratios | | | | | | |
| Debt/equity | 10.65 9.63 | | 10.54 | | | |
| Coccacion | 00:0 | | † 0.0 | | | |

^{*}Source: USDA, Economic Research Service: http://USDA.MANNLIB.CORNELL.EDU/CGI-USDA/AGENCY.CGI.ERS. Data are for farms with annual sales of \$1,000 or more and include operator households.

^bThe Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 119.3156 for 1996.

Excludes horses, mules, and broilers. dincludes only farm share value of trucks and autos.

^eAll non-Commodity Credit Corporation (CCC) crops held on farms plus the value above loan rate for crops held under CCC.

^{&#}x27;Due to rounding, parts will not sum to total. Excludes debt for nonfarm purposes.

Table 4. Cash receipts for the top 10 New Mexico counties and county rank for the top 10 commodities, 1996.

| | | | | Percent of | | | | | Conn | County rank for commodity in 1996 | commodity | v in 1996 | | |
|-----------|-------------------|------------------------|-----------|-------------|--------|------------------|--------------|-------|--------|-----------------------------------|--------------|-----------|----------|-------|
| | | | | total value | Cattle | | | | | | | | | |
| | Ra | Rank | Value | of N.M | and | Mik | | | O | Greenhouse Cottor | Cotton | | | |
| County | 1996 ^d | 1996 ^d 1995 | (1000) | production | | <u>wholesale</u> | Нау | Chile | Onions | nursery | lint | Corn | Potatoes | Wheat |
| Chaves | _ | _ | 286,611 | 16.82% | ო | | - | 4 | Š Z | ° A | က | 7 | ž | თ |
| Doña Ana | 7 | 7 | 236,351 | 13.87% | 7 | 2 | 4 | 2 | 2 | ₹ | _ | ₹ | ¥ | 9 |
| Curry | က | က | 152,696 | 8.96% | 2 | 4 | 10 | ¥ | ¥ | ₹ | _∞ | _ | 2.00 | _ |
| Roosevelt | 4 | 4 | 131,670 | 7.73% | œ | က | 7 | ¥ | ¥ | ₹ | 9 | က | 3.00 | 4 |
| Eddy | 2 | 2 | 102,964 | 6.04% | 4 | 2 ° | 7 | 2 | ₹ | ₹ | 4 | 4 | ¥ | 4 |
| Union | 9 | 9 | 83,152 | 4.88% | _ | ¥ | 12 | ¥ | ¥ | ₹ | ¥ | 7 | ¥ | 2 |
| Lea | 7 | 6 | 73,620 | 4.32% | 2 | 2 e | ∞ | 7 | ₹ | ₹ | ¥ | 4 | 1.00 | 7 |
| Luna | ∞ | œ | 69,843 | 4.10% | 16 | ¥ | 21 | _ | _ | ₹ | 2 | 15 | ¥ | 2 |
| San Juan | 6 | 7 | 61,955 | 3.64% | 17 | 1 | က | 7 | ₹ | ₹ | 7 | ₹ | ¥ | က |
| Socorro | 10 | 10 | 40,773 | 2.39% | 13 | 80 | 9 | ∞ | Ϋ́ | ₹ | ₹ | 80 | 豎 | ¥ |
| Total | | | 1,239,635 | 85.01 | | | | | | | | | | |
| | | | | | | | | | | | | | | |

^aSource: New Mexico Agricultural Statistics, 1997, p. 18.

^bNR indicates that county-level data is not kept that would allow the determination of the rank for the listed county.

^cN/A indicates that county-level data are not available.

^d Bold numbers indicate a higher nominal rank in 1996 than in 1995; italic numbers indicate a lower nominal rank in 1996 than in 1995.

^eEddy and Lea counties were both ranked 5th for milk.

tion of another commodity (i.e., feed for livestock), sales do not account for the product consumed on the farm. In other cases, marketing issues, such as grading and product damage, result in final cash receipts lower than the value of production estimated at the county level. The cash receipts value represents the final reporting of the actual monetary value received by the producer from the product's sale.

Cattle and Calves

Cattle and calves were the number one commodity in 1996, with cash receipts of \$628.2 million. Cash receipts from the top 10 counties in this sector comprised 74.01 % of New Mexico's total cash receipts from cattle and calves (table 5). For the top 10 counties, nominal cash receipts increased 22.21 % from 1995 to 1996. Constant-dollar cash receipts decreased 22.21 % from 1995. Eight of the top 10 counties had an increase in cash receipts valued in constant dollars. Grant County had the largest increase (53.13 %), while Eddy County had the smallest (6.13 %). In 1996, average sale price was \$45.90 per hundredweight (cwt.) for cattle and \$52.80 per cwt. for calves (N.M. Ag. Statistics, 1996, p. 34).

New Mexico cattle and calves totaled 1.52 million head as of January 1, 1996. This inventory represented a 1.33 % increase from 1995. The top 10 counties had a 3.41 % increase in the number of cattle and calves (table 5).

Milk

Wholesale milk ranked second with respect to cash receipts in 1996. County-level statistics include cash receipts from all milk sales; therefore, comparison of county cash receipts for milk uses the receipts for all milk. Total milk production was 3,753 million pounds in 1996, resulting in cash receipts totaling \$524.0 million⁶ for a 21.63 % increase from 1995. Cash receipts for the top 10 milk-producing counties constituted 98.73 % of New Mexico's total cash receipts from milk. Chaves County led the state in cash receipts from milk with 35.53 % of the state's total. Within the top 10 milkproducing counties, Doña Ana County experienced the greatest change in constant-dollar cash receipts with an increase of 26.79 %. from \$68.5 million in 1995 to \$86.6 million in 1996. Valencia County had the smallest increase (8.91 %) in constant-dollar cash receipts. Constant-dollar cash receipts for the top 10 counties in the aggregate increased 17.98 % in 1996. Average nominal price received for wholesale milk in 1996 was \$13.80 per cwt., up 17.95 % from 1995 (table 6).

The number of dairy cows in New Mexico was reported at 190,000 animals in 1996, an 11.76 % increase over 1995, and a record high for the state. Replacement heifers numbered 45,000 (N.M. Ag. Statistics, 1996, p. 33).

Hay

Hay cash receipts ranked third in 1996 cash receipts. Total production for all hay was 1,577,000 tons in 1996, with a value of production of \$193.0 million. Harvested acreage for 1996 was reported at 355,000 acres, 5,000 acres more than in 1995. Chaves County led in value of production from hay with 20.14 % of the state total. Hay production in the top 10 counties comprised 74.46 % of New Mexico's total. Statewide average yield per acre was reported at 4.44tons, with an average price of \$123.00 per ton. This represented an increase of 0.11 tons per acre and an increase of \$9.00 per ton in price. Two of the top 10 counties reported a decline in constant-dollar value of production. Quay County reported the largest change with an increase of 29.55 %, while Lea County had the largest decrease (16.79 %). The overall value of production for the top 10 counties increased 10.52 % in constant dollars (table 7).

Chile

Chile ranked fourth in cash receipts during 1996. Total chile production in 1996 was 109,720 processed tons: 78,400 tons of green⁷ and 31,320 tons of red⁸ (N.M. Ag. Statistics, 1996, p.70). The harvested acreage in the top 10 counties comprised 97.56 % of the state's total for chile. Luna County led in harvested acreage for chile with 32.75 % of the state's total. Harvested acreage decreased in one and increased in nine of the top 10 counties with an overall increase of 26.93 % from 1995 to 1996. Eddy and Socorro counties experienced the greatest change in harvested acreage with an increase of 100 % (table 8).

Harvested acreage in 1996 was 28,700, an increase of 28.13 % from 22,400 in 1995 (N.M. Ag. Statistics, 1996, p.70). This increase is the first increase since harvested acreage started to decline in 1993.

⁶The sum of the categories milk wholesale and milk retail from table 1.

⁷Green chile: long medium, long hot, bell pepper/pimento and jalapeño. Jalapeño includes both green and red varieties.

⁸Red chile: long medium, long hot, paprika, and cayenne.

Table 5. Cash receipts for cattle and calves and number on farms in the top 10 New Mexico counties, 1996.

| | | | Cash receipts | | | | Percent | | | | |
|--------------------------------------|-------------------|---|---------------|------|--------------------|------------|-----------|------|----------------|------|---------|
| 1996 | 1996 | | | | 1995 | | change in | | Animal numbers | ers | |
| Percent of | Percent of | | | | | | constant | 1996 | | 1995 | |
| total cash | total cash | | Value | | | Value | dollar | | Number | | Number |
| Value ^a Cattle and calves | Cattle and calves | | (\$1000) | | Value ^a | (\$1000) | value | | on | | on |
| Rank [®] (\$1000) receipts | receipts | | (1990 = 100) | Rank | (\$1000) | (1990=100) | 1995-1996 | Rank | farm | Rank | farm |
| 63,308 10.08% | 10.08% | | 53,059 | 1 | 67,178 | 57,965 | -8.46% | က | 107,000° | က | 111,000 |
| 62,983 10.03% | 10.03% | | 52,787 | 7 | 61,389 | 52,970 | -0.35% | 7 | 116,000 | 7 | 116,000 |
| 52,280 8.32% | 8.32% | | 43,817 | 4 | 38,287 | 33,036 | 32.63% | - | 133,000 | 4 | 70,000 |
| 39,656 6.31% | 6.31% | | 33,236 | က | 36,293 | 31,316 | 6.13% | 9 | 61,000 | 1 | 130,000 |
| 24,765 3.94% | 3.94% | | 20,756 | 7 | 15,984 | 13,792 | 50.49% | 80 | 29,000 | 9 | 64,000 |
| 24,396 3.88% | 3.88% | | 20,447 | 2 | 15,745 | 13,586 | 20.50% | 2 | 000'99 | 2 | 65,000 |
| 23,287 3.71% | 3.71% | | 19,517 | 11 | 14,771 | 12,745 | 53.13% | 9 | 61,000 | 20 | 28,000 |
| 22,917 3.65% | 3.65% | | 19,207 | 6 | 14,552 | 12,556 | 52.97% | œ | 59,000 | 80 | 57,000 |
| 22,547 3.59% | 3.59% | | 18,897 | 6 | 14,314 | 12,351 | 23.00% | 4 | 67,000 | 7 | 58,000 |
| 21,439 3.41% | 3.41% | | 17,968 | 9 | 14,075 | 12,145 | 47.95% | 7 | 000'09 | 9 | 64,000 |
| 357,578 74.01 | 74.01 | | 299,691 | | 292,588 | 252,463 | 18.71 | | 789,000 | | 763,000 |
| | | ı | | | | | | | | | |

^aSource: New Mexico Agricultural Statistics, 1997, p. 20.

^bThe Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995 and 119.3156 for 1996.

°Source: New Mexico Agricultural Statistics, 1996, p. 35.

Source: New Mexico Agricultural Statistics, 1996, p. 37.

Bold numbers indicate a higher nominal rank in 1996 than in 1995; italic numbers indicate a lower nominal rank in 1996 than in 1995.

Due to rounding, some cloumns may not sum to the total.

Table 6. Cash receipts for milk in the top 10 New Mexico counties, 1996.

| | | | 1996 | | | 1995 | | Percent change in |
|------------|----------|----------------------|---------------|----------------------|------|----------------------|------------|----------------------|
| | | | | | | | | constant |
| | | | Percent of | Value | | | Value | dollar |
| | | Value⁵ | total milk | (\$1000) | | Value ^b | (\$1000) | value |
| County | Rank | (\$1000) | cash receipts | (1990 = 100) | Rank | (\$1000) | (1900=100) | 1995-1996 |
| Chaves | ~ | 185,937 | 35.53% | 155,836 | _ | 156,450 | 134,995 | 15.44% |
| Doña Ana | 2 | 103,593 | 19.80% | 86,823 | 2 | 79,358 | 68,475 | 26.79% |
| Roosevelt | က | 71,718 | 13.71% | 60,108 | က | 56,685 | 48,911 | 22.89% |
| Curry | 4 | 42,500 | 8.12% | 35,620 | 4 | 36,278 | 31,303 | 13.79% |
| Eddy | 2 | 29,219 | 5.58% | 24,489 | 2 | 24,941 | 21,521 | 13.79% |
| Lea | 9 | 29,219 | 2.58% | 24,489 | 9 | 24,941 | 21,521 | 13.79% |
| Valencia | 7 | 17,797 | 3.40% | 14,916 | 7 | 15,872 | 13,695 | 8.91% |
| Bernalillo | 80 | 15,937 | 3.05% | 13,357 | ∞ | 13,604 | 11,738 | 13.79% |
| Socorro | 6 | 13,281 | 2.54% | 11,131 | O | 11,337 | 9,782 | 13.79% |
| Sierra | 10 | 7,437 | 1.42% | 6,233 | 10 | 5,895 | 5,087 | 22.54% |
| | | | | | | | | |
| Total | | 516,638 ^d | 98.73% | 433,001 ^d | | 425,361 ^d | 367,027 | 17.98 |

^aCounty-level wholesale milk receipts are not reported; therefore receipts for all milk are used for the county ranking. ^bSource: New Mexico Agricultural Statistics, 1996, p. 20. ^cThe Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 119.3156 for 1996.

drotal milk production in New Mexico was 3,623 million pounds in 1995, and 3,753 million pounds in 1996. The wholesale price of milk was \$11.70 per 100 pounds in 1996. Source: New Mexico Agricultural Statistics, 1997, p. 37. ⁴Due to rounding, some columns may not sum to the total.

Table 7. Value of production and production of hay in the top 10 New Mexico counties, 1996.

| | | | 1996 | | | | | 1995 | | | Percent change in |
|-----------|------|------------|----------|--------------------------------|--------------------------------|------|------------|----------|--------------------|------------------------------------|-----------------------------|
| | | Production | Value | Percent of total value of N.M. | Value [°] (\$1000) | | Production | Value | Value° (\$1000) | Percent change in production | constant dollar value |
| County | Rank | tons | (\$1000) | production | (1990 = 100) | Rank | tons | (\$1000) | (1990 = 100) | 1995-1996 | 1995-1996 |
| Chaves | _ | 317,600 | 39,065 | 20.14% | 32,741 | _ | 290,280 | 33,092 | 28,554 | 9.41% | 14.66% |
| Eddy | 7 | 214,150 | 26,340 | 13.58% | 22,076 | 7 | 199,500 | 22,743 | 19,624 | 7.34% | 12.50% |
| San Juan | က | 131,400 | 16,162 | 8.33% | 13,546 | က | 138,410 | 15,779 | 13,615 | -2.06% | -0.51% |
| Doña Ana | 4 | 112,600 | 13,850 | 7.14% | 11,608 | 4 | 110,500 | 12,597 | 10,869 | 1.90% | %62'9 |
| Quay | 2 | 97,260 | 11,963 | 6.17% | 10,026 | 9 | 78,680 | 8,970 | 7,739 | 23.61% | 29.55% |
| Socorro | 9 | 83,080 | 10,219 | 5.27% | 8,565 | ວີ | 80,980 | 9,232 | 2,966 | 2.59% | 7.52% |
| Roosevelt | 7 | 71,530 | 8,798 | 4.54% | 7,374 | ∞ | 60,390 | 6,884 | 5,940 | 18.45% | 24.13% |
| Lea | 8 | 55,330 | 908'9 | 3.51% | 5,704 | 7 | 069'69 | 7,945 | 6,855 | -20.61% | -16.79% |
| Valencia | 6 | 48,060 | 5,911 | 3.05% | 4,954 | 6 | 45,380 | 5,173 | 4,464 | 5.91% | 10.99% |
| Curry | 10 | 43,160 | 5,309 | 2.74% | 4,449 | 12 | 39,640 | 4,519 | 3,899 | 8.88% | 14.11% |
| Total | | 1,174,1709 | 144,423 | 74.46% | 121,043 | | 1,113,450 | 126,933 | 109,526 | 5.45% | 10.52% |

⁸Source: New Mexico Agricultural Statistics, 1996, p. 51.

^bValue = production x price per ton. Price per ton = \$123.00 in 1996, and \$114.00 in 1995. Source: New Mexico Agricultural Statistics, 1996, p. 51.

^cThe Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 112.6996 for 1994.

^dSource: New Mexico Agricultural Statistics, 1996, p. 51.

Bold numbers indicate a higher nominal rank in 1996 than in 1995; italic numbers indicate a lower nominal rank in 1996 than in 1995.

Due to rounding, some columns may not sum to the total.

⁹The 1995 production for all hay was 1,515,000 tons with a value of production of \$171,275,000. The 1996 production was 1,577,000 tons with a value of production of \$193,002,000. The harvested acreage was 350,000 in 1995 with an average yield per acre of 4.33 tons. In 1996, the harvested acreage was 355,000 with an average yield per acre of 4.44. Source: New Mexico Agricultural Statistics, 1996, p. 51.

Table 8. Chile acreage in the top 10 New Mexico counties, 1996.

| | | | | ı | | | | | | | | | | | | |
|---------|------------|-----------|--------------------------|-----------|--------------|----------|---------|--------|---------|--------|--------|---------|-----------|----------|------------|--------|
| Percent | change in | harvested | acreage | 1995-1996 | 14.63% | 15.00% | 40.91% | 57.14% | 100.00% | 20.00% | %60'6- | 100.00% | 38.89% | %00.09 | %00.09 | 26.93% |
| | Percent of | N. M. | harvested | acreage | 36.61% | 26.79% | 9.82% | 6.25% | 4.46% | 4.46% | 4.91% | 1.34% | 1.61% | 1.12% | 1.12% | 98.48% |
| 1995 | | | Harvested ^b | acreage | 8,200 | 000'9 | 2,200 | 1,400 | 1,000 | 1,000 | 1,100 | 300 | 360.00 | 250 | 250 | 22,060 |
| | | | | Rank | | 2 | က | 4 | 9 | 7 | 2 | o | ∞ | 10 | 10 | |
| | Percent of | Ä. | harvested | acreage | 32.75% | 24.04% | 10.80% | 7.67% | %26.9 | 5.23% | 3.48% | 2.09% | 1.74% | 1.39% | 1.39% | 97.56% |
| 1996 | | | $Harvested^{\mathtt{a}}$ | acreage | 9,400 | 006'9 | 3,100 | 2,200 | 2,000 | 1,500 | 1,000 | 009 | 200 | 400 | 400 | 28,000 |
| | | | | Rank | - | 2 | က | 4 | 5 | 9 | _ | ∞ | 6 | 10 | 10 | |
| | | | | County | Luna | Doña Ana | Hidalgo | Chaves | Eddy | Sierra | Lea | Socorro | All Other | Sandoval | Bernalillo | TOTAL |

^aSource: New Mexico Agricultural Statistics, 1996, p. 70.

^aSource: New Mexico Agricultural Statistics, 1996, p. 70. ^cBold numbers indicate a higher nominal rank in 1996 than in 1995; italic numbers indicate a lower nominal rank in 1996 than in 1995. ^dDue to rounding, some columns may not sum to the total.

Onions

In 1996, onions ranked fifth with respect to cash receipts. Total onion production was 3.3 million cwt.⁹ in 1996. Cash receipts for onions were \$44.7 million. Production decreased 20.24 % from 1995. In constant value dollars, cash receipts decreased 17.73 %. Luna and Doña Ana counties accounted for 90.3 % of New Mexico's total value of production for onions. Doña Ana County experienced the largest change in constant-dollar cash receipts with a decrease of 23.01 % (table 9).

Acreage planted in onions decreased from 9,100 in 1995 to 7,200 in 1996. Acreage harvested decreased from 9,100 in 1995 to 7,100 in 1996. The nominal price per cwt. increased from \$12.90 in 1995 to \$13.70 in 1996.

Greenhouse Nursery

At \$39 million, greenhouse nursery cash receipts ranked sixth in 1996. In nominal dollars, this represents an increase of 0.76 %. In constant dollars, the cash receipts for greenhouse nursery decreased 2.13 % (table 1). Records of county-level cash receipts for greenhouse nursery products are not available from the New Mexico Crop and Livestock Reporting Service. Cash receipts include sales of plants grown and finished entirely in New Mexico, sales of plants imported into New Mexico, and sales of plants imported into New Mexico as finished products.

Cotton Lint

Cotton lint ranked seventh with respect to cash receipts in 1996. In constant-dollar value, cash receipts for cotton lint decreased 15.72 % from 1995. Cotton production in New Mexico is concentrated in the state's southern and southeastern areas. Cotton production in New Mexico is divided between Upland and American-Pima. Upland cotton accounted for 77.65 % of the 1996 total value of production for cotton. Acreage planted to Upland was 59,000 in 1996 and 61,000 in 1995. Acreage harvested was 55,000 in 1996 and 56,000 in 1995. The price per pound for Upland was \$0.743 (\$356.64 per 480-pound bale) in 1996, a decrease of \$0.074 per pound from 1995. American-Pima planted acreage was 14,000, up from 15,000 in 1995. Acreage harvesteddecreased from 15,000 to 14,000. The 1996 price-per-pound for American-Pima was \$1.09 (\$523.20) per 480-pound bale), a decrease of \$0.09 from 1995 (table 10).

In constant-dollar value, Roosevelt County had the largest (45.42 %) increase in Upland value of production, and Hidalgo County had the largest decrease (37.06 %). The value of production in constant dollars for Upland decreased of 10.48 %. Doña Ana County accounted for 92.89 % of New Mexico's value of production for American-Pima. Doña Ana's production decreased 26.93 %, and the constant-dollar value of production for New Mexico decreased 22.17 %.

Corn

Corn ranked eighth in cash receipts in 1996 with \$38.67 million. Cash receipts for corn harvested for grain in the top 10 counties accounted for 98.07 % of New Mexico's total. For the top 10 counties, production increased 26.03 % from 1995 to 1996, and constant-dollar cash receipts increased 36.17 %. Only Santa Fe County experienced a decrease in production. Luna County had the largest increase (2,042.86%) in production from 14,000 bushels in 1995 to 300,000 bushels in 1996 (table 11).

The price per bushel of corn increased 8.47 % from \$2.95 in 1995 to \$3.20 in 1996. Corn acreage planted to all purposes increased from 123,000 in 1995 to 130,000 in 1996. Acreage harvested for grain was 84,000, up from 73,000 in 1995. (N.M. Ag. Statistics, 1995, p. 55).

Potatoes

Potatoes ranked ninth in cash receipts in 1996, generating \$19.90 million in cash receipts. Total production was 3,964 cwt.. Three counties (San Juan, Curry, and Roosevelt) produced 99.22 % of New Mexico's total production of potatoes. Total production for the stateincreased 6.02 %, but the constant-dollar value of production decreased 23.50 % (table 12). Given the increase in production, the decrease in the value of production was due to the \$1.80 per cwt. Decrease in market price.

Acreage planted to potatoes increased from 10,500 in 1995 to 10,600 in 1996. The acreage harvested decreased from 10,500 to 10,300.

Wheat

Wheat ranked 10th in cash receipts in 1996 and generated \$18.20 million in cash receipts. Value of production of wheat harvested for grain in the top 10 counties accounted for 83.63 % of total New Mexico

⁹ Production figures are in cwt., the reporting unit used by USDA. The industry reporting unit is the 50-pound sack.

Table 9. Value of production and production of onions in New Mexico, 1996.

| | | | 1996 | | | | 15 | 1995 | | | change in |
|----------------|--------------------------------|-------------------------|----------|-------------|--------------|------|-------------|----------|--------------|------------|-----------|
| • | | | | Percent of | | | | | | Percent | constant |
| | | Production ^a | | Total Value | Value | | Production | | | change in | dollar |
| | | CWT | Value | of N.M | (\$1000) | | CWT | Value | | production | value |
| County | $Rank^{\scriptscriptstyle{e}}$ | (1000) | (\$1000) | production | (1990 = 100) | Rank | (1000) | (\$1000) | (1990 = 100) | 1995-1996 | 1995-1996 |
| | | | | | | | | | | | |
| Luna | _ | 1,610 | 22,057 | 49.30% | 18,486 | 7 | 1,729 | 22,304 | 19,245 | -6.88 | -3.94 |
| Doña Ana | 7 | 1,339 | 18,344 | 41.00% | 15,375 | _ | 1,794 | 23,143 | 19,969 | -25.36 | -23.01 |
| Sierra | က | 151 | 2,069 | 4.62% | 1,734 | က | 182 | 2,348 | 2,026 | -17.03 | -14.41 |
| Other Counties | 4 | 166 | 2,274 | 2.08% | 1,906 | 4 | 390 | 5,031 | 4,341 | -57.44 | -56.09 |
| | | | | | | | | | | | |
| Total | | 3,2669 | 44,744 | 100% | 37,501 | | $4,095^{9}$ | 52,826 | 45,581 | -20.24 | -17.73 |

⁸Source: New Mexico Agricultural Statistics, 1996, p. 68.

^bValue = production x price per CWT. Price per CWT = \$13.70 in 1996 and \$12.90 in 1995. Source: New Mexico Agricultural Statistics, 1996, p. 68.

^cThe Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 112.6996 for 1994.

⁴Source: New Mexico Agricultural Statistics, 1996, p. 67.

*Bold numbers indicate a higher nominal rank in 1996 than in 1995; italic numbers indicate a lower nominal rank in 1996 than in 1995.

May not sum due to rounding.

In 1995, 9,100 acres of onions were planted and 9,100 were harvested, with an average yield of 450 cwt per acre.

In 1996, 7,200 acres of onions were planted and 7,100 were harvested, with an average yield of 460 cwt per acre Source: New Mexico Agricultural Statistics, 1996, p. 68.

Table 10. Value of production and production of cotton in New Mexico, 1995.

| | | | | 1996 | | | | | 1995 | | | Percent change in |
|-------------------------------|--------------------|-------------------|--|--------------------------------|--------------------------------|------------------------------|--------------|--|--------------------------------|--|--|--|
| - | County | Rank [®] | Production ^a 480 lb net bales | Value ^b (\$1000) | Percent of total value of N.M. | Value° (\$1000) (1990 = 100) | Rank | Production ^d 480 lb net bales | Value ^b (\$1000) | Value ^c (\$1000) (1990 = 100) | Percent change in production 1995-1996 | constant dollar value 1995-1996 |
| Upland | | | | | | | | | | | | |
| DC | Doña Ana | _ | 17,300 | 6,170 | 20.60% | 5,171 | _ | 13,800 | 5,412 | 4,536 | 25.36 | -4.45 |
| Ec | Eddy | 7 | 16,000 | 5,706 | 19.05% | 4,782 | 4 | 11,700 | 4,588 | 3,845 | 36.75 | 4.23 |
| ਹੋ | Chaves | က | 13,000 | 4,636 | 15.48% | 3,886 | က | 12,500 | 4,902 | 4,108 | 4.00 | -20.73 |
| Lea | а | 4 | 12,400 | 4,422 | 14.76% | 3,706 | 7 | 12,700 | 4,980 | 4,174 | -2.36 | -25.58 |
| 3 | Luna | 2 | 8,000 | 2,853 | 9.52% | 2,391 | 2 | 7,900 | 3,098 | 2,597 | 1.27 | -22.82 |
| R | Roosevelt | 9 | 7,250 | 2,586 | 8.63% | 2,167 | 9 | 3,800 | 1,490 | 1,249 | 90.79 | 45.42 |
| ರ | Curry | 7 | 4,050 | 1,444 | 4.82% | 1,211 | 7 | 3,500 | 1,373 | 1,150 | 15.71 | -11.80 |
| Ť | Hidalgo | _∞ | 2,890 | 1,031 | 3.44% | 864 | _∞ | 3,500 | 1,373 | 1,150 | -17.43 | -37.06 |
| ğ | Quay | တ | 1,600 | 571 | 1.90% | 478 | တ | 1,600 | 627 | 526 | 00.0 | -23.78 |
| ŏ | Otero | 10 | 006 | 321 | 1.07% | 269 | ı | | | | | |
| º | Total | | 83,390 | 29,740 | 99.27% | 24,926 | | 71,000 | 27,843 | 23,336 | 17.45 | -10.48 |
| Pima | | | | | | | | | | | | |
| ŏ | Doña Ana | _ | 17,650 | 9,234 | 92.89% | 7,740 | _ | 18,700 | 10,592 | 8,877 | -5.61 | -26.93 |
| Ec | Eddy | 7 | 390 | 204 | 2.05% | 171 | က | | | | | |
| ŏ | Otero | က | 320 | 167 | 1.68% | 140 | 4 | | | | | |
| All | All Other | ₹ | 640 | 335 | 3.37% | 281 | 7 | 200 | 113 | 92 | 220.00 | 147.74 |
| To | Total ⁹ | | 19,000 | 9,941 | 100.00% | 8,332 | | 18,900 | 10,705 | 8,972 | 0.53 | -22.17 |
| Total all cotton ⁹ | ton ⁹ | | 102,390 | 39,681 | | 33,257 | | 89,900 ⁱ | 38,548 | 32,308 | 13.89 | -13.73 |

'Source: New Mexico Agricultural Statistics, 1996, p. 57 for Upland cotton and p. 59 for Pima cotton.

Source: New Mexico Agricultural Statistics, 1996, pp. 57-59.

bValue = production x price per pound. Price per pound = \$0.743 in 1996 and \$0.817 in 1995 for Upland cotton. Source: New Mexico Agricultural Statistics, 1997, p. 57. Price per pound = \$1.09 in 1996 and \$1.18 in 1995 for Pima cotton. Source: New Mexico Agricultural Statistics, 1997, p. 59.

The Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 119.3156 for 1996.

dSource: New Mexico Agricultural Statistics, 1997, p. 57 for Upland cotton and p. 59 for Pima cotton. Bold numbers indicate a higher nominal rank in 1996 than in 1995; italic numbers indicate a lower nominal rank in 1996 than in 1995.

Upland cotton: Includes Grant, and Sierra counties.

⁹Due to rounding, some columns may not sum to the total.

In 1996, Pima Cotton: Includes Chaves, Hidalgo, Lea, and Sierra counties. In 1995, Pima cotton: Includes Eddy, Hidalgo, Sierra, and Luna counties

In 1995, 61,000 acres of Upland cotton were planted and 56,000 acres were harvested, with an average yield of 609 lb. per acre.

In 1996, 59,000 acres of Upland cotton were planted and 55,000 acres were harvested, with an average yield of 733 lb. per acre. In 1995, 15,000 acres of Pima cotton were planted and 15,000 acres were harvested, with an average yield of 605 lb per acre.

In 1996, 14,000 acres of Pima cotton were planted and 14,000 acres were harvested, with an average yield of 651 lb. per acre.

Table 11. Value of production and production of corn harvested for grain in the 10 New Mexico counties, 1996.

| | | | 1996 | | | | | 1995 | | | Percent change |
|-------------------|------|-------------------------|------------|-------------------------------|---------------------------------|------|------------|------------|---------------------|-------------------|----------------------|
| | | Production ^a | Value | Percent of total value of N M | Value [°] (dollars) | | Production | Value | Value° (dollars) | Percent change in | in value constant |
| County | Rank | pushels | (dollars) | production | (1990 = 100) | Rank | Bushels | (dollars) | (1990 = 100) | 1995-1996 | 1995-1996 |
| rry | ~ | 5,106,000 | 16,339,200 | 34.73% | 13,694,103 | ~ | 4,324,800 | 12,758,160 | 11,008,517 | 18.06 | 24.40 |
| Jnion | 7 | 4,504,600 | 14,414,720 | 30.64% | 12,081,171 | 7 | 3,587,800 | 10,584,010 | 9,132,528 | 25.55 | 32.29 |
| Soosevelt | က | 2,347,200 | 7,511,040 | 15.97% | 6,295,104 | က | 1,780,800 | 5,253,360 | 4,532,919 | 31.81 | 38.88 |
| San Juan | 4 | 1,148,000 | 3,673,600 | 7.81% | 3,078,894 | 4 | 854,000 | 2,519,300 | 2,173,805 | 34.43 | 41.64 |
| Torrance | 2 | 458,800 | 1,468,160 | 3.12% | 1,230,485 | 9 | 312,400 | 921,580 | 795,195 | 46.86 | 54.74 |
| Luna | 9 | 300,000 | 000'096 | 2.04% | 804,589 | 15 | 14,000 | 41,300 | 35,636 | 2042.86 | 2157.79 |
| Santa Fe | _ | 244,800 | 783,360 | 1.67% | 656,545 | 2 | 317,100 | 935,445 | 807,159 | -22.80 | -18.66 |
| Hidalgo | 80 | 176,000 | 563,200 | 1.20% | 472,025 | 7 | 192,000 | 566,400 | 488,724 | -8.33 | -3.42 |
| Shaves | 6 | 105,000 | 336,000 | 0.71% | 281,606 | 7 | 30,000 | 88,500 | 76,363 | 250.00 | 268.77 |
| Socorro | 10 | 100,000 | 320,000 | 0.68% | 268,196 | ∞ | 84,600 | 249,570 | 215,344 | 18.20 | 24.54 |
| otal ^f | | 14,490,400 | 46,369,280 | 98.57% | 40,010,238 | | 11,497,500 | 33,917,625 | 29,266,192 | 26.03 | 36.71 |

*Source: New Mexico Agricultural Statistics, 1996, p. 56.

*Value = production x price per bu. Price per bu. = \$2.95 in 1995 and \$3.20 in 1996; source New Mexico Agricultural Statistics, 1996, p. 55.

*Value = production x price per bu. Price per bu. = \$2.95 in 1995 and \$3.20 in 1996; source New Mexico Agricultural Statistics, 1996, p. 55.

*Source: New Mexico Agricultural Statistics, 1996, p. 55.

*Bold numbers indicate a higher nominal dollar rank in 1996 than in 1995; italic number s indicate a lower nominal dollar rank in 1996 than in 1995.

*Due to rounding, some columns may not sum to the total.

Table 12. Value of production and production of Irish potatoes in New Mexico, 1996.

| | | | 1996 | | | | | 1995 | | | Percent change |
|----------------|------|-------------------------|----------|-------------|--------------|------|-------------------------|----------|--------------|------------|-------------------|
| | | | | Percent of | | | | | | Percent | in value |
| | | Production ^a | | total value | Value | | Production ^a | | Value | change in | constant |
| | | Cwt. | Value | of N.M. | (\$1000) | | Cwt. | Value | (\$1000) | production | dollars |
| County | Rank | (1000) | (\$1000) | production | (1990 = 100) | Rank | (1000) | (\$1000) | (1990 = 100) | 1994-1995 | 1994-1995 |
| | | | | | | | | | | | |
| San Juan | _ | 2,614 | 13,593 | 65.94 | 11,392 | _ | 2,394 | 16,758 | 14,460 | 9.19 | -21.21 |
| Curry | 2 | 905 | 4,706 | 22.83 | 3,944 | 7 | 752 | 5,264 | 4,542 | 20.35 | -13.16 |
| Roosevelt | က | 414 | 2,153 | 10.44 | 1,804 | က | 533 | 3,731 | 3,219 | -22.33 | -43.95 |
| Other Counties | 4 | 31 | 161 | 0.78 | 135 | 4 | 09 | 420 | 362 | -48.33 | -62.72 |
| Total | | 3.964 | 20.613 | 100.00 | 17,276 | | 3.739 | 26.173 | 22.584 | 6.02 | -23.50 |

*Source: New Mexico Agricultural Statistics, 1996, p. 60.

Value = Production x Price per cwt. Price per cwt. = \$7.00 in 1995 and \$6.05 in 1994; Source: New Mexico Agricultural Statistics, 1996, p. 60.

The Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 119.3156 for 1996.

San Juan County fall potatoes; remaining counties summer potatoes.

cash receipts from wheat. Nominal value of production for the top 10 counties increased 22.25 % from 1995 to 1996, and constant-dollar value of production increased 18.74 %. Two of the 10 counties (San Juan and Quay) experienced decreases in constant-dollar value of production. Within the top 10 wheat-producing counties, Chaves had the greatest change in constant-dollar value of production, with an increase of 2,834.31 % (table 13).

The price per bushel of wheat increased from \$4.50 in 1995 to \$5.20 in 1996, an increase of 15.56 %. Acreage planted to wheat planted for all purposes was 470,000 acres, up 10,000 acres (2.17 %) from 1995. Acreage harvested for grain was 110,000 acres, down 40,000 (26.67 %) from 1995 (N.M. Ag. Statistics, 1996 and 1997, p. 50).

ANALYSIS

Rank Order

The rank order of four of the top 10 commodities (cattle and calves, milk-wholesale, hay, and onions) remained unchanged from 1995 to 1996. Of the remaining six commodities in the top 10, all (chile, greenhouse nursery, cotton lint, corn, potatoes, and wheat) moved up in rank. Nine of the top 10 also were in the top 10 in 1995. The top 10 commodities accounted for 91.14% of New Mexico's total cash receipts generated by agriculture. Cattle and calves ranked first and accounted for 36.76% of all agricultural cash receipts up, from 33.13% in 1995. Milk - wholesale ranked second and accounted for 29.80% of cash receipts, up from 28.61% in 1995 (table 1).

Of New Mexico's top 10 commodities in 1996, four (cattle and calves, milk wholesale, onions, and potatoes) ranked in the upper half of the states reporting for the respective commodi-ties (table 14). Although New Mexico ranked only seventh out of 16 in total national onion production, New Mexico is the largest U.S. producer of summer, non-storage onions (USDA, Ag. Stat. 1998, p. IV-19). New Mexico's chile production ranks high at the national level, but national production statistics for chile are not reported separately from all peppers.

Changes 1995 to 1996

New Mexico experienced a 13.84 % increase in agricultural cash receipts from 1995 to 1996 in constant

dollars. Of the 29 commodities reported, 14 had an increase in constant-dollar cash receipts. The increases ranged from 66.23 % (apples) to 2.37 % (other field crops). The decreases in constant-dollar cash receipts ranged from 71.66 % (pecans) to 0.44 % (milk-retail). Cash receipts were used to determine the top 10 commodities; however, where the data were not available, value of production figures were used to estimate the county-level production of the commodity.

Components of Change in Value of Production

Analysis of the change in the value of production (VOP) requires that the change be separated into components (appendix B). From an economic point of view, the change in VOP (Δ VOP) has three components. The first component, a quantity effect (Δ Q * P), results from the change in quantity (Δ Q) multiplied by the original price (P). The second component, aprice effect (Δ P * Q), results from the change in price (Δ P) multiplied by the original quantity (Q). The third component, an interaction effect (Δ Q * Δ P), results from the change in quantity (Δ Q) multiplied by the change in price (Δ P). Since changes in price or quantity may partially offset or cancel one another, identifying the component parts of the change in VOP is necessary to determine the relative impacts of price and quantity.

Nominal Dollar Comparisons

The relative impacts of price and quantity changes in nominal dollars are shown in table 15. For five of the eight commodities 10 analyzed, ΔVOP in nominal dollars is positive. For four of the eight commodities, the change in VOP produced by the price effect was greater in absolute terms than the change resulting from the quantity effect. During the 1995-96 period, the price effect and the quantity effect were the dominant effects for an equal number of commodities.

The relative changes and signs for ΔVOP and its components in nominal dollars are shown in figure 1. In nominal terms, the quantity effect was positive for seven of the eight commodities; only onions had a negative quantity effect. The price effect was positive for five (milk-wholesale, hay, onions, corn, and wheat) of the eight commodities. The interaction effect was negative for four of the eight commodities (onions, Upland cotton, Pima cotton, and potatoes). In the four

¹⁰Available price and quantity data did not permit this analysis for cattle and calves, chile, and greenhouse nursery. For this analysis, cotton was divided into Upland and Pima. This results in eight commodities for analysis.

Table 13. Value of production and production of wheat in the top 10 New Mexico counties, 1996.

| | | | | | | | | | | | Percent |
|-----------|--------------|-------------------------|----------|-------------|--------------|--------------|------------|----------|--------------|------------|-----------|
| | | | 1996 | | | | | 1995 | | | change in |
| | | | | Percent of | | | | | | Percent | constant |
| | | Production ^a | | total value | Value⁵ | | Production | | Value | change in | dollar |
| | | Bushels | Value | of N.M. | (\$1000) | | pushels | Value | (\$1000) | production | value |
| County | Rank | (1000) | (\$1000) | production | (1990 = 100) | Rank | (1000) | (\$1000) | (1990 = 100) | 1995-1996 | 1995-1996 |
| | | | | | | | | | | | |
| Curry | - | 1888.00 | 9,818 | 46.39% | 8,228 | - | 1,188.60 | 5,349 | 4,615 | 58.84 | 78.29 |
| Union | 8 | 562.00 | 2,922 | 13.81% | 2,449 | က | 563.10 | 2,534 | 2,186 | -0.20 | 12.02 |
| San Juan | ო | 553.00 | 2,876 | 13.59% | 2,410 | 7 | 738.00 | 3,321 | 2,866 | -25.07 | -15.90 |
| Roosevelt | 4 | 400.80 | 2,084 | 9.85% | 1,747 | 2° | 135.60 | 610 | 527 | 195.58 | 231.76 |
| Luna | 2 | 211.20 | 1,098 | 5.19% | 920 | 4 | 231.80 | 1,043 | 006 | -8.89 | 2.27 |
| Doña Ana | 9 | 126.00 | 655 | 3.10% | 549 | 9 | 130.00 | 585 | 202 | -3.08 | 8.79 |
| Lea | 7 | 96.00 | 499 | 2.36% | 418 | ∞ | 78.40 | 353 | 304 | 22.45 | 37.44 |
| Quay | 80 | 55.50 | 289 | 1.36% | 242 | 7 | 126.00 | 292 | 489 | -55.95 | -50.56 |
| Chaves | 6 | 54.90 | 285 | 1.35% | 239 | 15 | 2.10 | 6 | 80 | 2514.29 | 2834.31 |
| Santa Fe | 10 | 42.00 | 218 | 1.03% | 183 | 6 | 24.00 | 108 | 63 | 75.00 | 96.42 |
| Total | | 3,404 | 17,700 | 83.63% | 14,834 | | 2,625.30 | 14,479 | 12,494 | 29.65 | 18.74 |

Source: New Mexico Agricultural Statistics, 1996, p. 49.

^bValue = production x price per bushel. Price per bushel = \$4.50 in 1995, and \$5.20 in 1996. Source New Mexico Agricultural Statistics, 1996, p. 49.

°The Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 119.3156 for 1996. Source: New Mexico Agricultural Statistics, 1996, p. 50.

Bold numbers indicate a higher nominal dollar rank in 1996 than in 1995, italic numbers indicate a lower nominal dollar rank in 1996 than in 1995.

'May not sum due to rounding.

Table 14. Production of the top 10 New Mexico agricultural commodities by cash receipts in relation to total U.S. production, 1996.

| to rank in production | 1,995.00 | 24/50 | 12/50 | 30/48 | | 7/16 | 1 1 1 | | 16/17 | 31/41 | 13/44 | 35/42 |
|---|------------|-------------------|------------------------------|-------------|--------|------------|------------------|---------|-------------|-----------------|-------------|---------------|
| New Mexico rank in total U.S. production | 1,996.00 | $25/50^\circ$ | 12/50 | 32/48 | | 7/16 | 1 1 1 | | 16/17 | 32/41 | 14/33 | 36/42 |
| New Mexico production as percent of | U.S. total | 1.47 | 2.43 | 1.06 | | 5.32 | ! | | 0.54 | 0.16 | 0.08 | 0.18 |
| : | Units | Head | Pounds | Tons | ! | CWT | 1 1 1 1 | | Bales | Bushels | CWT | Bushels |
| Total U.S.b | production | 103,487,200 | 154,331,000,000 ^d | 149,457,000 | √Z | 61,369,000 | ∀ /Z | | 17,899,800 | 9,293,435,000.0 | 498,633,000 | 2,285,133,000 |
| Percent of N.M. Ag. cash | receipts | 36.76% | 29.80% | 9.05% | 3.83% | 2.62% | 2.30% | | 2.28% | 2.26% | 1.16% | 1.06% |
| Dollars | (1000) | 628,219 | 509,358 | 154,745 | 65,460 | 44,744 | 39,358 | | 38,929 | 38,673 | 19,903 | 18,195 |
| : | Commodity | Cattle and calves | Milk wholesale | Нау | Chile | Onions | S Greenhouse | nursery | Cotton lint | Corn | Potatoes | Wheat |
| | Rank | ~ | 2 | 3 | 4 | 2 | 9 | | 7 | 80 | 6 | 10 |

^aSource: New Mexico Agricultural Statistics - 1996, p. 16.

Source: Agricultural Statistics, USDA 1998, www.usda.gov/nass/pubs/agstats.htm.

91.14%

1. Table 7-3. All cattle and calves: Number and value, by States, Jan. 1, 1996-97, VII-2, 97_ch7.PDF, p. 2. 2. Table 8-13. Milk and milk fat production: Number of milk cows, production per cow, and total quantity produced, by States, 1996

(preliminary), VIII-8, 98_ch8.PDF, p.8.

3. Table 6-5. Hay, all: Area, yield, and production, by States, 1995-97, VI-4, 98_ch6.PDF, p. 4.

4. N/A. USDA does not report chile production as a separate commodity

5. Table 4-40. Onions, commercial crop: Area, production, shrinkage and loss, and value per hundredweight, by States, 1995-97, IV-19, 98_ch4.PDF, p. 19.

6. N/A. USDA does not report greenhouse nursery as a separate category.

7. Table 2-3. Cotton: Production, Marketing Year average price per pound, and value, by states, 1995-97, II-2, 98_ch2.PDF, p. 2.

8. Table 1-40. Corn: Area, yield, and production, by states, 1995-97, I-26, 98_ch1.PDF, p. 26. 9. Table 4-46. Potatoes: Area, production, and marketing year price per hundredweight received by farmers, by states, 1995-97 - Continues, IV-22, 98_ch4.PDF, p. 22.

10. Table 1-7. Wheat: Area, yield, and production, by states, 1995-97, I-5, 98_ch1.PDF, p. 5.

 $^{\circ}$ Numbers indicates New Mexico's rank in the total number of states reported. $^{\circ}$ USDA figure reported is for milk production.

Table 15. Relative impacts of price and quantity changes on value of production for New Mexico's top 10 commodities in nominal dollars, 1995-1996.

| | | 1996 | | | 1995 | | | | | | | |
|--------------------------------|---------------|-----------------------|------------|--------------------|-----------------------|------------|-----------|-----------|-----------|------------|----------|-----------------------------|
| | Price | | Value | Price ^a | | Value | ⊲ | | ◁ | ◁ | ◁ | $^{\Delta}$ Quantity * |
| | per | | of | ber | | of | Price | ◁ | VOP | Quantity * | Price * | ◁ |
| | unit | | production | nnit | | production | 1995-1996 | Quantity | 1995-1996 | price | quantity | price |
| Crop (Unit) | (dollars) | Quantity ^a | (\$1000) | (dollars) | Quantity ^a | (\$1000) | (dollars) | 1995-1996 | (\$1000) | (\$1000) | (\$1000) | (\$1000) |
| Cattle & calves ^b | | | | | | | | | | | | |
| Milk - wholesale (CWT) | 13.80 | 36,960,000 | 510,048 | 11.70 | 35,660,000 | 417,222 | 2.10 | 1,300,000 | 92,826 | 15,210 | 74,886 | 2,730 |
| Hay (ton) | 128.00 | 1,577,000 | 201,856 | 114.00 | 1,515,000 | 172,710 | 14.00 | 62,000 | 29,146 | 7,068 | 21,210 | 898 |
| Chile (ton)° | | | | | | | | | | | | |
| Onions (CWT) | 13.70 | 3,266,000 | 44,744 | 12.90 | 4,095,000 | 52,826 | 0.80 | -829,000 | -8,081 | -10,694 | 3,276 | -663 |
| Greenhouse | | | | | | | | | | | | |
| nursery | | | | | | | | | | | | |
| Cotton lint | | | | | | | | | | | | |
| Upland (480 lb bale) | 356.64 | 84,000 | 29,958 | 392.16 | 71,000 | 27,843 | -35.52 | 13,000 | 2,114 | 5,098 | -2,522 | -462 |
| Pima (480 lb bale) | 523.20 | 19,000 | 9,941 | 566.40 | 18,900 | 10,705 | -43.20 | 100 | -764 | 22 | -816 | 4 |
| Corn (bushel) | 3.10 | 14,700,000 | 45,570 | 2.95 | 11,680,000 | 34,456 | 0.15 | 3,020,000 | 11,114 | 8,909 | 1,752 | 453 |
| Potatoes (CWT) | 5.15 | 3,964,000 | 20,415 | 7.00 | 3,738,000 | 26,166 | -1.85 | 226,000 | -5,751 | 1,582 | -6,915 | -418 |
| Wheat (bushel) | 5.10 | 4,070,000 | 20,757 | 4.50 | 3,300,000 | 14,850 | 0.60 | 770,000 | 5,907 | 3,465 | 1,980 | 462 |
| Source for price and appliated | Londity data. | | | | | | | | | | | |

Sources for price and quantity data:

Milk - Wholesale, New Mexico Agricultural Statistics, 1997, p. 37. Hay, New Mexico Agricultural Statistics, 1996, p. 51.

Onions, New Mexico Agricultural Statistics, 1996, p. 68.
Cotton, New Mexico Agricultural Statistics, 1997, pp. 57-59.
Corn, New Mexico Agricultural Statistics, 1997, p. 55.
Potatoes, New Mexico Agricultural Statistics, 1997, p. 60.
Wheat, New Mexico Agricultural Statistics, 1997, p. 49.

"The category includes different prices for different types of cattle. The different prices and price movements preclude the determination of one value for the category.

"Chile includes six different types. The different prices and price movements preclude the determination of one value for the category.

"Greenhouse Nursery data are not reported for units; therefore, these calculations are not possible.

Numbers in parentheses are negative numbers.

Table 16. Relative impacts of price and quantity changes on value of production for New Mexico's top 10 commodities in constant dollars (1990 = 100), 1995-1996.

| | | 1996 | | | 1995 | | | | | | | • |
|--|---|---|---|---|-----------------------|---|--|------------------------------|---|--|--|-----------------------------|
| Crop (Unit) | Price per unit (dollars) (1990-=100) | Price per unit (dollars) (1990-=100) Quantity ^b | Value of production (\$1000) (1990=100) | Price ^b per unit (dollars) (1990=100) | Quantity ^b | Value of production (\$1000) (1990=100) | A Price 1995-1996 (dollars) (1990=100) | Δ Quantity 1 1995-1996 | A VOP 1995-1996 (\$1000) (1990=100) | Δ Quantity * price (\$1000) (1990=100) | A Price * quantity (\$1000) (1990=100) | Δ Quantity Δ price (\$1000) |
| Cattle & calves ^c Milk - wholesale (CWT) | 11.57 | 36 960 000 | 427 478 | 10 10 | 35 660 000 | 360 005 | 1 47 | 1 300 000 | 67 474 | 13 124 | 52 438 | 1 912 |
| Hay (ton) | 107.28 | 1,577,000 | 169,178 | 98.37 | 1,515,000 | 149,025 | 8.91 | 62,000 | 20,154 | 660,9 | 13,502 | 553 |
| Chile (ton) ^d | | | | | | | | | | | | |
| Onions (CWT) | 11.48 | 3,266,000 | 37,501 | 11.13 | 4,095,000 | 45,581 | 0.35 | -829,000 | -8,080 | -9,228 | 1,438 | -291 |
| Greenhouse nursery [®] Cotton lint | | | | | | | | | | | | |
| Upland (480 lb bale) | 298.90 | 84,000 | 25,108 | 338.38 | 71,000 | 24,025 | -39.47 | 13,000 | 1,083 | 4,399 | -2,803 | -513 |
| Pima (480 lb bale) | 438.50 | 19,000 | 8,332 | 488.72 | 18,900 | 9,237 | -50.22 | 100 | -905 | 49 | -949 | -5 |
| Corn (bushel) | 2.60 | 14,700,000 | 38,193 | 2.55 | 11,680,000 | 29,731 | 0.05 | 3,020,000 | 8,462 | 7,687 | 616 | 159 |
| Potatoes (CWT) | 4.32 | 3,964,000 | 17,110 | 6.04 | 3,738,000 | 22,578 | -1.72 | 226,000 | -5,468 | 1,365 | -6,443 | -390 |
| Wheat (bushel) | 4.27 | 4,070,000 | 17,397 | 3.88 | 3,300,000 | 12,813 | 0.39 | 770,000 | 4,583 | 2,990 | 1,292 | 301 |
| | | | | | | | | | | | | |

The Consumer Price Index, with base year 1990 = 100, was calculated to be 115.8935 for 1995, and 119.3156 for 1996.

'Sources for price and quantity data:

Milk - Wholesale, New Mexico Agricultural Statistics, 1997, p. 37. Hay, New Mexico Agricultural Statistics, 1996, p. 51. Onions, New Mexico Agricultural Statistics, 1996, p. 68. Cotton, New Mexico Agricultural Statistics, 1997, pp. 57-59. Corn, New Mexico Agricultural Statistics, 1997, p. 55. Potatoes, New Mexico Agricultural Statistics, 1997, p. 60.

Wheat, New Mexico Agricultural Statistics, 1997, p. 49.

^oThe category includes different prices for different types of cattle. The different prices and price movements preclude the determination of one value for the category.

^oChile includes six different types. The different prices and price movements preclude the determination of one value for the category.

^oGreenhouse Nursery data are not reported for units; therefore, these calculations are not possible.

Numbers in parentheses are negative numbers.

cases where either the quantity or price effect is negative (onions, Upland cotton, Pima cotton, and potatoes), the negative effect is offset by the opposite positive effect in only one case (Upland cotton). In the remaining three cases, the negative effect results in lower cash receipts for 1996. The change in VOP from the interaction effect is the smallest of the three change components for all eight commodities. The interaction effect is negative in four cases (onions, Upland cotton, Pima cotton, and potatoes) and positive in four cases (milk - wholesale, hay, corn, and wheat).

Constant-dollar Comparisons

The relative impacts of price and quantity changes on VOP in constant dollars are shown in table 16. For five of the eight commodities analyzed, Δ VOP in constant dollars is positive. The change in VOP produced by the quantity effect was greater in absolute terms than the change resulting from the price effect for four (onions, Upland cotton, corn, and wheat) of the eight commodities, The price effect was greater for four (milk-wholesale, hay, Pima cotton, and potatoes) commodities. The change to constant-dollar values did not change the equal split of price and quantity changes in the determination of Δ VOP.

The relative changes and signs for ΔVOP and its components in constant dollars are shown in figure 2. In constant value terms, the quantity effect was positive for seven of the eight commodities; onions had a negative quantity effect. The price effect was positive for five (milk - wholesale, hay, onions, corn, and wheat) of the eight commodities. The interaction effect was positive for four (milk - wholesale, hay, corn, and wheat) of the eight commodities. In constant value terms, none of the commodities had negative values for both the quantity and price effects. In the four cases with either a negative quantity or price effect, the negative effect is offset by a positive quantity for the other effect in only one case (Upland cotton). For all the commodities, the interaction effect is the smallest of the three change components, and it was positive only for onions.

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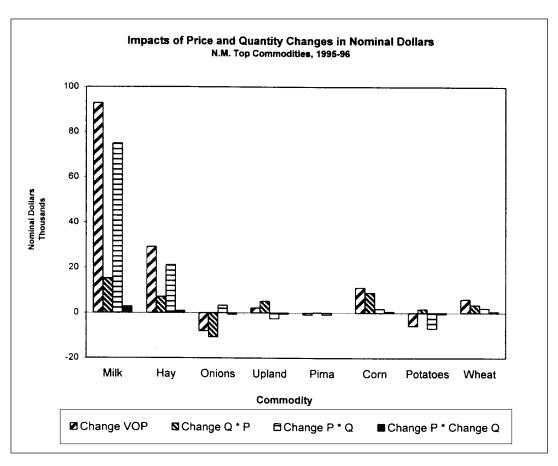
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Figure 1

Data and graphical presentation of price and quantity changes in nominal dollars, for New Mexico top commodities, 1995-96.*

| | | | | | | Δ |
|------------------------------------|------------------------|-----------|-----------|----------|----------|------------|
| | Δ | | Δ | Δ | Δ | Quantity * |
| | Price | Δ | VOP | Quantity | Price * | Δ |
| | 1995-1996 | Quantity | 1995-1996 | price | Quantity | price |
| Crop (Unit) | (dollars) ^a | 1995-1996 | (\$1000) | (\$1000) | (\$1000) | (\$1000) |
| Milk - wholesale (CWT) | 2.10 | 1.300.000 | 92,826 | 15,210 | 74.886 | 2,730 |
| Hay (ton) | 14.00 | 62,000 | 29,146 | 7,068 | 21,210 | 868 |
| Onions (CWT) | 0.80 | -829,000 | -8,081 | -10,694 | 3,276 | -663 |
| Cotton lint - Upland (480 lb bale) | -35.52 | 13,000 | 2,114 | 5,098 | -2,522 | -462 |
| Cotton lint - Pima (480 lb bale) | -43.20 | 100 | -764 | 57 | -816 | -4 |
| Corn (bushel) | 0.15 | 3,020,000 | 11,114 | 8,909 | 1,752 | 453 |
| Potatoes (CWT) | -1.85 | 226,000 | -5,751 | 1,582 | -6,915 | -418 |
| Wheat (bushel) | 0.60 | 770,000 | 5,907 | 3,465 | 1,980 | 462 |

^aValues in parentheses are negative numbers.



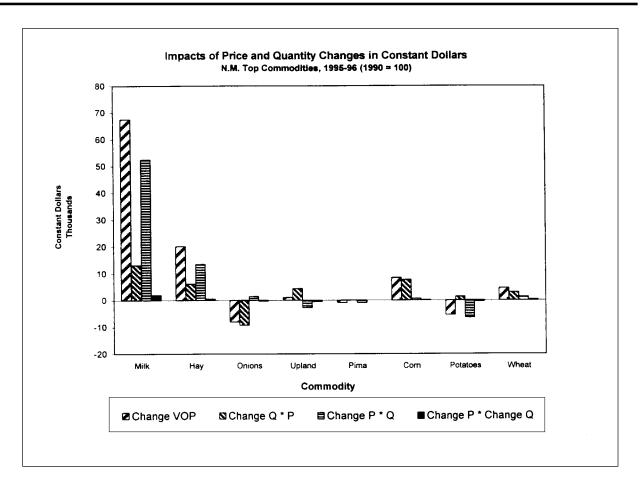
^{*} Data and graphical presentation are for seven of the top 10 commodities. The category cattle includes prices for different types of cattle; different prices and price movements preclude the determination of one value for the category. Chile includes six different types. The different prices and price movements preclude the determination of one value for the category. Although greenhouse nursery ranks in the top 10, greenhouse nursery is a category, not a commodity. Therefore, meaningful price and quantity data are not available.

Figure 2

Data and graphical presentation of price and quantity changes in constant dollars (1990 = 100), for New Mexico top commodities, 1995-96. *

| | | | | | | Δ |
|------------------------------------|------------------------|-----------|--------------|--------------|--------------|--------------|
| | Δ | | Δ | Δ | Δ | Quantity* |
| | Price | | VOP | Quantity * | Price * | Δ |
| | 1995-1996 | Δ | 1995-1996 | PRICE | Quantity | PRICE |
| | (dollars) ^a | Quantity | (\$1000) | (\$1000) | (\$1000) | (\$1000) |
| CROP (Unit) | (1990 = 100) | 1995-1996 | (1990 = 100) | (1990 = 100) | (1990 = 100) | (1990 = 100) |
| Milk - Wholesale (CWT) | 1.47 | 1,300,000 | 67,474 | 13,124 | 52,438 | 1,912 |
| Hay (ton) | 8.91 | 62,000 | 20,154 | 6,099 | 13,502 | 553 |
| Onions (CWT) | 0.35 | -829,000 | -8,080 | -9,228 | 1,438 | -291 |
| Cotton Lint - Upland (480 lb bale) | -39.47 | 13,000 | 1,083 | 4,399 | -2,803 | -513 |
| Cotton Lint - Pima (480 lb bale) | -50.22 | 100 | -905 | 49 | -949 | -5 |
| Corn (bushel) | 0.05 | 3,020,000 | 8,462 | 7,68 | 616 | 159 |
| Potatoes (CWT) | -1.72 | 226,000 | -5,468 | 1,365 | -6,443 | -390 |
| Wheat (bushel) | 0.39 | 770,000 | 4,583 | 2,990 | 1,292 | 301 |

^aValues in parentheses are negative numbers.



^{*} Data and graphical presentation are for seven of the top ten commodities. The category cattle includes prices for different types of cattle; different prices and price movements preclude the determination of one value for the category. Chile includes six different types. The different prices and price movements preclude the determination of one value for the category. Although greenhouse nursery ranks in the top 10, greenhouse nursery is a category, not a commodity. Therefore, meaningful price and quantity data are not available.

APPENDIX A

INDEX NUMBERS AND THE CONVERSION OF NOMINAL DOLLAR VALUES

Most economic and financial statistics recorded in the United States are reported in nominal dollars. These statistics measure value in the monetary value of the dollar of the given year. When these figures are used, comparisons between years include changes in the value of the dollar. To obtain meaningful comparisons between years, the values must have the effects of inflationary or deflationary price changes removed. One method of removing inflationary effects is to divide a given year's values by a price index. This procedure expresses product value in the given year as the dollar amount it would be if the value of the dollar had remained the same as in the base year.

No single price index is appropriate for making adjustments to the values of all goods and services. However, the Consumer Price Index (CPI) is frequently used to measure inflationary changes in the economy. Changes in the CPI indicate that consumer prices have changed by the amount of the change in the CPI, and these changes are taken to mean that the purchasing power of a dollar has changed by an equivalent amount. Cash receipts and value of production represent purchasing power of the New Mexico farm and ranch community. While other indices could be used to adjust the value of production or cash receipts, the CPI is an accepted method of adjusting nominal dollar values to arrive at a value in constant terms. The adjusted values provide a more accurate measure of real changes in the income of the farm and ranch community than do nominal dollars. This study will use the CPI to adjust nominal (yearly) values to constant-dollar values.

The current CPI statistics maintained by the US Department of Commerce take the period 1982-84 as the base year (1982-84 = 100). This study will use 1990 as the base year (1990 = 100). As a consequence, the Department of Commerce CPI figures have been adjusted as follows:

| $1982-84 = 100^{-11}$ | 1990 = 100 |
|-----------------------|-------------------------------|
| 1983 = 99.0 | $\frac{1983}{1983} = 75.2825$ |
| 1984 = 104.6 | 1984 = 78.7833 |
| 1985 = 108.0 | 1985 = 82.1293 |
| 1986 = 110.5 | 1986 = 84.0304 |
| 1987 = 114.3 | 1987 = 86.9202 |
| 1988 = 119.0 | 1988 = 90.4943 |
| 1989 = 124.6 | 1989 = 94.7529 |
| 1990 = 131.5 | 1990 = 100.0000 |
| 1991 = 137.5 | 1991 = 104.5627 |
| 1992 = 140.3 | 1992 = 106.6920 |
| 1993 = 144.5 | 1993 = 109.8859 |
| 1994 = 148.2 | 1994 = 112.6996 |
| 1982-84 = 100 | 1990 = 100 |
| 1995 = 152.4 | 1995 = 115.8935 |
| 1996 = 156.9 | 1996 = 119.3156 |

Using the adjusted index number, conversion of the 1996 nominal dollar values uses the following equation:

$$_{96}D_{1990} = (D1996 * 100)/119.3156$$

where: $_{96}D_{1990}$ = the 1996 dollar value expressed in 1990 dollars, and

$$D_{1996}$$
 = the 1996 nominal dollar value.

For example, total farm assets in 1996 were valued at \$13,210.7 million in 1996 nominal dollars. To obtain the value in 1990 dollars:

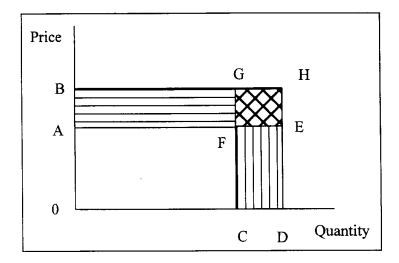
$$_{96}D_{1990} = (D_{1996} * 100)/119.3156$$
 $_{96}D_{1990} = (\$13,210.7 * 100)/119.3156$
 $_{96}D_{1990} = \$11,072.1$

Therefore, the total value of farm assets in 1996, when valued in 1990 dollars, is \$11,072.1 million. This method is used to calculate the adjustments in 1995 and 1996 values throughout the report.

¹¹CPI figures used in the series of this report are for all items, Western region of the United States. Source: Statistical Abstract of the United States, published annually by the U.S. Department of Commerce, Bureau of the Census, U.S. Government Printing Office, Washington, D.C

APPENDIX B

IMPACTS OF PRICE AND QUANTITY CHANGES ON CASH RECEIPTS AND VALUE OF PRODUCTION



Changes in price (P) and quantity (Q) have direct impacts on the cash receipts received by producers and the value of production (VOP)¹. Four possible combinations of changes² are considered:

- 1. Case 1 an increase in price ($\uparrow P *$ an increase in quantity ($\uparrow Q$;
 - 2. Case 2 $(\uparrow P)$ * a decrease in quantity $(\downarrow Q)$;
 - 3. Case 3 a decrease in price $(\downarrow P * (\uparrow Q);$ and
 - 4. Case 4 $(\downarrow P * (\downarrow Q)$.

The impacts of price and quantity changes on VOP can be illustrated using the figure shown above. The change in VOP (ΔVOP) is represented by three rectangles: ABGF, CFED, and FGHE. Area ABGF represents the part of ΔVOP that results from selling the original quantity at a new price³. Area CFED represents the part of Δ VOP that results from selling a new quantity at the original price⁴. Area FGHE represents the part of Δ VOP that results from selling the new quantity and the new price⁵. The relative sizes of ABGF and CFED will depend upon the relative sizes of the changes in price and quantity. In all cases, FGHE will be the smallest of the three areas⁶. The three areas may be thought of as a price effect, a quantity effect, and an interaction effect, respectively. The use of discrete values (the original price and quantity values), rather than incremental

¹Throughout this appendix, value of production will be used in the discussion rather than the phrase cash receipts and value of production.

²Four other combinations of change are possible: an increase or decrease in P when Q remains constant; and an increase or decrease in Q, when P remains constant. When P or Q for the individual is exactly the same as the previous year, results in two portions of the change in VOP are zero. When P does not change, there is no increase or decrease associated with P and no interaction of P with Q. If the change in Q is zero, the only change in VOP is represented by the rectangle ABGF. When Q does not change, there is no increase or decrease associated with Q and no interaction of Q with P. If the change in P is zero, the only change in VOP is represented by the rectangle CFED. Because these cases of no change from the previous year are less likely to occur for the individual producer, they are not considered in the discussion.

³When P increases, ABGF is positive (represents an addition to VOP). When P decreases, ABGF is negative (represents a reduction in VOP).

⁴When Q increases, CFED is positive (represents an addition to VOP). When Q decreases, CFED is negative (represents a reduction in VOP).

⁵FGHE depends on the direction of change in both P and Q. When P and Q both increase or decrease, the change in VOP represented by FGHE is positive. When the change in either P or Q is a decrease, the change in VOP represented by FGHE is negative.

⁶In some analyses, the value of FGHE is omitted due to the small impact on the total value of Δ VOP.

changes in price and quantity in the calculations of the price and quantity effect, result in slight mis-specifications of the price and quantity effect. The interaction term represents the adjustment that is necessary to arrive at the true value of ΔVOP .

Case 1

In Case 1, the price for the previous year is represented by OA and quantity for the previous year is OC. The previous year's VOP is represented by OAFC. In the current year, price increases to OB, quantity increases to OD, and VOP is represented by OBHD. In Case 1, all three ΔVOP components (ABGF, CFED , and FGHE) are positive.

Case 2

In Case 2, the price for the previous year is represented by OA, and the quantity for the previous year is OD. The previous year's VOP is represented by OAFD. In the current year, price increases to OB, quantity decreases to OC, and VOP is represented by OBGC. In Case 2, the price effect component (ABGF) of Δ VOP is

positive, and the quantity (CFED) and interaction effect (FGHE) components are negative.

Case 3

In Case 3, the price for the previous year is represented by OB, and the quantity for the previous year is OC. The previous year's VOP is represented by OBGC. In the current year, price decreases to OA, quantity increases to OD, and VOP is represented by OAED. In Case 3, the price effect (ABGF) and interaction effect (FGHE) components are negative, and the quantity effect component (CFED) is positive.

Case 4

In Case 4, the price for the previous year is represented by OB, and the quantity for the previous year is OD. The previous year's VOP is represented by OBHD. In the current year, price decreases to OA, quantity decreases to OC, and VOP is represented by OAFC. In Case 4, the price (ABGF) and quantity (CFED) effect components are negative, but the interaction effect component (FGHE) is positive.

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