

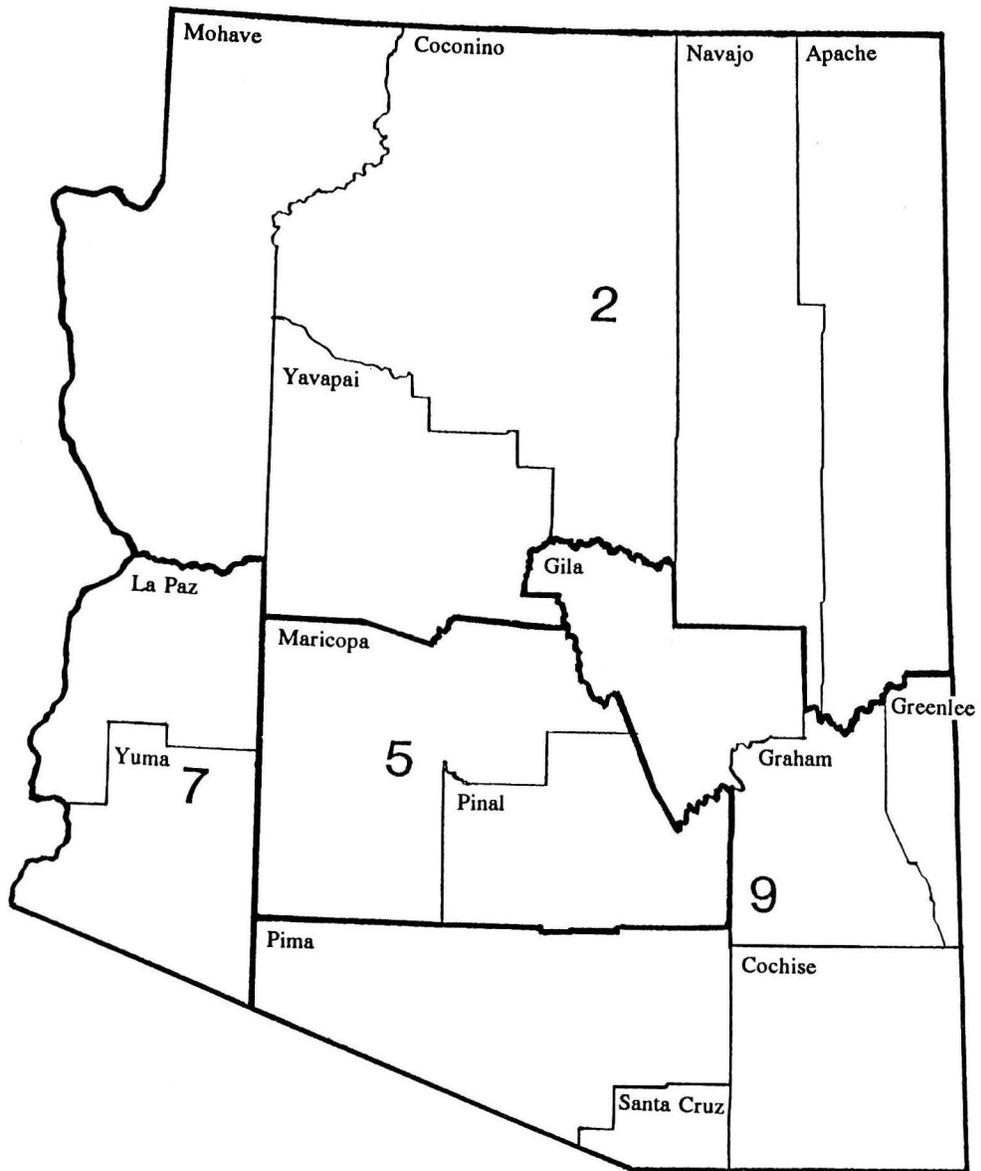
# 1991 ARIZONA AGRICULTURAL STATISTICS



Issued August 1992

**1991 ARIZONA AGRICULTURAL STATISTICS**

**ARIZONA COUNTIES AND CROP REPORTING DISTRICTS**



**PHOTOGRAPHY ACKNOWLEDGEMENTS**

**COVER**

Irrigation system on Ak Chin Indian Reservation, Joe Madrigal Jr., Audio-Visual Production Specialist, Bureau of Reclamation, U.S. Department of the Interior.

**INSIDE**

Barry L. Boyd, State Statistician, Arizona Agricultural Statistics Service, U.S. Department of Agriculture and Chris Williams, Public Affairs Specialist, Arizona Soil Conservation Service, U.S. Department of Agriculture.



**ARIZONA AGRICULTURAL STATISTICS SERVICE**

201 E. Indianola, Suite 250, Phoenix, Arizona 85012  
(602) 640-2573

Barry L. Bloyd, State Statistician  
Debra K. Kenerson, Deputy State Statistician

Todd A. Ballard  
Agricultural Statistician

Duane R. Short  
Agricultural Statistician

David A. DeWalt  
Surveys Statistician

Dean G. Fairchild  
Student Assistant

Linda S. Hoffman  
Data Processing

Evelyn S. Dye  
Bulletin Coordinator

Betty J. Fahy  
Administrative Technician

Jonie L. Clark  
Statistical Assistant

Alice L. Bryant  
Typist - Word Processor

Sharon C. Ricart  
Program Maintenance Clerk

Donna F. Ford  
Data Entry

A cooperative function of

U.S DEPARTMENT OF AGRICULTURE  
National Agricultural Statistics Service

THE UNIVERSITY OF ARIZONA  
Department of Agricultural Economics

Charles E. Caudill  
Administrator

Manuel T. Pacheco  
President

Donald M. Bay  
Deputy Administrator for Operations

Eugene G. Sander  
Dean, College of Agriculture

Fred S. Barrett  
Director, State Statistical Division

Bruce R. Beattie  
Head, Department of Agricultural Economics

Bulletin S-27  
August 1992  
2.3 M.

# CONTENTS

	PAGE		PAGE
INTRODUCTION		SHEEP	
STATE SUMMARY		Summary - - - - -	76
Crop Summary - Arizona and United States - - - - -	2	Sheep and Lambs - - - - -	76-77
Livestock Summary - Arizona and United States - - - - -	3	Wool - - - - -	77
Cash Receipts from Agricultural Marketings - - - - -	4	Sheep, Lamb, and Wool Prices - - - - -	78
Cash Receipts - Crops and Livestock by Counties - - - - -	5	GOATS	
Farm Income Indicators - - - - -	6	Summary - - - - -	78
Government Payments - - - - -	7	Angora Goats and Mohair - - - - -	78
Value of Home Agricultural Commodity Consumption - - - - -	7	GRAZING FEES - - - - -	79
Commodity Credit Corporation Loans - - - - -	7	HOGS	
Farm Balance Sheet - - - - -	7	Summary - - - - -	80
Farm Real Estate Debt - - - - -	8	Hogs and Pigs - - - - -	80-81
Nonreal Estate Debt - - - - -	8	MEAT PRODUCTION	
Farms and Ranches - - - - -	9	Livestock Slaughter - - - - -	82-83
Crop Records - Acreage, Yield and Production - - - - -	10	HONEY	
FIELD CROPS		Production - - - - -	83
Summary - - - - -	11	POULTRY	
Upland Cotton - - - - -	12-13	Summary - - - - -	84
American-Pima Cotton - - - - -	14-15	Chickens and Eggs - - - - -	84
All Cotton and Cottonseed - - - - -	16-17	WEATHER	
Durum Wheat - - - - -	18-19	Summary - - - - -	85
Other Wheat - - - - -	20-21	Reservoir Storage - - - - -	86
All Wheat - - - - -	22-23	Freeze Dates - - - - -	87
Barley - - - - -	24-25	Temperatures - - - - -	88
Corn - - - - -	26-27	Precipitation - - - - -	89
Alfalfa - - - - -	28	FARM LABOR	
Other Hay - - - - -	29	Number of Workers and Hours Worked - - - - -	90
All Hay - - - - -	30-31	Wage Rates - - - - -	91
Other Field Crops - - - - -	32	INTERNATIONAL TRADE	
Grain and Hay Stocks - - - - -	33	Summary - - - - -	92
Principal Crops, Acres Harvested 1990 - - - - -	110	Exports - - - - -	92
Principal Crops, Acres Harvested 1991 - - - - -	111	Value of Foreign Trade and Trade Balance - - - - -	93
VEGETABLES, MELONS, AND POTATOES		Cotton Supply and Use - - - - -	93
Summary - - - - -	34	OTHER STATISTICS	
Western Lettuce - - - - -	35	Foreign Ownership of Agricultural Land - - - - -	94
Other Lettuce - - - - -	36-37	Cotton Objective Yield - - - - -	95
Dry Onions - - - - -	38	Cotton Ginning Charges - - - - -	96
Broccoli - - - - -	39	Upland Cotton - Varieties Planted - - - - -	97
Cauliflower - - - - -	40	Domestic Cotton Mill Consumption - - - - -	98
Carrots - - - - -	40	Cotton Progress - - - - -	99-100
Watermelons - - - - -	41	Pasture and Range Feed Conditions - - - - -	100
Honeydews - - - - -	42-43	Small Grains Progress - - - - -	100-101
Cantaloups - - - - -	44-45	Pesticide Sales - - - - -	101
Potatoes - - - - -	46	Commercial Fertilizers - - - - -	103
Other Vegetables - - - - -	47-49	Chemical Use on Vegetables - - - - -	104
FRUITS AND NUTS		Planting and Harvesting Dates - - - - -	105
Summary - - - - -	50	Commodities Rank - - - - -	106-107
Apples - - - - -	50	Land Ownership - - - - -	108
Pecans - - - - -	50	STATE STATISTICAL OFFICES - - - - -	109
Grapes - - - - -	51		
Citrus - - - - -	52-63		
Other Fruits and Nuts - - - - -	64-65		
CATTLE			
Summary - - - - -	66		
Cattle and Calves - - - - -	67-68		
Cattle on Feed - - - - -	69-71		
Cattle Prices - - - - -	72		
HORSES			
Horse Study - - - - -	72		
DAIRY			
Summary - - - - -	73		
Milk Cows and Milk Production - - - - -	74		
Grain Fed - - - - -	75		
Number of Dairy Plants - - - - -	75		
Manufactured Dairy Products - - - - -	75		

## PREFACE

This twenty-seventh edition of "Arizona Agricultural Statistics" symbolizes the continuation of a joint effort between The University of Arizona College of Agriculture and the Arizona Agricultural Statistics Service that began in 1965. The goal is to provide quality and detailed information about Arizona's diversified and dynamic agriculture.

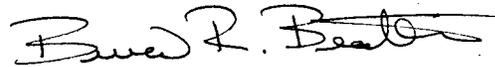
The agricultural statistics included in this publication would not be possible without the voluntary cooperation and assistance of Arizona farmers and ranchers, agribusiness firms, The University of Arizona, the Arizona Department of Agriculture, and other state and federal agencies.

Accurate, reliable, and detailed agricultural statistics continue to be demanded by both the public and private sectors that serve agriculture. Farmers and ranchers, farm organizations, and various grower associations need agricultural statistics to help educate the urban population on the importance of agriculture in their daily lives. Agribusiness firms need reliable data to help them evaluate business opportunities in Arizona. State and Federal government agencies depend upon agricultural production and price statistics in carrying out their mandated programmatic and public policy responsibilities.

Special recognition is due our field staff of supervisors and enumerators who serve as a vital link in the data gathering process. Also, to the Arizona Agricultural Statistics Service staff goes a heartfelt "thank you" for excellent work and continued dedication in preparing this bulletin.



Barry L. Bloyd, State Statistician  
Arizona Agricultural Statistics Service  
U. S. Department of Agriculture: National  
Agricultural Statistics Service



Bruce R. Beattie, Head  
Department of Agricultural Economics  
College of Agriculture  
The University of Arizona

## 1991 ARIZONA AGRICULTURAL STATISTICS

## CROP SUMMARY: Acreage harvested, production, and value, Arizona and United States, 1989-91

Crop	Acres Harvested			Production			Value			
	1989	1990	1991	Unit	1989	1990	1991	1989	1990	1991
	1,000 acres				Thousands			1,000 dollars		
<b>ARIZONA</b>										
Upland cotton	239.0	348.0	359.0	Bales	649.0	811.0	898.0	205,292	269,382	257,762
American-Pima cotton	244.5	124.0	103.0	Bales	477.0	194.0	184.5	218,886	96,845	89,446
All cotton	483.5	472.0	462.0	Bales	1,126.0	1,005.0	1,082.5	424,178	366,227	347,208
Cottonseed				Tons	423.0	380.0	409.0	46,953	51,680	33,538
Alfalfa hay	150	165	170	Tons	1,140	1,304	1,309	116,280	126,488	102,102
Other hay	35	30	30	Tons	140	117	117	9,800	8,951	7,020
All hay	185	195	200	Tons	1,280	1,421	1,426	126,080	135,439	109,122
Durum wheat	84	44	39	Tons	227	124	111	31,147	15,096	13,338
Other wheat	34	54	29	Tons	95	154	87	13,249	19,238	10,295
All wheat	118	98	68	Tons	322	278	198	44,396	34,334	23,633
Barley	12	15	20	Tons	30	38	58	3,832	4,394	6,240
Corn for grain	13	7	5	Tons	53	31	24	5,655	3,528	2,380
Corn for silage	7	8	9	Tons	189	216	252	3,780	4,536	6,048
Potatoes	5.8	6.9	6.0	Cwt.	1,827	1,794	1,770	15,164	15,249	18,408
Western lettuce	44.5	46.1	45.0	Cwt.	11,793	12,217	14,400	179,254	89,551	133,200
Other lettuce	6.4	4.4	4.0	Cwt.	1,088	858	1,040	11,533	10,039	16,016
Dry onions	1.1	1.0	.9	Cwt.	446	475	441	3,816	5,006	3,797
Broccoli	5.4	5.1	6.5	Cwt.	540	587	618	11,124	10,977	15,079
Cauliflower	6.8	6.4	5.8	Cwt.	782	672	725	21,974	15,926	22,548
Carrots	1.4	1.5	1.0	Cwt.	238	195	160	3,737	1,897	1,984
Honeydews	2.1	2.4	3.0	Cwt.	336	408	390	4,032	10,037	8,931
Grapefruit	6.5	6.4	6.2	Ctn.	3,900	4,400	4,800	8,626	22,000	15,336
Lemons	15.5	15.5	15.4	Ctn.	7,600	5,600	8,200	34,431	39,844	49,118
Oranges	10.4	10.2	9.9	Ctn.	3,400	3,220	3,500	14,742	13,663	31,776
Tangerines	3.6	4.0	3.7	Ctn.	1,300	1,200	1,200	9,936	9,864	11,226
Grapes 2/	6.2	5.1	5.0	Ton	26.5	26.0	25.0	17,861	22,616	19,686
Apples 2/	4.4	4.0	4.0	Lbs.	34,000	61,000	56,000	2,531	4,892	7,891
<b>UNITED STATES</b>										
Upland cotton	9,166.0	11,504.5	12,715.5	Bales	11,503.9	15,146.9	17,215.9	3,555,480	4,894,226	4,733,749
American-Pima cotton	371.7	227.1	244.0	Bales	691.7	358.5	398.4	322,408	181,600	192,822
All cotton	9,537.7	11,731.6	12,959.5	Bales	12,195.6	15,505.4	17,614.3	3,877,888	5,075,826	4,926,571
Cottonseed				Tons	4,677.4	5,968.5	6,925.5	492,683	722,313	493,865
Alfalfa hay	25,944	25,401	25,585	Tons	77,370	83,555	83,795	6,932,906	6,664,148	5,824,886
Other hay	37,356	36,006	36,990	Tons	68,142	63,265	69,690	4,263,793	3,793,140	3,975,880
All hay	63,300	61,407	62,575	Tons	145,512	146,820	153,485	11,196,699	10,457,288	9,800,766
Durum wheat	3,673	3,507	3,197	Tons	2,767	3,673	3,119	316,838	318,922	293,159
Winter wheat	41,509	49,901	39,396	Tons	43,639	60,926	41,165	5,450,176	5,394,090	4,006,771
Other Spring wheat	17,007	15,875	15,100	Tons	14,692	17,494	15,137	1,775,450	1,471,415	1,589,380
All wheat	62,189	69,283	57,693	Tons	61,098	82,093	59,421	7,542,464	7,184,427	5,889,310
Barley	8,313	7,529	8,413	Tons	9,701	10,133	11,148	968,180	911,545	1,006,592
Corn for grain	64,703	66,952	68,842	Tons	210,714	222,153	209,285	17,896,810	18,191,643	18,063,205
Corn for silage	6,606	6,124	6,101	Tons	86,109	86,844	80,503	1/	1/	1/
Potatoes	1,281.5	1,370.6	1,374.9	Cwt.	370,444	402,110	418,229	2,716,963	2,403,980	2,095,341
All lettuce	243.3	231.3	222.1	Cwt.	75,231	73,201	70,778	950,278	844,142	810,186
Dry onions	132.7	138.3	134.0	Cwt.	47,902	52,781	50,702	496,971	488,786	580,900
Broccoli	116.8	110.8	101.0	Cwt.	13,513	12,345	11,190	276,050	268,220	242,155
Cauliflower	67.7	65.8	56.1	Cwt.	7,846	7,855	7,041	204,840	190,350	188,395
Carrots	101.9	94.4	97.3	Cwt.	28,987	29,237	27,827	297,227	272,573	308,749
Honeydews	29.9	26.4	25.9	Cwt.	5,131	4,503	3,737	62,334	81,218	68,895
Grapefruit	150.2	147.3	133.4	Ctn.	139,000	98,600	111,000	416,041	369,257	384,615
Lemons	63.9	63.3	62.1	Ctn.	40,000	37,200	38,000	234,955	279,744	294,500
Oranges	588.7	597.8	612.7	Ctn.	418,100	368,830	357,700	1,848,467	1,467,943	1,648,997
Tangerines	19.3	19.8	20.2	Ctn.	11,180	7,900	7,700	83,075	71,693	76,962
Grapes 2/	745.0	742.6	734.9	Tons	5,930.1	5,660.8	5,555.3	1,862,888	1,670,468	1,731,731
Apples 2/	480.8	486.0	481.9	Lbs.	9,917,400	9,658,200	9,836,900	1,034,437	4,456,896	1,778,352

1/ Not available.

2/ Utilized production.

LIVESTOCK SUMMARY: Inventory and value, Arizona and United States, 1990-92

Specie and class	Inventory 1/			Value 2/		
	1990	1991	1992	1990	1991	1992
	1,000 head			1,000 dollars		
<b>ARIZONA</b>						
<b>CATTLE AND CALVES 3/</b>	830	840	900	485,550	520,800	535,500
Beef cows that have calved	259	249	279			
Milk cows that have calved	91	96	96			
Beef cow replacement heifers	48	45	46			
Milk cow replacement heifers	20	20	20			
Other heifers 500 pounds and over	11	13	15			
Steers 500 pounds and over	215	235	217			
Bulls 500 pounds and over	24	26	27			
Calves under 500 pounds	162	156	200			
Cattle on feed 4/	253	232	224			
<b>HOGS 5/</b>	100	110	100	8,800	10,230	8,500
Breeding hogs	12	13	12			
Market hogs	88	97	88			
Under 60 pounds	29	33	33			
60-119 pounds	24	26	25			
120-179 pounds	20	20	19			
180 pounds and over	15	18	11			
<b>SHEEP AND LAMBS 3/</b>	262	250	225	23,318	20,000	18,675
Stock sheep	220	205	180			
Ewes one year or older	170	163	150			
Rams and wethers one year or older	8	7	6			
Ewe lambs	27	22	15			
Wether and ram lambs	15	13	9			
Sheep and lambs on feed	42	45	45			
<b>GOATS 3/</b>						
Angora goats	98	108	98	4,900	4,860	3,920
<b>CHICKENS 5/</b>	320	270	325	768	702	618
Hens and pullets of laying age	315	260	270			
<b>UNITED STATES</b>						
<b>CATTLE AND CALVES 3/</b>	98,162	98,896	100,110	60,285,432	64,661,865	63,016,005
Beef cows that have calved	33,200	33,271	33,834			
Milk cows that have calved	10,153	10,156	9,904			
Beef cow replacement heifers	5,418	5,605	5,747			
Milk cow replacement heifers	4,227	4,220	4,200			
Other heifers 500 pounds and over	8,028	8,357	8,677			
Steers 500 pounds and over	15,911	16,369	16,750			
Bulls 500 pounds and over	2,195	2,228	2,280			
Calves under 500 pounds	19,031	18,691	18,718			
Cattle on feed 4/	11,626	12,627	11,947			
<b>HOGS 5/</b>	53,821	54,477	56,974	4,255,785	4,654,641	3,935,099
Breeding hogs	6,862	6,870	7,224			
Market hogs	46,959	47,607	49,750			
Under 60 pounds	17,195	17,866	18,543			
60-119 pounds	12,183	12,206	12,704			
120-179 pounds	9,673	9,641	10,202			
180 pounds and over	7,908	7,894	8,302			
<b>SHEEP AND LAMBS 3/</b>	11,363	11,200	10,850	901,545	734,868	666,056
Stock sheep	9,601	9,471	9,043			
Ewes one year or older	7,609	7,429	7,182			
Rams and wethers one year or older	356	349	352			
Ewe lambs	1,324	1,342	1,174			
Wether and ram lambs	312	351	335			
Sheep and lambs on feed	1,762	1,730	1,807			
<b>GOATS 3/</b>						
Angora goats	1,900	1,780	1,896	94,770	70,995	81,640
<b>CHICKENS 5/</b>	356,234	351,616	359,473	770,822	804,682	825,557
Hens and pullets of laying age	271,064	271,906	278,386			

1/ Totals may not add due to rounding. 2/ Annual average published only for the total inventory number. 3/ Estimates are based on January 1 of the current year. 4/ Total cattle on feed included in other classes. 5/ Estimates are based on December 1 of the previous year.

## CASH RECEIPTS

Cash receipts are computed as marketing volume multiplied by the price and are usually reported on a calendar-year basis. Marketings come from current production or storage of past year's crop (assuming a crop is storable, such as potatoes). Thus, the quantity available for sale (marketings), can be thought of as coming from current production less shrinkage and the amount used on farms for food, feed, and seed plus change in stored quantity (inventory). On the other hand, value of production, which is generally reported as a crop-year statistic, is computed as production multiplied by the average price. The difference between value of production and cash receipts is usually only important to those commodities which can be stored and thus have a specific marketing pattern which extends through time from the date of harvest.

## CASH RECEIPTS FROM AGRICULTURAL MARKETINGS AND GOVERNMENT PAYMENTS: Arizona, 1986-91

Commodity Group	1986	1987	1988	1989	1990	1991
	1,000 dollars					
Cotton lint	314,877	337,255	325,837	454,456	415,394	376,762
Cottonseed	23,866	29,926	44,787	38,499	42,177	29,126
Hay	74,805	89,400	117,012	110,774	114,688	100,212
Wheat	31,500	22,906	29,972	42,664	33,889	22,666
Barley	6,925	4,434	2,776	2,863	3,305	4,286
Corn	4,260	1,959	4,726	4,185	2,776	2,305
Sorghum grain	1,789	1,255	1,141	675	1/	1/
Potatoes	9,256	13,829	11,379	14,824	14,901	18,408
Lettuce	125,204	159,848	321,363	190,787	99,590	149,216
Onions	5,795	11,993	3,398	3,816	5,006	3,797
Cauliflower	20,498	21,920	19,935	21,974	15,926	22,548
Broccoli	5,474	8,328	9,697	11,124	10,977	15,079
Carrots	4,316	4,200	2,428	3,737	1,897	1,984
Honeydews	5,555	5,462	7,266	4,032	10,037	8,931
Cantaloups	24,830	17,072	21,699	15,653	26,848	33,700
Watermelons	8,586	7,869	10,695	9,287	12,151	11,844
Miscellaneous vegetables	41,790	42,379	44,218	45,661	47,068	54,161
Grapefruit	11,495	10,147	7,703	9,280	20,485	14,738
Oranges	19,138	14,126	17,234	13,476	12,623	33,057
Lemons	15,823	46,340	22,914	34,409	44,251	38,404
Tangerines	4,996	9,886	7,291	10,361	10,151	9,863
Apples	2/	2/	2/	2,531	4,892	7,891
Grapes	25,070	21,279	29,913	17,861	22,616	19,686
Miscellaneous fruits and nuts	24,152	15,845	15,034	13,920	27,551	26,569
All other crops 3/	90,767	88,081	92,138	96,883	97,506	100,071
<b>TOTAL ALL CROPS</b>	<b>900,767</b>	<b>985,739</b>	<b>1,170,556</b>	<b>1,173,732</b>	<b>1,096,705</b>	<b>1,105,304</b>
Cattle and calves	423,085	483,269	518,411	450,771	497,166	515,831
Hogs	33,129	33,232	23,612	19,865	19,738	20,939
Sheep and lambs	5,554	10,369	11,587	10,662	9,744	8,882
Dairy products	172,847	182,528	184,760	206,176	230,535	207,644
Eggs	5,344	3,348	3,082	4,148	3,711	3,453
Honey	2,002	1,784	1,753	1,931	1,576	1,988
Wool	1,089	1,346	1,890	1,793	977	626
Miscellaneous livestock and products	53,089	58,214	46,592	48,840	49,453	26,274
<b>TOTAL ALL LIVESTOCK AND PRODUCTS</b>	<b>696,139</b>	<b>774,090</b>	<b>791,687</b>	<b>744,186</b>	<b>812,900</b>	<b>785,637</b>
<b>TOTAL ALL COMMODITIES</b>	<b>1,596,906</b>	<b>1,759,829</b>	<b>1,962,243</b>	<b>1,917,918</b>	<b>1,909,605</b>	<b>1,890,941</b>
<b>GOVERNMENT PAYMENTS</b>	<b>83,564</b>	<b>97,338</b>	<b>77,834</b>	<b>85,106</b>	<b>43,349</b>	<b>4/ 40,500</b>
<b>TOTAL CASH RECEIPTS</b>	<b>1,680,470</b>	<b>1,857,167</b>	<b>2,040,077</b>	<b>2,003,024</b>	<b>1,952,954</b>	<b>1,931,441</b>

1/ Included in all other crops.

2/ Included in miscellaneous fruits and vegetables.

3/ Includes miscellaneous field crops, seed crops, and greenhouse/nursery.

4/ Preliminary

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

**CASH RECEIPTS FROM AGRICULTURAL MARKETINGS: Total crops and livestock, Arizona, by counties, 1986-91**

County	1986	1987	1988	1989	1990	1991
1,000 dollars						
Apache	26,407	28,035	33,590	31,422	35,899	34,139
Cochise	52,584	55,000	77,635	65,448	72,324	65,746
Coconino	16,275	19,707	24,434	24,006	28,007	28,263
Gila	9,001	15,085	16,083	14,435	16,589	16,843
Graham	42,291	41,247	49,148	48,614	51,261	47,547
Greenlee	6,015	4,720	5,838	6,301	7,688	8,405
La Paz	55,325	67,247	74,834	71,883	83,059	73,996
Maricopa	637,366	635,813	619,501	668,882	689,493	614,918
Mohave	16,063	15,619	17,737	20,606	21,612	19,731
Navajo	39,963	46,875	41,963	38,838	42,055	40,961
Pima	50,440	51,083	57,403	54,322	59,791	50,741
Pinal	300,764	328,358	365,044	388,738	374,340	409,773
Santa Cruz	6,185	10,271	10,734	10,107	11,429	10,682
Yavapai	26,782	31,020	30,995	35,286	43,325	39,814
Yuma	311,445	409,749	537,304	439,030	372,733	429,382
ARIZONA	1,596,906	1,759,829	1,962,243	1,917,918	1,909,605	1,890,941

**CASH RECEIPTS FROM AGRICULTURAL MARKETINGS: Crops, Arizona, by counties, 1986-91**

County	1986	1987	1988	1989	1990	1991
1,000 dollars						
Apache	1,576	1,324	2,037	1,318	1,005	903
Cochise	28,020	24,705	43,902	34,694	32,752	29,215
Coconino	338	346	389	430	344	301
Gila	205	205	313	282	184	179
Graham	24,729	19,999	24,251	29,416	29,220	24,351
Greenlee	1,193	1,174	1,360	1,228	1,516	1,188
La Paz	54,453	65,088	72,699	69,918	81,591	72,499
Maricopa	349,857	357,974	371,310	406,019	404,650	373,648
Mohave	5,789	5,837	7,143	10,547	11,470	9,333
Navajo	1,206	1,062	1,326	1,678	521	466
Pima	26,459	22,782	26,846	24,046	28,983	27,058
Pinal	162,992	163,396	184,399	243,465	218,050	220,864
Santa Cruz	251	1,900	1,327	1,991	2,214	1,729
Yavapai	1,626	1,771	2,086	1,824	1,042	822
Yuma	242,073	318,176	431,168	346,876	283,163	342,748
ARIZONA	900,767	985,739	1,170,556	1,173,732	1,096,705	1,105,304

**CASH RECEIPTS FROM AGRICULTURAL MARKETINGS: Livestock and livestock products, Arizona, by counties, 1986-91**

County	1986	1987	1988	1989	1990	1991
1,000 dollars						
Apache	24,831	26,711	31,553	30,104	34,894	33,236
Cochise	24,564	30,295	33,733	30,754	39,572	36,531
Coconino	15,937	19,361	24,045	23,576	27,663	27,962
Gila	8,796	14,880	15,770	14,153	16,405	16,664
Graham	17,562	21,248	24,897	19,198	22,041	23,196
Greenlee	4,822	3,546	4,478	5,073	6,172	7,217
La Paz	872	2,159	2,135	1,965	1,468	1,497
Maricopa	287,509	277,839	248,191	262,863	284,843	241,270
Mohave	10,274	9,782	10,594	10,059	10,142	10,398
Navajo	38,757	45,813	40,637	37,160	41,534	40,495
Pima	23,981	28,301	30,557	30,276	30,808	23,683
Pinal	137,772	164,962	180,645	145,273	156,290	188,909
Santa Cruz	5,934	8,371	9,407	8,116	9,215	8,953
Yavapai	25,156	29,249	28,909	33,462	42,283	38,992
Yuma	69,372	91,573	106,136	92,154	89,570	86,634
ARIZONA	696,139	774,090	791,687	744,186	812,900	785,637

## FARM INCOME INDICATORS: Arizona, 1986-91

Item	1986	1987	1988	1989	1990	1991
Million dollars						
Gross farm income 1/	1,706.3	1,948.6	2,095.8	2,039.0	2,076.0	1,984.8
Gross cash income	1,757.7	1,908.0	2,091.1	2,057.5	1,994.0	1,974.6
Farm marketings	1,596.9	1,759.8	1,962.2	1,917.9	1,909.6	1,890.9
Crops	900.8	985.7	1,170.6	1,173.7	1,096.7	1,105.3
Livestock and products	696.1	774.1	791.7	744.2	812.9	785.6
Government payments	83.6	97.3	77.8	85.1	43.3	40.5
Farm-related income 2/	77.2	50.9	51.1	54.5	41.1	43.2
Noncash income	40.2	42.5	38.5	35.7	35.6	37.2
Value of home consumption	4.6	6.4	4.5	4.5	4.6	4.4
Rental value of dwellings	35.5	36.1	34.0	31.2	31.0	32.9
Operator and other dwellings	29.7	30.4	28.3	25.7	24.7	27.4
Hired laborer dwellings	5.8	5.7	5.7	5.5	6.2	5.5
Value of inventory adjustment	-91.6	-2.0	-33.8	-54.2	46.4	-27.0
Total production expenses 1/	1,268.1	1,321.1	1,384.6	1,380.7	1,468.8	1,477.1
Intermediate product expenses	783.2	832.4	895.6	878.7	939.9	947.8
Farm origin	334.7	390.5	451.2	399.9	468.8	449.1
Feed purchased	184.6	200.0	236.6	218.1	231.4	217.3
Livestock and poultry purchased	134.4	174.0	197.5	163.7	219.2	211.6
Seed purchased	15.7	16.6	17.1	18.1	18.2	20.2
Manufactured inputs	178.7	181.3	187.7	206.5	211.4	214.0
Fertilizer and lime	47.9	48.2	52.0	56.7	51.6	48.9
Pesticides	55.3	56.4	57.2	68.0	71.5	78.9
Fuel and oil	43.1	40.7	40.2	39.3	46.9	44.7
Electricity	32.3	36.0	38.2	42.5	41.4	41.5
Other	269.9	260.6	256.7	272.3	259.7	284.7
Repair and maintenance	36.4	39.4	37.1	37.9	37.5	36.5
Other miscellaneous 3/	233.5	221.2	219.6	234.4	222.2	248.2
Interest	164.0	162.4	166.5	168.0	166.6	160.6
Real estate	60.0	58.0	62.0	63.9	63.1	60.7
Nonreal estate	104.0	104.5	104.5	104.1	103.6	99.9
Contract and hired labor expenses 4/	181.0	189.7	197.9	210.5	237.7	239.4
Net rent to nonoperator landlords	30.3	29.5	24.6	22.2	23.1	21.8
Capital consumption	91.4	84.1	77.2	75.4	73.5	76.0
Property taxes	18.2	23.0	22.9	25.8	28.0	31.5
<b>NET FARM INCOME</b>	<b>438.2</b>	<b>627.4</b>	<b>711.2</b>	<b>658.3</b>	<b>607.2</b>	<b>507.7</b>
Gross cash income 5/	1,757.7	1,908.0	2,091.1	2,057.5	1,994.0	1,974.6
Cash expenses 5/	1,161.5	1,219.9	1,290.4	1,291.2	1,379.6	1,385.6
Intermediate product expenses	778.2	826.8	890.4	874.9	935.4	943.0
Interest	162.6	161.2	164.7	167.7	166.2	160.2
Cash labor expenses 4/	172.9	180.3	188.9	201.7	228.1	230.4
Net rent to nonoperator landlords	30.3	29.5	24.6	22.2	23.1	21.8
Property taxes	17.5	22.0	21.9	24.7	26.8	30.2
<b>NET CASH INCOME</b>	<b>596.2</b>	<b>688.2</b>	<b>800.7</b>	<b>765.3</b>	<b>614.4</b>	<b>589.1</b>
Gross cash income 5/	1,757.7	1,908.0	2,091.1	2,057.5	1,994.0	1,974.6
Farm business expenses 5/	1,241.9	1,292.8	1,357.1	1,356.3	1,443.2	1,451.1
Cash expenses 5/	1,161.5	1,219.9	1,290.4	1,291.2	1,379.6	1,385.6
Capital consumption 5/	80.4	73.0	66.7	65.1	63.6	65.5
<b>NET BUSINESS INCOME 6/</b>	<b>515.8</b>	<b>615.2</b>	<b>734.0</b>	<b>701.1</b>	<b>550.8</b>	<b>523.6</b>
Gross receipts of farms 7/	1,676.6	1,917.8	2,067.5	2,013.2	2,050.7	1,959.2
Farm production expenses	1,250.0	1,302.2	1,366.2	1,365.1	1,452.8	1,460.1
Nonfactor payments 5/	876.1	921.8	979.0	964.7	1,025.8	1,038.7
Intermediate product expenses	778.2	826.8	890.4	874.9	935.4	943.0
Capital consumption	80.4	73.0	66.7	65.1	63.6	65.5
Property taxes	17.5	22.0	21.9	24.7	26.8	30.2
Factor payments 5/	373.9	380.5	387.2	400.4	427.0	421.3
Interest	162.6	161.2	164.7	167.7	166.2	160.2
Contract and hired labor expenses	181.0	189.7	197.9	210.5	237.7	239.4
Net rent to nonoperator landlords	30.3	29.5	24.6	22.2	23.1	21.8
<b>RETURNS TO OPERATORS 8/</b>	<b>426.6</b>	<b>615.6</b>	<b>701.3</b>	<b>648.1</b>	<b>597.9</b>	<b>499.2</b>

1/ Includes operator dwellings. 2/ Includes forest product sales, custom feeding fees, and other farm business-related income. 3/ Includes machine hire and customwork expenses; marketing, storage, and transportation expenses; and miscellaneous expenses. 4/ Includes contract labor expenses, hired labor wages, and Social Security payments. 5/ Excludes operator dwellings. 6/ Cash income minus the sum of cash expenses and capital consumption. 7/ Gross farm income minus the gross rental value of operator dwellings. 8/ Gross receipts of farm businesses less nonfactor payments, interest, contract and hired labor expenses, and net rent to nonoperator landlords.

Source: United States Department of Agriculture, Economic Research Service, Economic Indicators of the Farm Sector, State Financial Summary.

**GOVERNMENT PAYMENTS: By program, Arizona, 1986-90**

Year	Conservation 1/	Feed grain	Wheat	Cotton	Wool act	Miscellaneous 2/	Total
1,000 dollars							
1986	1,385	2,606	4,290	65,948	2,096	7,239	83,564
1987	1,574	5,028	6,185	78,973	2,588	2,990	97,338
1988	1,782	3,983	5,401	62,806	1,850	2,012	77,834
1989	2,031	2,527	1,176	73,089	1,179	5,104	85,106
1990	1,706	2,214	5,370	29,307	1,488	3,264	43,349

1/ Includes amount paid under agriculture and conservation programs.

2/ Includes Dairy Indemnity Program, Payments-In-Kind Program, Rural Clean Water Program, Clean Lakes Program, Forest Incentive Program, Water Bank Program, Emergency Livestock Feed Program, Extended Storage Program, Milk Diversion Program, and Animal and Plant Health Inspection Service Indemnity Program.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

**VALUE OF HOME AGRICULTURAL COMMODITY CONSUMPTION: Arizona, 1986-90 1/**

Year	Livestock and products	Crops	Total
1,000 dollars			
1986	3,716	889	4,605
1987	5,936	632	6,568
1988	3,935	604	4,539
1989	3,948	523	4,471
1990	4,412	513	4,625

1/ Value of farm products consumed directly in farm households where produced.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

**COMMODITY CREDIT CORPORATION LOANS: Arizona, 1986-90**

Year	Net loans 1/	Loans liquidated 2/
1,000 dollars		
1986	-13,733	3,071
1987	-22,754	1,929
1988	6,092	221
1989	-9,034	665
1990	-19,023	307

1/ Loans made minus loans repaid.

2/ Loans acquired by Commodity Credit Corporation plus loans charged off.

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

**FARM BALANCE SHEET INCLUDING OPERATOR HOUSEHOLDS: Arizona, December 31, 1986-90**

Item	1986	1987	1988	1989	1990
Million dollars					
<b>TOTAL FARM ASSETS</b>	12,716.4	11,526.0	11,217.5	10,715.4	11,529.1
Real estate	11,188.0	9,931.3	9,614.8	9,114.6	9,874.1
Livestock and poultry	422.8	518.2	533.3	518.4	551.7
Machinery and motor vehicles	447.6	437.0	435.2	458.6	454.9
Crops	70.4	63.2	43.1	43.0	38.2
Purchased inputs	20.0	41.8	43.5	34.2	31.3
Household equipment and furnishings	235.8	217.2	220.7	207.3	244.4
Investments in cooperatives	161.4	137.5	145.4	161.2	157.2
Other financial	170.3	179.7	181.6	178.3	177.1
<b>TOTAL FARM DEBT</b>	1,796.8	1,731.6	1,643.9	1,637.2	1,442.5
Real estate debt	705.2	672.6	671.7	666.6	644.4
Nonreal estate debt	1,091.6	1,059.0	972.2	970.7	798.1
<b>EQUITY</b>	10,919.5	9,794.4	9,573.7	9,078.2	10,086.6
Percent					
Equity/assets	85.9	85.0	85.3	84.7	87.5
Debt/equity	16.5	17.7	17.2	18.0	14.3
Debt/assets	14.1	15.0	14.7	15.3	12.5

Source: United States Department of Agriculture, Economic Research Service; Economic Indicators of the Farm Sector, State Financial Summary.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## REAL ESTATE FARM DEBT INCLUDING OPERATOR HOUSEHOLDS: Arizona, December 31, 1986-90

Year	Farm Credit System 1/	Farmers Home Administration	Life insurance companies	All operating banks	Individuals and others	Total debt 2/
Million dollars						
1986	157	72	161	122	192	705
1987	144	72	156	136	165	673
1988	134	67	163	163	144	672
1989	118	62	168	183	136	667
1990	159	52	201	105	128	644

1/ Federal land banks debt prior to 1988.

2/ Totals may not add due to rounding.

## NONREAL ESTATE FARM DEBT INCLUDING OPERATOR HOUSEHOLDS: Arizona, December 31, 1986-90

Year	All operating banks	Farm Credit System 1/	Farmers Home Administration	Total debt owed to reporting institutions	Debt owed to individuals and others	Total 2/	Commodity Credit Corporation crop loans
Million dollars							
1986	550	183	197	930	162	1,092	76
1987	572	167	183	922	138	1,059	51
1988	501	153	169	823	149	972	57
1989	493	172	151	816	155	971	47
1990	445	72	120	637	161	798	27

1/ Farm Credit System loans were reported separately for production credit association and Federal intermediate credit bank loans made through other financial institutions.

2/ Totals may not add due to rounding.

## REAL ESTATE FARM DEBT EXCLUDING OPERATOR HOUSEHOLDS: Arizona, December 31, 1986-90

Year	Farm Credit System 1/	Farmers Home Administration	Life insurance companies	All operating banks	Individuals and others	Total debt 2/
Million dollars						
1986	153	71	157	119	187	687
1987	140	70	152	133	160	655
1988	131	66	158	159	140	653
1989	115	60	164	179	133	651
1990	155	50	196	103	125	629

1/ Federal land banks debt prior to 1988.

2/ Totals may not add due to rounding.

## NONREAL ESTATE FARM DEBT EXCLUDING OPERATOR HOUSEHOLDS: Arizona, December 31, 1986-90

Year	All operating banks	Farm Credit System 1/	Farmers Home Administration	Total debt owed to reporting institutions	Debt owed to individuals and others	Total 2/	Commodity Credit Corporation crop loans
Million dollars							
1986	522	176	173	871	159	1,030	76
1987	543	160	161	864	135	999	51
1988	476	147	149	772	146	918	57
1989	469	165	133	767	152	918	47
1990	423	69	105	597	158	755	27

1/ Farm Credit System loans were reported separately for production credit association and Federal intermediate credit bank loans through other financial institutions prior to 1988.

2/ Totals may not add due to rounding.

## NUMBER OF FARMS AND RANCHES

The number of farms and ranches in Arizona rebounded somewhat from 1990, rising by 200 to reach 8,000 in 1991. Land in Arizona farms and ranches stands at an estimated 36 million acres. The USDA defines a farm or ranch as "an establishment from which \$1,000 or more per year of agricultural products were sold, or normally could be sold." Arizona's farm numbers, such as those for the nation as a whole, include many farm operators who do not receive the majority of their income from agriculture.

Many of those farms with operators who rely on off-farm income are hobby farms and mini-ranches that dot suburban areas of the state. The 1987 census of agriculture showed that 28 percent of Arizona's farms were less than 10 acres in size, while nearly 75 percent were under 500 acres. Land in farms, along with "average size" of farm can be misleading, especially in the western states, since the term excludes all state and federal public grazing lands leased on a per-head basis. Also, Indian lands that bypass classification as land belonging to an individual operator are reported as a single farm or ranch by a central tribal source. Land belonging to Indian nations in Arizona, comprises over 20 million acres of the Grand Canyon State's farm and ranch acreage, from the pine-studded Kaibab reservation of the north to the rugged Tohono O'Ohdam lands that border Mexico. Native Americans were Arizona's first farmers, using highly specialized canal systems to irrigate Arizona fields centuries before Columbus' voyage.

Arizona's ranches range in size from small ranchettes with only a few acres to large spreads of over 100 square miles. Forty-six hundred operations reported cattle in 1991, 450 had sheep, but such unconventional livestock products such as buffalo, ostriches, and llamas are also raised.

Crop farms show an amazing diversity owing to the many climate conditions of the state. According to census data, operations reporting cotton numbered around 1,200, vegetables over 300, with 1,400 operators reporting hay.

Given such variety, it is difficult to present a picture of the size of a "typical" farm in Arizona. The approximately 1,200 cotton farms in the 1987 Census of Agriculture had an average of 320 acres of cotton. However, if those 297 farms with less than 100 total acres are excluded, the size of a typical cotton farm is 405 acres. Virtually all crop acreage in Arizona is irrigated, and farm numbers and planted acreage are sensitive to the availability and cost of what is probably the most valuable resource of all to Arizona agriculture: water.

## NUMBER OF FARMS AND RANCHES: Selected States, 1987-91

State	1987	1988	1989	1990	1991
	Number				
ARIZONA	8,400	8,100	8,100	7,800	8,000
California	83,000	84,000	84,000	85,000	84,000
Colorado	27,000	27,300	27,000	26,500	26,000
Idaho	23,000	22,500	22,100	21,800	21,400
Montana	24,500	24,600	24,700	24,700	24,800
Nevada	2,600	2,600	2,500	2,500	2,500
New Mexico	14,000	14,000	14,000	13,500	13,500
Oregon	37,000	36,500	37,000	36,500	37,000
Texas	188,000	187,000	186,000	186,000	185,000
Utah	13,600	13,300	13,000	13,200	13,300
Washington	38,000	38,000	38,000	37,000	37,000
Wyoming	8,800	8,900	8,900	8,900	9,000
UNITED STATES	2,212,960	2,197,140	2,170,520	2,140,420	2,104,560

## LAND IN FARMS AND RANCHES: Selected States, 1987-91

State	1987	1988	1989	1990	1991	Average size of farms and ranches 1991
	1,000 acres					Acres
ARIZONA	37,000	36,500	36,000	36,000	36,000	4,500
California	31,900	31,600	31,300	30,800	30,300	361
Colorado	34,000	33,700	33,500	33,100	32,800	1,262
Idaho	13,800	13,700	13,700	13,700	13,500	631
Montana	60,800	60,700	60,600	60,500	60,300	2,431
Nevada	8,900	8,900	8,900	8,900	8,900	3,560
New Mexico	44,600	44,500	44,500	44,500	44,300	3,281
Oregon	17,900	17,800	17,800	17,800	17,800	481
Texas	133,200	132,000	132,000	132,000	131,000	708
Utah	11,300	11,300	11,300	11,300	11,300	850
Washington	16,000	16,000	16,000	16,000	16,000	432
Wyoming	34,800	34,800	34,800	34,800	34,800	3,867
UNITED STATES	998,923	994,543	991,153	987,420	982,576	467

## 1991 ARIZONA AGRICULTURAL STATISTICS

## CROP RECORDS: Acreage, yield, and production, Arizona

Crop	Date series began	Record	Acreage		Yield			Production		
			Harvested	Year 1/	Unit	Per acre	Year 1/	Unit	Total	Year 1/
			1,000 acres					Thousands		
All Cotton	1912	High	690.0	1953	Pounds	1,342.0	1987	Bales	1,609.7	1981
		Low	0.4	1912		212.0	1920		0.3	1912
Upland Cotton	1917	High	648.5	1953	Pounds	1,410.0	1987	Bales	1,556.0	1981
		Low	8.0	1917		228.0	1922		7.1	1917
American-Pima Cotton	1912	High	244.5	1989	Pounds	1,126.0	1987	Bales	477.0	1989
		Low	0.3	1947		180.0	1943		0.2	1947
Cottonseed	1917	High						Tons	631	1981
		Low							10	1917
All Hay	1909	High	332	1944	Tons	7.36	1988	Tons	1,438	1973
		Low	98	1909		1.97	1940		237	1909
Alfalfa Hay	1919	High	237	1944	Tons	7.90	1990	Tons	1,348	1973
		Low	82	1920		2.20	1940		238	1920
All Wheat	1909	High	431	1976	Pounds	5,830	1991	Tons	970	1976
		Low	15	1954		870	1941		9	1910
Durum Wheat	1976	High	319	1976	Pounds	5,700	1991	Tons	718	1976
		Low	39	1991		4,200	1978		111	1991
Other Wheat	1964	High	260	1975	Pounds	6,000	1991	Tons	546	1975
		Low	23	1966		2,400	1966		28	1966
Barley	1909	High	268	1954	Pounds	5,760	1991	Tons	334	1954
		Low	8	1928		1,200	1922		6	1928
Corn for Grain	1919	High	50	1978	Pounds	9,520	1991	Tons	161	1978
		Low	5	1991		520	1944		6	1924
Corn for Silage	1919	High	18	1978	Tons	28.0	1991	Tons	360	1978
		Low	2	1934		5.0	1935		10	1934
Potatoes	1899	High	12.8	1969	Cwt.	315.0	1989	Cwt.	2,944	1969
		Low	1.0	1912		18.0	1900		18	1900
All Oranges	1919/20	High						Cartons	10,520	1968/69
		Low							108	1927/28
Navel Oranges	1934/35	High						Cartons	2,300	1968/69
		Low							194	1934/35
Valencia Oranges	1934/35	High						Cartons	8,220	1968/69
		Low							146	1936/37
Grapefruit	1919/20	High						Cartons	8,200	1946/47
		Low							58	1919/20
Lemons	1958/59	High						Cartons	14,400	1974/75
		Low							680	1958/59
Tangerines	1964/65	High						Cartons	2,300	1983/84
		Low							280	1964/65
All Grapes	1909	High						Tons	31,000	1987
		Low							250	1920

1/ These are the latest years that records were achieved. In some cases these records were equaled in several earlier years.

**FIELD CROPS****HIGHLIGHTS - 1991 CROP YEAR**

Weather's influence on crops during 1991 was especially noticed in the cotton producing areas of the state. Rain showers and cool weather delayed planting and forced replanting in some areas. Cotton progressed at a retarded rate, with the crop behind in progress until the beginning of June. A mid-April frost in the Willcox area caused concern among apple growers, but the crop escaped serious damage. A hard freeze in late October in eastern Arizona damaged the cotton crop in that area.

**COTTON ACREAGE DOWN**

Upland cotton acreage was up while American-Pima cotton acreage was down resulting in total cotton acreage being less than the previous year. Cotton field preparations were well under way by the end of January. Planting was under way by mid-March, with most of the activity in western Arizona. Cotton planting in the central and eastern parts of the State was delayed due to cool soil temperatures and above normal rain. As a result of the delayed planting and the cool, wet spring cotton progress was behind normal for most of the season.

The crop made up for its slow start during July and August when the monsoons failed to bring much moisture to the state and kept temperatures up. September and October also proved to be warmer than normal for much of the state allowing the crop to develop the needed fruit. Eastern Arizona was hit by a hard freeze on October 28th, damaging a great deal of the cotton causing some upland acreage and large amounts of American-Pima acreage to be abandoned. Cotton harvest began around September first and ended by late December. Cotton yields were average despite earlier expectations of an exceptional crop. The white fly in western and the aphid in central and eastern regions caused harvesting and ginning problems for producers.

**WHEAT YIELDS UP**

Yields on Durum wheat were up slightly from the year before while winter wheat yields were up considerably. The early wet spring followed by continued warm weather contributed to the good yields. Most of the acreage was planted by early January. Harvest began the last week in May and was completed by mid-July.

**CORN ACREAGE DOWN**

The state's 1991 corn planted acreage was down 1,000 acres from 1990. Most of the corn grown in the State is grown in three counties - Cochise, Graham and Maricopa. Those counties account for 86 percent of the corn acreage in the State. Over half of the corn grown in Arizona is for silage; 9,000 of the 14,000 acres. Corn that was harvested for grain last year set a record for yield at 9,520 pounds per acre resulting in production of 23,800 tons.

**BARLEY ACREAGE UP**

Arizona farmers sowed 5,000 more acres of barley in 1991 than 1990 and also harvested 5,000 more acres than the previous year. Most of the barley in the State is grown in Maricopa and Pinal counties. These counties account for 75 percent of the barley acreage in Arizona. Barley was harvested at a record yield in 1991 - 5,760 pounds per acre. Production of 57,600 tons was at its highest level since 1986.

**ALFALFA ACREAGE UP**

Alfalfa acreage was up from the previous year. The year began with green chopping and sheeping-off. First cuttings got under way during the first part of March. Yields were down slightly from the previous year. Rain damaged hay was more frequent than normal due to the above average rainfall experienced statewide. Hay harvesting tapered off by mid-November and was virtually complete by mid-December.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## UPLAND COTTON: Acreage, yield, production, Arizona, by counties, 1987-91 1/

County and year	Planted	Harvested	Yield per harvested acre	Production	County and year	Planted	Harvested	Yield per harvested acre	Production
	Acres		Lbs.	Bales		Acres		Lbs.	Bales
<b>APACHE</b>					<b>COCHISE</b>				
1987	0				1987	12,900	12,800	821	21,900
1988	0				1988	17,500	17,400	745	27,000
1989	0				1989	14,100	13,900	701	20,300
1990	0				1990	15,400	15,200	707	22,400
1991	0				1991	17,800	17,500	603	22,000
<b>COCONINO</b>					<b>GILA</b>				
1987	0				1987	0			
1988	0				1988	0			
1989	0				1989	0			
1990	0				1990	0			
1991	0				1991	0			
<b>GRAHAM</b>					<b>GREENLEE</b>				
1987	9,000	8,900	1,014	18,800	1987	900	900	907	1,700
1988	10,000	9,900	1,149	23,700	1988	1,100	1,100	873	2,000
1989	4,900	4,800	1,060	10,600	1989	900	900	800	1,500
1990	7,900	7,400	1,038	16,000	1990	1,000	1,000	816	1,700
1991	5,700	5,700	842	10,000	1991	1,200	1,000	960	2,000
<b>LA PAZ</b>					<b>MARICOPA</b>				
1987	23,600	23,600	1,379	67,800	1987	119,800	119,600	1,468	365,800
1988	30,300	30,200	1,256	79,000	1988	148,400	148,200	1,181	364,500
1989	15,000	14,900	1,392	43,200	1989	109,000	108,800	1,337	303,000
1990	25,000	25,000	1,313	68,400	1990	145,700	145,000	1,163	351,400
1991	28,400	28,400	1,301	77,000	1991	139,300	139,000	1,216	352,000
<b>MOHAVE</b>					<b>NAVAJO</b>				
1987	4,500	4,500	1,301	12,200	1987	0			
1988	5,200	5,200	1,071	11,600	1988	0			
1989	4,700	4,600	1,242	11,900	1989	0			
1990	5,300	5,300	1,186	13,100	1990	0			
1991	5,800	5,800	1,076	13,000	1991	0			
<b>PIMA</b>					<b>PINAL</b>				
1987	8,600	8,500	1,203	21,300	1987	83,500	83,200	1,477	256,000
1988	9,600	9,400	1,123	22,000	1988	98,300	98,200	1,262	258,200
1989	6,200	6,100	1,086	13,800	1989	70,000	69,900	1,387	202,000
1990	10,600	10,600	906	20,000	1990	114,500	113,900	1,087	258,000
1991	10,400	10,400	1,108	24,000	1991	128,000	127,800	1,239	330,000
<b>SANTA CRUZ</b>					<b>YAVAPAI</b>				
1987	0				1987	0			
1988	2/				1988	0			
1989	0				1989	0			
1990	0				1990	0			
1991	0				1991	0			
<b>YUMA</b>					<b>ARIZONA</b>				
1987	27,200	27,000	1,484	83,500	1987	290,000	289,000	1,410	849,000
1988	29,600	29,400	1,257	77,000	1988	350,000	349,000	1,190	865,000
1989	15,200	15,100	1,357	42,700	1989	240,000	239,000	1,303	649,000
1990	24,600	24,600	1,171	60,000	1990	350,000	348,000	1,119	811,000
1991	23,400	23,400	1,395	68,000	1991	360,000	359,000	1,201	898,000

1/ Production estimates are for 480 pound net weight bales.

2/ Acres included with Pima County to avoid disclosure of individual operations.

**UPLAND COTTON: Acreage, yield, production, and value, Arizona, 1987-91 1/**

Year	Planted	Harvested	Yield per harvested acre	Lint		
				Production	Marketing year average price 2/	Value of production
	Acres		Lbs.	Bales	Cents per lb.	1,000 dol.
1987	290,000	289,000	1,410	849,000	65.7	267,741
1988	350,000	349,000	1,190	865,000	57.2	237,494
1989	240,000	239,000	1,303	649,000	65.9	205,292
1990	350,000	348,000	1,119	811,000	69.2	269,382
1991	360,000	359,000	1,201	898,000	59.8	257,762

1/ Production estimates are for 480 pound net weight bales.

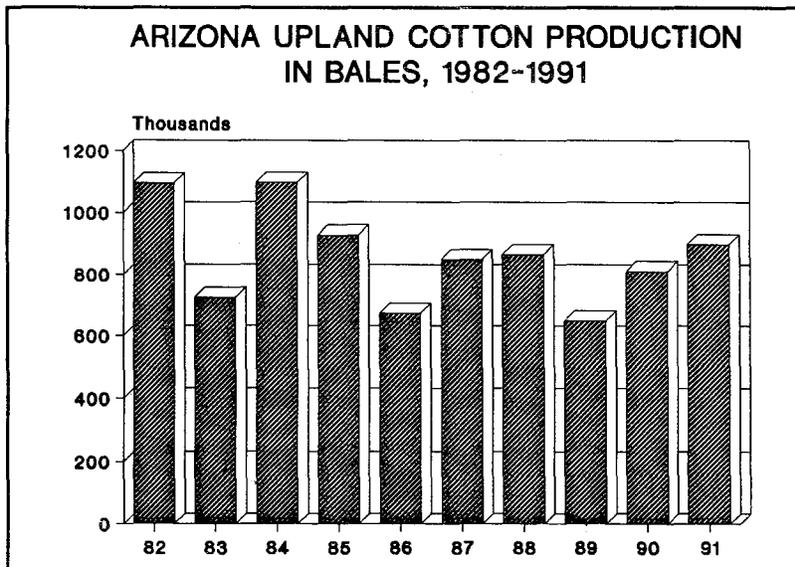
2/ Average price for the August through July marketing season. Prices do not include an allowance for loans outstanding and government purchases.

**UPLAND COTTON: Farm marketings, Arizona, 1986/87-1990/91**

Crop year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July
	Percent											
1986/87	1.0	5.9	2.2	24.5	31.4	13.0	4.0	3.1	5.5	4.2	3.6	1.6
1987/88	1.3	6.4	15.8	24.5	22.9	11.9	6.5	1.6	3.4	.2	5.2	.3
1988/89	1.9	4.5	8.3	17.9	26.6	8.0	12.3	6.1	4.1	3.5	.2	6.6
1989/90	3.1	2.7	15.1	35.1	9.3	7.9	11.3	4.4	3.7	3.7	.7	3.0
1990/91	.0	1.6	20.2	41.4	15.0	7.4	3.6	1.9	4.8	1.8	1.5	.8

**UPLAND COTTON: Monthly and marketing year average prices received by growers, Arizona, 1987/88-1991/92**

Crop year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Marketing year average
	Cents per pound												
1987/88	78.0	67.9	65.1	65.8	66.6	64.4	63.0	59.4	65.2	66.0	67.0	57.6	65.7
1988/89	56.6	58.1	54.1	56.3	54.7	53.9	57.9	56.4	67.3	61.7	60.3	68.0	57.2
1989/90	73.7	63.2	66.4	67.0	64.1	59.5	63.1	64.6	67.8	73.6	64.4	69.7	65.9
1990/91	51.7	68.2	67.5	69.6	70.7	65.9	68.2	71.3	72.3	73.5	71.4	65.1	69.2
1991/92	62.5	61.3	64.0	63.2	60.2	54.5	52.0	50.5					59.8



## 1991 ARIZONA AGRICULTURAL STATISTICS

## AMERICAN-PIMA COTTON: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Planted	Harvested	Yield per harvested acre	Production	County and year	Planted	Harvested	Yield per harvested acre	Production
	Acres		Lbs.	Bales		Acres		Lbs.	Bales
<b>APACHE</b>					<b>COCHISE</b>				
1987	0				1987	2,100	2,100	869	3,800
1988	0				1988	1,200	1,200	560	1,400
1989	0				1989	6,300	6,000	624	7,800
1990	0				1990	4,200	4,100	597	5,100
1991	0				1991	5,600	2,950	325	2,000
<b>COCONINO</b>					<b>GILA</b>				
1987	0				1987	0			
1988	0				1988	0			
1989	0				1989	0			
1990	0				1990	0			
1991	0				1991	0			
<b>GRAHAM</b>					<b>GREENLEE</b>				
1987	12,800	12,700	801	21,200	1987	0			
1988	14,300	14,300	873	26,000	1988	0			
1989	20,000	20,000	902	37,600	1989	*			
1990	16,600	16,100	865	29,000	1990	*			
1991	20,000	19,950	614	25,500	1991	*			
<b>LA PAZ</b>					<b>MARICOPA</b>				
1987	4,800	4,800	940	9,400	1987	22,300	22,300	1,248	58,000
1988	6,400	6,400	975	13,000	1988	33,400	33,400	862	60,000
1989	17,700	17,700	814	30,000	1989	63,300	63,200	919	121,000
1990	6,100	6,100	905	11,500	1990	24,500	24,300	672	34,000
1991	6,400	6,400	1,013	13,500	1991	18,400	18,400	955	36,600
<b>MOHAVE</b>					<b>NAVAJO</b>				
1987	0				1987	0			
1988	0				1988	0			
1989	700	700	891	1,300	1989	0			
1990	500	500	480	500	1990	0			
1991	*				1991	0			
<b>PIMA</b>					<b>PINAL</b>				
1987	3,400	3,400	847	6,000	1987	42,100	42,100	1,214	106,500
1988	5,300	5,300	734	8,100	1988	60,800	60,800	941	119,200
1989	8,500	8,400	629	11,000	1989	114,000	114,000	1,012	240,300
1990	3,100	3,100	650	4,200	1990	65,700	65,500	755	103,000
1991	2,700	2,700	818	4,600	1991	50,000	49,700	934	96,750
<b>SANTA CRUZ</b>					<b>YAVAPAI</b>				
1987	0				1987	0			
1988	0				1988	0			
1989	0				1989	0			
1990	*				1990	0			
1991	*				1991	0			
<b>YUMA</b>					<b>ARIZONA</b>				
1987	3,500	3,400	1,144	8,100	1987	91,000	90,800	1,126	213,000
1988	6,600	6,600	967	13,300	1988	128,000	128,000	904	241,000
1989	14,100	14,100	940	27,600	1989	245,000	244,500	936	477,000
1990	4,000	4,000	780	6,500	1990	125,000	124,000	751	194,000
1991	2,600	2,600	942	5,100	1991	106,000	103,000	860	184,500

\* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

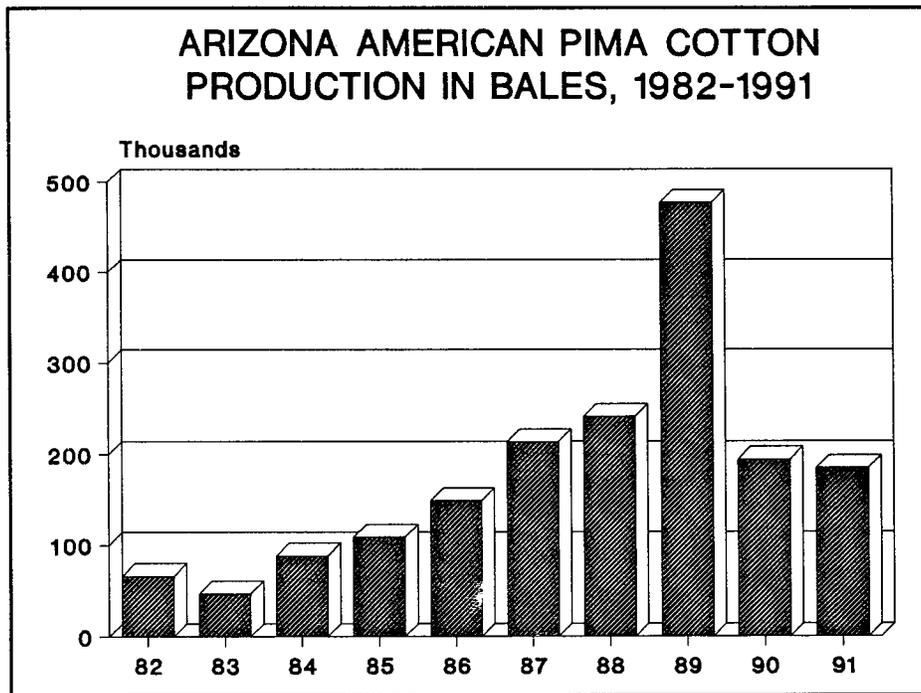
1/ Production estimates are for 480 pound net weight bales.

AMERICAN-PIMA COTTON: Acreage, yield, production, and value, Arizona, 1987-91 1/

Year	Planted	Harvested	Yield per harvested acre	Lint		
				Production	Marketing year average price 2/	Value of production
	Acres		Lbs.	Bales	Cents per lb.	1,000 dol.
1987	91,000	90,800	1,126	213,000	104.0	106,330
1988	128,000	128,000	904	241,000	118.0	136,502
1989	245,000	244,500	936	477,000	95.6	218,886
1990	125,000	124,000	751	194,000	104.0	96,845
1991	106,000	103,000	860	184,500	101.0	89,446

1/ Production estimates are for 480 pound net weight bales.

2/ Average price for the August through July marketing season. Price does not include an allowance for loans outstanding and government purchases.



## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALL COTTON: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Planted	Harvested	Yield per harvested acre	Production	County and year	Planted	Harvested	Yield per harvested acre	Production
	Acres		Lbs.	Bales		Acres		Lbs.	Bales
<b>APACHE</b>					<b>COCHISE</b>				
1987	0				1987	15,000	14,900	828	25,700
1988	0				1988	18,700	18,600	733	28,400
1989	0				1989	20,400	19,900	678	28,100
1990	0				1990	19,600	19,300	684	27,500
1991	0				1991	23,400	20,450	563	24,000
<b>COCONINO</b>					<b>GILA</b>				
1987	0				1987	0			
1988	0				1988	0			
1989	0				1989	0			
1990	0				1990	0			
1991	0				1991	0			
<b>GRAHAM</b>					<b>GREENLEE</b>				
1987	21,800	21,600	889	40,000	1987	900	900	907	1,700
1988	24,300	24,200	986	49,700	1988	1,100	1,100	873	2,000
1989	24,900	24,800	933	48,200	1989	*			
1990	24,500	23,500	919	45,000	1990	*			
1991	25,700	25,650	664	35,500	1991	*			
<b>LA PAZ</b>					<b>MARICOPA</b>				
1987	28,400	28,400	1,305	77,200	1987	142,100	141,900	1,434	423,800
1988	36,700	36,600	1,207	92,000	1988	181,800	181,600	1,122	424,500
1989	32,700	32,600	1,078	73,200	1989	172,300	172,000	1,183	424,000
1990	31,100	31,100	1,233	79,900	1990	170,200	169,300	1,093	385,400
1991	34,800	34,800	1,248	90,500	1991	157,700	157,400	1,185	388,600
<b>MOHAVE</b>					<b>NAVAJO</b>				
1987	4,500	4,500	1,301	12,200	1987	0			
1988	5,200	5,200	1,071	11,600	1988	0			
1989	5,400	5,300	1,195	13,200	1989	0			
1990	5,800	5,800	1,126	13,600	1990	0			
1991	*				1991	0			
<b>PIMA</b>					<b>PINAL</b>				
1987	12,000	11,900	1,101	27,300	1987	125,600	125,300	1,389	362,500
1988	14,900	14,700	983	30,100	1988	159,100	159,000	1,139	377,400
1989	14,700	14,500	821	24,800	1989	184,000	183,900	1,154	442,300
1990	13,700	13,700	848	24,200	1990	180,200	179,400	966	361,000
1991	13,100	13,100	1,048	28,600	1991	178,000	177,500	1,154	426,750
<b>SANTA CRUZ</b>					<b>YAVAPAI</b>				
1987	0				1987	0			
1988	2/				1988	0			
1989	*				1989	0			
1990	*				1990	0			
1991	*				1991	0			
<b>YUMA</b>					<b>ARIZONA</b>				
1987	30,700	30,400	1,446	91,600	1987	381,000	379,800	1,342	1,062,000
1988	36,200	36,000	1,204	90,300	1988	478,000	477,000	1,113	1,106,000
1989	29,300	29,200	1,156	70,300	1989	485,000	483,500	1,118	1,126,000
1990	28,600	28,600	1,116	66,500	1990	475,000	472,000	1,022	1,005,000
1991	26,000	26,000	1,350	73,100	1991	466,000	462,000	1,125	1,082,500

\* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Production estimates are for 480 pound net weight bales.

2/ Acres included with Pima County to avoid disclosure of individual operations.

**ALL COTTON: Acreage, yield, production, and value, Arizona, 1987-91 1/**

Year	Planted	Harvested	Yield per harvested acre	Production	Value of production
	Acres		Lbs.	Bales	1,000 dol.
1987	381,000	379,800	1,342	1,062,000	374,071
1988	478,000	477,000	1,113	1,106,000	373,996
1989	485,000	483,500	1,118	1,126,000	424,178
1990	475,000	472,000	1,022	1,005,000	366,227
1991	466,000	462,000	1,125	1,082,500	347,208

1/ Production estimates are for 480 pound net weight bales.

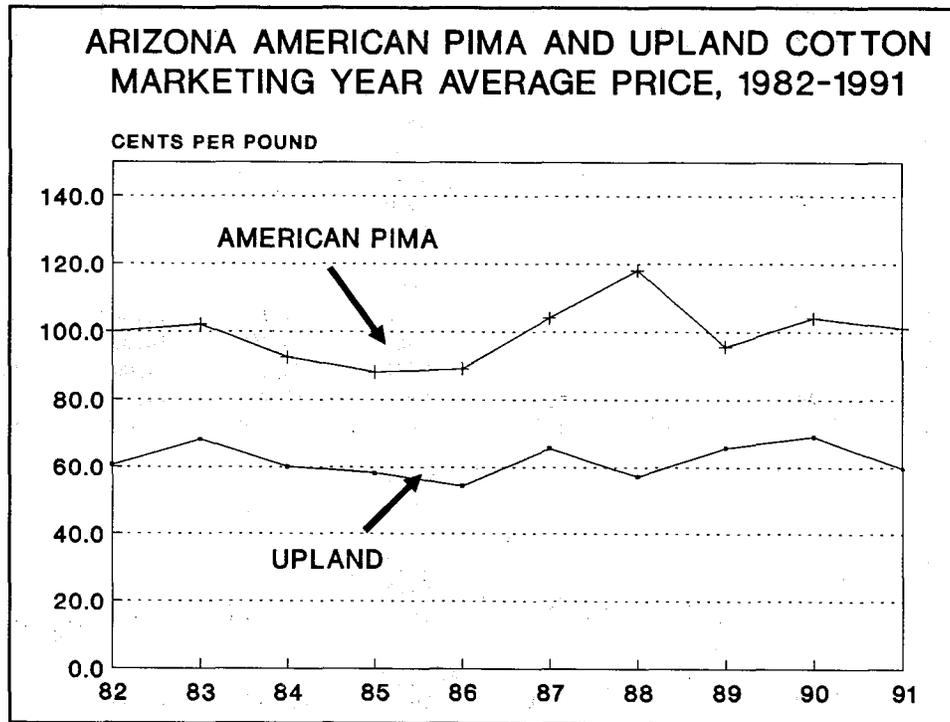
**COTTONSEED: Production, disposition, price, and value, Arizona, 1987-91**

Year	Production	Farm disposition		Used for planting 2/	Marketing year average price 3/	Value of production	Value of sales to oil mills
		Sales to oil mills	Other uses 1/				
	1,000 tons				Dol. per ton	1,000 dollars	
1987	390.0	257.0	133.0	4.3	95.50	37,245	24,544
1988	433.0	259.0	174.0	4.4	129.00	55,857	33,411
1989	423.0	246.0	177.0	4.3	111.00	46,953	27,306
1990	380.0	194.0	186.0	4.2	136.00	51,680	26,384
1991	409.0	237.0	172.0	3.9	82.00	33,538	19,434

1/ Includes planting seed, exports, inter-farm sales, shrinkage, losses, and other uses.

2/ Included in "other" farm disposition. Planting seed from previous year's crop.

3/ Average price for the August through July marketing season.



## 1991 ARIZONA AGRICULTURAL STATISTICS

## DURUM WHEAT: Acreage, yield, and production, Arizona, by counties, 1987-91

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 1/	Tons 1/		Acres		Lbs. 1/	Tons 1/
<b>APACHE</b>					<b>COCHISE</b>				
1987	*				1987	*			
1988	*				1988	*			
1989	*				1989	*			
1990	*				1990	*			
1991	*				1991	*			
<b>COCONINO</b>					<b>GILA</b>				
1987	*				1987	0			
1988	0				1988	*			
1989	0				1989	*			
1990	0				1990	*			
1991	0				1991	*			
<b>GRAHAM</b>					<b>GREENLEE</b>				
1987	800	800	5,100	2,040	1987	*			
1988	*				1988	*			
1989	500	400	4,200	840	1989	*			
1990	*				1990	*			
1991	*				1991	*			
<b>LA PAZ</b>					<b>MARICOPA</b>				
1987	4,500	4,500	4,730	10,650	1987	12,000	11,800	5,550	32,730
1988	3,400	3,300	5,360	8,850	1988	16,500	16,200	5,580	45,210
1989	6,000	6,000	5,730	17,190	1989	28,000	27,500	5,820	80,030
1990	3,000	3,000	6,200	9,300	1990	12,000	11,200	5,710	31,950
1991	2,000	2,000	6,000	6,000	1991	12,000	11,500	5,700	32,780
<b>MOHAVE</b>					<b>NAVAJO</b>				
1987	0				1987	*			
1988	*				1988	*			
1989	*				1989	*			
1990	*				1990	*			
1991	*				1991	*			
<b>PIMA</b>					<b>PINAL</b>				
1987	*				1987	15,300	14,800	4,630	34,260
1988	*				1988	14,100	14,000	4,280	30,000
1989	*				1989	22,000	21,800	4,440	48,400
1990	1,800	1,800	6,000	5,400	1990	14,200	14,100	5,110	36,000
1991	1,300	1,300	5,640	3,670	1991	10,800	10,800	5,400	29,160
<b>SANTA CRUZ</b>					<b>YAVAPAI</b>				
1987	0				1987	0			
1988	0				1988	0			
1989	*				1989	*			
1990	0				1990	*			
1991	0				1991	*			
<b>YUMA</b>					<b>ARIZONA</b>				
1987	10,800	10,800	5,560	30,000	1987	46,000	45,000	5,100	114,750
1988	13,200	13,100	5,720	37,500	1988	51,000	50,000	5,160	129,000
1989	24,000	23,900	5,680	70,270	1989	85,000	84,000	5,400	226,800
1990	12,000	11,900	6,130	36,450	1990	45,000	44,000	5,640	124,080
1991	12,000	11,500	6,000	34,500	1991	40,000	39,000	5,700	111,150

\* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 60 pound bushels and rounded.

**DURUM WHEAT: Acreage, yield, production, price, and value, Arizona, 1987-91**

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	Acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1987	46,000	45,000	5,100	114,750	107.30	12,317
1988	51,000	50,000	5,160	129,000	131.70	16,985
1989	85,000	84,000	5,400	226,800	137.30	31,147
1990	45,000	44,000	5,640	124,080	121.70	15,096
1991	40,000	39,000	5,700	111,150	120.00	13,338

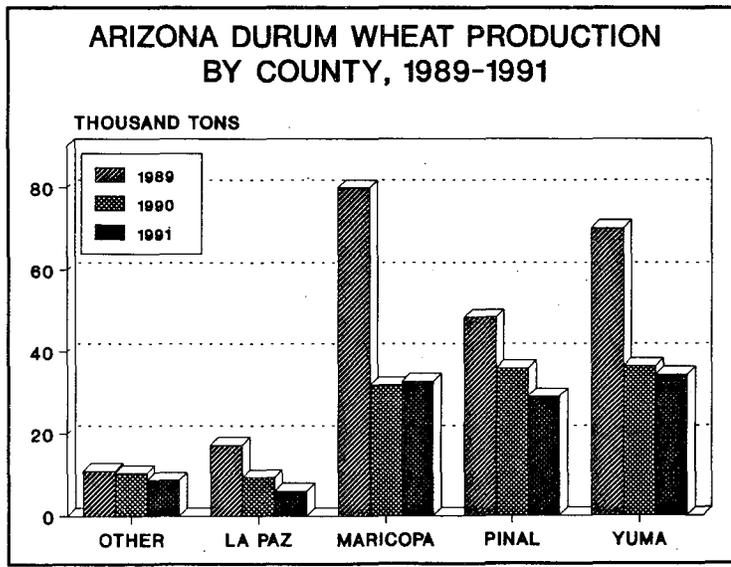
1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.  
 2/ Converted from 60 pound bushels and rounded.

**DURUM WHEAT: Farm marketings, Arizona, 1986/87-1990/91**

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	Percent											
1986/87	52	37	2	1	1	1	1	1	1	1	1	1
1987/88	83	2	1	1	1	3	1	1	3	2	1	1
1988/89	59	12	13	8	1	1	1	1	1	1	1	1
1989/90	10	72	6	2	1	1	1	1	2	1	1	2
1990/91	50	30	11	1	1	1	1	1	1	1	1	1

**DURUM WHEAT: Monthly and marketing year average prices received by growers, Arizona, 1987/88-1991/92**

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Marketing year average
	Dollars per ton												
1987/88	103.00	104.30	100.00	--	--	131.00	--	127.00	128.30	134.70	--	--	107.30
1988/89	120.00	142.70	159.30	144.30	--	--	--	--	--	--	--	--	131.70
1989/90	134.70	140.00	135.70	130.30	--	--	--	114.00	120.00	--	--	120.00	137.30
1990/91	120.00	124.70	120.70	--	--	--	--	--	--	--	--	--	121.70
1991/92	115.70	121.30	--	130.00	--	--	--	--	128.30	--	--	--	120.00



## 1991 ARIZONA AGRICULTURAL STATISTICS

## OTHER WHEAT: Acreage, yield, and production, Arizona, by counties, 1987-91

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres	Lbs. 1/	Tons 1/		Acres	Lbs. 1/	Tons 1/		
<b>APACHE</b>				<b>COCHISE</b>					
1987	*			1987	*				
1988	*			1988	*				
1989	*			1989	*				
1990	*			1990	*				
1991	*			1991	*				
<b>COCONINO</b>				<b>GILA</b>					
1987	*			1987	0				
1988	*			1988	0				
1989	*			1989	0				
1990	*			1990	*				
1991	*			1991	0				
<b>GRAHAM</b>				<b>GREENLEE</b>					
1987	600	500	3,360	840	1987	*			
1988	*				1988	*			
1989	500	400	3,840	770	1989	*			
1990	*				1990	*			
1991	*				1991	*			
<b>LA PAZ</b>				<b>MARICOPA</b>					
1987	5,100	5,100	5,680	14,490	1987	18,900	18,700	6,370	59,540
1988	8,900	8,800	5,730	25,220	1988	12,800	12,700	6,590	41,850
1989	8,000	7,900	5,380	21,240	1989	10,500	10,400	6,180	32,140
1990	13,000	13,000	6,070	39,450	1990	15,100	14,900	5,460	40,680
1991	4,000	4,000	6,000	12,000	1991	8,000	7,900	6,060	23,940
<b>MOHAVE</b>				<b>NAVAJO</b>					
1987	*				1987	*			
1988	*				1988	*			
1989	*				1989	*			
1990	*				1990	*			
1991	*				1991	*			
<b>PIMA</b>				<b>PINAL</b>					
1987	*				1987	1,300	1,200	4,750	2,850
1988	*				1988	1,500	1,400	5,320	3,720
1989	*				1989	1,000	1,000	5,400	2,700
1990	600	500	4,800	1,200	1990	1,500	1,500	6,000	4,500
1991	500	500	4,800	1,200	1991	2,400	2,100	5,700	5,990
<b>SANTA CRUZ</b>				<b>YAVAPAI</b>					
1987	*				1987	800	500	1,990	500
1988	*				1988	600	400	2,180	430
1989	0				1989	*			
1990	0				1990	*			
1991	0				1991	*			
<b>YUMA</b>				<b>ARIZONA</b>					
1987	16,000	15,900	5,540	44,010	1987	45,000	44,000	5,700	125,400
1988	9,000	8,900	5,830	25,950	1988	36,000	35,000	5,880	102,900
1989	12,000	11,800	5,700	33,630	1989	35,000	34,000	5,580	94,860
1990	21,000	20,900	5,820	60,810	1990	55,000	54,000	5,700	153,900
1991	13,400	13,100	6,300	41,270	1991	30,000	29,000	6,000	87,000

\* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 60 pound bushels and rounded.

**OTHER WHEAT: Acreage, yield, production, price, and value, Arizona, 1987-91**

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	Acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1987	45,000	44,000	5,700	125,400	96.30	12,080
1988	36,000	35,000	5,880	102,900	131.00	13,480
1989	35,000	34,000	5,580	94,860	139.70	13,249
1990	55,000	54,000	5,700	153,900	125.00	19,238
1991	30,000	29,000	6,000	87,000	118.30	10,295

1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.

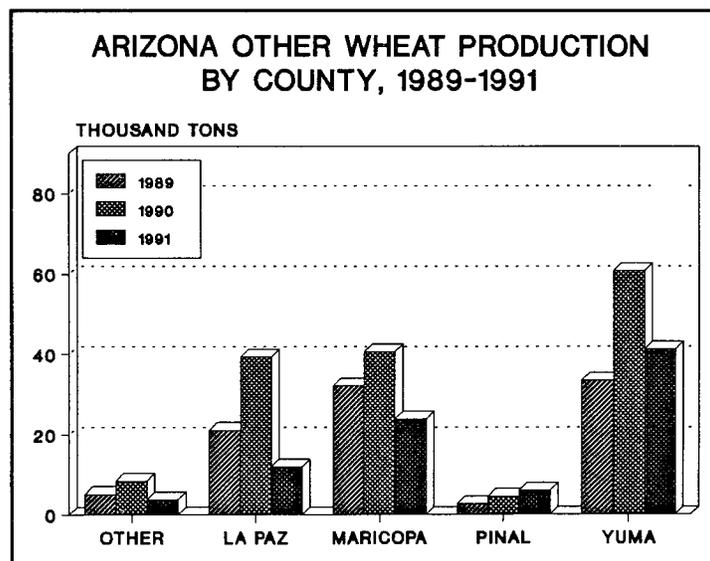
2/ Converted from 60 pound bushels and rounded.

**OTHER WHEAT: Farm marketings, Arizona, 1986/87-1990/91**

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
Percent												
1986/87	22	45	14	4	1	1	1	7	2	1	1	1
1987/88	27	37	23	4	1	2	1	1	1	1	1	1
1988/89	25	35	18	3	3	2	3	3	2	1	1	1
1989/90	1	80	10	1	1	1	1	1	1	1	1	1
1990/91	1	88	2	1	1	1	1	1	1	1	1	1

**OTHER WHEAT: Monthly and marketing year average prices received by growers, Arizona, 1987/88-1991/92**

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Marketing year average
Dollars per ton													
1987/88	95.70	95.70	89.70	95.00	--	95.00	--	--	--	--	--	--	96.30
1988/89	--	--	--	130.00	--	--	--	--	--	--	--	--	131.00
1989/90	--	142.00	122.00	--	--	--	--	--	--	--	--	--	139.70
1990/91	--	--	--	--	--	--	--	--	--	--	--	--	125.00
1991/92	--	111.00	110.30	--	--	--	115.00	--	120.00	--	--	--	118.30



## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALL WHEAT: Acreage, yield, and production, Arizona, by counties, 1987-91

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 1/	Tons 1/		Acres		Lbs. 1/	Tons 1/
<b>APACHE</b>					<b>COCHISE</b>				
1987	*				1987	900	700	3,670	1,280
1988	*				1988	1,300	1,200	5,120	3,070
1989	700	700	2,670	930	1989	1,200	1,000	4,730	2,360
1990	600	500	2,760	690	1990	1,300	1,200	6,000	3,600
1991	700	500	2,860	710	1991	*			
<b>COCONINO</b>					<b>GILA</b>				
1987	*				1987	0			
1988	*				1988	*			
1989	*				1989	*			
1990	*				1990	*			
1991	*				1991	*			
<b>GRAHAM</b>					<b>GREENLEE</b>				
1987	1,400	1,300	4,430	2,880	1987	800	800	4,640	1,850
1988	900	700	4,120	1,440	1988	700	700	4,460	1,560
1989	1,000	800	4,020	1,610	1989	900	900	4,450	2,000
1990	1,100	1,000	6,000	3,000	1990	700	600	5,100	1,530
1991	1,400	1,300	5,810	3,770	1991	*			
<b>LA PAZ</b>					<b>MARICOPA</b>				
1987	9,600	9,600	5,240	25,140	1987	30,900	30,500	6,050	92,270
1988	12,300	12,100	5,630	34,070	1988	29,300	28,900	6,020	87,060
1989	14,000	13,900	5,530	38,430	1989	38,500	37,900	5,920	112,160
1990	16,000	16,000	6,100	48,750	1990	27,100	26,100	5,570	72,630
1991	6,000	6,000	6,000	18,000	1991	20,000	19,400	5,850	56,720
<b>MOHAVE</b>					<b>NAVAJO</b>				
1987	*				1987	500	500	2,260	560
1988	1,100	1,100	3,630	2,000	1988	500	300	1,800	270
1989	1,400	1,400	3,990	2,790	1989	*			
1990	900	800	3,980	1,590	1990	*			
1991	*				1991	*			
<b>PIMA</b>					<b>PINAL</b>				
1987	1,700	1,400	4,370	3,060	1987	16,600	16,000	4,640	37,110
1988	1,700	1,500	4,800	3,600	1988	15,600	15,400	4,380	33,720
1989	2,000	1,900	5,070	4,820	1989	23,000	22,800	4,480	51,100
1990	2,400	2,300	5,740	6,600	1990	15,700	15,600	5,190	40,500
1991	1,800	1,800	5,410	4,870	1991	13,200	12,900	5,450	35,150
<b>SANTA CRUZ</b>					<b>YAVAPAI</b>				
1987	*				1987	800	500	1,990	500
1988	*				1988	600	400	2,180	430
1989	*				1989	500	300	1,980	300
1990	0				1990	700	600	3,400	1,020
1991	0				1991	*			
<b>YUMA</b>					<b>ARIZONA</b>				
1987	26,800	26,700	5,540	74,010	1987	91,000	89,000	5,390	240,150
1988	22,200	22,000	5,770	63,450	1988	87,000	85,000	5,450	231,900
1989	36,000	35,700	5,820	103,900	1989	120,000	118,000	5,450	321,660
1990	33,000	32,800	5,930	97,260	1990	100,000	98,000	5,680	277,980
1991	25,400	24,600	6,160	75,770	1991	70,000	68,000	5,830	198,150

\* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 60 pound bushels and rounded.

ALL WHEAT: Acreage, yield, production, price, and value, Arizona, 1987-91

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	Acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1987	91,000	89,000	5,390	240,150	101.70	24,397
1988	87,000	85,000	5,450	231,900	131.30	30,465
1989	120,000	118,000	5,450	321,660	138.00	44,396
1990	100,000	98,000	5,680	277,980	121.70	34,334
1991	70,000	68,000	5,830	198,150	120.00	23,633

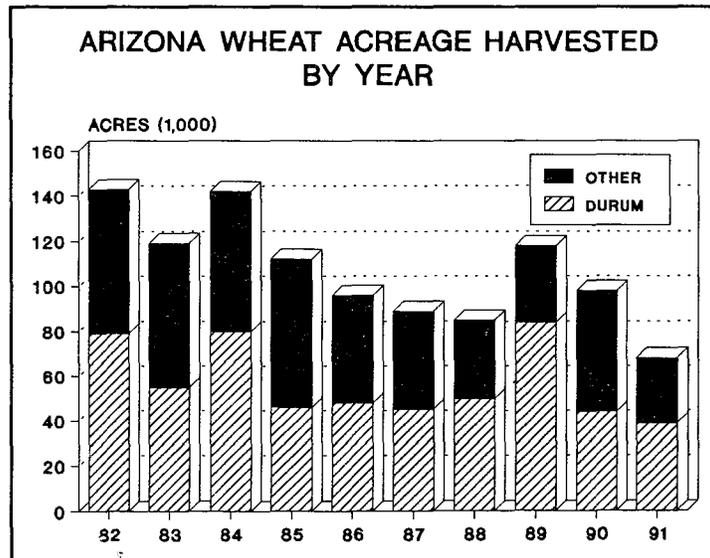
1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.  
 2/ Converted from 60 pound bushels and rounded.

ALL WHEAT: Farm marketings, Arizona, 1986/87-1990/91

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.
	Percent											
1986/87	41	40	7	2	1	1	1	3	1	1	1	1
1987/88	63	15	9	2	1	3	1	1	2	1	1	1
1988/89	50	13	13	16	1	1	1	1	1	1	1	1
1989/90	10	73	5	2	1	1	1	1	2	1	1	2
1990/91	50	30	11	1	1	1	1	1	1	1	1	1

ALL WHEAT: Monthly and marketing year average prices received by growers, Arizona, 1987/88-1991/92

Crop year	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	Marketing year average
	Dollars per ton												
1987/88	102.00	96.30	90.30	95.00	--	119.30	--	127.00	128.30	134.70	--	--	101.70
1988/89	120.00	142.70	159.30	134.30	--	--	--	--	--	--	--	--	131.30
1989/90	134.70	140.30	133.30	130.30	--	--	--	114.00	120.00	--	--	120.00	138.00
1990/91	120.00	124.70	120.70	--	--	--	--	--	--	--	--	--	121.70
1991/92	115.70	118.00	110.30	130.00	--	--	115.00	--	124.00	--	--	--	120.00



## 1991 ARIZONA AGRICULTURAL STATISTICS

## BARLEY: Acreage, yield, and production, Arizona, by counties, 1987-91

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres		Lbs. 1/	Tons 1/		Acres		Lbs. 1/	Tons 1/
<b>APACHE</b>					<b>COCHISE</b>				
1987	*				1987	500	500	4,610	1,150
1988	*				1988	*			
1989	*				1989	500	400	5,290	1,060
1990	700	*			1990	*			
1991	*				1991	1,400	1,300	5,280	3,430
<b>COCONINO</b>					<b>GILA</b>				
1987	0				1987	*			
1988	0				1988	*			
1989	0				1989	*			
1990	0				1990	0			
1991	0				1991	0			
<b>GRAHAM</b>					<b>GREENLEE</b>				
1987	1,600	1,200	5,060	3,040	1987	*			
1988	900	700	5,690	1,990	1988	*			
1989	800	600	5,500	1,650	1989	*			
1990	700	600	5,680	1,700	1990	*			
1991	1,200	1,200	6,080	3,650	1991	*			
<b>LA PAZ</b>					<b>MARICOPA</b>				
1987	*				1987	9,200	8,200	4,750	19,480
1988	*				1988	4,800	3,900	5,230	10,200
1989	*				1989	5,100	3,900	5,120	9,990
1990	0				1990	7,300	6,800	5,570	18,930
1991	2/				1991	6,800	6,100	5,840	17,810
<b>MOHAVE</b>					<b>NAVAJO</b>				
1987	700	700	4,730	1,660	1987	*			
1988	*				1988	*			
1989	*				1989	*			
1990	0				1990	0			
1991	0				1991	0			
<b>PIMA</b>					<b>PINAL</b>				
1987	1,300	700	3,770	1,320	1987	8,000	7,400	4,830	17,890
1988	500	300	3,920	590	1988	5,000	4,400	5,130	11,280
1989	*				1989	5,000	4,100	4,980	10,210
1990	*				1990	6,400	5,900	4,410	13,020
1991	*				1991	9,600	9,100	5,960	27,120
<b>SANTA CRUZ</b>					<b>YAVAPAI</b>				
1987	*				1987	*			
1988	*				1988	*			
1989	*				1989	*			
1990	*				1990	*			
1991	0				1991	*			
<b>YUMA</b>					<b>ARIZONA</b>				
1987	2,100	2,100	5,110	5,360	1987	25,000	22,000	4,750	52,270
1988	2,100	2,000	4,680	4,680	1988	15,000	13,000	4,990	32,450
1989	1,900	1,700	4,880	4,150	1989	15,000	12,000	4,940	29,660
1990	1,400	1,200	5,040	3,020	1990	17,000	15,000	5,040	37,800
1991	2,000	1,800	4,880	4,390	1991	22,000	20,000	5,760	57,600

\* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

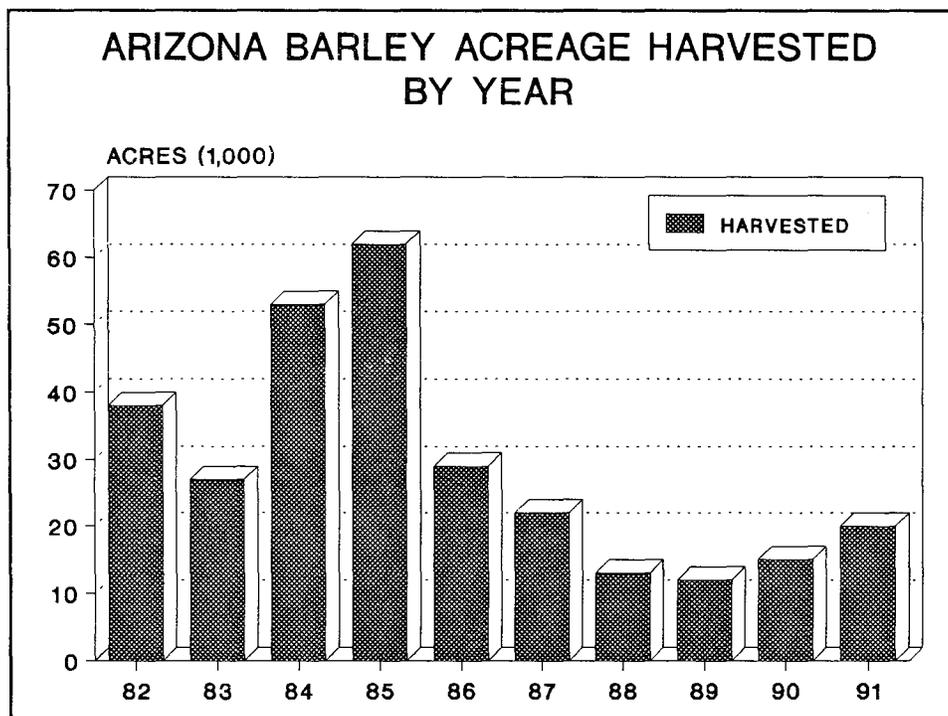
1/ Converted from 48 pound bushels and rounded.

2/ Acres and production included with Yuma County to avoid disclosure of individual operations.

**BARLEY: Acreage, yield, production, price, and value, Arizona, 1987-91**

Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	Acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1987	25,000	22,000	4,750	52,270	91.30	4,770
1988	15,000	13,000	4,990	32,450	97.90	3,177
1989	15,000	12,000	4,940	29,660	129.20	3,832
1990	17,000	15,000	5,040	37,800	116.30	4,394
1991	22,000	20,000	5,760	57,600	108.30	6,240

1/ Average price for the May through April marketing season. Prices do not include an allowance for loans outstanding and government purchases.  
 2/ Converted from 48 pound bushels and rounded.



## 1991 ARIZONA AGRICULTURAL STATISTICS

## CORN: Acreage, yield, and production, Arizona, by counties, 1987-91

County and year	Planted for all purposes	FOR GRAIN			County and year	Planted for all purposes	FOR GRAIN		
		Harvested	Yield per acre	Production			Harvested	Yield per acre	Production
	Acres	Lbs. 1/	Tons 1/		Acres	Lbs. 1/	Tons 1/		
<b>APACHE</b>				<b>COCHISE</b>					
1987	0			1987	8,600	6,900	8,340	28,790	
1988	0			1988	7,600	6,400	9,460	30,280	
1989	0			1989	9,000	7,100	8,570	30,440	
1990	*			1990	5,500	3,700	9,390	17,360	
1991	0			1991	4,500	2,400	9,800	11,760	
<b>COCONINO</b>				<b>GILA</b>					
1987	*			1987	*				
1988	*			1988	0				
1989	*			1989	0				
1990	0			1990	0				
1991	0			1991	0				
<b>GRAHAM</b>				<b>GREENLEE</b>					
1987	3,900	3,500	9,800	17,150	1987	*			
1988	3,200	2,500	10,980	13,720	1988	500	300	7,900	1,180
1989	3,400	2,400	9,760	11,700	1989	800	400	7,000	1,400
1990	2,500	1,500	9,820	7,360	1990	500	200	5,600	560
1991	2,600	1,400	10,998	7,700	1991	*			
<b>LA PAZ</b>				<b>MARICOPA</b>					
1987	1,600	1,600	6,270	5,020	1987	5,700	1,000	4,760	2,380
1988	1,200	1,200	5,990	3,600	1988	3,600	800	5,600	2,240
1989	1,500	1,500	6,500	4,870	1989	3,500	700	5,360	1,880
1990	500	500	8,960	2,240	1990	4,500	800	7,000	2,800
1991	*				1991	5,000	400	6,300	1,260
<b>MOHAVE</b>				<b>NAVAJO</b>					
1987	0				1987	300	0		
1988	0				1988	400	0		
1989	0				1989	*	0		
1990	0				1990	*			
1991	0				1991	*			
<b>PIMA</b>				<b>PINAL</b>					
1987	*				1987	500	300	4,760	710
1988	*				1988	900	300	5,430	810
1989	*				1989	500	100	5,040	250
1990	*				1990	*			
1991	*				1991	600	100	5,600	280
<b>SANTA CRUZ</b>				<b>YAVAPAI</b>					
1987	*				1987	700	700	6,440	2,250
1988	0				1988	500	500	5,710	1,430
1989	*				1989	*			
1990	*				1990	*			
1991	*				1991	*			
<b>YUMA</b>				<b>ARIZONA</b>					
1987	500	500	5,490	1,370	1987	23,000	15,000	7,840	58,800
1988	600	600	5,990	1,800	1988	19,000	13,000	8,680	56,420
1989	*				1989	20,000	13,000	8,120	52,780
1990	*				1990	15,000	7,000	8,960	31,360
1991	0				1991	14,000	5,000	9,520	23,800

\* Acres planted and/or harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Converted from 56 pound bushels and rounded.

**CORN: Acreage, yield, production, price, and value, Arizona, 1987-91**

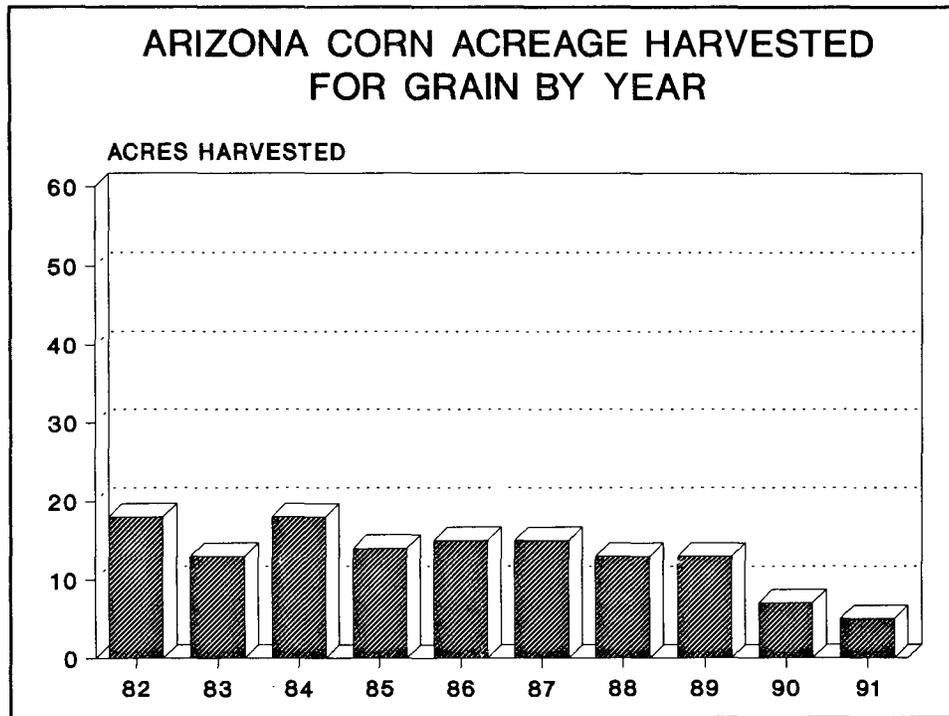
Year	Planted for all purposes	FOR GRAIN				
		Harvested	Yield per acre	Production	Marketing year average price 1/	Value of production
	Acres		Lbs. 2/	Tons 2/	Dol. per ton 2/	1,000 dol.
1987	23,000	15,000	7,840	58,800	81.80	4,809
1988	19,000	13,000	8,680	56,420	112.50	6,347
1989	20,000	13,000	8,120	52,780	107.10	5,655
1990	15,000	7,000	8,960	31,360	112.50	3,528
1991	14,000	5,000	9,520	23,800	100.00	2,380

1/ Average price for the September through August marketing season. Prices do not include an allowance for loans outstanding and government purchases.

2/ Converted from 56 pound bushels and rounded.

**CORN FOR SILAGE: Acreage, yield, production, price, and value, Arizona, 1987-91**

Year	Harvested	Yield per acre	Production	Marketing year average price	Value of production
	Acres	Tons	Tons	Dol. per ton	1,000 dol.
1987	8,000	23.0	184,000	20.00	3,680
1988	6,000	27.0	162,000	20.00	3,240
1989	7,000	27.0	189,000	20.00	3,780
1990	8,000	27.0	216,000	21.00	4,536
1991	9,000	28.0	252,000	24.00	6,048



## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALFALFA HAY: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Tons	Tons		Acres	Tons	Tons
<b>APACHE</b>				<b>COCHISE</b>			
1987	3,100	3.7	11,400	1987	7,300	4.9	35,500
1988	3,600	4.3	15,500	1988	6,900	5.7	39,100
1989	3,000	3.4	10,200	1989	6,500	5.4	35,000
1990	3,000	3.0	9,000	1990	7,000	5.1	36,000
1991	2,000	3.0	6,000	1991	7,000	3.9	27,000
<b>COCONINO</b>				<b>GILA</b>			
1987	500	3.4	1,700	1987	0		
1988	*			1988	*		
1989	*			1989	*		
1990	*			1990	*		
1991	*			1991	*		
<b>GRAHAM</b>				<b>GREENLEE</b>			
1987	5,200	5.9	30,600	1987	500	5.8	2,900
1988	4,400	5.8	25,700	1988	500	6.6	3,300
1989	3,500	5.7	20,000	1989	*		
1990	4,000	6.0	24,000	1990	*		
1991	4,000	6.0	24,000	1991	*		
<b>LA PAZ</b>				<b>MARICOPA</b>			
1987	40,000	8.1	324,000	1987	48,500	8.1	394,800
1988	36,400	8.3	300,500	1988	46,400	8.1	376,000
1989	35,200	8.0	280,000	1989	45,800	7.6	350,000
1990	42,000	8.6	362,000	1990	48,000	7.3	350,000
1991	44,000	8.0	351,000	1991	50,000	8.0	398,000
<b>MOHAVE</b>				<b>NAVAJO</b>			
1987	3,100	4.6	14,400	1987	3,100	3.7	11,600
1988	4,000	6.5	26,000	1988	3,100	3.8	11,900
1989	6,000	8.8	53,000	1989	2,500	3.2	8,000
1990	7,500	8.0	60,000	1990	2,000	2.5	5,000
1991	7,500	7.2	54,000	1991	2,000	3.5	7,000
<b>PIMA</b>				<b>PINAL</b>			
1987	1,000	5.8	5,800	1987	11,400	8.0	91,600
1988	1,500	6.7	10,000	1988	11,600	7.9	91,500
1989	1,200	7.1	8,500	1989	11,100	8.1	90,000
1990	1,800	8.6	15,500	1990	11,000	8.8	97,000
1991	1,800	8.9	16,000	1991	12,000	7.9	94,500
<b>SANTA CRUZ</b>				<b>YAVAPAI</b>			
1987	500	5.8	2,900	1987	4,100	4.4	17,900
1988	600	6.2	3,700	1988	2,900	3.8	11,000
1989	700	5.6	3,900	1989	2,500	4.2	10,500
1990	500	6.0	3,000	1990	2,000	4.0	8,000
1991	500	6.0	3,000	1991	2,000	5.5	11,000
<b>YUMA</b>				<b>ARIZONA</b>			
1987	31,700	9.6	302,900	1987	160,000	7.8	1,248,000
1988	32,600	9.5	309,000	1988	155,000	7.9	1,225,000
1989	31,100	8.6	267,000	1989	150,000	7.6	1,140,000
1990	35,000	9.4	330,000	1990	165,000	7.9	1,304,000
1991	36,000	8.7	313,000	1991	170,000	7.7	1,309,000

\* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Does not include green chop or grazed.

## OTHER HAY: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Tons	Tons		Acres	Tons	Tons
<b>APACHE</b>				<b>COCHISE</b>			
1987	1,200	3.0	3,600	1987	1,000	3.4	3,400
1988	1,100	3.6	4,000	1988	800	2.4	1,900
1989	1,200	2.2	2,600	1989	800	3.9	3,100
1990	1,200	2.5	3,000	1990	600	1.7	1,000
1991	1,000	2.5	2,500	1991	600	3.3	2,000
<b>COCONINO</b>				<b>GILA</b>			
1987	500	3.8	1,900	1987	*		
1988	*			1988	*		
1989	500	3.0	1,500	1989	*		
1990	500	2.0	1,000	1990	*		
1991	500	3.0	1,500	1991	*		
<b>GRAHAM</b>				<b>GREENLEE</b>			
1987	1,000	4.1	4,100	1987	*		
1988	800	2.3	1,800	1988	*		
1989	800	3.0	2,400	1989	*		
1990	500	4.0	2,000	1990	*		
1991	500	4.0	2,000	1991	*		
<b>LA PAZ</b>				<b>MARICOPA</b>			
1987	6,000	5.7	34,000	1987	5,800	4.6	26,400
1988	5,000	4.0	20,000	1988	5,000	4.1	20,500
1989	6,500	3.8	25,000	1989	6,800	4.3	29,000
1990	4,000	2.0	8,000	1990	5,000	4.4	22,000
1991	5,000	4.2	21,000	1991	4,600	4.1	19,000
<b>MOHAVE</b>				<b>NAVAJO</b>			
1987	800	3.0	2,400	1987	500	2.6	1,300
1988	700	3.0	2,100	1988	*		
1989	1,300	3.0	3,900	1989	*		
1990	1,000	3.0	3,000	1990	*		
1991	1,300	3.5	4,600	1991	*		
<b>PIMA</b>				<b>PINAL</b>			
1987	*			1987	1,000	3.6	3,600
1988	*			1988	700	3.0	2,100
1989	*			1989	1,000	3.0	3,000
1990	500	4.0	2,000	1990	1,000	2.0	2,000
1991	500	4.0	2,000	1991	1,100	3.2	3,500
<b>SANTA CRUZ</b>				<b>YAVAPAI</b>			
1987	500	2.6	1,300	1987	2,600	2.5	6,500
1988	*			1988	2,200	2.3	5,000
1989	*			1989	2,200	2.5	5,500
1990	*			1990	1,500	3.0	4,500
1991	*			1991	1,200	3.3	3,900
<b>YUMA</b>				<b>ARIZONA</b>			
1987	8,600	5.3	45,300	1987	30,000	4.5	135,000
1988	7,000	5.3	37,100	1988	25,000	4.0	100,000
1989	12,500	4.9	61,000	1989	35,000	4.0	140,000
1990	13,000	5.0	64,500	1990	30,000	3.9	117,000
1991	12,500	4.1	51,000	1991	30,000	3.9	117,000

\* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Does not include green chop or grazed.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALL HAY: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Tons	Tons		Acres	Tons	Tons
<b>APACHE</b>				<b>COCHISE</b>			
1987	4,300	3.5	15,000	1987	8,300	4.7	38,900
1988	4,700	4.1	19,500	1988	7,700	5.3	41,000
1989	4,200	3.0	12,800	1989	7,300	5.2	38,100
1990	4,200	2.9	12,000	1990	7,600	4.9	37,000
1991	3,000	2.8	8,500	1991	7,600	3.8	29,000
<b>COCONINO</b>				<b>GILA</b>			
1987	1,000	3.6	3,600	1987	*		
1988	800	3.4	2,700	1988	*		
1989	*			1989	*		
1990	*			1990	700	2.1	1,500
1991	*			1991	700	2.1	1,500
<b>GRAHAM</b>				<b>GREENLEE</b>			
1987	6,200	5.6	34,700	1987	*		
1988	5,200	5.3	27,500	1988	*		
1989	4,300	5.2	22,400	1989	700	3.9	2,700
1990	4,500	5.8	26,000	1990	700	5.7	4,000
1991	4,500	5.8	26,000	1991	700	5.7	4,000
<b>LA PAZ</b>				<b>MARICOPA</b>			
1987	46,000	7.8	358,000	1987	54,300	7.8	421,200
1988	41,400	7.7	320,500	1988	51,400	7.7	396,500
1989	41,700	7.3	305,000	1989	52,600	7.2	379,000
1990	46,000	8.0	370,000	1990	53,000	7.0	372,000
1991	49,000	7.6	372,000	1991	54,600	7.6	417,000
<b>MOHAVE</b>				<b>NAVAJO</b>			
1987	3,900	4.3	16,800	1987	3,600	3.6	12,900
1988	4,700	6.0	28,100	1988	*		
1989	7,300	7.8	56,900	1989	*		
1990	8,500	7.4	63,000	1990	*		
1991	8,800	6.7	58,600	1991	*		
<b>PIMA</b>				<b>PINAL</b>			
1987	*			1987	12,400	7.7	95,200
1988	*			1988	12,300	7.6	93,600
1989	*			1989	12,100	7.7	93,000
1990	2,300	7.6	17,500	1990	12,000	8.3	99,000
1991	2,300	7.8	18,000	1991	13,100	7.5	98,000
<b>SANTA CRUZ</b>				<b>YAVAPAI</b>			
1987	1,000	4.2	4,200	1987	6,700	3.6	24,400
1988	*			1988	5,100	3.1	16,000
1989	*			1989	4,700	3.4	16,000
1990	*			1990	3,500	3.6	12,500
1991	*			1991	3,200	4.7	14,900
<b>YUMA</b>				<b>ARIZONA</b>			
1987	40,300	8.6	348,200	1987	190,000	7.28	1,383,000
1988	39,600	8.7	346,100	1988	180,000	7.36	1,325,000
1989	43,600	7.5	328,000	1989	185,000	6.92	1,280,000
1990	48,000	8.2	394,500	1990	195,000	7.29	1,421,000
1991	48,500	7.5	364,000	1991	200,000	7.13	1,426,000

\* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations for alfalfa or other hay.  
1/ Does not include green chop or grazed.

**ALL HAY: Acreage, yield, production, price, and value, Arizona, 1987-91 1/**

Year	Harvested	Yield per acre	Production	Marketing year average price 2/	Value of production
	Acres	Tons	Tons	Dol. per ton	1,000 dol.
1987	190,000	7.28	1,383,000	81.50	112,715
1988	180,000	7.36	1,325,000	89.50	118,588
1989	185,000	6.92	1,280,000	98.50	126,080
1990	195,000	7.29	1,421,000	96.00	135,439
1991	200,000	7.13	1,426,000	77.00	109,122

1/ Does not include green chop or grazed.

2/ Average price for the April through March marketing season.

**ALL HAY: Farm marketings, Arizona, 1986/87-1990/91**

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.
	Percent											
1986/87	12	18	6	9	5	6	8	10	5	5	8	8
1987/88	14	16	8	9	6	6	6	4	6	5	5	15
1988/89	15	15	10	13	10	7	6	7	3	2	3	9
1989/90	14	17	9	12	9	6	7	7	4	3	4	8
1990/91	13	15	13	13	6	4	5	7	5	5	5	9

**ALL HAY: Monthly and marketing year average prices received by growers, Arizona, 1987/88-1991/92 1/**

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Marketing year average
	Dollars per ton												
1987/88	86.00	83.00	84.00	65.00	63.00	68.00	69.00	73.00	84.00	93.00	86.00	97.00	81.50
1988/89	95.00	86.00	78.00	77.00	78.00	89.00	90.00	89.00	96.00	103.00	106.00	119.00	89.50
1989/90	119.00	96.00	86.00	78.00	84.00	86.00	94.00	105.00	108.00	108.00	116.00	118.00	98.50
1990/91	120.00	99.00	87.00	86.00	81.00	88.00	88.00	98.00	104.00	89.00	94.00	103.00	96.00
1991/92	101.00	91.00	76.00	66.00	57.00	57.00	56.00	77.00	76.00	69.00	78.00	75.00	77.00

1/ Does not include green chop or grazed.

**ALFALFA HAY: Monthly prices received by growers, Arizona, 1987/88-1991/92 1/**

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Marketing year average
	Dollars per ton												
1987/88	87.00	83.00	85.00	68.00	63.00	72.00	72.00	78.00	88.00	95.00	87.00	97.00	2/
1988/89	95.00	86.00	81.00	81.00	81.00	94.00	94.00	100.00	100.00	106.00	108.00	120.00	2/
1989/90	120.00	98.00	90.00	83.00	85.00	90.00	99.00	109.00	110.00	110.00	120.00	121.00	102.00
1990/91	120.00	99.00	87.00	86.00	81.00	89.00	88.00	98.00	105.00	90.00	95.00	106.00	97.00
1991/92	101.00	91.00	76.00	68.00	56.00	55.00	55.00	77.00	76.00	75.00	78.00	75.00	78.00

1/ Does not include green chop or grazed

2/ Not available.

**OTHER HAY: Monthly prices received by growers, Arizona 1987/88-1991/92 1/**

Crop year	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Marketing year average
	Dollars per ton												
1987/88	54.00	--	51.00	56.00	57.00	54.00	54.00	40.00	52.00	66.00	57.00	--	2/
1988/89	--	--	66.00	70.00	70.00	82.00	80.00	80.00	80.00	75.00	80.00	103.00	2/
1989/90	75.00	75.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
1990/91	--	--	--	78.00	80.00	80.00	80.00	80.00	80.00	80.00	80.00	60.00	76.50
1991/92	--	60.00	--	61.00	78.00	100.00	59.00	--	--	50.00	--	--	60.00

1/ Does not include green chop or grazed.

2/ Not available.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## OTHER FIELD CROPS: Acreage, production, and value, Arizona, 1987-91

Crop	Year	Harvested	Unit	Production	Value of production
		Acres		1,000	1,000 dol.
DRY BEANS	1987	1/	Cwt.		
	1988	1,500		38	1,316
	1989	1,750		44	1,553
	1990	5,000		80	1,600
	1991	2,500		55	770
JOJOBA	1987	9,000	Lb.	900	1,260
	1988	13,000		2,300	5,175
	1989	9,000		1,503	3,006
	1990	9,000		2,250	7,875
	1991	10,000		2,500	5,625
OATS FOR GRAIN	1987	750	Lb.	3,180	215
	1988	1,060		4,650	464
	1989	2,500		8,750	525
	1990	900		3,370	169
	1991	550		2,200	154
PEANUTS	1987	714	Lb.	1,428	343
	1988	772		924	536
	1989	625		900	519
	1990	687		879	558
	1991	526		893	241
POPCORN	1987	200	Lb.	800	104
	1988	200		800	104
	1989	200		800	80
	1990	0			
	1991	15		60	9
SAFFLOWER	1987	2,500	Ton	2.5	450
	1988	750		.9	176
	1989	700		.7	217
	1990	1,000		.8	155
	1991	1/			
SESAME	1987	2,000	Lb.	2,400	480
	1988	0			
	1989	1,400		2,100	525
	1990	2,000		2,116	635
	1991	1,200		1,020	306
SORGHUM	1987	11,000	Ton	27.7	2,317
	1988	4,000		11.2	1,232
	1989	3,000		6.7	672
	1990	1,000		1.7	193
	1991	1,500		3.0	330
SORGHUM SILAGE	1987	3,000	Ton	54	1,080
	1988	1,000		17	306
	1989	3,000		60	1,080
	1990	1,000		20	380
	1991	3,000		75	750

1/ Not available.

Source: Statistics developed with the assistance of the Arizona Cooperative Extension Service and growers and dealers.

## OFF FARM GRAIN STOCKS: Arizona, quarterly, 1987-92 1/

Quarter	1987	1988	1989	1990	1991	1992
Tons 2/						
<u>Wheat</u>						
March 1	61,650	31,080	41,700	43,620	37,140	38,250
June 1 3/	25,530	11,700	17,940	22,650	27,900	
September 1	61,920	83,430	50,730	57,150	107,790	
December 1	40,080	56,220	50,250	56,970	73,440	
<u>Corn</u>						
March 1	43,510	36,710	20,720	21,420	20,920	14,920
June 1	25,930	27,750	16,860	12,660	7,450	
September 1 3/	27,020	16,940	*	*	1,148	
December 1	52,640	33,910	22,510	20,920	23,520	
<u>Barley</u>						
March 1			11,740	3,410	3,050	4,130
June 1 3/	3,890	*	2,540	1,800	2,020	
September 1		10,200	8,040	8,040	28,440	
December 1		14,230	5,040	5,260	11,830	
<u>Sorghum</u>						
March 1				105,500	65,860	29,200
June 1	189,170	125,330	93,100	106,620	43,010	
September 1 3/	242,200	120,850	67,480	*	40,350	
December 1				80,530	42,390	

\* Not published to avoid disclosure of individual operations.

1/ Includes stocks at mills, elevators, warehouses, terminals, processors, and commercial feedlots.

2/ Converted from bushels and rounded

3/ Includes old crop grain only.

## GRAIN STOCKS: Off farm storage facilities December 1, Arizona, 1987-91

Year	Facilities 1/		Storage capacity
	Number		Tons
1987	34		787,500
1988	36		752,250
1989	36		734,250
1990	38		762,500
1991	36		638,500

1/ Includes mills, elevators, warehouses, terminals, processors, and commercial feedlots.

## ON FARM HAY STOCKS: Arizona, 1987-92

Month	1987	1988	1989	1990	1991	1992
Tons						
May 1 1/	25,000	41,000	27,000	26,000	71,000	71,000
December 1	263,000	133,000	115,000	213,000	171,000	

1/ Includes old crop only.

## VEGETABLES, MELONS AND POTATOES

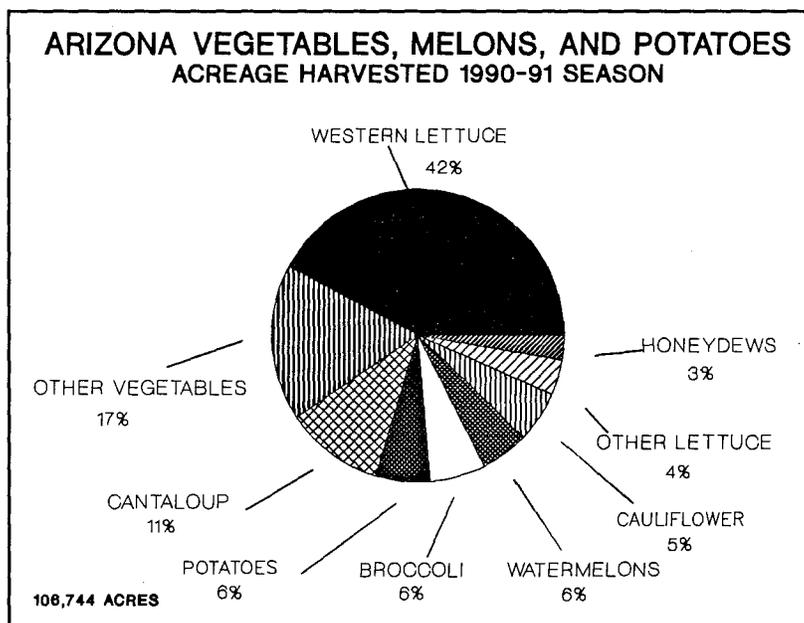
Vegetable growers in Arizona grow a variety of produce ranging from anise to zucchini. The mild winter climate and modern irrigation techniques along with multiple cropping allow vegetable producers to grow crops throughout the year. The seasons for commercial vegetable crops vary by crop, with farmers carefully timing harvests to meet the most advantageous "market window". Produce prices are highly variable and can often turn a money making field of crops into a loss --- overnight.

The summaries for western lettuce, carrots, broccoli and cauliflower reflect the 1990-91 growing season while other vegetable crops included represent the 1991 season. Where possible, monthly average prices are published to illustrate their erratic nature and seasonal fluctuation. Principal vegetables grown in Arizona include lettuce, carrots, broccoli, dry onions and cauliflower. In addition, potatoes, watermelons, cantaloupes and honeydews are major crops. Small acreages of several dozen "other" and "miscellaneous" vegetables are also raised. Over 106,000 acres were devoted to all vegetables, 90,100 to principal vegetables, melons, and potatoes. For the fresh market vegetables covered by the Agricultural Statistics Board, Arizona ranked third nationally in area harvested, production and value of production. California and Florida were ranked first and second.

The total value of all vegetables, melons, and potatoes produced in Arizona in 1991, estimated at \$270.6 million, increased 32.4 percent from the previous year's level. Principal vegetable and melon production accounted for \$247.1 million of the total and was up 35.4 percent from the 1990 value of production.

Head lettuce continued to be the most significant vegetable crop in Arizona, accounting for 55 percent of the total value of production for all vegetables. Melons, primarily, cantaloup, honeydews and watermelons, were second to lettuce in production and total value. Nationally, the state ranked second in broccoli, cauliflower and lettuce production, third in the production of honeydews and fourth in spring onion production.

"Miscellaneous" and "other" vegetables were harvested from over 16,000 acres, with a value of production estimated at \$54.2 million, 17 percent of the total value of all vegetables produced in Arizona. The most significant among these were leaf and romaine lettuce, greens, asparagus, and cabbage.



WESTERN LETTUCE: Acreage, yield, and production, Arizona, by counties, 1986/87-1990/91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>LA PAZ</b>				<b>YUMA</b>			
1986/87	1,000	240	240	1986/87	34,200	333	11,376
1987/88	700	271	190	1987/88	41,300	285	11,780
1988/89	2,500	193	483	1988/89	42,000	269	11,310
1989/90	3,000	197	591	1989/90	43,100	270	11,626
1990/91	1,400	238	333	1990/91	43,600	323	14,067

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

WESTERN LETTUCE: Acreage, yield, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1986/87	35,200	35,200	330	11,616	11.50	133,584
1987/88	42,000	42,000	285	11,970	25.40	304,038
1988/89	44,500	44,500	265	11,793	15.20	179,254
1989/90	46,100	46,100	265	12,217	7.33	89,551
1990/91	45,000	45,000	320	14,400	9.25	133,200

1/ Average price for the November through April marketing season.

WESTERN LETTUCE: Monthly and season average prices received by growers, Arizona, 1986/87-1990/91

Crop year	November	December	January	February	March	April	Season average
	Dollars per cwt.						
1986/87	10.70	10.40	14.40	7.76	14.70	6.93	11.50
1987/88	51.20	36.60	37.20	10.20	13.10	6.00	25.40
1988/89	15.00	18.40	18.60	13.40	11.50	9.81	15.20
1989/90	6.50	6.08	9.67	6.56	7.31	6.72	7.33
1990/91	9.69	9.83	10.20	6.50	10.10	10.10	9.25



OTHER LETTUCE, SPRING: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>COCHISE</b>				<b>MARICOPA</b>			
1987	940	183	172	1987	1,000	279	279
1988	1,000	240	240	1988	900	269	242
1989	630	211	133	1989	1,000	166	166
1990	300	287	86	1990	700	261	183
1991	500	390	195	1991	400	263	105
<b>PIMA</b>				<b>PINAL</b>			
1987	560	239	134	1987	600	110	66
1988	500	176	88	1988	600	142	85
1989	450	216	97	1989	420	129	54
1990	450	171	77	1990	450	209	94
1991	370	324	120	1991	430	221	95

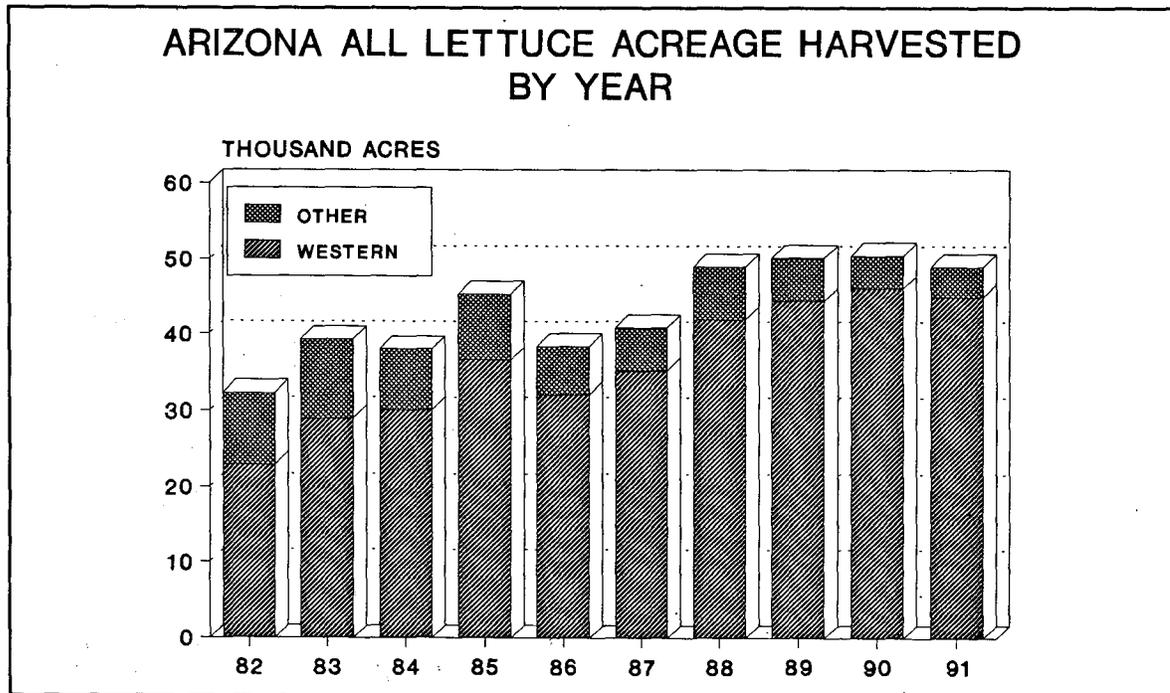
1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties. Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

OTHER LETTUCE, SPRING: Acreage, yield, production, price and value, Arizona, 1987-91 1/

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 2/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	3,100	3,100	210	651	8.49	5,525
1988	3,000	3,000	218	655	7.49	4,905
1989	2,500	2,500	180	450	9.83	4,425
1990	1,900	1,900	232	440	7.50	3,300
1991	1,700	1,700	303	515	14.00	7,210

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

2/ Average price for March through June marketing season.



**OTHER LETTUCE, FALL: Acreage, yield, and production, Arizona, by counties, 1987/88-1991/92 1/**

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>COCHISE</b>				<b>MARICOPA</b>			
1987/88	1,000	330	340	1987/88	900	223	201
1988/89	1,300	219	285	1988/89	1,700	215	365
1989/90	1,400	158	221	1989/90	1,400	153	214
1990/91	1,000	250	250	1990/91	650	100	65
1991/92	1,150	226	260	1991/92	300	250	75
<b>PIMA</b>				<b>PINAL</b>			
1987/88	470	232	109	1987/88	200	195	39
1988/89	450	244	110	1988/89	550	291	160
1989/90	700	176	123	1989/90	400	200	80
1990/91	400	120	48	1990/91	450	122	55
1991/92	350	200	70	1991/92	500	240	120

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties. Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

**OTHER LETTUCE, FALL: Acreage, yield, production, price, and value, Arizona, 1987/88-1991/92 1/**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 2/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987/88	2,600	2,600	265	689	30.10	20,739
1988/89	4,000	4,000	230	920	13.50	12,420
1989/90	3,900	3,900	164	638	11.10	7,108
1990/91	2,500	2,500	167	418	16.10	6,739
1991/92	2,300	2,300	228	525	16.80	8,806

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

2/ Average price for the October through January marketing season.

**ALL OTHER LETTUCE: Acreage, yield, production, price, and value, Arizona, 1987/88-1991/92 1/**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 2/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987/88	5,700	5,700	235	1,340	19.60	26,264
1988/89	7,000	7,000	225	1,575	11.00	17,325
1989/90	6,400	6,400	170	1,088	10.60	11,533
1990/91	4,400	4,400	195	858	11.70	10,039
1991/92	4,000	4,000	260	1,040	15.40	16,016

1/ "Other lettuce" refers to lettuce produced in all areas of the State except Yuma and La Paz counties.

2/ Average price for the March through June and September through January marketing seasons.

**ALL OTHER LETTUCE: Monthly and season average prices received by growers, Arizona, 1987/88-1991/92**

Crop year	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Season average
Dollars per cwt.												
1987/88	15.70	6.46	6.46	7.23	--	--	--	13.30	45.20	42.10	37.40	19.60
1988/89	6.49	7.06	6.20	9.54	--	--	--	10.50	13.00	20.10	16.50	11.00
1989/90	12.70	9.31	7.28	11.10	--	--	--	13.60	11.20	6.01	14.30	10.60
1990/91	8.39	7.54	6.73	6.00	--	--	--	18.20	17.90	10.30	13.00	11.70
1991/92	12.00	8.89	25.90	13.50	--	--	--	12.80	24.80	11.60	8.32	15.40

**DRY ONIONS: Acreage, yield, and production, Arizona, by counties, 1987-91 1/**

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	<u>Acres</u>	<u>Cwt.</u>	<u>1,000 cwt.</u>		<u>Acres</u>	<u>Cwt.</u>	<u>1,000 cwt.</u>
<b>COCHISE</b>				<b>LA PAZ</b>			
1987	100	410	41	1987	0		
1988	100	370	37	1988	0		
1989	50	420	21	1989	150	220	33
1990	50	400	20	1990	200	410	82
1991	80	350	28	1991	220	400	88
<b>MARICOPA</b>							
1987	1,200	453	544				
1988	1,100	375	413				
1989	900	436	392				
1990	750	497	373				
1991	600	542	325				

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

**DRY ONIONS: Acreage, yield, production, price, and value, Arizona, 1987-91 1/**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 2/	Value of production
		<u>Acres</u>	<u>Cwt.</u>	<u>1,000 cwt.</u>	<u>Dol. per cwt.</u>	<u>1,000 dol.</u>
1987	1,300	1,300	450	585	20.50	11,993
1988	1,200	1,200	375	450	7.55	3,398
1989	1,100	1,100	405	446	8.56	3,816
1990	1,000	1,000	475	475	10.50	5,006
1991	900	900	490	441	8.61	3,797

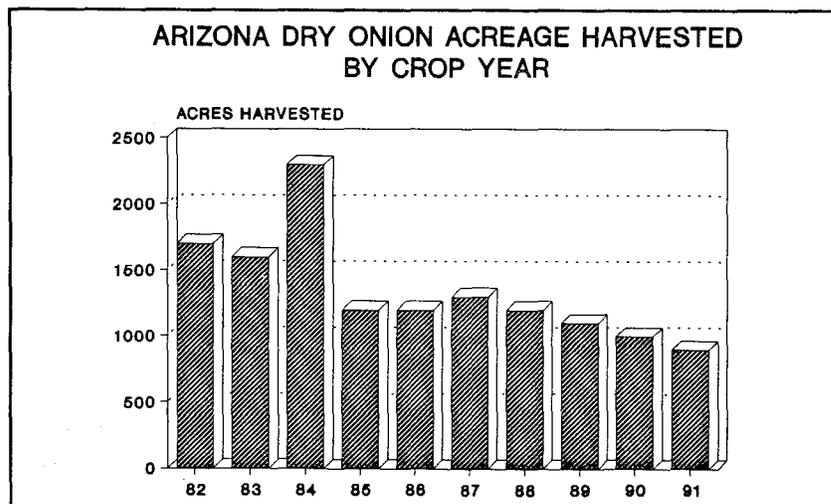
1/ Includes onions grown for processing in 1989 through 1991.

2/ Average price for the April through July marketing season.

**DRY ONIONS: Monthly and season average prices received by growers, Arizona, 1987-91 1/**

Year	April	May	June	July	Season average
					<u>Dollars per cwt.</u>
1987	--	21.70	18.00	20.80	20.50
1988	--	7.23	7.72	10.60	7.55
1989	--	8.50	8.97	19.20	8.56
1990	--	12.90	11.20	8.00	10.50
1991	--	11.70	8.11	8.09	8.61

1/ Monthly prices are for fresh market only. Season average for 1989 through 1991 includes onions grown for processing.



**BROCCOLI: Acreage, yield, and production, Arizona, by counties, 1986/87-1990/91 1/**

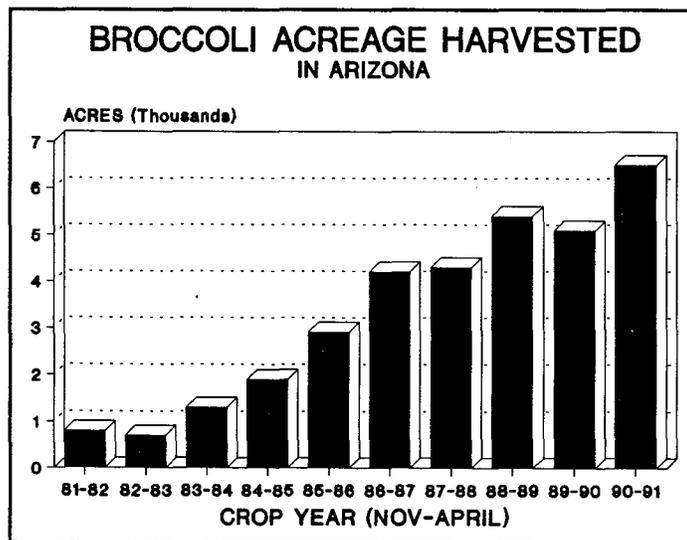
County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>MARICOPA</b>				<b>PINAL</b>			
1986/87	1,300	83	108	1986/87	300	63	19
1987/88	1,300	70	91	1987/88	300	110	33
1988/89	1,650	81	134	1988/89	650	97	63
1989/90	1,400	129	181	1989/90	200	155	31
1990/91	1,700	81	138	1990/91	600	100	60
<b>YUMA</b>							
1986/87	2,600	98	255				
1987/88	2,700	99	267				
1988/89	3,100	111	343				
1989/90	3,500	107	375				
1990/91	4,200	100	420				

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

**BROCCOLI: Acreage, yield, production, price, and value, Arizona, 1986/87-1990/91**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1986/87	4,200	4,200	91	382	21.80	8,328
1987/88	4,300	4,300	91	391	24.80	9,697
1988/89	5,400	5,400	100	540	20.60	11,124
1989/90	5,100	5,100	115	587	18.70	10,977
1990/91	6,500	6,500	95	618	24.40	15,079

1/ Average price for the December through April marketing season.



## 1991 ARIZONA AGRICULTURAL STATISTICS

## CAULIFLOWER: Acreage, yield, and production, Arizona, by counties, 1986/87-1990/91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>MARICOPA</b>				<b>PINAL</b>			
1986/87	750	80	60	1986/87	0		
1987/88	600	67	40	1987/88	150	73	11
1988/89	650	95	62	1988/89	850	67	57
1989/90	550	100	55	1989/90	50	140	7
1990/91	500	114	57	1990/91	100	50	5
<b>YUMA</b>							
1986/87	5,650	131	740				
1987/88	5,350	110	590				
1988/89	5,300	125	663				
1989/90	5,800	105	610				
1990/91	5,200	128	663				

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

## CAULIFLOWER: Acreage, yield, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres	Acres	Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1986/87	6,400	6,400	125	800	27.40	21,920
1987/88	6,100	6,100	105	641	31.10	19,935
1988/89	6,800	6,800	115	782	28.10	21,974
1989/90	6,400	6,400	105	672	23.70	15,926
1990/91	5,800	5,800	125	725	31.10	22,548

1/ Average price for the November through April marketing season.

## CARROTS: Acreage, yield, and production, Arizona, by counties, 1986/87-1990/91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>MARICOPA</b>				<b>PINAL</b>			
1986/87	2,000	200	400	1986/87	0		
1987/88	1,850	126	233	1987/88	50	100	5
1988/89	1,400	170	238	1988/89	0		
1989/90	1,450	130	188	1989/90	0		
1990/91	1,000	160	160	1990/91	0		
<b>YUMA</b>							
1986/87	0						
1987/88	0						
1988/89	0						
1989/90	50	140	7				
1990/91	0						

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

## CARROTS: Acreage, yield, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres	Acres	Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1986/87	2,000	2,000	200	400	10.50	4,200
1987/88	1,900	1,900	125	238	10.20	2,428
1988/89	1,400	1,400	170	238	15.70	3,737
1989/90	1,500	1,500	130	195	9.73	1,897
1990/91	1,000	1,000	160	160	12.40	1,984

1/ Average price for the December through June marketing season.

**WATERMELONS: Acreage, yield, and production, Arizona, by counties, 1987-91 1/**

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>COCHISE</b>				<b>LA PAZ</b>			
1987	152	167	25	1987	400	265	106
1988	150	100	15	1988	300	217	65
1989	50	160	8	1989	350	286	100
1990	50	180	9	1990	0		
1991	0			1991	250	200	50
<b>MARICOPA</b>				<b>PINAL</b>			
1987	3,250	322	1,045	1987	450	282	127
1988	2,600	323	840	1988	900	289	260
1989	2,700	384	1,036	1989	900	391	352
1990	2,750	346	951	1990	1,300	429	558
1991	4,000	269	1,075	1991	1,700	260	442
<b>YUMA</b>							
1987	950	243	231				
1988	1,050	305	320				
1989	1,200	400	480				
1990	500	460	230				
1991	550	300	165				

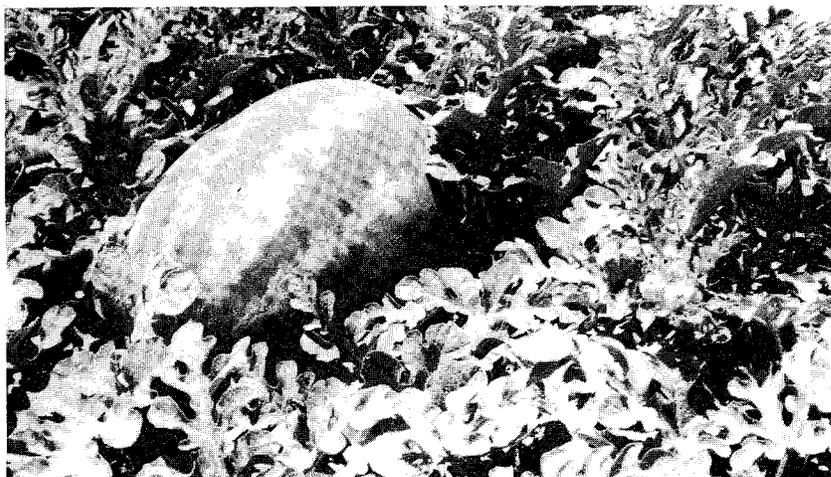
1/ Watermelons are planted as Spring and Fall crops. Estimates by season are not available. Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

**WATERMELONS: Acreage, yield, production, price, and value, Arizona, 1987-91 1/**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 2/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	5,200	5,200	295	1,534	5.13	7,869
1988	5,000	5,000	300	1,500	7.13	10,695
1989	5,200	5,200	380	1,976	4.70	9,287
1990	5,000	4,600	380	1,748	6.95	12,151
1991	6,500	6,500	266	1,732	6.84	11,844

1/ Watermelons are planted as Spring and Fall crops. Estimates by season are not available.

2/ Average price for the May through July and September through November marketing season.



**1991 ARIZONA AGRICULTURAL STATISTICS**

**SPRING HONEYDEWS: Acreage, yield, and production, Arizona, by counties, 1987-91 1/**

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>LA PAZ</b>				<b>MARICOPA</b>			
1987	780	168	131	1987	820	141	116
1988	490	234	119	1988	800	156	125
1989	600	168	101	1989	850	146	124
1990	550	209	115	1990	500	236	118
1991	700	143	100	1991	750	153	115
<b>PINAL</b>				<b>YUMA</b>			
1987	470	70	33	1987	330	133	44
1988	2/			1988	110	145	16
1989	50	80	4	1989	100	160	16
1990	150	253	38	1990	300	40	12
1991	350	154	54	1991	300	53	16

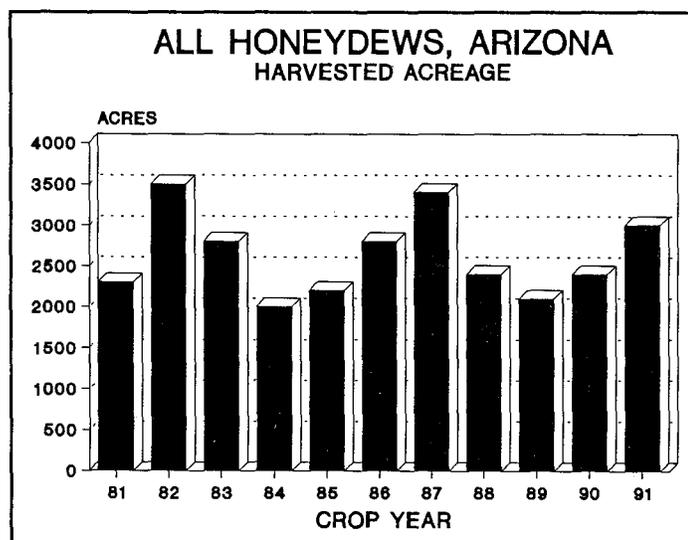
1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

2/ Acres and production included with Maricopa County to avoid disclosure of individual operations.

**SPRING HONEYDEWS: Acreage, yield, production, price, and value, Arizona, 1987-91**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres	Acres	Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	2,400	2,400	135	324	12.10	3,920
1988	1,400	1,400	186	260	17.70	4,594
1989	1,600	1,600	153	245	8.90	2,183
1990	1,500	1,500	189	283	24.90	7,060
1991	2,100	2,100	136	285	27.00	7,702

1/ Average price for the June through July marketing season.



**FALL HONEYDEWS: Acreage, yield, and production, Arizona, by counties, 1987-91 1/**

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>COCHISE</b>				<b>LA PAZ</b>			
1987	0			1987	250	100	25
1988	50	160	8	1988	300	193	58
1989	2/			1989	100	190	19
1990	0			1990	280	89	25
1991	0			1991	200	100	20
<b>MARICOPA</b>				<b>PINAL</b>			
1987	650	145	94	1987	50	160	8
1988	450	140	63	1988	200	155	31
1989	300	183	55	1989	0		
1990	270	159	43	1990	270	141	38
1991	260	140	36	1991	360	114	41
<b>YUMA</b>							
1987	50	160	8				
1988	0						
1989	100	170	17				
1990	80	238	19				
1991	80	100	8				

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

2/ Acres and production included with Maricopa County to avoid disclosure of individual operations.

**FALL HONEYDEWS: Acreage, yield, production, price, and value, Arizona, 1987-91**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	1,000	1,000	135	135	11.40	1,542
1988	1,000	1,000	160	160	16.70	2,672
1989	500	500	182	91	20.30	1,849
1990	1,100	900	139	125	23.80	2,977
1991	1,100	900	117	105	11.70	1,229

1/ Average price for the October through November marketing season.

**ALL HONEYDEWS: Acreage, yield, production, price, and value, Arizona, 1987-91**

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	3,400	3,400	135	459	11.90	5,462
1988	2,400	2,400	175	420	17.30	7,266
1989	2,100	2,100	160	336	12.00	4,032
1990	2,600	2,400	170	408	24.60	10,037
1991	3,200	3,000	130	390	22.90	8,931

1/ Average price for the June through July and October through November marketing seasons.

**ALL HONEYDEWS: Monthly and season average prices received by growers, Arizona, 1987-91**

Crop year	June	July	August	September	October	November	Season average
Dollars per cwt.							
1987	14.40	7.38	--	--	10.80	14.30	11.90
1988	18.30	16.50	--	--	16.80	15.50	17.30
1989	9.41	10.30	--	--	23.00	19.50	12.00
1990	29.00	20.90	10.20	11.20	25.90	25.20	24.60
1991	44.40	31.50	10.70	11.10	11.70	11.90	22.90

## 1991 ARIZONA AGRICULTURAL STATISTICS

## SUMMER CANTALOUPS: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>LA PAZ</b>				<b>MARICOPA</b>			
1987	2,430	130	316	1987	4,220	174	734
1988	650	195	127	1988	4,100	172	705
1989	500	68	34	1989	4,800	169	811
1990	500	220	110	1990	5,200	138	717
1991	650	186	121	1991	4,850	181	879
<b>PINAL</b>				<b>YUMA</b>			
1987	2/			1987	950	151	143
1988	200	160	32	1988	150	173	26
1989	500	130	65	1989	500	100	50
1990	550	124	68	1990	650	117	76
1991	700	163	114	1991	2,000	106	211

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

2/ Acres and production included with Maricopa County to avoid disclosure of individual operations.

## SUMMER CANTALOUPS: Acreage, yield, production, price, and value, Arizona, 1987-91

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	7,600	7,600	157	1,193	9.89	11,799
1988	5,100	5,100	175	890	18.30	16,287
1989	6,300	6,300	152	960	7.90	7,584
1990	6,900	6,900	141	971	20.40	19,808
1991	8,200	8,200	162	1,325	16.00	21,200

1/ Average price for the May through July marketing season.



## FALL CANTALOUPS: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and crop year	Harvested	Yield per acre	Production	County and crop year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>COCHISE</b>				<b>LA PAZ</b>			
1987	2/			1987	450	80	36
1988	2/			1988	0		
1989	0			1989	50	160	8
1990	0			1990	0		
1991	0			1991	0		
<b>MARICOPA</b>				<b>PINAL</b>			
1987	2,700	169	455	1987	350	114	40
1988	2,500	175	440	1988	2/		
1989	2,100	200	420	1989	0		
1990	1,550	254	394	1990	200	80	16
1991	2,600	165	430	1991	600	117	70
<b>YUMA</b>							
1987	100	120	12				
1988	0						
1989	350	183	64				
1990	450	67	30				
1991	0						

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

2/ Acres and production included with Maricopa County to avoid disclosure of individual operations.

## FALL CANTALOUPS: Acreage, yield, production, price, and value, Arizona, 1987-91

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	3,600	3,600	151	543	9.71	5,273
1988	2,500	2,500	176	440	12.30	5,412
1989	2,500	2,500	197	492	16.40	8,069
1990	2,400	2,200	200	440	16.00	7,040
1991	3,500	3,200	156	500	25.00	12,500

1/ Average price for the October through November marketing season.

## ALL CANTALOUPS: Acreage, yield, production, price, and value, Arizona, 1987-91

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	11,200	11,200	155	1,736	9.83	17,072
1988	7,600	7,600	175	1,330	16.30	21,699
1989	8,800	8,800	165	1,452	10.80	15,653
1990	9,300	9,100	155	1,411	19.00	26,848
1991	11,700	11,400	160	1,825	18.50	33,700

1/ Average price for the May through July and October through November marketing seasons.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## POTATOES: Acreage, yield, and production, Arizona, by counties, 1987-91 1/

County and year	Harvested	Yield per acre	Production	County and year	Harvested	Yield per acre	Production
	Acres	Cwt.	1,000 cwt.		Acres	Cwt.	1,000 cwt.
<b>COCHISE</b>				<b>MARICOPA</b>			
1987	2/			1987	4,900	275	1,348
1988	0			1988	5,150	239	1,231
1989	0			1989	5,800	315	1,827
1990	0			1990	5,500	280	1,540
1991	0			1991	4,700	287	1,350
<b>PINAL</b>				<b>YUMA</b>			
1987	0			1987	2/		
1988	0			1988	150	100	15
1989	0			1989	0		
1990	1,000	234	234	1990	400	50	20
1991	1,300	323	420	1991	0		

1/ Acres and production developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization.

2/ Acres and production included with Maricopa County to avoid disclosure of individual operations.

## POTATOES: Acreage, yield, production, price, and value, Arizona, 1987-91

Crop year	Planted	Harvested	Yield per acre	Production	Season average price 1/	Value of production
	Acres		Cwt.	1,000 cwt.	Dol. per cwt.	1,000 dol.
1987	4,900	4,900	275	1,348	10.50	14,154
1988	5,300	5,300	235	1,246	9.35	11,650
1989	5,800	5,800	315	1,827	8.30	15,164
1990	6,900	6,900	260	1,794	8.50	15,249
1991	6,000	6,000	295	1,770	10.40	18,408

1/ Average price for the April through July marketing season.

## POTATOES: Monthly and season average prices received by growers, Arizona, 1987-91 1/

Year	April	May	June	July	Season average price 2/
1987	17.00	13.00	7.60	5.50	10.50
1988	21.00	10.80	9.05	6.00	9.35
1989	23.00	9.15	6.25	5.25	8.30
1990	19.60	10.80	7.25	5.45	8.50
1991	35.10	12.70	6.95	6.20	10.40

1/ Includes fresh market and processed potato prices.

2/ Average price for the April through July marketing season.

## OTHER VEGETABLES: Acres, production, and value, Arizona, 1987-91

Crop	Year	Harvested acres 1/	Unit	Production 1/	Value of production 2/ 1,000 dol.
		Acres			
ASPARAGUS	1987	1,723	30 Lb. Carton	115,103	2,265
	1988	1,986		165,069	3,549
	1989	3,135		220,545	4,380
	1990	3,500		245,522	5,401
	1991	1,900		146,877	4,113
BEETS	1987	42	35 Lb. Carton	22,675	170
	1988	75		19,699	148
	1989	69		26,089	196
	1990	30		16,462	123
	1991	65		18,327	137
BOK CHOY	1987	162	35 Lb. Carton	82,320	594
	1988	131		81,810	538
	1989	215		106,345	527
	1990	90		41,641	206
	1991	160		87,733	434
CABBAGE	1987	723	50 Lb. Carton	399,522	1,307
	1988	968		295,521	1,806
	1989	1,468		614,150	3,194
	1990	960		720,949	4,672
	1991	1,700		849,240	3,737
CHILIES 3/	1991	1,400	Ton	1,388	1,500
ENDIVE	1987	134	25 Lb. Carton	39,811	141
	1988	76		17,469	135
	1989	12		3,641	20
	1990	11		5,146	28
	1991	12		10,558	58
ESCAROLE	1987	53	50 Lb. Carton	3,639	33
	1988	36		1,538	24
	1989	6		2,229	25
	1990	6		4,140	46
	1991	6		5,517	61
GARLIC	1987	350	Ton	3,325	532
	1988	180		1,250	200
	1989	109		1,000	160
	1990	250		2,950	472
	1991	400		4,657	671
GREENS	1987	1,847	25 Lb. Carton	1,698,535	6,285
	1988	1,448		1,261,303	5,600
	1989	1,526		1,244,324	5,263
	1990	1,300		1,411,866	6,551
	1991	1,400		1,169,179	4,443
KALE	1987	170	22 Lb. Carton	23,144	136
	1988	177		29,709	175
	1989	163		144,006	690
	1990	190		135,446	650
	1991	240		128,611	592
LETTUCE, BOSTON	1987	422	35 Lb. Carton	8,253	49
	1988	485		64,846	267
	1989	490		282,990	1,599
	1990	400		295,905	1,237
	1991 4/				

See footnotes at end of table.

Continued--

## 1991 ARIZONA AGRICULTURAL STATISTICS

## OTHER VEGETABLES: Acres, production, and value, Arizona, 1987-91--continued

Crop	Year	Harvested acres 1/	Unit	Production 1/	Value of production 2/
		Acres			1,000 dol.
LETTUCE, LEAF	1987	2,287	35 Lb. Carton	1,511,139	6,573
	1988	2,808		1,685,797	11,514
	1989	3,535		1,875,394	10,408
	1990	2,600		1,933,604	7,348
	1991	2,500		2,321,170	13,277
LETTUCE, ROMAINE	1987	1,625	35 Lb. Carton	907,826	9,351
	1988	1,491		882,510	5,869
	1989	1,672		1,042,001	5,220
	1990	2,000		1,177,168	5,074
	1991	1,900		1,492,485	10,298
NAPA	1987	176	20 lb. Carton	96,817	698
	1988	137		87,206	629
	1989	181		115,278	344
	1990	100		73,539	221
	1991	180		102,280	307
ONIONS, GREEN	1987	549	18 Lb. Carton	897,716	4,578
	1988	460		438,562	3,381
	1989	448		334,091	1,493
	1990	400		234,556	1,304
	1991	310		378,039	2,847
PARSLEY	1987	142	21 Lb. Carton	98,091	465
	1988	118		75,202	702
	1989	76		76,795	313
	1990	100		66,667	273
	1991	76		54,166	222
PUMPKINS	1987	248	Ton	1,395	145
	1988	258		564	59
	1989	228		1,271	132
	1990	200		629	65
	1991	160		399	40
RADISHES	1987	132	40 Lb. Carton	131,271	851
	1988	89		40,764	430
	1989	30		26,003	275
	1990	10		6,287	67
	1991	5		943	10
RAPINI	1987	601	25 Lb. Carton	241,057	1,367
	1988	700		167,376	949
	1989	318		66,490	377
	1990	120		45,564	260
	1991	140		49,698	283
SPINACH	1987	274	25 Lb. Carton	119,518	639
	1988	521		153,970	1,186
	1989	463		190,344	1,466
	1990	725		354,594	2,730
	1991	670		393,125	2,359
SQUASH	1987	374	24 Lb. Carton	98,161	1,005
	1988	553		79,174	734
	1989	723		197,911	1,835
	1990	370		157,961	1,469
	1991	510		91,539	851
SWEET CORN	1987	692	50 Lb. Carton	106,047	711
	1988	567		64,322	495
	1989	478		90,070	725
	1990	450		76,129	639
	1991	360		50,072	431

See footnotes at end of table

Continued--

## OTHER VEGETABLES: Acres, production, and value, Arizona, 1987-91--continued

Crop	Year	Harvested acres 1/	Unit	Production 1/	Value of production 2/
		Acres			1,000 dol.
TOMATOES, FIELD	1987	140	Ton	5,775	330
	1988	641		19,386	1,142
	1989	1,225		25,236	1,673
	1990	200		6,049	401
	1991	650		22,185	1,435
TURNIPS	1987	247	25 Lb. Sack	78,610	193
	1988	178		80,702	626
	1989	232		60,902	473
	1990	100		136,479	1,058
	1991	150		121,098	939
MISCELLANEOUS VEGETABLES 5/	1987	1,563		6/	3,897
	1988	2,851		6/	3,898
	1989	2,285		6/	4,285
	1990	1,800		6/	6,083
	1991	1,350		6/	4,916

1/ Acreage and production figures from the Arizona Citrus, Fruit and Vegetable Standardization reports. Production figures published are utilized production totals which can be affected by weather, market conditions, and vegetable quality.

2/ Value of production developed with the assistance of the Arizona Citrus, Fruit and Vegetable Standardization, the Arizona Cooperative Extension Service, Market News Service, and local growers.

3/ An 8:1 ratio used to convert green tonnage to a dry weight equivalent.

4/ Included with head lettuce.

5/ 1987 includes anise, artichokes, bell peppers, celantro, chili peppers, cucumbers, green beans, Maza corn, Mexican corn, miscellaneous melons, and rutabagas; 1988 includes anise, artichokes, bell peppers, celery, chili peppers, chinese cabbage, cucumbers, Fava beans, leeks, Maza corn, Mexican corn, miscellaneous melons, and okra; 1989 includes anise, artichokes, celantro, celery, chili peppers, cucumbers, Fava beans, leeks, Maza corn, miscellaneous melons, okra, snap beans, and Swiss chard; 1990 includes anise, artichokes, bell peppers, celantro, celery, chili peppers, cucumbers, Fava beans, leeks, miscellaneous melons, okra, snap beans, and Swiss chard; 1991 includes anise, artichokes, bell peppers, celantro, celery, cucumbers, Fava beans, leeks, Maza corn, miscellaneous melons, snap beans, and Swiss chard.

6/ Not available due to the different units of production for these vegetables.



## FRUITS AND NUTS

The 1990-91 crop year was another record setter for many Arizona fruit and nut producers with the total value of production for the sector jumping by over \$23 million to reach \$163 million.

The Citrus category (which accounted for two-thirds of total Arizona fruit and nut revenues) saw an increase in production value of 22.1 million dollars for the crop year ending in mid-1991. Elevated orange prices caused by 1990 holiday season freezes in California were responsible for most of the rise in citrus value of production. The season average price (packinghouse door) for Valencia oranges soared to a record high \$10.00 per carton, up from \$3.88 per carton for the previous season. Navel, sweet, and miscellaneous oranges season average prices rose over 32 percent, reaching \$7.08 per carton (packinghouse door), another all-time record.

Grapefruit growers saw season average prices decline 36 percent to earn \$3.20 per carton. Harvested acreage declined by 200 acres, but production rose 400,000 cartons, a 9 percent increase. The value of grapefruit production fell by 30.3 percent to attain \$15.3 million. Lemon season average prices also declined, falling by \$1.13 per carton to end the 1990-91 season at \$5.99. Lemon production rebounded by 46 percent from the disappointing 5,600 cartons of the 1989-90 season, and value of production of the 1990-91 season's 8,200 cartons rose over \$9 million in spite of lower prices. Tangerine season average prices grew by 14 percent, raising value of production to \$11.2 million.

Another important member of Arizona's fruit and nut category is the grape industry. Vineyard returns were 13 percent below their 1990 levels, and prices received were still well below the \$1,000 per ton level that prevailed during most of the 1980's.

The pecan production estimate for Arizona is combined with Kansas, Missouri, and Tennessee. Production in these four states totaled 20.7 million pounds, a 2 percent increase from the 20.3 million pounds produced in 1990. The average price received for pecans marketed in these four states, averaged \$1.29 compared with \$1.30 for the 1990 season.

The state's apple crop realized an increase of over 61 percent in total value of production from the prior year, with the amount pegged at nearly 7.9 million dollars. Much of the bearing acreage of over 4,000 acres lies in Cochise County near Willcox where winter "chill" requirements can be met. Production declined from a record 61.0 million pounds in 1990 to 56.0 million in 1991.

## APPLES: Acreage, production, price and value, Arizona, 1989-91

Crop year	Bearing acreage Acres	Utilization of production			Season average price Dol. per lb.	Value of production 1,000 dol.
		Fresh	Processed	Total		
1989	4,400	12.8	21.2	34.0	.074	2,531
1990	4,000	11.0	50.0	61.0	.080	4,892
1991	4,000	14.9	41.1	56.0	.141	7,891

## PECANS: Production, price and value, four states, 1989-91 1/

Crop year	Utilized production	Price per pound	Value of production
	1,000 lbs.	Dollars	1,000 dollars
1989	16,300	.810	13,199
1990	20,250	1.300	26,243
1991	20,700	1.290	26,638

1/ Four states include Arizona, Kansas, Missouri and Tennessee.

**GRAPES: Acreage and variety, Arizona, by counties, 1987-91 1/**

County and year	Table Varieties					Wine Varieties 3/	Total
	Cardinals	Flame Seedless	Perlette	Thompson Seedless	Other 2/		
<b>Acres</b>							
<b>MARICOPA</b>							
1987	30	655	825	1,245	75	0	2,830
1988	30	845	790	1,115	75	0	2,855
1989	0	825	755	1,010	75	0	2,665
1990	0	845	535	1,010	25	0	2,415
1991	0	770	560	930	10	0	2,270
<b>PINAL</b>							
1987	0	1,095	280	880	10	0	2,265
1988	0	770	170	780	10	0	1,730
1989	0	980	275	695	30	0	1,980
1990	0	780	85	345	30	0	1,240
1991	0	855	85	320	30	0	1,290
<b>YUMA</b>							
1987	20	525	370	765	25	0	1,705
1988	20	515	500	745	40	0	1,820
1989	0	510	415	295	15	0	1,235
1990	0	520	415	295	15	0	1,245
1991	0	510	415	290	15	0	1,230
<b>OTHER COUNTIES 4/</b>							
1987	0	0	0	0	0	300	300
1988	0	0	0	0	0	295	295
1989	0	0	0	0	0	320	320
1990	0	0	0	0	0	200	200
1991	0	0	0	0	0	210	210
<b>ARIZONA</b>							
1987	50	2,275	1,475	2,890	110	300	7,100
1988	50	2,130	1,460	2,640	125	295	6,700
1989	0	2,315	1,445	2,000	120	320	6,200
1990	0	2,145	1,035	1,650	70	200	5,100
1991	0	2,135	1,060	1,545	50	210	5,000

1/ Area acreage estimates developed with the assistance of Arizona Citrus, Fruit and Vegetable Standardization, Arizona Cooperative Extension Service, Arizona Wine Growers Association, and local growers.

2/ Includes Robin, Black Beauty, and Exotic varieties.

3/ Wine acreage 1987 through 1989 is acres planted, 1990 and 1991 is bearing acres.

4/ Includes Cochise, Pima, Santa Cruz, and Yavapai counties.

**GRAPES: Production, price, and value, Arizona, 1987-91**

Crop year	Total Production	Utilized Production	Season average price 1/	Value of utilized production
	Tons	Tons	Dol. per ton	1,000 dol.
1987	31,000	21,000	1,010.00	21,279
1988	25,500	24,000	1,250.00	29,913
1989	26,500	26,500	674.00	17,861
1990	26,000	26,000	870.00	22,616
1991	25,000	25,000	787.00	19,686

1/ Average price for the June 5-July 15 marketing season.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## GRAPEFRUIT: Acreage and production, by varieties, Arizona, by counties, 1986/87-1990/91

County and crop year	Harvested 1/			Utilization of Production		
	White	Red Blush	All	Fresh 2/	Processed 2/	Total
	Acres			1,000 cartons 3/		
<b>MARICOPA 4/</b>						
1986/87	1,680	1,900	3,580	1,850	1,390	3,240
1987/88	1,630	1,870	3,500	1,350	960	2,310
1988/89	1,900	2,100	4,000	1,320	920	2,240
1989/90	1,800	2,000	3,800	1,595	825	2,420
1990/91	1,700	2,000	3,700	1,324	806	2,130
<b>YUMA</b>						
1986/87	290	2,030	2,320	1,630	630	2,260
1987/88	260	2,240	2,500	1,250	340	1,590
1988/89	250	2,250	2,500	1,350	310	1,660
1989/90	300	2,300	2,600	1,735	245	1,980
1990/91	250	2,250	2,500	2,060	610	2,670

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Production for all grapefruit.

3/ Net weight per carton, 32 pounds.

4/ Includes small acreage and production in Pinal County.

## GRAPEFRUIT: Acreage, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Harvested 1/ Acres	Utilization of Production			Season average price 2/ Dol. per ctn.	Value of production 1,000 dol.
		Fresh	Processed	Total		
		1,000 cartons 3/				
1986/87	5,900	3,480	2,020	5,500	2.53	13,924
1987/88	6,000	2,600	1,300	3,900	2.26	8,788
1988/89	6,500	2,670	1,230	3,900	2.21	8,626
1989/90	6,400	3,330	1,070	4,400	5.00	22,000
1990/91	6,200	3,384	1,416	4,800	3.20	15,336

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Equivalent packinghouse door returns. Marketing season November 1-July 31.

3/ Net weight per carton, 32 pounds.

## GRAPEFRUIT: Season average price and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
1986/87	6.20	2.53	3.74	.45	1.77	2.98	-.32
1987/88	5.55	2.26	3.09	.58	1.46	2.29	-.22
1988/89	6.00	2.21	3.21	.05	1.38	2.38	-.79
1989/90	9.40	5.00	6.54	.21	4.14	5.68	-.66
1990/91	7.45	3.20	4.59	-.14	2.33	3.73	-1.00

1/ Net weight per carton, 32 pounds.

## GRAPEFRUIT: Monthly prices and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
<b>1986/87</b>							
Sept.	9.25	6.79	6.79	--	6.04	6.04	--
Oct.	8.75	5.46	6.29	.46	4.71	5.54	-.29
Nov.	6.15	3.40	3.69	.46	2.65	2.94	-.29
Dec.	5.50	2.53	3.04	.46	1.78	2.29	-.29
Jan.	5.50	2.48	3.04	.46	1.73	2.29	-.29
Feb.	5.15	2.14	2.69	.46	1.39	1.94	-.29
Mar.	4.39	1.60	1.93	.46	.85	1.18	-.29
Apr.	4.12	1.23	1.66	.46	.48	.91	-.29
May	6.20	2.43	3.74	.46	1.68	2.99	-.29
June	7.15	2.44	4.69	.44	1.64	3.89	-.36
July	4.57	1.28	2.11	.44	.48	1.31	-.36
<b>1987/88</b>							
Sept.	--	--	--	--	--	--	--
Oct.	6.30	3.61	3.84	.58	2.81	3.04	-.22
Nov.	5.65	2.76	3.19	.58	1.96	2.39	-.22
Dec.	5.45	2.81	2.99	.58	2.01	2.19	-.22
Jan.	5.50	2.77	3.04	.58	1.97	2.24	-.22
Feb.	5.15	2.22	2.69	.58	1.42	1.89	-.22
Mar.	5.05	1.92	2.59	.58	1.12	1.79	-.22
Apr.	4.88	2.11	2.42	.58	1.31	1.62	-.22
May	5.85	2.34	3.39	.58	1.54	2.59	-.22
June	5.80	2.02	3.34	.58	1.22	2.54	-.22
July	3.44	.72	.98	.58	-.09	.18	-.22
<b>1988/89</b>							
Sept.	--	--	--	--	--	--	--
Oct.	7.00	3.73	4.21	.20	2.90	3.38	-.63
Nov.	5.40	2.04	2.61	-.07	1.21	1.78	-.90
Dec.	5.45	2.39	2.66	.03	1.56	1.83	-.80
Jan.	5.25	1.93	2.46	-.04	1.10	1.63	-.87
Feb.	5.05	1.70	2.26	.07	.87	1.43	-.76
Mar.	5.25	2.15	2.46	-.07	1.32	1.63	-.90
Apr.	5.75	2.08	2.96	-.07	1.25	2.13	-.90
May	6.25	2.18	3.46	.00	1.35	2.63	-.83
June	6.90	2.04	4.11	.14	1.21	3.28	-.69
July	--	.35	--	.35	-.48	--	-.48
<b>1989/90</b>							
Sept.	9.25	6.24	6.39	-.13	5.38	5.53	-.99
Oct.	6.60	3.65	3.74	-.13	2.79	2.88	-.99
Nov.	5.70	2.64	2.84	.20	1.78	1.98	-.67
Dec.	5.85	2.77	2.99	-.06	1.91	2.13	-.92
Jan.	7.95	4.59	5.09	.08	3.73	4.23	-.79
Feb.	8.85	5.29	5.99	.24	4.43	5.13	-.63
Mar.	10.50	6.28	7.64	.04	5.41	6.78	-.83
Apr.	10.35	5.36	7.49	.14	4.49	6.63	-.73
May	10.10	4.14	7.24	.36	3.28	6.38	-.51
June	6.15	2.49	3.29	.34	1.62	2.43	-.53
July	--	--	--	--	--	--	--
<b>1990/91</b>							
Sept.	--	--	--	--	--	--	--
Oct.	5.45	2.59	2.59	--	1.73	1.73	--
Nov.	6.15	3.15	3.29	.15	2.28	2.43	-1.01
Dec.	6.25	2.98	3.39	.15	2.12	2.53	-1.01
Jan.	6.95	3.65	4.09	.15	2.79	3.23	-1.01
Feb.	7.75	4.05	4.89	.14	3.19	4.03	-1.00
Mar.	8.00	4.51	5.14	.15	3.65	4.28	-1.01
Apr.	7.60	3.33	4.74	.14	2.47	3.88	-1.00
May	7.70	3.00	4.84	.14	2.14	3.98	-1.00
June	7.40	3.04	4.54	.14	2.18	3.68	-1.00
July	--	--	--	--	--	--	--

1/ Net weight per carton, 32 pounds.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## LEMONS: Acreage and production, Arizona, by counties, 1986/87-1990/91

County and crop year	Harvested 1/ Acres	Utilization of Production 1,000 cartons 2/		
		Fresh	Processed	Total
<b>MARICOPA 3/</b>				
1986/87	1,500	290	910	1,200
1987/88	1,500	300	290	590
1988/89	1,500	310	120	430
1989/90	1,400	290	130	420
1990/91	1,400	140	80	220
<b>YUMA</b>				
1986/87	14,000	4,400	8,600	13,000
1987/88	14,000	3,630	3,080	6,710
1988/89	14,000	3,650	3,520	7,170
1989/90	14,100	3,238	1,942	5,180
1990/91	14,000	4,680	3,300	7,980

1/ Acres harvested from Lemon Administrative Committee.

2/ Net weight per carton, 38 pounds.

3/ Includes small acreage and production in Pinal County.

## LEMONS: Acreage, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Harvested 1/ Acres	Utilization of Production 1,000 cartons 3/			Season average price 2/ Dol. per ctn.	Value of production 1,000 dol.
		Fresh	Processed	Total		
1986/87	15,500	4,690	9,510	14,200	2.06	29,281
1987/88	15,500	3,930	3,370	7,300	4.31	31,418
1988/89	15,500	3,960	3,640	7,600	4.53	34,431
1989/90	15,500	3,528	2,072	5,600	7.12	39,844
1990/91	15,400	4,820	3,380	8,200	5.99	49,118

1/ Acres harvested from Lemon Administrative Committee.

2/ Equivalent packinghouse door returns. Marketing season August 15-March 1.

3/ Net weight per carton, 38 pounds.

## LEMONS: Season average price and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year	F.O.B. packed fresh	Equivalent returns Dollars per carton 1/					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
1986/87	8.25	2.06	4.54	.84	.68	3.16	-.54
1987/88	11.35	4.31	7.60	.46	2.83	6.12	-1.02
1988/89	11.50	4.53	7.84	.93	3.02	6.34	-.58
1989/90	14.15	7.12	10.48	1.40	5.61	8.97	-.12
1990/91	12.95	5.99	9.24	1.35	4.48	7.73	-.17

1/ Net weight per carton, 38 pounds.

LEMONS: Monthly prices and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
<b>1986/87</b>							
Sept.	7.65	2.52	3.94	.75	1.14	2.56	-.63
Oct.	8.50	3.07	4.79	.75	1.69	3.41	-.63
Nov.	8.20	2.59	4.49	.84	1.21	3.11	-.54
Dec.	8.25	2.23	4.54	.84	.85	3.16	-.54
Jan.	8.35	1.80	4.64	.84	.42	3.26	-.54
Feb.	9.60	1.62	5.89	.84	.24	4.51	-.54
Mar.	9.75	1.34	6.04	.84	-.05	4.66	-.54
Apr.	5.45	.99	1.74	.84	-.39	.36	-.54
May	2.57	.22	-1.14	.84	-1.16	-2.52	-.54
June	--	--	--	--	--	--	--
<b>1987/88</b>							
Sept.	15.10	6.87	11.35	.46	5.39	9.87	-1.02
Oct.	13.05	6.29	9.30	.46	4.81	7.82	-1.02
Nov.	11.80	4.96	8.05	.46	3.48	6.57	-1.02
Dec.	9.85	3.30	6.10	.46	1.82	4.62	-1.02
Jan.	8.65	2.27	4.90	.46	.79	3.42	-1.02
Feb.	9.25	2.63	5.50	.46	1.15	4.02	-1.02
Mar.	12.15	4.34	8.40	.46	2.86	6.92	-1.02
Apr.	4.97	.84	1.22	.46	-.64	-.26	-1.02
May	--	--	--	--	--	--	--
June	--	--	--	--	--	--	--
<b>1988/89</b>							
Sept.	15.00	7.70	11.34	.42	6.20	9.84	-1.09
Oct.	12.70	5.94	9.04	.42	4.43	7.54	-1.09
Nov.	10.75	4.52	7.09	1.11	3.01	5.59	-.40
Dec.	10.05	3.60	6.39	1.13	2.09	4.89	-.38
Jan.	10.20	3.06	6.54	1.03	1.55	5.04	-.48
Feb.	11.60	2.34	7.94	1.03	.83	6.44	-.48
Mar.	11.65	3.79	7.99	1.05	2.28	6.49	-.46
Apr.	--	--	--	--	--	--	--
May	--	--	--	--	--	--	--
June	--	--	--	--	--	--	--
<b>1989/90</b>							
Sept.	17.40	10.96	13.73	1.15	9.45	12.22	-.36
Oct.	16.45	9.87	12.78	1.15	8.36	11.27	-.36
Nov.	13.30	6.62	9.63	1.28	5.11	8.12	-.23
Dec.	11.60	4.84	7.93	1.49	3.33	6.42	-.02
Jan.	11.20	4.81	7.53	1.63	3.30	6.02	.12
Feb.	12.80	4.62	9.13	1.70	3.11	7.62	.19
Mar.	--	--	--	--	--	--	--
Apr.	--	--	--	--	--	--	--
May	--	--	--	--	--	--	--
June	--	--	--	--	--	--	--
<b>1990/91</b>							
Sept.	15.75	9.48	12.04	1.80	7.97	10.53	.29
Oct.	14.20	8.06	10.49	1.80	6.55	8.98	.29
Nov.	10.10	4.44	6.39	1.63	2.93	4.88	.12
Dec.	9.75	3.47	6.04	1.18	1.95	4.53	-.34
Jan.	16.50	7.03	12.79	1.01	5.51	11.28	-.51
Feb.	14.25	6.07	10.54	1.01	4.55	9.03	-.51
Mar.	13.95	7.99	10.24	1.01	6.48	8.73	-.51
Apr.	--	--	--	--	--	--	--
May	--	--	--	--	--	--	--
June	--	--	--	--	--	--	--

1/ Net weight per carton, 38 pounds.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## VALENCIA ORANGES: Acreage and production, Arizona, by counties, 1986/87-1990/91

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
<b>MARICOPA 3/</b>				
1986/87	2,300	890	610	1,500
1987/88	2,200	640	370	1,010
1988/89	2,500	590	410	1,000
1989/90	2,100	520	542	1,062
1990/91	2,200	572	344	916
<b>YUMA</b>				
1986/87	4,300	1,310	590	1,900
1987/88	4,200	1,070	340	1,410
1988/89	4,000	840	460	1,300
1989/90	3,700	1,096	282	1,378
1990/91	3,500	1,290	194	1,484

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Net weight per carton, 37.5 pounds.

3/ Includes small acreage and production in Pinal County.

## VALENCIA ORANGES: Acreage, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1986/87	6,600	2,200	1,200	3,400	2.65	9,012
1987/88	6,400	1,710	710	2,420	3.54	8,565
1988/89	6,500	1,430	870	2,300	3.57	8,213
1989/90	5,800	1,616	824	2,440	3.88	9,467
1990/91	5,700	1,862	538	2,400	10.00	23,988

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Equivalent packinghouse door returns. Marketing season February 1-July 15.

3/ Net weight per carton, 37.5 pounds.

## VALENCIA ORANGES: Season average price and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
1986/87	6.25	2.65	3.72	.69	1.80	2.87	-.16
1987/88	7.20	3.54	4.54	1.13	2.66	3.66	.25
1988/89	7.60	3.57	4.88	1.42	2.67	3.98	.52
1989/90	7.55	3.88	4.77	2.15	2.91	3.79	1.17
1990/91	15.75	10.00	12.74	.49	8.85	11.59	-.66

1/ Net weight per carton, 37.5 pounds.

## VALENCIA ORANGES: Monthly prices and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
<b>1986/87</b>							
Jan.	7.60	5.07	5.07	--	4.22	4.22	--
Feb.	7.60	3.78	5.07	.69	2.93	4.22	-.16
Mar.	6.15	2.53	3.62	.69	1.68	2.77	-.16
Apr.	6.00	2.49	3.47	.69	1.64	2.62	-.16
May	6.60	2.88	4.07	.69	2.03	3.22	-.16
June	5.95	2.54	3.42	.69	1.69	2.57	-.16
July	6.10	1.96	3.57	.69	1.11	2.72	-.16
Aug.	--	--	--	--	--	--	--
<b>1987/88</b>							
Jan.	--	--	--	--	--	--	--
Feb.	7.20	4.15	4.54	1.13	3.27	3.66	.25
Mar.	7.15	3.56	4.49	1.13	2.68	3.61	.25
Apr.	7.50	3.84	4.84	1.13	2.96	3.96	.25
May	7.20	3.56	4.54	1.13	2.68	3.66	.25
June	4.47	1.44	1.81	1.13	.56	.93	.25
July	8.00	1.78	5.34	1.13	.90	4.46	.25
Aug.	--	--	--	--	--	--	--
<b>1988/89</b>							
Jan.	--	--	--	--	--	--	--
Feb.	8.60	4.31	5.88	.87	3.41	4.98	-.03
Mar.	8.30	4.56	5.58	.97	3.66	4.68	.07
Apr.	6.80	2.85	4.08	1.22	1.95	3.18	.32
May	6.75	2.89	4.03	1.44	1.99	3.13	.54
June	8.40	4.06	5.68	2.08	3.16	4.78	1.18
July	8.55	4.00	5.83	2.17	3.10	4.93	1.27
Aug.	--	--	--	--	--	--	--
<b>1989/90</b>							
Jan.	--	--	--	--	--	--	--
Feb.	8.95	5.28	6.17	1.93	4.31	5.19	.95
Mar.	7.95	4.30	5.17	2.07	3.32	4.19	1.09
Apr.	7.35	3.82	4.57	2.07	2.85	3.59	1.09
May	7.60	3.87	4.82	2.20	2.90	3.84	1.22
June	6.95	3.28	4.17	2.20	2.31	3.19	1.22
July	4.74	2.01	1.96	2.30	1.04	.98	1.32
Aug.	--	--	--	--	--	--	--
<b>1990/91</b>							
Jan.	--	--	--	--	--	--	--
Feb.	13.80	8.10	10.79	.51	6.95	9.64	-.64
Mar.	16.75	11.23	13.74	.51	10.08	12.59	-.64
Apr.	14.45	8.58	11.44	.41	7.43	10.29	-.74
May	16.80	10.74	13.79	.71	9.59	12.64	-.44
June	11.15	4.33	8.14	.51	3.18	6.99	-.64
July	--	--	--	--	--	--	--
Aug.	--	--	--	--	--	--	--

1/ Net weight per carton, 37.5 pounds.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Acreage and production, Arizona, by counties, 1986/87-1990/91

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
<b>MARICOPA 3/</b>				
1986/87	4,010	1,670	270	1,940
1987/88	3,970	1,090	70	1,160
1988/89	3,570	950	90	1,040
1989/90	4,080	652	68	720
1990/91	3,910	904	116	1,020
<b>YUMA</b>				
1986/87	290	50	10	60
1987/88	230	50	10	60
1988/89	330	50	10	60
1989/90	320	50	10	60
1990/91	290	70	10	80

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Net weight per carton, 37.5 pounds.

3/ Includes small acreage and production in Pinal County.

## NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Acreage, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1986/87	4,300	1,720	280	2,000	3.86	7,723
1987/88	4,200	1,140	80	1,220	5.22	6,364
1988/89	3,900	1,000	100	1,100	5.94	6,529
1989/90	4,400	702	78	780	5.38	4,196
1990/91	4,200	974	126	1,100	7.08	7,788

1/ Acres harvested from Arizona Citrus, Fruit, and Vegetable Standardization.

2/ Equivalent packinghouse door returns. Marketing season November 1-March 15.

3/ Net weight per carton, 37.5 pounds.

## NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Season average price and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
1986/87	7.15	3.86	4.50	-.06	3.04	3.68	-.88
1987/88	8.55	5.22	5.54	.60	4.35	4.67	-.22
1988/89	9.30	5.94	6.48	.49	5.10	5.65	-.35
1989/90	8.65	5.38	5.84	1.29	4.53	4.99	.44
1990/91	10.80	7.08	7.94	.45	6.22	7.08	-.42

1/ Net weight per carton, 37.5 pounds.

## NAVEL, SWEET, AND MISCELLANEOUS ORANGES: Monthly prices and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
<b>1986/87</b>							
Oct.	9.00	5.50	6.35	-.06	4.68	5.53	-.88
Nov.	8.40	5.12	5.75	-.06	4.30	4.93	-.88
Dec.	7.15	3.78	4.50	-.06	2.96	3.68	-.88
Jan.	5.90	2.66	3.25	-.06	1.84	2.43	-.88
Feb.	4.00	1.13	1.35	-.06	.31	.53	-.88
Mar.	3.65	.90	1.00	-.06	.08	.18	-.88
<b>1987/88</b>							
Oct.	16.60	10.71	13.59	.60	9.85	12.72	-.22
Nov.	9.95	6.57	6.94	.60	5.70	6.07	-.22
Dec.	7.85	4.57	4.84	.60	3.70	3.97	-.22
Jan.	7.45	4.17	4.44	.60	3.30	3.57	-.22
Feb.	5.95	2.80	2.94	.60	1.94	2.07	-.22
Mar.	--	--	--	--	--	--	--
<b>1988/89</b>							
Oct.	10.60	7.78	7.78	--	6.95	6.95	--
Nov.	10.90	7.41	8.08	.71	6.58	7.25	-.13
Dec.	9.50	6.04	6.68	.36	5.20	5.85	-.48
Jan.	7.05	3.98	4.23	.49	3.14	3.40	-.35
Feb.	5.40	2.44	2.58	.67	1.61	1.75	-.17
Mar.	--	--	--	--	--	--	--
<b>1989/90</b>							
Oct.	--	--	--	--	--	--	--
Nov.	9.30	5.94	6.49	1.11	5.09	5.64	.26
Dec.	8.15	4.87	5.34	1.39	4.02	4.49	.54
Jan.	8.40	5.29	5.59	1.44	4.44	4.74	.59
Feb.	8.10	5.11	5.29	1.80	4.26	4.44	.95
Mar.	--	--	--	--	--	--	--
<b>1990/91</b>							
Oct.	--	--	--	--	--	--	--
Nov.	9.70	6.39	6.84	.45	5.53	5.98	-.42
Dec.	9.55	5.74	6.69	.45	4.88	5.83	-.42
Jan.	14.15	9.93	11.29	.45	9.07	10.43	-.42
Feb.	11.25	8.39	8.39	--	7.53	7.53	--
Mar.	--	--	--	--	--	--	--

1/ Net weight per carton, 37.5 pounds.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALL ORANGES: Acreage and production, Arizona, by counties, 1986/87-1990/91

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
<b>MARICOPA 3/</b>				
1986/87	6,310	2,560	880	3,440
1987/88	6,170	1,730	440	2,170
1988/89	6,070	1,540	500	2,040
1989/90	6,180	1,172	610	1,782
1990/91	6,110	1,476	460	1,936
<b>YUMA</b>				
1986/87	4,590	1,360	600	1,960
1987/88	4,430	1,120	350	1,470
1988/89	4,330	890	470	1,360
1989/90	4,020	1,146	292	1,438
1990/91	3,790	1,360	204	1,564

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Net weight per carton, 37.5 pounds.

3/ Includes small acreage and production in Pinal County.

## ALL ORANGES: Acreage, production, price and value, Arizona, 1986/87-1990/91

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1986/87	10,900	3,920	1,480	5,400	3.10	16,735
1987/88	10,600	2,850	790	3,640	4.10	14,929
1988/89	10,400	2,430	970	3,400	4.34	14,742
1989/90	10,200	2,318	902	3,220	4.25	13,663
1990/91	9,900	2,836	664	3,500	9.08	31,776

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Equivalent packinghouse door returns.

3/ Net weight per carton, 37.5 pounds.

## ALL ORANGES: Season average price and equivalent returns by utilization, Arizona 1986/87-1990/91

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
1986/87	6.65	3.10	4.06	.55	2.26	3.23	-.30
1987/88	7.75	4.10	4.94	1.08	3.23	4.07	.20
1988/89	8.30	4.34	5.54	1.33	3.46	4.67	.43
1989/90	7.90	4.25	5.09	2.07	3.30	4.15	1.11
1990/91	14.05	9.08	11.09	.48	8.02	10.04	-.62

1/ Net weight per carton, 37.5 pounds.

ALL ORANGES: Monthly prices and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
<b>1986/87</b>							
Oct.	9.00	5.50	6.35	-.06	4.68	5.53	-.88
Nov.	8.40	5.12	5.75	-.06	4.30	4.93	-.88
Dec.	7.15	3.78	4.50	-.06	2.96	3.68	-.88
Jan.	6.10	2.87	3.44	-.06	2.05	2.62	-.88
Feb.	5.30	2.20	2.71	.36	1.37	1.87	-.48
Mar.	5.80	2.37	3.26	.67	1.52	2.41	-.18
Apr.	6.00	2.49	3.47	.69	1.64	2.62	-.16
May	6.60	2.88	4.07	.69	2.03	3.22	-.16
June	5.95	2.54	3.42	.69	1.69	2.57	-.16
July	6.10	1.96	3.57	.69	1.11	2.72	-.16
<b>1987/88</b>							
Oct.	16.60	10.71	13.59	.60	9.85	12.72	-.22
Nov.	9.95	6.57	6.94	.60	5.70	6.07	-.22
Dec.	7.85	4.57	4.84	.60	3.70	3.97	-.22
Jan.	7.45	4.17	4.44	.60	3.30	3.57	-.22
Feb.	6.75	3.71	4.00	1.03	2.84	3.12	.16
Mar.	7.15	3.56	4.49	1.13	2.68	3.61	.25
Apr.	7.50	3.84	4.84	1.13	2.96	3.96	.25
May	7.20	3.56	4.54	1.13	2.68	3.66	.25
June	4.45	1.44	1.81	1.13	.56	.93	.25
July	8.00	1.78	5.34	1.13	.90	4.46	.25
<b>1988/89</b>							
Oct.	10.60	7.78	7.78	--	6.95	6.95	--
Nov.	10.90	7.41	8.08	.71	6.58	7.25	-.13
Dec.	9.50	6.04	6.68	.36	5.20	5.85	-.48
Jan.	7.05	3.98	4.23	.49	3.14	3.40	-.35
Feb.	6.95	3.49	4.20	.84	2.62	3.33	-.05
Mar.	8.30	4.56	5.58	.97	3.66	4.68	.07
Apr.	6.80	2.85	4.08	1.22	1.95	3.18	.32
May	6.75	2.89	4.03	1.44	1.99	3.13	.54
June	8.40	4.06	5.68	2.08	3.16	4.78	1.18
July	8.55	4.00	5.83	2.17	3.10	4.93	1.27
<b>1989/90</b>							
Oct.	--	--	--	--	--	--	--
Nov.	9.30	5.94	6.49	1.11	5.09	5.64	.26
Dec.	8.15	4.87	5.34	1.39	4.02	4.49	.54
Jan.	8.40	5.29	5.59	1.44	4.44	4.74	.59
Feb.	8.55	5.21	5.73	1.91	4.29	4.82	.95
Mar.	7.95	4.30	5.17	2.07	3.32	4.19	1.09
Apr.	7.35	3.82	4.57	2.07	2.85	3.59	1.09
May	7.60	3.87	4.82	2.20	2.90	3.84	1.22
June	6.95	3.28	4.17	2.20	2.31	3.19	1.22
July	4.74	2.10	1.96	2.30	1.04	.98	1.32
<b>1990/91</b>							
Oct.	--	--	--	--	--	--	--
Nov.	9.70	6.39	6.84	.45	5.53	5.98	-.42
Dec.	9.55	5.74	6.69	.45	4.88	5.83	-.42
Jan.	14.15	9.93	11.29	.45	9.07	10.43	-.42
Feb.	13.70	8.11	10.70	.51	6.97	9.56	-.64
Mar.	16.75	11.23	13.74	.51	10.08	12.59	-.64
Apr.	14.45	8.58	11.44	.41	7.43	10.29	-.74
May	16.80	10.74	13.79	.71	9.59	12.64	-.44
June	11.15	4.33	8.14	.51	3.18	6.99	-.64
July	--	--	--	--	--	--	--

1/ Net weight per carton, 37.5 pounds.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## TANGERINES: Acreage and production, Arizona, by counties, 1986/87-1990/91

County and crop year	Harvested 1/	Utilization of Production		
		Fresh	Processed	Total
	Acres	1,000 cartons 2/		
<b>MARICOPA 3/</b>				
1986/87	1,610	920	240	1,160
1987/88	2,030	620	140	760
1988/89	1,900	680	170	850
1989/90	2,100	545	205	750
1990/91	2,000	554	121	675
<b>YUMA</b>				
1986/87	1,590	530	110	640
1987/88	1,470	380	60	440
1988/89	1,700	360	90	450
1989/90	1,900	375	75	450
1990/91	1,700	440	85	525

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Net weight per carton, 37.5 pounds.

3/ Includes small acreage and production in Pinal County.

## TANGERINES: Acreage, production, price, and value, Arizona, 1986/87-1990/91

Crop year	Harvested 1/	Utilization of Production			Season average price 2/	Value of production
		Fresh	Processed	Total		
	Acres	1,000 cartons 3/			Dol. per ctn.	1,000 dol.
1986/87	3,200	1,450	350	1,800	6.11	11,001
1987/88	3,500	1,000	200	1,200	7.60	9,116
1988/89	3,600	1,040	260	1,300	7.65	9,936
1989/90	4,000	920	280	1,200	8.22	9,864
1990/91	3,700	994	206	1,200	9.36	11,226

1/ Acres harvested from Arizona Citrus, Fruit and Vegetable Standardization.

2/ Equivalent packinghouse door returns. Marketing season November 1-February 1.

3/ Net weight per carton, 37.5 pounds.

## TANGERINES: Season average price and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
1986/87	9.95	6.11	7.42	.69	5.26	6.57	-.16
1987/88	11.55	7.60	8.89	1.13	6.72	8.01	.25
1988/89	12.10	7.65	9.42	.71	6.78	8.52	-.20
1989/90	13.10	8.22	10.32	1.34	7.25	9.34	.36
1990/91	14.25	9.36	11.24	-.26	8.21	10.09	-.89

1/ Net weight per carton, 37.5 pounds.

## TANGERINES: Monthly prices and equivalent returns by utilization, Arizona, 1986/87-1990/91

Crop year and month	F.O.B. packed fresh	Equivalent returns					
		Packinghouse door			On-tree		
		All	Fresh	Processed	All	Fresh	Processed
Dollars per carton 1/							
<b>1986/87</b>							
Oct.	11.50	8.97	8.97	--	8.12	8.12	--
Nov.	10.00	6.02	7.47	.69	5.17	6.62	-.16
Dec.	11.25	6.98	8.72	.69	6.13	7.87	-.16
Jan.	11.25	7.03	8.72	.69	6.18	7.87	-.16
Feb.	7.95	4.55	5.42	.69	3.70	4.57	-.16
Mar.	6.85	3.95	4.32	.69	3.10	3.47	-.16
Apr.	.77	-1.76	-1.76	--	-2.61	-2.61	--
May	2.64	.11	.11	--	-.74	-.74	--
<b>1987/88</b>							
Oct.	--	--	--	--	--	--	--
Nov.	10.45	7.57	7.79	1.13	6.69	6.91	.25
Dec.	11.90	8.15	9.24	1.13	7.27	8.36	.25
Jan.	12.70	8.33	10.04	1.13	7.45	9.16	.25
Feb.	10.65	6.29	7.99	1.13	5.41	7.11	.25
Mar.	10.20	6.49	7.54	1.13	5.61	6.66	.25
Apr.	6.10	3.44	3.44	--	2.56	2.56	--
May	15.10	12.44	12.44	--	11.56	11.56	--
<b>1988/89</b>							
Oct.	--	--	--	--	--	--	--
Nov.	10.75	6.10	8.03	.70	5.20	7.13	-.20
Dec.	12.65	8.66	9.93	.70	7.76	9.03	-.20
Jan.	13.75	9.16	11.03	.64	8.26	10.13	-.26
Feb.	10.55	6.92	7.83	.65	6.02	6.93	-.25
Mar.	10.55	4.88	7.83	.75	3.98	6.93	-.15
Apr.	4.86	2.14	2.14	--	1.24	1.24	--
May	--	--	--	--	--	--	--
<b>1989/90</b>							
Oct.	12.30	7.54	9.52	.63	6.57	8.54	-.35
Nov.	11.80	6.87	9.02	.89	5.90	8.04	-.09
Dec.	15.05	9.47	12.27	1.31	8.49	11.29	.33
Jan.	13.35	9.41	10.57	1.49	8.43	9.59	.51
Feb.	11.05	6.18	8.27	1.51	5.20	7.29	.53
Mar.	10.45	5.40	7.67	1.63	4.43	6.69	.65
Apr.	--	--	--	--	--	--	--
May	--	--	--	--	--	--	--
<b>1990/91</b>							
Oct.	--	--	--	--	--	--	--
Nov.	11.75	7.02	8.74	.26	5.87	7.59	-.89
Dec.	13.95	9.85	10.94	.26	8.70	9.79	-.89
Jan.	15.35	10.43	12.34	.26	9.28	11.19	-.89
Feb.	13.30	7.68	10.29	.26	6.53	9.14	-.89
Mar.	16.00	10.87	12.99	.26	9.72	11.84	-.89
Apr.	--	--	--	--	--	--	--
May	--	--	--	--	--	--	--

1/ Net weight per carton, 37.5 pounds.

## DECIDUOUS FRUITS AND NUTS: Acreage in production, Arizona, by area, 1987-91 1/

Crop and area	1987	1988	1989	1990	1991
	Acres				
<b>FRUIT</b>					
<b>APRICOTS</b>					
Central	173	190	202	162	150
Western	27	9	4	4	0
Total	200	199	206	166	150
<b>FIGS</b>					
Central	90	90	90	90	90
Total	90	90	90	90	90
<b>NECTARINES</b>					
Central	46	30	36	36	40
Total	46	30	36	36	40
<b>PEACHES</b>					
Central	123	78	136	136	96
Eastern	448	249	264	327	327
Western	57	60	92	92	68
Total	628	387	492	555	491
<b>PLUMS</b>					
Central	92	13	10	0	10
Total	92	13	10	0	10
<b>NUTS</b>					
<b>PECANS</b>					
Central	9,317	8,793	8,843	8,446	8,482
Eastern	3,359	3,840	3,873	3,873	4,288
Western	1,442	1,419	1,419	692	692
Total	14,118	14,052	14,135	13,011	13,462
<b>PISTACHIOS</b>					
Central	484	459	459	459	459
Eastern	670	1,029	1,108	1,112	1,112
Western	152	157	157	157	157
Total	1,306	1,645	1,724	1,728	1,728
<b>ALMONDS</b>					
Central	2,800	0	0	0	0
Total	2,800	0	0	0	0

1/ Central area includes Maricopa, Pinal and Pima counties, eastern area includes Graham, Cochise, and Santa Cruz counties, and western area includes La Paz and Yuma counties.

Source: Arizona Citrus, Fruit and Vegetable Standardization.

DECIDUOUS FRUITS: Acres, production, and value, Arizona, 1987-91 1/

Crop	Year	Acres in production	Unit	Utilized production	Value of production
		Acres		1,000 units	1,000 dollars
APRICOTS	1987	200	26 lb. ctn.	14	110
	1988	199		90	333
	1989	206		14	75
	1990	166		3	12
	1991	150		8	59
NECTRARINES	1987	46	26 lb. ctn.	8	44
	1988	30		23	85
	1989	36		5	21
	1990	36		1	5
	1991	40		3	13
PEACHES	1987	628	26 lb. ctn.	113	465
	1988	387		97	286
	1989	492		68	224
	1990	555		53	198
	1991	491		58	300

1/ Developed with the assistance of the Arizona Citrus, Fruit and Vegetable Standardization, the Arizona Cooperative Extension Service, Market News Service, and local growers.



## CATTLE AND CALVES

Arizona's inventory of cattle and calves, taken on January 1, 1992, showed 900,000 cattle valued at over 535 million dollars, up 60,000 head and 15 million dollars from the previous January. While steers 500 pounds and over in inventory fell 18,000 head from 1991, 30,000 more beef cows and 44,000 additional heifers, steers, and bulls under 500 pounds accounted for most of the increase in the inventory. The 1991 calf crop of 300,000 head was 7.1 percent above the 1990 figure.

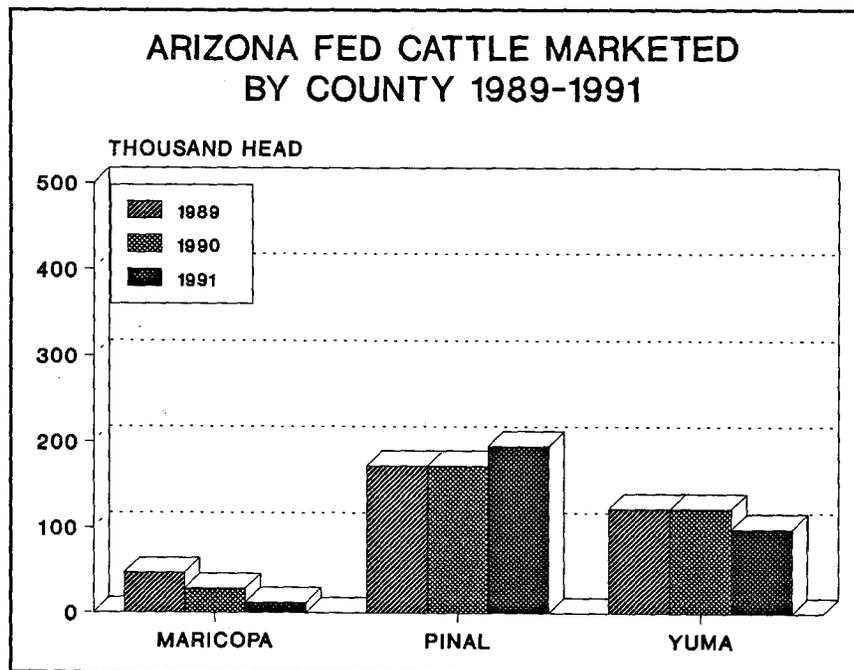
Record highs in cattle and calf prices occurred during the Spring of 1991, with downward pressure during the second half of the year. The marketing year average price per hundredweight (cwt.) for all beef cattle rose to \$73.20, up from \$71.70 for 1990. Steers and heifers brought a marketing year average of \$76.60 per cwt., having peaked in May at \$83.40. Calf prices also reached record levels, hovering above \$100 per cwt. from February through May before ending the year at \$85.80. Calves averaged \$94.90 per cwt. for the 1991 marketing year, up \$3.00 from 1990.

Gross income on the 698 million pounds of marketings (excluding in-state interfarm sales and farm slaughter) rose 3.7 percent from 1990 to 1991 topping out at 519 million dollars.

Arizona's 13 feedlots marketed 306,000 head in 1991, a decline of 7,000 from the previous year. As of April 1, 1992, 203,000 cattle on feed were reported in Arizona. Of these, 194,000 were steers on feed for slaughter along with 9,000 heifers. Heifers on feed in Arizona feedlots historically have comprised less than 5 percent of the total number on feed.

Arizona's 22 livestock slaughtering establishments produced 238.8 million pounds of red meat during 1991, 12 million more pounds than in 1990. Nearly 350,000 cattle were slaughtered, an increase of over 5,000 head from the previous year.

In-shipments of cattle to Arizona from other states and Mexico fell over 6 percent during 1991 from their 1990 level. Most cattle shipped into Arizona are destined for feedlots. Fed cattle marketings account for about half of all cattle sold in Arizona.



**ALL CATTLE AND MILK COWS: Number of operations and inventory, Arizona and United States, January 1, 1988-92 1/**

Year	Arizona				United States			
	All cattle and calves		Milk cows		All cattle and calves		Milk cows	
	Operations	Head	Operations	Head	Operations	Head	Operations	Head
	Number	Thousand	Number	Thousand	Number	Thousand	Number	Thousand
1988	4,800	960	550	90	1,355,720	99,622	217,440	10,311
1989	4,600	880	500	92	1,323,300	98,065	203,710	10,212
1990	4,600	830	500	91	1,288,590	98,162	193,880	10,153
1991	4,500	840	500	96	1,246,470	98,896	181,570	10,156
1992	2/	900	2/	96	2/	100,110	2/	9,904

1/ An operation is any place having one or more head of the species on hand at any time during the year.

2/ Not available until January, 1993.

**ALL CATTLE AND CALVES: Number on farms and value, Arizona, January 1, 1988-92**

Year	All cattle and calves	Cows		Heifers 500 lbs. and over			Steers 500 lbs. and over	Bulls 500 lbs. and over	Heifers, steers and bulls under 500 lbs.	Value of all cattle and calves	
		Beef cows	Milk cows	Beef cow replacement	Milk cow replacement	Other heifers				Per head	Total
1988	960	260	90	51	19	14	299	27	200	500	480,000
1989	880	263	92	49	20	12	262	26	156	565	497,200
1990	830	259	91	48	20	11	215	24	162	585	485,550
1991	840	249	96	45	20	13	235	26	156	620	520,800
1992	900	279	96	46	20	15	217	27	200	595	535,500

**ALL CATTLE AND CALVES: Inventory, supply, and disposition, Arizona, 1987-92**

Year	Inventory January 1	Calf Crop	Inshipments	Marketings 1/		Farm slaughter 2/	Slaughter	
				Cattle	Calves		Cattle	Calves
				1,000 head				
1987	1,000	295	540	743	71	5	26	30
1988	960	300	490	720	92	3	25	30
1989	880	290	410	605	92	3	25	25
1990	830	280	520	630	92	3	30	35
1991	840	300	486	595	63	3	25	40
1992	900							

1/ Includes animals for slaughter market, as well as younger animals shipped to other States for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

2/ Excludes custom slaughter for farmers at commercial establishments.

**ALL CATTLE AND CALVES: Production and income, Arizona, 1987-91**

Year	Production 1/	Marketings 2/	Average price per 100 pounds		Value of production	Cash receipts 3/	Value of home consumption	Gross income
			Cattle	Calves				
			Dollars					
1987	580,735	787,945	61.00	74.90	355,762	483,269	4,875	488,144
1988	531,780	779,560	65.80	87.30	352,027	518,411	3,050	521,461
1989	454,680	671,800	66.30	86.70	307,755	450,771	3,108	453,879
1990	467,850	685,990	71.70	91.90	340,456	497,166	3,298	500,464
1991	514,220	698,260	73.20	94.90	384,903	515,831	3,220	519,051

1/ Includes total live weight of livestock marketed, farm slaughter, and custom slaughter consumed on farms where produced, minus liveweight of inshipments, and any increase or decrease in the live weight of inventory.

2/ Includes animals for slaughter market, as well as younger animals shipped to other States for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

3/ Receipts from marketings and sale of farm slaughter.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALL CATTLE AND CALVES: Number on farms, Arizona, by counties, January 1, 1988-92 1/

County and year	All cattle and calves 1,000 head	County and year	All cattle and calves 1,000 head	County and year	All cattle and calves 1,000 head
<b>APACHE</b>		<b>COCHISE</b>		<b>COCONINO</b>	
1988	54	1988	60	1988	47
1989	54	1989	57	1989	49
1990	52	1990	60	1990	46
1991	55	1991	63	1991	50
1992	55	1992	66	1992	58
<b>GILA</b>		<b>GRAHAM</b>		<b>GREENLEE</b>	
1988	34	1988	39	1988	10
1989	32	1989	38	1989	12
1990	29	1990	34	1990	9
1991	32	1991	40	1991	13
1992	33	1992	38	1992	12
<b>LA PAZ</b>		<b>MARICOPA</b>		<b>MOHAVE</b>	
1988	4	1988	187	1988	23
1989	4	1989	182	1989	23
1990	2	1990	181	1990	18
1991	2	1991	158	1991	20
1992	2	1992	167	1992	24
<b>NAVAJO</b>		<b>PIMA</b>		<b>PINAL</b>	
1988	50	1988	45	1988	220
1989	50	1989	48	1989	148
1990	45	1990	42	1990	139
1991	45	1991	40	1991	162
1992	44	1992	47	1992	179
<b>SANTA CRUZ</b>		<b>YAVAPAI</b>		<b>YUMA</b>	
1988	20	1988	53	1988	114
1989	18	1989	60	1989	105
1990	16	1990	57	1990	100
1991	17	1991	60	1991	83
1992	20	1992	60	1992	95
<b>ARIZONA</b>					
1988	960				
1989	880				
1990	830				
1991	840				
1992	900				

1/ Includes range cattle and calves, milk cows, and cattle on feed.

## MILK COWS: Number on farms, Arizona, by counties, January 1, 1988-92

County and year	Milk cows 1,000 head	County and year	Milk cows 1,000 head	County and year	Milk cows 1,000 head
<b>MARICOPA</b>		<b>PIMA</b>		<b>PINAL</b>	
1988	77	1988	5	1988	5
1989	77	1989	5	1989	7
1990	76	1990	3	1990	7
1991	82	1991	1/	1991	8
1992	82	1992	1/	1992	8
<b>OTHER COUNTIES 2/</b>		<b>ARIZONA</b>			
1988	3	1988	90		
1989	3	1989	92		
1990	5	1990	91		
1991	6	1991	96		
1992	6	1992	96		

1/ Milk cows included in Other Counties to avoid disclosure of individual operations.

2/ Milk cows included in Other Counties are primarily herds in Yavapai and Pima counties.

**CATTLE AND CALVES: Number on feed, placements, marketings, and other disappearance, Arizona, 1987-91**

Month	1987	1988	1989	1990	1991
<b>1,000 head</b>					
<b>JANUARY</b>					
Number on feed January 1	343	351	275	253	232
Placed on feed during January	31	28	16	26	26
Marketed during January	33	29	22	24	27
Other disappearance during January	12	11	9	9	3
<b>FEBRUARY</b>					
Number on feed February 1	329	339	260	246	228
Placed on feed during February	32	29	15	18	20
Marketed during February	33	35	24	25	26
Other disappearance during February	10	21	5	5	3
<b>MARCH</b>					
Number on feed March 1	318	312	246	234	219
Placed on feed during March	29	28	30	22	18
Marketed during March	41	43	34	33	34
Other disappearance during March	9	6	5	10	2
<b>APRIL</b>					
Number on feed April 1	297	291	237	213	201
Placed on feed during April	36	41	24	22	17
Marketed during April	46	54	45	34	30
Other disappearance during April	9	9	9	5	3
<b>MAY</b>					
Number on feed May 1	278	269	207	196	185
Placed on feed during May	44	35	14	22	27
Marketed during May	54	59	42	36	36
Other disappearance during May	13	16	9	10	11
<b>JUNE</b>					
Number on Feed June 1	255	229	170	172	165
Placed on feed during June	52	37	23	25	17
Marketed during June	62	52	36	34	31
Other disappearance during June	2	3	2	3	4
<b>JULY</b>					
Number on feed July 1	243	211	155	160	147
Placed on feed during July	45	26	31	30	22
Marketed during July	43	35	30	30	29
Other disappearance during July	7	2	3	2	2
<b>AUGUST</b>					
Number on feed August 1	238	200	153	158	138
Placed on feed during August	67	35	43	35	24
Marketed during August	34	35	24	26	26
Other disappearance during August	3	1	1	2	2
<b>SEPTEMBER</b>					
Number on feed September 1	268	199	171	165	134
Placed on feed during September	64	44	43	39	36
Marketed during September	26	27	19	20	18
Other disappearance during September	6	2	2	4	1
<b>OCTOBER</b>					
Number on feed October 1	300	214	193	180	151
Placed on feed during October	69	70	62	46	59
Marketed during October	28	21	18	20	15
Other disappearance during October	2	4	1	2	2
<b>NOVEMBER</b>					
Number on feed November 1	339	259	236	204	193
Placed on feed during November	39	40	41	42	52
Marketed during November	33	22	25	17	16
Other disappearance during November	3	7	1	5	2
<b>DECEMBER</b>					
Number on feed December 1	342	270	251	224	227
Placed on feed during December	40	31	27	28	25
Marketed during December	27	16	23	14	18
Other disappearance during December	4	10	2	6	10

## 1991 ARIZONA AGRICULTURAL STATISTICS

## CATTLE ON FEED: Inventory by class and weight group, Arizona, quarterly, January 1, 1987 - April 1, 1992

Date	Total	Steers and steer calves	Heifers and heifer calves	Weight group				
				Under 500 lbs.	500-699 lbs.	700-899 lbs.	900-1099 lbs.	1100 lbs. and over
1,000 head								
<b>1987</b>								
Jan. 1	343	334	9	86	124	92	38	3
Apr. 1	297	291	6	35	78	118	65	1
July 1	243	239	4	36	66	84	55	2
Oct. 1	300	296	4	90	95	70	43	2
<b>1988</b>								
Jan. 1	351	343	8	63	124	90	73	1
Apr. 1	291	284	7	37	59	86	100	9
July 1	211	207	4	39	43	71	55	3
Oct. 1	214	209	5	67	54	57	30	6
<b>1989</b>								
Jan. 1	275	265	10	43	88	81	58	5
Apr. 1	237	232	5	36	40	77	80	4
July 1	155	151	4	22	35	47	47	4
Oct. 1	193	186	7	40	76	47	28	2
<b>1990</b>								
Jan. 1	253	241	12	54	74	67	55	3
Apr. 1	213	202	11	40	48	69	54	2
July 1	160	155	4	32	44	39	43	1
Oct. 1	180	176	4	45	60	41	32	2
<b>1991</b>								
Jan. 1	232	225	6	37	70	77	43	4
Apr. 1	201	193	8	34	39	60	58	10
July 1	147	140	7	25	33	38	41	10
Oct. 1	151	145	6	39	54	31	23	4
<b>1992</b>								
Jan. 1	217	205	12	43	70	68	31	5
Apr. 1	203	194	9	25	48	69	54	7

## CATTLE ON FEED: Number of feedlots and marketings by size of feedlot capacity, Arizona, 1987-91

Year	Feedlot capacity in number of head							
	Under 15,999		16,000 - 31,999		32,000 and over		Total	
	Lots	Cattle marketed	Lots	Cattle marketed	Lots	Cattle marketed	Lots	Cattle marketed
	Number	1,000 head	Number	1,000 head	Number	1,000 head	Number	1,000 head
1987	9	17	6	177	5	266	20	460
1988	8	15	5	109	5	304	18	428
1989	7	15	5	113	3	214	15	342
1990	6	11	5	99	3	203	14	313
1991	5	12	5	107	3	187	13	306

**CATTLE ON FEED: Arizona, by counties, monthly, 1987-92**

County	Jan. 1	Feb. 1	Mar. 1	Apr. 1	May 1	June 1	July 1	Aug. 1	Sept. 1	Oct. 1	Nov. 1	Dec. 1
1,000 head												
<b>1987</b>												
Maricopa	68	56	48	41	37	33	30	26	29	30	35	36
Pinal	170	175	170	160	140	128	124	125	140	161	189	194
Yuma	105	98	100	96	101	94	89	87	99	109	115	112
Other Counties	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	343	329	318	297	278	255	243	238	268	300	339	342
<b>1988</b>												
Maricopa	37	36	34	29	29	25	25	26	29	34	39	40
Pinal	200	193	173	161	137	113	93	85	87	92	121	129
Yuma	113	110	105	101	103	91	92	88	83	88	98	101
Other Counties	1	0	0	0	0	0	1	1	0	0	1	0
ARIZONA	351	339	312	291	269	229	211	200	199	214	259	270
<b>1989</b>												
Maricopa	43	38	32	28	22	17	16	16	17	21	31	36
Pinal	129	123	121	119	102	85	75	76	79	90	110	118
Yuma	103	99	93	90	83	68	64	61	75	82	95	97
Other Counties	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	275	260	246	237	207	170	155	153	171	193	236	251
<b>1990</b>												
Maricopa	34	33	30	24	23	17	16	18	8	9	9	10
Pinal	122	118	112	104	96	86	83	78	90	102	121	134
Yuma	97	95	92	85	77	69	61	62	67	69	74	80
Other Counties	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	253	246	234	213	196	172	160	158	165	180	204	224
<b>1991</b>												
Maricopa	9	9	9	9	8	6	5	4	4	4	4	4
Pinal	142	139	133	123	115	101	89	85	81	90	113	131
Yuma	81	80	77	69	62	58	53	49	49	57	76	92
Other Counties	0	0	0	0	0	0	0	0	0	0	0	0
ARIZONA	232	228	219	201	185	165	147	138	134	151	193	227
<b>1992</b>												
Maricopa	4	4	4	4								
Pinal	120	117	110	107								
Yuma	93	92	91	92								
Other Counties	0	0	0	0								
ARIZONA	217	213	205	203								

**FED CATTLE MARKETED FOR SLAUGHTER: Arizona, by counties, 1987-1991**

Year	Maricopa	Pinal	Yuma	Other Counties	Total
1,000 head					
1987	91	233	136	0	460
1988	49	229	149	1	428
1989	47	172	123	0	342
1990	28	172	113	0	313
1991	12	195	99	0	306

## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALL CATTLE: Monthly and marketing year average prices received by producers, Arizona, 1987-91

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Marketing year average
Dollars per cwt.													
<u>ALL BEEF CATTLE 1/</u>													
1987	55.30	58.70	60.60	63.10	64.20	63.50	60.80	61.10	61.60	57.60	57.60	59.90	61.00
1988	59.50	65.10	68.00	66.80	69.40	65.50	64.50	67.50	65.70	65.50	64.00	61.90	65.80
1989	66.60	70.30	69.50	67.40	66.70	64.00	66.60	68.20	63.70	62.40	61.70	67.30	66.30
1990	68.60	69.20	74.20	69.20	70.20	70.70	71.50	73.90	73.40	71.40	72.30	74.50	71.70
1991	72.90	74.60	76.00	76.00	80.40	77.10	73.60	71.80	70.80	69.80	66.90	66.20	73.20
<u>STEERS AND HEIFERS</u>													
1987	58.50	62.40	62.80	66.70	67.50	65.80	63.30	65.50	66.80	64.60	64.40	64.00	64.60
1988	65.90	68.00	69.60	70.70	72.50	68.20	66.40	69.60	69.20	71.80	72.80	71.40	69.80
1989	73.60	74.10	75.80	73.00	72.80	70.10	70.80	73.60	70.40	71.50	73.10	75.10	72.90
1990	75.80	77.20	77.30	77.10	75.80	73.70	73.70	77.20	77.00	77.70	78.00	77.50	76.50
1991	77.10	78.10	78.70	79.40	83.40	79.20	75.80	73.70	73.80	76.70	71.20	69.00	76.60
<u>CALVES</u>													
1987	65.10	68.80	69.40	72.20	72.70	72.50	73.60	81.70	87.40	79.90	81.60	78.70	74.90
1988	87.00	90.60	86.90	86.10	87.20	78.20	80.00	88.10	86.90	86.90	89.40	88.40	87.30
1989	90.10	93.60	89.10	83.40	85.20	86.70	84.80	92.20	90.10	86.60	83.70	80.70	86.70
1990	88.90	91.40	96.00	94.80	95.40	86.70	90.50	93.50	91.70	88.40	91.40	93.10	91.90
1991	95.20	101.00	103.00	103.00	102.00	94.00	95.20	92.90	95.10	91.20	88.20	85.80	94.90
<u>COWS</u>													
1987	40.00	41.80	43.00	42.20	41.40	41.70	42.50	44.00	45.70	43.00	42.10	43.30	42.60
1988	46.90	48.10	48.70	46.90	45.40	42.60	43.40	46.00	44.40	43.80	43.40	44.90	45.20
1989	46.40	51.80	47.60	46.10	44.30	45.10	45.70	47.90	48.50	45.80	44.10	44.60	46.30
1990	48.00	54.80	53.00	51.50	52.10	47.80	49.90	55.10	53.80	51.20	47.30	50.20	51.30
1991	49.90	52.10	54.20	54.10	52.90	51.10	48.60	48.20	47.20	46.20	45.20	44.20	49.30

1/ Includes steers and heifers, and cows.

## HORSES

The noble horse has been a vital part of Arizona agriculture for more than a century. Over a hundred years ago, the Arizona Territory had more horses than people and horses were a necessity for frontier living. As times have changed, so have the uses of horses. Today, pleasure use, horse racing, breeding, and general ranch use make up the primary use of horses.

University of Arizona researchers estimated that Arizona had over 166,400 horses in 1990. Just over half of these were classified as pleasure horses, those owned by private households and not used commercially. Approximately 3% of Arizona households own a pleasure horse according to the study. An estimated 47,600 horses were owned by 1,900 commercial horse operations. These are operations with over \$25,000 of annual expenses and/or two or more employees. The study found 4,800 semi-commercial horse operations with 33,000 horses.

The researchers found that the horse industry was directly responsible for nearly 10,000 jobs and \$460 million in expenditures annually in Arizona. Horses have a healthy appetite for Arizona agricultural products, as Arizona feed producers and alfalfa farmers can testify. The feed bill for Arizona's horse herd exceeds \$50 million dollars annually.

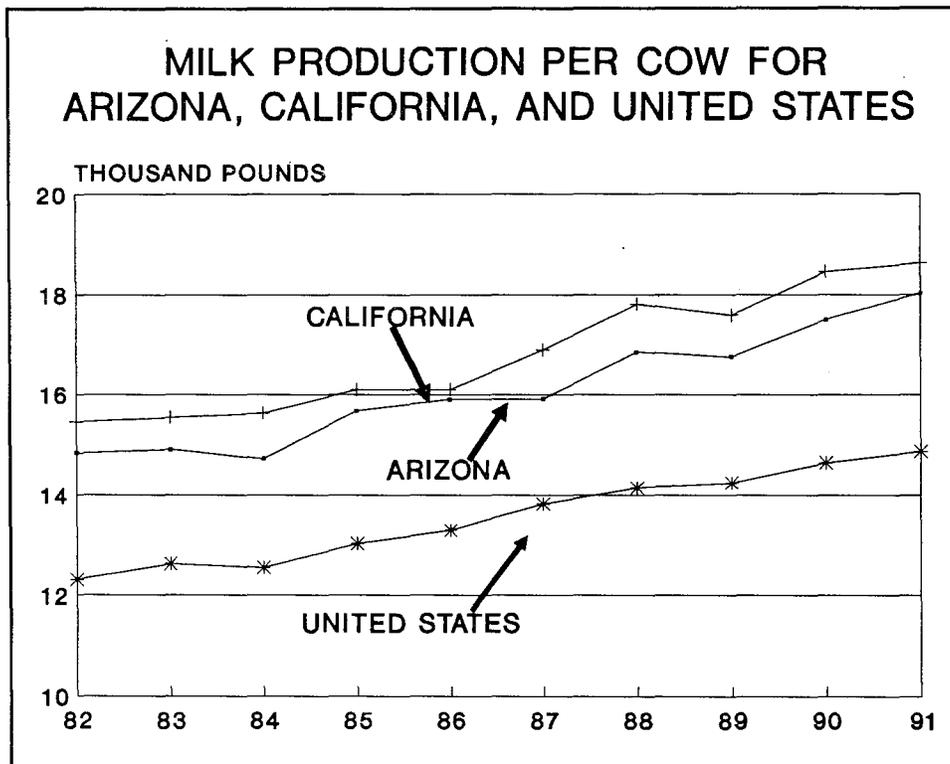
Households owning pleasure horses typically spend \$300 per year on veterinary services, \$310 for shoeing, \$1,200 for boarding and \$180 per year on miscellaneous expenditures. Total costs of ownership were \$4,600 per household once land, buildings, and equipment are figured in. The average pleasure horse household has slightly over two horses.

Wild horses still exist in untamed parts of Arizona. The U.S. Bureau of Land Management estimates that fewer than 1,000 wild horses inhabit sparsely settled desert rangeland in Mohave and Yuma counties. The BLM's Adopt-a-Horse program was founded in 1974 to permit the excess horse population to be humanely settled with families rather than be exterminated. In 1991, approximately 50 horses were purchased for the \$125 adoption fee.

DAIRY

The average number of milk cows maintained by Arizona's 500 dairy operations increased by 1,000 to reach 95,000 head during 1991. As of January 1, 1992 the number of milk cows totaled 96,000 head, no change from the January 1991 inventory. Milk production per cow set another record with an average of slightly over 18 thousand pounds per milk cow being produced. This was an increase of 532 pounds in one year.

Milk production also hit a record high with 1.71 billion pounds being produced during 1991. Producer cash receipts from milk fell to 207.6 million dollars driven by a \$1.90 decrease in average returns per 100 pounds of milk. The 1991 average returns figure for milk of \$12.20 was the lowest since 1978. Dairy feed prices were down in 1991 compared to 1990 in Arizona, with the annual average feed value per hundredweight of milk reaching \$3.30, down 23 cents.



## 1991 ARIZONA AGRICULTURAL STATISTICS

## DAIRY: Milk cows and milk production, Arizona, quarterly, 1987-1991

Year	Milk Cows					Milk Production				
	January-March	April-June	July-September	October-December	Average number during year	January-March	April-June	July-September	October-December	Annual Total
	1,000 head					Million lbs.				
1987	89	91	91	90	90	366	371	331	364	1,432
1988	90	89	88	90	89	401	398	334	367	1,500
1989	88	89	93	94	91	396	393	338	398	1,525
1990	92	94	95	96	94	439	432	360	414	1,645
1991	96	94	93	95	95	445	442	385	441	1,713

## DAIRY: Milk cows, production of milk and milkfat, and value, Arizona, 1987-1991

Year	Milk cows 1/	Production per milk cow		Milkfat	Total Production		Value
		Milk	Milkfat		Milk	Milkfat	
	1,000 head	Lbs.		Percent	Million lbs.		1,000 dol.
1987	90	15,911	592	3.72	1,432	53.3	183,296
1988	89	16,854	632	3.75	1,500	56.3	186,000
1989	91	16,758	617	3.68	1,525	56.1	207,400
1990	94	17,500	630	3.60	1,645	59.2	231,945
1991	95	18,032	649	3.60	1,713	61.7	208,986

1/ Average number on farms during year, excluding heifers not yet fresh.

2/ Includes sales of milk, cream and butter, value of milk used for home consumption and value of milk fed to calves.

## MILK USED AND MARKETED BY PRODUCERS: Arizona, 1987-1991

Year	Milk used where produced			Milk marketed by producers		
	Fed to calves	Used for milk, cream and butter	Total	Sold to plants, and dealers	Sold directly to consumers	Total
	Million lbs.					
1987	5	1	6	1,426	1/	1,426
1988	8	2	10	1,490	1/	1,490
1989	7	2	9	1,516	1/	1,516
1990	8	2	10	1,635	1/	1,635
1991	8	3	11	1,702	1/	1,700

1/ Sales nominal. Included with milk sold to plants and dealers.

## MILK PRODUCTION: Marketings and income, Arizona, 1987-1991

Year	Combined marketings of milk and cream				Used for milk, cream and butter where produced		Gross producer income
	Milk utilized	Average returns		Cash receipts from marketings	Milk utilized	Value	
		Per 100 lbs. of milk	Per lb. of milkfat				
	Million lbs.	Dollars		1,000 dol.	Million lbs.	1,000 dol.	
1987	1,426	12.80	3.44	182,528	1	128	182,656
1988	1,490	12.40	3.31	184,760	2	248	185,008
1989	1,516	13.60	3.70	206,176	2	272	206,448
1990	1,635	14.10	3.92	230,535	2	282	230,817
1991	1,702	12.20	3.39	207,644	3	366	208,010

**GRAIN AND OTHER CONCENTRATES: Quantity fed to milk cows and value, Arizona, 1987-91 1/**

Year	Quantity fed to milk cows			Value of feed fed per cwt.	Feed value per cwt. of milk produced
	Total	Per cow	Per cwt. of milk produced		
	1,000 tons	Pounds	Pounds		
1987	351	7,800	49	6.22	3.05
1988	360	8,090	48	6.88	3.30
1989	368	8,090	48	7.30	3.50
1990	394	8,370	48	7.36	3.53
1991	394	8,290	46	7.19	3.30

1/ Estimates for all places where milk produced, either for sale or for home use.

**DAIRY PLANTS: Arizona, 1987-91 1/**

1987	1988	1989	1990	1991
Number				
7	7	8	8	7

1/ Plants manufacturing one or more dairy products

**ICE CREAM: Production, Arizona, monthly and annual, 1987-91**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1,000 gallons													
1987	450	594	595	688	642	707	679	619	540	592	460	340	6,906
1988	430	674	726	584	611	506	605	700	707	628	423	418	7,012
1989	613	671	763	617	601	687	712	668	585	608	508	409	7,442
1990	504	549	650	780	664	687	782	762	412	533	460	449	7,232
1991	522	515	670	495	760	770	766	602	594	469	349	415	6,927

**ICE MILK: Production, Arizona, monthly and annual, 1987-91**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1,000 gallons													
1987	351	441	490	517	515	576	611	494	518	488	394	361	5,756
1988	362	459	512	503	512	518	451	553	514	482	439	438	5,743
1989	394	441	580	532	590	542	540	588	558	434	383	337	5,919
1990	436	488	465	603	596	535	586	704	479	526	430	446	6,294
1991	415	436	445	682	578	531	674	616	465	601	435	375	6,253

**MILK SHERBET: Production, Arizona, monthly and annual, 1987-91**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
1,000 gallons													
1987	34	51	67	72	59	68	84	62	71	38	41	28	675
1988	39	56	60	52	63	65	79	56	50	55	34	32	641
1989	42	29	57	56	59	42	59	50	46	42	32	51	565
1990	21	27	58	42	30	40	45	39	26	30	21	25	404
1991	24	37	25	31	28	37	33	37	30	30	20	22	354

## SHEEP, LAMBS, AND WOOL

At the beginning of 1992, sheep and lamb inventories in Arizona stood at 225,000 head, a drop of 25,000 from the previous January. The number of stock sheep fell for the third consecutive year to 180,000 head, accounting for four-fifths of all sheep in the state. Breeding ewes declined by 13,000 to 150,000 head. New crop lambs fell 10 percent to 45,000 head, the lowest level since 1988. Sheep and lambs on feed remained at 45,000 head. Slightly under two-thirds of all sheep in the state are to be found on Indian reservations due to the rich cultural heritage and weaving traditions of Arizona's Native American population.

Sheep and lamb marketings rose to reach 22 million pounds. Average prices per hundredweight received by Arizona stockmen were again depressed for both sheep and lambs. The 19.80 per hundredweight price for sheep was 4.20 below the 1990 price. The 48.40 per hundredweight price for lambs was 13.70 under the 1990 level and was the lowest price since 1975. Cash receipts were 8.9 million dollars.

Inshipments rose to 106,000 head, up 6,000 from 1990. This increase, amid declines in inventories, reflects more winter grazing of sheep from Montana, Idaho, Colorado, Utah, New Mexico, and Wyoming on Arizona alfalfa fields. Inter-mountain sheep producers are finding the cost of shipping their sheep to Arizona is more than recovered by profitable weight gains under healthier conditions.

Average wool prices continued to decline, falling 33.3 percent, to reach 42 cents per pound, down from the 1990 price of 63 cents. Value of wool production dwindled to 626,000 dollars, the lowest level since 1971.

## SHEEP: Number of operations and inventory, January 1, Arizona and United States, 1988-92 1/

Year	Arizona		United States	
	Operations	Head	Operations	Head
	Number	Thousand	Number	Thousand
1988	500	284	113,440	10,945.4
1989	450	284	111,140	10,857.5
1990	450	262	108,940	11,363.3
1991	450	250	105,710	11,200.1
1992	2/	225	2/	10,849.9

1/ An operation is any place having one or more sheep on hand during the year.

2/ Not available until January 1993.

## SHEEP: By class, farm value and lamb crop, Arizona, January 1, 1988-92

Year	Stock sheep and lambs 1/		Sheep and lambs on feed 2/	All sheep and lambs	Farm value		Lamb crop	
	Ewes	Rams and wethers			Per head	Total	Breeding ewes Jan. 1	Lambs saved
	1,000 head				Dollars	1,000 dol.	1,000 head	
1988	208	29	47	284	89.50	25,418	180	125
1989	211	28	45	284	90.00	25,560	185	130
1990	197	23	42	262	89.00	23,318	170	115
1991	185	20	45	250	80.00	20,000	163	105
1992	165	15	45	225	83.00	18,675	150	3/

1/ Ewes, rams and wethers of all ages excluding new crop lambs.

2/ Excludes stock sheep and lambs and new crop lambs.

3/ Not available until January, 1993.

## SHEEP AND LAMBS: Inventory, supply, and disposition, Arizona, 1987-January 1, 1992

Year	Inventory January 1	Lamb crop	Inshipments	Marketings 1/		Farm slaughter 2/	Deaths	
				Sheep	Lambs		Sheep	Lambs
				1,000 head				
1987	283	120	95	63	117	14	9	11
1988	284	125	93	67	117	13	9	12
1989	284	130	71	75	114	13	9	12
1990	262	115	100	71	124	13	8	11
1991	250	105	106	52	158	13	3	10
1992	225							

1/ Includes animals for slaughter market, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

2/ Excludes custom slaughter for farmers at commercial establishments.

**SHEEP AND LAMBS: Production and income, Arizona, 1987-91**

Year	Production 1/ 1,000 lbs.	Marketings 2/ 1,000 lbs.	Average price per 100 pounds		Value of production	Cash Receipts 3/ 1,000 dol.	Value of home consumption	Gross income
			Sheep	Lambs				
1987	12,540	19,260	21.40	74.80	6,029	10,369	605	10,974
1988	12,885	19,740	26.70	80.70	8,128	11,589	660	12,249
1989	12,795	20,400	27.90	71.50	7,354	10,662	625	11,287
1990	12,450	20,920	24.00	62.10	6,209	9,745	541	10,286
1991	12,905	22,040	19.80	48.40	5,201	8,883	432	9,315

1/ Includes total live weight of livestock marketed, farm slaughter, and custom slaughter consumed on farms where produced, minus live weight of inshipments, and any increase or decrease in live weight of inventory.

2/ Includes animals for slaughter market, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

3/ Receipts from marketings and sale of farm slaughter.

**SHEEP AND LAMBS: Number on farms, Arizona, by counties, January 1, 1988-92**

County and year	Stock sheep and lambs 1/	Sheep and lambs on feed 2/	All sheep and lambs 1/	New crop lambs	County and year	Stock sheep and lambs 1/	Sheep and lambs on feed 2/	All sheep and lambs 1/	New crop lambs
1,000 head					1,000 head				
<b>APACHE</b>					<b>COCONINO</b>				
1988	92	0	92	7	1988	31	0	31	2
1989	94	0	94	15	1989	33	0	33	6
1990	90	0	90	13	1990	30	0	30	6
1991	85	0	85	13	1991	28	0	28	6
1992	70	0	70	12	1992	24	0	24	5
<b>MARICOPA</b>					<b>NAVAJO</b>				
1988	24	17	41	13	1988	59	0	59	4
1989	18	13	31	10	1989	62	0	62	9
1990	18	10	28	10	1990	60	0	60	9
1991	15	8	23	9	1991	58	0	58	9
1992	17	8	25	8	1992	47	0	47	8
<b>PINAL</b>					<b>YUMA</b>				
1988	13	14	27	4	1988	8	15	23	3
1989	17	19	36	9	1989	7	12	19	4
1990	11	15	26	7	1990	7	12	19	4
1991	9	14	23	7	1991	5	15	20	3
1992	14	12	26	8	1992	4	20	24	2
<b>OTHER COUNTIES</b>					<b>ARIZONA</b>				
1988	10	1	11	3	1988	237	47	284	36
1989	8	1	9	3	1989	239	45	284	56
1990	4	5	9	4	1990	220	42	262	53
1991	5	8	13	3	1991	205	45	250	50
1992	4	5	9	2	1992	180	45	225	45

1/ Excludes new crop lambs (those born after September 30 the previous year and on hand January 1).

2/ Includes sheep and lambs being fattened for slaughter market on grain, other concentrates, or succulent pastures. Excludes stock sheep and lambs and new crop lambs.

**WOOL PRODUCTION AND VALUE: Arizona, 1987-91**

Year	All Sheep shorn 1/	Weight per fleece	Shorn wool production	Average price per pound	Value of production 2/
	1,000 head	Pounds	1,000 lbs.	Cents	1,000 dol.
1987	269	7.2	1,950	69	1,346
1988	267	6.6	1,750	108	1,890
1989	240	6.8	1,630	110	1,793
1990	228	6.8	1,550	63	-977
1991	207	7.2	1,490	42	626

1/ Includes fed sheep shorn.

2/ Equivalent to cash receipts from farm marketings.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## SHEEP, LAMBS, AND WOOL: Monthly and annual average prices received by producers, Arizona, 1987-91

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Marketing year average
Dollars per cwt.													
SHEEP													
1987	32.50	25.60	28.70	34.90	19.20	26.10	30.80	27.20	27.60	30.80	27.50	29.30	21.40
1988	29.30	27.50	26.50	28.80	28.60	26.80	26.10	27.40	24.60	21.90	22.10	26.60	26.70
1989	31.00	30.90	23.20	29.30	33.00	26.70	23.90	23.40	19.70	22.50	34.00	37.30	27.90
1990	27.60	28.20	23.00	30.00	27.50	26.30	25.50	25.90	25.60	28.30	19.90	25.20	24.00
1991	17.60	20.30	20.00	19.50	15.10	22.00	19.10	20.00	19.20	20.20	21.60	26.70	19.80
LAMBS													
1987	74.00	74.00	74.50	--	79.00	79.20	73.40	73.10	69.60	66.50	63.50	70.30	74.80
1988	80.50	81.30	76.60	69.10	73.30	58.10	59.60	64.10	67.00	65.20	61.30	64.70	80.70
1989	63.00	68.00	76.70	63.90	66.90	50.30	69.70	77.90	74.10	67.20	58.80	57.30	71.50
1990	52.50	63.00	62.00	60.90	54.10	52.00	54.80	50.00	48.50	50.40	40.90	35.30	62.10
1991	45.00	43.00	51.00	61.50	67.00	53.50	53.30	52.70	52.60	51.00	52.30	52.40	48.40
WOOL													
1987	82.00	85.00	77.00	54.00	59.00	53.00	50.00	90.00	84.00	85.00	77.00	94.00	69.00
1988	135.00	158.00	129.00	74.00	90.00	101.00	71.00	101.00	75.00	79.00	115.00	103.00	108.00
1989	118.00	167.00	119.00	74.00	84.00	90.00	92.00	63.00	92.00	117.00	87.00	76.00	110.00
1990	93.00	93.00	92.00	55.00	49.00	45.00	51.00	46.00	--	44.00	50.00	42.00	63.00
1991	59.00	63.00	--	47.00	31.00	30.00	38.00	--	--	44.00	34.00	53.00	42.00

## GOATS AND MOHAIR

As of January 1, 1992, Arizona's inventory of Angora goats stood at 98,000, a decline of 10,000 head from the previous year. Two states, New Mexico and Texas, have larger herds than the Grand Canyon State. For the third consecutive year the per head price declined \$5 reaching a low of \$40. The decrease in inventory pushed the total value of goats to below 4 million dollars. Most goats in Arizona are owned by Native Americans, with the Navajos of northeastern Arizona responsible for the majority of herds.

Average mohair prices fell 3 cents per pound, from 1990's 52 cent rate to 49 cents in 1991. Production of mohair was stable at 400,000 pounds while value of production dropped below 200 thousand dollars.

## ANGORA GOATS: Number on farms and value, Arizona, January 1, 1989-92

Year	Goats	Farm Value	
		Per head	Total
		1,000 head	1,000 dollars
1989	100	55.00	5,500
1990	98	50.00	4,900
1991	108	45.00	4,860
1992	98	40.00	3,920

## MOHAIR PRODUCTION AND VALUE: Arizona 1988 and 1991

Year	Goats clipped	Weight per clip	Mohair production	Average price per pound	Value of production
	1,000 head	Pounds	1,000 lbs.	Cents	1,000 dol.
1988	85	4.7	400	113	452
1989	90	4.1	370	99	366
1990	95	4.2	400	52	208
1991	90	4.4	400	49	196

**GRAZING FEES: Arizona, 1988-92**

Approximately 44 percent of Arizona's total area of 72,960,000 acres is federal and state public trust lands administered by the U.S. Department of Interior's Bureau of Land Management, the U.S. Department of Agriculture's Forest Service, and Arizona's State Land Department. A majority of these public lands are leased for livestock grazing.

For the years 1979-1985, fees for grazing on federal public lands were determined by a formula established in the Public Rangelands Improvement Act of 1978 (PRIA). This act expired December 31, 1985. On February 14, 1986, in the absence of Congressional action, the President, through Executive Order 12548, indefinitely extended the PRIA formula subject to a few minor changes.

These minor changes included:(1) the Forage Value Index would use the weighted average estimate of the annual rental charge per head per month rather than Animal Unit Month; (2) the Beef Cattle Price Index means the weighted average annual selling price for beef cattle in the 11 Western States, and (3) the Prices Paid Index would reflect selected livestock production costs in the Western States. In addition, the Executive Order specified that the fee shall not be less than \$1.35 per Animal Unit Month and that annual adjustments would not exceed plus or minus 25 percent of the previous year's grazing fee.

Effective March 1, 1988, the Secretary of Agriculture issued a final ruling that established regulations for annually determining federal grazing fees. The fee system now in effect is the formula prescribed in the Executive Order of February, 1986, and, in most respects, is the same grazing fee formula enacted by Congress in 1978. Grazing fees will be based on a rate per head month.

A head month is a month's use and occupancy of range by one animal, except for sheep or goats. A full head month's fee is charged for a month of grazing by adult animals; if the grazing animal is weaned or 6 months of age or older at the time of entering the federal lands; or will become 12 months of age during the permitted period of use. For fee purposes 5 sheep or goats are equivalent to one cow, bull, steer, heifer, horse, or mule.

Arizona adopted the federal fee formula for state trust lands beginning in 1982, except that a base year fee of \$.95 is used instead of the federal base fee of \$1.23, the difference being a credit for range improvements made on state lands and for taxes paid on those lands by the lessees.

Grazing fee formula components are compiled by the USDA's Agricultural Statistics Board and furnished to USDI Bureau of Land Management, USDA's Forest Service, and the Arizona State Land Department for calculating the grazing fee each year. The components are made public at the same time, during the last week of December.

**PUBLIC LAND GRAZING FEE FORMULATION**

Grazing fee components	Unit	Base year 1964-68	Grazing fee year				
			1988	1989	1990	1991	1992
Grazing Rates on Private Land 1/	Dollars	3.65	8.54	8.75	8.87	9.22	9.66
Forage Value Index (FVI) 2/		100	234	240	243	253	265
Average Price Received for Beef Cattle per Cwt. 3/	Dollars	22.04	59.96	65.46	67.47	71.81	72.15
Beef Cattle Price Index (BCPI) 4/		100	272	297	306	326	327
Prices Paid Index (PPI) 5/		100	381	386	402	419	436
Federal Grazing Fee 6/	Dollars	(1.23)	1.54	1.86	1.81	1.97	1.92
State Grazing Fee 6/	Dollars	(.95)	1.19	1.43	1.40	1.52	1.48

1/ Privately-owned, non-irrigated land in eleven western states: Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming. Rates are per head month.

2/ Private grazing rates current year divided by base year times 100.

3/ Average for twelve months November-October prior to the fee year for eleven western states; see footnote 1.

4/ Beef cattle price current year divided by base year times 100.

5/ Index of prices paid for beef cattle production inputs as percent of base year.

6/ The grazing fee = base year fee (FVI + BCPI - PPI) ÷ 100. 1992, for example = \$1.23 (265 + 327 - 436) ÷ 100 = \$1.92 (federal); \$.95 (265 + 327 - 436) ÷ 100 = \$1.48 (state).

## HOGS AND PIGS

Survey results for December 1, 1991 showed the inventories of Arizona's 400 hog producers had fallen 9 percent from the previous year to reach 100,000 head. Hogs for breeding declined to 12,000 head. Market hog numbers dwindled to 88,000 head from 97,000 the previous year. The reduced inventories and lower prices were responsible for the 16.9 percent drop in the value of Arizona's hog inventory from 10.2 million dollars on December 1, 1990 to 8.5 million in December of 1991.

The total pig crop was largely unchanged from the previous December to November measuring period. During 1991, 23,000 sows farrowed 183,000 pigs - down by 13,000. The December-February pig crop was down 11,000 head from the 1990 level of 50,000, leaving the crop almost evenly divided among the remaining quarters of the year.

Arizona Department of Agriculture records indicate in-shipments for the year rose by 1,000 head to reach 5,000. The majority of hogs and pigs shipped into Arizona are feeder pigs although farrow-to-finish operations are predominate.

The gross income of the Arizona pork industry rose to 21.2 million dollars amid increased production and marketings. Average price per hundredweight dropped to \$49.35 in 1991 from \$54.60 for the previous year. An estimated 13,700 hogs were slaughtered commercially, with most Arizona-raised animals going out of state for slaughter.

## HOGS: Number of Operations and inventory December 1, Arizona and United States, 1987-91 1/

Year	Arizona		United States	
	Operations	Head	Operations	Head
	Number	Thousand	Number	Thousand
1987	450	130	328,640	54,384
1988	450	130	326,600	55,469
1989	440	100	306,210	53,821
1990	400	110	275,440	54,477
1991	400	100	256,390	56,974

1/ An operation is any place having one or more hogs and pigs on hand during the year.

## HOGS AND PIGS: Inventory by class, weight group, and farm value, Arizona, December 1, 1987-91

Year	Breeding	Market	Market hogs and pigs by weight group				All hogs	Value	
			Under 60 lbs.	60-119 lbs.	120-179 lbs.	180 lbs. and over		Per head	Total
			1,000 head					Dol.	1,000 dol.
1987	14	116	34	30	29	23	130	93.50	12,155
1988	15	115	44	27	23	21	130	75.00	9,750
1989	12	88	29	24	20	15	100	88.00	8,800
1990	13	97	33	26	20	18	110	93.00	10,230
1991	12	88	33	25	19	11	100	85.00	8,500

## HOGS AND PIGS: Inventory, supply, and disposition, Arizona, 1987-92

Year	Inventory Dec. 1 1/	Pig Crop		Inshipments	Marketings 2/	Farm slaughter 3/	Deaths
		Dec.-May	June-Nov.				
		1,000 head					
1987	155	123	119	9	260	1	15
1988	130	113	101	15	215	1	13
1989	130	114	83	6	222	1	10
1990	100	99	97	4	179	1	10
1991	110	86	97	5	185	1	12
1992	100						

1/ December 1 of previous year.

2/ Includes animals for slaughter markets, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

3/ Excludes custom slaughter for farmers at commercial establishments.

**PIG CROP: Sows farrowed, pigs per litter, and pigs saved, Arizona, 1987**

Year 1/	Total pig crop		December through May			June through November		
	Sows farrowed	Pigs saved	Sows farrowed	Pigs per litter	Pigs saved	Sows farrowed	Pigs per litter	Pigs saved
	Thousand	Thousand	Thousand	Number	Thousand	Thousand	Number	Thousand
1987	30	242	15	8.2	123	15	7.9	119

1/ December 1 previous year through November 30 current year.

**PIG CROP: Sows farrowed, pigs per litter, and pig crop, Arizona, quarterly 1988-91**

Year 1/	Total		December-February			March-May			June-August			September-November		
	Sows farrowed	Pig crop	Sows farrowed	Pigs per litter	Pig crop	Sows farrowed	Pigs per litter	Pig crop	Sows farrowed	Pigs per litter	Pig crop	Sows farrowed	Pigs per litter	Pig crop
	Thous.	Thous.	Thous.	Number	Thous.	Thous.	Number	Thous.	Thous.	Number	Thous.	Thous.	Number	Thous.
1988	27	214	6.0	8.3	50	8.0	7.9	63	7.0	8.1	57	6.0	7.3	44
1989	24	186	7.0	7.9	55	7.0	8.4	59	6.0	8.7	52	4.0	7.8	31
1990	24	196	6.0	8.3	50	6.0	8.2	49	6.0	8.2	49	6.0	8.0	48
1991	23	183	5.0	7.7	39	6.0	7.9	47	6.0	8.2	49	6.0	8.0	48

1/ December 1 previous year through November current year.

**HOGS AND PIGS: Production and income, Arizona, 1987-91**

Year	Production 1/	Marketings 2/	Average price per cwt.	Value of production	Cash receipts 3/	Value of home consumption	Gross income
	1,000 lbs.		Dollars		1,000 dol.		
1987	54,480	58,200	57.10	30,967	33,232	328	33,560
1988	48,923	50,345	46.90	22,534	23,612	225	23,837
1989	40,870	44,640	44.50	17,849	19,865	214	20,079
1990	37,560	36,150	54.60	20,353	19,738	273	20,011
1991	40,316	42,430	49.35	19,558	20,939	237	21,176

1/ Includes total live weight of livestock marketed, farm slaughter, and custom slaughter consumed on farms where produced, minus live weight of inshipments, and any increase or decrease in live weight of inventory.

2/ Includes animals for slaughter markets, as well as younger animals shipped to other states for feeding or breeding purposes. Excludes interfarm sales within the State and farm slaughter.

3/ Receipts from marketings and sale of farm slaughter.

**HOGS AND PIGS: Number on farms, Arizona, by counties, December 1, 1987-91**

County and year	Hogs and pigs	County and year	Hogs and pigs	County and year	Hogs and pigs
	1,000 head		1,000 head		1,000 head
<b>COCHISE</b>		<b>GRAHAM</b>		<b>MARICOPA</b>	
1987	19	1987	17	1987	12
1988	20	1988	18	1988	11
1989	10	1989	10	1989	11
1990	9	1990	9	1990	13
1991	8	1991	8	1991	13
<b>NAVAJO</b>		<b>PINAL</b>		<b>OTHER COUNTIES</b>	
1987	71	1987	8	1987	3
1988	71	1988	9	1988	1
1989	62	1989	6	1989	1
1990	70	1990	6	1990	3
1991	63	1991	6	1991	2
<b>ARIZONA</b>					
1987	130				
1988	130				
1989	100				
1990	110				
1991	100				

## MEAT PRODUCTION

## LIVESTOCK SLAUGHTERING ESTABLISHMENTS: Arizona, January 1, 1988-92

Year	Under Federal Inspection	Other 1/	Total
	Number		
1988	5	23	28
1989	6	23	29
1990	5	20	25
1991	3	19	22
1992	3	19	22

1/ Includes State inspected and custom-exempt plants.

## RED MEAT PRODUCTION: Arizona, 1987-91 1/

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 2/
	1,000 pounds												
1987	21,652	18,238	21,233	23,598	21,294	24,495	23,643	19,731	20,143	20,870	19,722	23,597	258,215
1988	23,497	20,473	28,314	28,481	26,829	28,205	21,487	24,410	21,407	18,760	18,944	18,865	279,672
1989	21,080	16,853	20,051	19,115	22,628	21,746	19,498	19,267	17,490	19,999	20,989	20,595	239,311
1990	21,131	15,855	18,613	18,352	20,652	21,390	19,753	18,336	15,648	18,750	18,515	19,387	226,382
1991	20,870	18,854	18,921	20,301	22,850	22,766	20,527	20,427	18,192	18,707	16,988	19,382	238,784

1/ Includes total beef, veal, pork, and lamb and mutton, excluding farm slaughter.

2/ Numbers may not add due to rounding.

## COMMERCIAL CATTLE SLAUGHTER: Arizona, 1987-91

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1/
	Number												
1987	34,700	29,300	33,700	37,400	33,400	38,800	37,600	31,400	30,700	31,700	31,300	36,800	406,800
1988	36,800	31,900	43,700	43,400	41,500	43,500	33,100	37,500	33,000	28,900	29,800	28,900	432,000
1989	32,500	26,000	30,300	28,500	34,200	33,200	29,700	29,900	26,500	30,500	31,900	31,200	364,500
1990	32,500	24,500	28,500	27,800	31,300	32,600	31,600	27,700	23,800	28,100	27,500	28,200	344,200
1991	30,800	28,200	28,500	30,500	33,500	33,200	29,900	29,900	26,700	27,300	24,200	27,200	349,900
	1,000 Lbs. liveweight												
1987	35,386	29,636	34,367	38,054	34,343	39,747	38,493	32,114	33,176	34,384	32,532	38,921	421,154
1988	38,299	33,525	45,832	45,958	43,389	45,905	34,805	39,646	34,559	30,270	31,021	30,540	453,747
1989	34,350	27,457	32,536	31,028	36,978	35,653	32,038	31,816	28,177	32,820	34,742	33,845	391,439
1990	34,885	25,788	30,231	29,486	32,732	33,818	31,137	28,507	24,210	29,079	28,930	30,191	358,994
1991	32,420	30,609	32,004	34,082	38,187	38,110	34,333	34,357	30,337	31,158	28,315	32,150	396,061

1/ Numbers may not add due to rounding.

**COMMERCIAL HOG SLAUGHTER: Arizona, 1987-91**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1/
	<u>Number</u>												
1987	1,100	1,000	1,300	1,400	1,100	1,200	1,100	1,000	1,200	1,200	1,200	1,100	13,900
1988	1,200	1,100	1,500	1,500	1,500	1,400	1,000	1,500	2,000	1,900	1,700	1,800	18,000
1989	1,900	1,200	1,700	1,800	1,700	1,000	900	1,100	1,100	1,200	1,100	1,200	15,900
1990	1,200	1,000	1,500	1,500	1,100	1,000	800	900	1,100	1,100	1,300	1,200	13,600
1991	1,200	1,000	1,400	1,500	1,100	1,000	900	900	1,100	1,300	1,100	1,100	13,700
	<u>1,000 lbs. liveweight</u>												
1987	255	211	289	306	257	258	226	223	274	264	273	270	3,105
1988	297	269	336	493	340	310	219	344	462	444	356	424	4,293
1989	406	269	392	425	396	251	216	227	261	282	263	260	3,647
1990	277	243	362	345	257	234	209	226	259	286	294	281	3,273
1991	290	262	335	332	251	210	214	208	251	300	254	252	3,159

1/ Numbers may not add due to rounding.

**COMMERCIAL SHEEP SLAUGHTER: Arizona 1987-91**

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1/
	<u>Number</u>												
1987	100	200	200	300	100	100	200	100	200	100	100	100	1,800
1988	100	100	200	300	100	100	100	100	100	100	0	100	1,400
1989	100	*	200	200	*	*	*	100	100	100	100	100	1,100
1990	100	200	200	300	*	*	*	100	200	100	100	100	1,500
1991	100	100	200	300	100	100	100	100	200	100	100	100	1,600
	<u>1,000 lbs. liveweight</u>												
1987	10	18	25	35	13	9	14	10	19	13	7	8	183
1988	14	11	28	34	13	9	9	9	16	10		8	164
1989	11		18	27				8	16	8	10	8	126
1990	11	16	26	33				12	18	12	11	8	168
1991	15	10	25	28	11	6	8	8	18	11	9	14	163

\* Numbers not published to avoid disclosure of individual operations.

1/ Numbers may not add due to rounding.

**HONEY**

Arizona's 1991 honey production rose 16.6 percent from the 1990 level, reaching over 3.7 million pounds. Mean yield per colony rose to 50 pounds in 1991, up 2 pounds from the previous year. Arizona is famous for its flavorful specialty desert honey.

Prices for the 1991 honey crop averaged 53 cents per pound, an increase of four cents per pound from 1990. Arizona beekeepers realized a value of production for the 1991 crop of nearly \$2 million, an increase of 26 percent from \$1.6 million realized the previous year.

Estimates of honey production and colonies represent operations where honey was taken from colonies for sale or human consumption. Honey produced by beekeepers with fewer than five colonies is not included. Packaged bees and bees for "pollination only" are also not included as colonies unless some honey was removed for human consumption.

**HONEY: Number of colonies, yield, production, and value, Arizona, 1987-1991 1/**

Year	Number of colonies	Yield per colony	Production	Average price per pound	Value of production
	<u>1,000</u>	<u>Pounds</u>	<u>1,000 lbs.</u>	<u>Cents</u>	<u>1,000 dol.</u>
1987	73	47	3,431	52	1,784
1988	73	49	3,577	49	1,753
1989	78	45	3,510	55	1,931
1990	67	48	3,216	49	1,576
1991	75	50	3,750	53	1,988

1/ For producers with five or more hives.



## WEATHER

Arizona's wide spectrum of climate and terrain support a remarkable agricultural diversity. While most crops are irrigated, (meaning yield variability is less influenced by rainfall here than in the rain-fed agricultural states), weather conditions are still important to crop farmers in making planting and harvesting decisions. Ranchers are especially dependent on the highly variable climate, with weather conditions diverging widely even on a single ranch due to altitudes and the fickle nature of localized gullywashers. Because of the unpredictable temperament of the state's climate and the fact that conditions can vary dramatically even in a single locality, statistics of local weather stations are only a broad generalization.

Rainfall statistics are one example of the extreme weather contrasts within Arizona. Yuma, with a long-term average of 2.65 inches per year, typically receives the lowest annual rainfall; while McNary, with an average of 27.24 inches, normally receives the most precipitation of major reporting stations. In 1991, this trend continued with Yuma's 3.16 inches of rain and McNary's 25.77 inches of precipitation.

One characteristic of Arizona agriculture is a long growing season. Both Phoenix and Yuma offered year around frost-free seasons and had no temperatures below 32 degrees during 1991. Buckeye, Chandler Heights, Gila Bend, Parker and Tucson each had longer than normal days without frost as well.

Nineteen-Ninety-One began with a storm system that brought three days of rain to most of Arizona, with January also bringing higher than average temperatures and rainfall amounts for portions of the state. Yuma received nearly an inch of rain in the month, 220 percent of normal.

February brought warmer than average conditions for the entire state and with March came cooling. Phoenix's average temperature for February, at 66 degrees, was nearly 10 degrees above normal. February's mean monthly temperatures exceeded those for March for most major reporting stations except Douglas and Winslow.

Spring brought more rain as storms swept through during March, leaving Parker with nearly five times the normal March precipitation. Some rain damage was reported to alfalfa stands in western Arizona and cool temperatures and precipitation delayed cotton seeding.

April and May brought cooler than average nights throughout cotton producing areas, slowing seed germination. Late frost nipped crops in eastern Arizona.

The late spring and summer months were marked by characteristically hot conditions throughout the state, though average temperatures for much of the state were below normal for May, June, and July. Such news brought little consolation to Yuma or Parker area farmers; even though average temperatures for those locations were 2 to 4 degrees below normal, the monthly average temperature still was above 90 degrees for August.

Summer rains were more irregular than usual. The normally wet month of July saw below normal rainfall for most major stations except Casa Grande, Chandler Heights, Window Rock and Prescott. August and September saw scattered thunderstorm activity with western stations ending September above normal in rainfall, but parched regions, especially near Flagstaff, experienced below normal amounts. Summer range conditions and stock water availability were better than normal in the south but less than adequate in the north and central parts of the state.

Fall saw an especially warm October as the mercury reached 100 degrees in Phoenix and central areas for a record 15 days of the month. November brought rainfall amounts above normal in all areas of the state except extreme western Arizona. Winter temperatures were generally normal or above for most crop areas with first frosts occurring late or not at all. A key exception was portions of southeastern Arizona where the cotton crop was damaged by a hard freeze on the 28th of October.

The onset of winter saw first freeze dates delayed until late October for the higher elevations. Frost did not reach many middle elevations in central and southern Arizona until early December. Temperatures were above normal in most winter agricultural areas. Stockwater, soil moisture and range conditions ended the year rated poor in the north and fair in the south.

## RESERVOIR STORAGE: Arizona, April 1, 1988-92

Basin or stream	Reservoir	Usable Capacity	Usable storage				
			1988	1989	1990	1991	1992
Thousand acre feet							
<b>GILA RIVER DRAINAGE</b>							
Agua Fria	Lake Pleasant	157.0	74.2	65.9	49.4	104.8	91.2
Gila	San Carlos	935.0	526.9	390.9	55.7	448.9	707.6
Gila	Painted Rock Dam	2,492.0	0.0	0.0	0.0	1.3	162.8
Salt	Roosevelt, Apache, Canyon, and Saguaro	1,710.0	1,550.7	1,512.3	999.2	1,486.8	1,445.3
Verde	Bartlett and Horseshoe	310.0	261.8	134.0	15.6	269.2	287.1
<b>COLORADO RIVER DRAINAGE</b>							
Colorado	Lake Havasu	619.0	557.7	563.7	582.1	607.8	573.8
Colorado	Lake Mohave	1,810.0	1,687.3	1,649.5	1,678.3	1,759.2	1,671.7
Colorado	Lake Mead	26,159.0	24,509.0	22,957.0	21,436.0	20,050.0	20,182.0
Colorado	Lake Powell	24,322.0	22,165.0	21,129.0	17,921.0	15,098.0	13,699.0
Little Colorado	Lyman Lake	30.0	25.2	28.0	11.4	0.0	1/
Show Low Creek	Show Low Lake	5.1	4.5	4.9	0.8	5.1	5.1

**SUMMARY:** Surface water supplies for Arizona for the spring period of 1992 must be rated as excellent. March precipitation was well above average. The entire winter has been generally wet and as of April 1 most areas of the state have received above normal precipitation for the water year beginning October 1. April 1 snowpacks were still above average even though melt had begun. Streamflow during March was well above median for the month and soil moisture has been well recharged on the watersheds. Reservoir storage was above average for April 1.

**SNOWPACK:** The Arizona snowzone was subjected to a series of storms during March that at times added snow to all data sites and at times added snow to the highest sites while lower sites received snow and/or rain. Periods of warm temperatures also produced melt. The result on April 1 was a regime showing areas of good snowpack retention and areas of rapid meltout. The Verde River basin snowpack was discontinuous but was still rated at 120% of average. The Salt River snowpack was near normal at 106%. The San Francisco - upper Gila River snowpack was 160% of normal with much of the remaining snow concentrated in the Mogollon Mountains. Snow remaining along the southern headwaters of the Little Colorado River was 135% of normal. The Grand Canyon snowpack was 127%; the San Francisco Peaks, 145%; and the Chuska Mountains, 158% of average.

**PRECIPITATION:** Precipitation was reported on 20 days during March and the last storm continued into April. The result was above average moisture throughout the state. Total precipitation since October 1 has been above average in most areas of Arizona. March precipitation was 179% of average over the Salt River basin, 172% over the Verde, and 160% across the San Francisco - upper Gila River basin. The Little Colorado River basin received 163% of average moisture. Northwestern Arizona precipitation was 264% of average with the Arizona Strip being 278% of average. Precipitation over the San Pedro - Santa Cruz basin was 346% of average. Sulphur Springs Valley area received 422% of average moisture.

**RESERVOIRS:** Storage in the Salt River Project system continued to increase even with releases being made. The April 1 volume was 1,732,400 acre feet at 86% of capacity. Storage in San Carlos declined slightly to 707,600 acre feet at 76% of capacity. Lake Pleasant was 58% full with 91,200 acre feet, also a slight decrease from mid March. Total storage in Lakes Havasu, Mohave, Mead, and Powell increased to 36,126,500 acre feet but this was still only 67% of system capacity. Show Low Lake was full with 5,100 acre feet on April 1.

**STREAMFLOW:** Streamflow during March was well above normal for the month with the Salt River running 226% of median; Tonto Creek, 699%; and the Verde River, 363%. The San Francisco River at Clifton was 417% of median and the Gila at Head of Safford Valley, 525%. April-May forecasts call for 156% of median flow on the Salt, 234% on Tonto Creek, and 219% on the Verde River. Little Colorado River inflow to Lyman Lake is forecast to be 230% of median. The San Francisco at Clifton forecast calls for 301% of median flow and the Gila at Head of Safford Valley, 318%. The April-June forecast for the Virgin River at Littlefield is for 157% of median runoff. Colorado River inflow to Lake Powell for April-July is forecast at 69%.

1/ Not available.

Source: United States Department of Agriculture, Soil Conservation Service; Arizona Water Supply Outlook, April 1, 1992.



## 1991 ARIZONA AGRICULTURAL STATISTICS

MEAN MONTHLY TEMPERATURE: Arizona, 1991 and long-term average 1/

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual average
Degrees fahrenheit													
Aguila 2/	48.4	55.6	52.0	59.8	67.6	76.0	85.1	84.8	79.7	70.0	55.0	49.2	65.3
Buckeye	52.5 51.2	61.7 55.6	58.1 60.2	66.7 67.2	74.5 75.8	83.1 85.0	90.1 92.0	90.8 89.6	84.3 83.5	75.7 72.0	60.9 59.2	55.1 51.9	71.1 70.3
Casa Grande	50.0 51.1	58.2 55.1	54.4 59.9	66.3 67.1	74.7 75.9	81.7 85.4	89.4 91.4	89.9 88.8	83.6 83.2	74.6 72.2	59.6 59.3	54.0 51.8	69.7 70.1
Chandler Heights 2/	50.4	59.7	55.5	65.7	74.9	81.6	89.6	88.9	83.4	75.2	58.6	53.4	69.7
Coolidge	50.0 50.7	58.6 54.3	54.3 58.6	64.4 65.7	73.1 74.5	80.1 84.3	89.2 90.9	89.3 88.4	82.9 83.0	74.3 71.6	57.8 58.7	53.1 51.4	68.9 69.3
Douglas	44.9 44.9	51.2 47.6	51.2 52.5	60.1 59.7	68.0 67.5	73.8 76.9	78.8 79.1	78.3 76.9	72.3 73.1	65.0 63.3	51.7 51.9	45.9 45.3	61.8 61.6
Flagstaff	30.5 28.2	37.2 30.7	32.2 34.5	43.1 41.6	49.4 49.9	57.3 59.2	67.1 66.1	66.5 63.8	59.6 57.5	50.8 47.2	36.9 36.3	30.2 29.8	46.7 45.4
Gila Bend	54.6 53.0	64.2 57.1	60.6 61.8	70.3 69.2	77.6 78.2	85.1 87.3	92.8 94.0	93.1 91.8	86.9 86.4	78.8 74.8	63.3 61.8	57.3 53.9	73.7 72.4
Grand Canyon 2/	28.9	37.7	34.0	42.1	49.9	58.8	67.5	66.4	58.9	51.2	37.4	31.9	47.1
Kingman	41.8 43.2	52.7 47.0	44.5 50.5	56.6 57.6	63.8 66.5	72.4 76.2	82.2 82.9	80.5 80.8	75.5 74.8	66.9 64.2	51.6 51.8	43.8 44.3	61.0 61.7
McNary	30.0 30.7	37.1 32.7	31.3 36.6	42.4 43.9	51.2 51.6	57.8 60.5	64.8 65.2	62.8 63.1	57.3 58.5	51.4 49.7	36.3 39.0	31.1 32.7	46.1 47.0
Parker	51.9 52.7	62.6 57.7	58.9 62.7	68.0 70.0	76.3 78.7	83.2 87.8	90.6 94.4	91.4 92.6	87.3 86.5	78.6 74.8	63.5 61.3	55.4 53.2	72.3 72.7
Payson	39.1 38.6	46.7 41.5	41.5 45.0	50.7 51.6	58.3 59.7	65.2 69.1	74.9 75.5	74.8 72.8	68.5 67.1	60.5 57.3	45.9 46.1	39.5 39.4	55.5 55.3
Phoenix	55.9 52.3	66.0 56.1	60.3 60.6	72.2 68.0	79.7 77.0	87.8 86.5	95.1 92.3	94.5 89.9	88.5 84.6	80.2 73.4	63.5 60.6	57.3 53.3	75.1 71.2
Prescott	36.1 36.2	44.1 39.2	38.9 42.8	50.0 49.4	57.5 57.2	64.5 66.8	74.3 73.1	73.0 70.4	66.3 65.1	58.4 55.0	44.2 44.0	36.6 37.2	53.7 53.0
Safford	44.6 43.7	52.1 47.5	50.1 52.9	60.6 60.5	68.7 68.8	75.7 78.5	83.1 82.9	81.0 80.4	74.5 74.9	66.6 64.3	50.8 51.8	46.4 44.2	62.9 62.5
Tucson	52.3 51.1	59.8 53.8	55.4 57.8	65.2 65.0	73.5 73.2	81.5 82.9	87.5 86.2	86.6 84.0	80.7 80.4	74.0 70.4	58.9 58.7	54.3 52.0	69.1 68.0
Willcox	44.0 42.1	49.9 45.0	49.5 49.8	57.1 56.6	64.8 64.5	71.7 74.1	78.9 79.3	77.7 76.7	70.9 71.3	62.3 60.5	49.7 48.9	44.3 42.3	60.1 59.3
Window Rock	27.6 27.4	37.9 31.6	37.0 36.8	46.1 44.5	53.8 53.4	61.6 63.7	68.3 69.8	67.4 67.1	61.5 60.0	52.6 49.6	38.8 37.3	29.3 29.1	48.5 47.5
Winslow	32.4 32.0	40.5 38.4	41.4 44.9	51.0 53.0	58.5 62.2	66.6 72.3	74.9 78.8	73.7 76.1	66.9 69.0	56.2 56.6	41.3 42.9	30.8 32.7	52.9 54.9
Yuma	57.2 55.9	66.0 60.0	61.6 64.2	71.8 70.7	77.5 78.3	85.4 87.2	91.6 93.6	94.0 92.4	89.0 87.3	80.9 76.4	65.7 63.8	57.6 56.5	74.9 73.9

1/ Top row 1991, bottom row long-term average.

2/ Long-term average not available.

Source: United States Department of Commerce, National Oceanic and Atmospheric Administration; Climatological Data.

TOTAL PRECIPITATION: Arizona, 1991 and long-term average 1/

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	Inches												
Aguila 2/	.61	.69	3.21	.00	.00	.00	.00	.91	.00	.45	.36	.93	7.16
Buckeye	.40	.60	2.92	.00	.00	T	T	1.00	.85	.50	1.53	2.12	9.92
	.80	.68	.74	.23	.08	.07	.62	1.23	.70	.60	.47	.73	6.95
Casa Grande	.13	.03	.23	.08	0								
	.30	.90	2.09	.00	T	.27	1.16	.36	.03	.66	1.03	1.03	7.83
	.81	.66	.85	.29	.11	.20	.90	1.80	.61	.78	.66	.91	8.58
Chandler Heights	.56	.70	2.32	.00	.00	T	1.00	.33	.54	.65	1.43	1.66	9.19
	.92	.76	1.02	.28	.14	.06	.83	1.22	.67	.80	.70	.95	8.35
Coolidge	1.04	.68	2.52	.00	.00	.00	.22	.79	.24	1.19	.71	1.77	9.16
	.86	.69	.97	.28	.13	.14	.98	1.20	.63	.89	.69	1.03	8.49
Douglas	.80	1.65	.73	.01	.03	1.14	2.05	5.51	1.64	.53	.78	3.43	18.30
	.74	.47	.48	.16	.16	.41	3.51	3.03	1.15	.84	.45	.76	12.16
Flagstaff	1.76	2.08	6.00	T	.14	.59	1.04	1.64	.26	1.12	4.47	2.73	21.83
	2.10	1.95	2.13	1.35	.75	.57	2.47	2.62	1.47	1.54	1.65	2.26	20.86
Gila Bend	.37	.50	2.14	.00	.00	.00	.20	.05	.03	1.31	.11	1.51	6.22
	.67	.49	.61	.22	.10	.06	.69	1.01	.46	.48	.40	.63	5.82
Grand Canyon 2/	1.68	.54	3.92	T	.09	.17	1.75	.35	2.56	.64	1.39	1.29	14.38
Kingman	1.55	.52	2.97	.00	.00	.48	.17	1.60	.76	.55	.48	.86	9.94
	1.11	.96	1.11	.63	.24	.24	.98	1.36	.75	.67	.71	.89	9.65
McNary	1.90	.96	5.57	.05	.00	.87	1.98	4.69	2.09	1.87	2.17	3.62	25.77
	2.92	2.04	3.08	1.32	.74	.79	3.51	3.78	1.97	2.37	1.99	2.73	27.24
Parker	.53	.73	2.09	.00	.00	.03	.02	.10	.92	.10	.02	.48	5.02
	.60	.43	.47	.17	.05	.02	.26	.49	.40	.38	.35	.46	4.08
Payson	1.17	1.95	7.88	.00	T	.10	.92	1.54	.56	1.09	2.37	3.30	20.88
	2.15	1.85	2.12	1.07	.52	.44	2.81	3.16	1.76	1.85	1.53	2.02	21.28
Phoenix	.05	0	.08	.06									
	.63	.56	2.05	.00	.00	T	.14	.12	.81	1.16	1.25	1.63	8.35
	.73	.59	.81	.27	.14	.17	.74	1.02	.64	.63	.54	.83	7.11
Prescott	1.03	.99	6.35	.00	.00	.09	5.17	2.66	2.29	.44	2.13	3.02	24.17
	1.72	1.51	1.53	.76	.50	.53	3.15	3.45	1.49	1.22	1.33	1.65	18.84
Safford	.08	.15	.09	.02									
	.61	1.16	1.71	.00	.00	.02	1.07	2.82	.29	.25	.31	4.14	12.38
	.63	.55	.56	.18	.12	.24	1.76	1.55	.99	.86	.40	.76	8.60
Tucson	1.15	.91	1.40	.00	.00	.20	.44	2.17	1.54	.73	.80	1.44	10.78
	.83	.63	.68	.32	.14	.22	2.42	2.13	1.33	.88	.62	.94	11.14
Willcox	1.10	1.71	1.25	.00	.05	.28	1.05	1.75	1.20	.31	.78	3.56	13.04
	.86	.62	.62	.24	.15	.39	2.74	2.60	1.12	.77	.44	.97	11.52
Window Rock	.82	.60	1.42	.26	.00	.87	2.49	1.53	.63	.35	2.37	2.11	13.45
	.77	.67	.84	.54	.45	.42	1.66	2.17	1.14	1.26	.71	.88	11.51
Winslow	.79	.18	1.58	T	.08	.91	.10	.44	.71	.27	1.00	1.26	7.32
	.43	.46	.51	.32	.30	.35	1.14	1.41	.83	.90	.41	.58	7.64
Yuma	.84	.21	.77	.00	.00	.00	T	T	.60	.11	.05	.58	3.16
	.38	.26	.18	.13	.04	.01	.15	.42	.25	.29	.20	.34	2.65

1/ Top row 1991, bottom row long-term average.

2/ Long-term average not available.

T- Trace

Source: United States Department of Commerce, National Oceanic and Atmospheric Administration; Climatological Data.

## FARM LABOR

The farm employment and wage rate estimates are for the week that includes the 12th of the month. This corresponds to the week specified in general employment and wage series of other Government agencies.

Self-employed workers are defined as the operator and others who work on the farm without pay, but share in the returns from the farm. This concept was adopted in 1982 to provide data users with an agricultural series analogous with other industrial series. With the adoption of the self-employed category, all active partners working on the farm are counted as self-employed, whereas prior to 1982 only one was counted as the operator and the others were listed in the unpaid family category. Self-employed workers are counted if they work at least 1 hour during the survey week. Unpaid workers must work at least 15 hours or more to be counted.

Hired workers include both family members and other workers who are paid by the farm or ranch operator for working on agricultural jobs for 1 hour or more during the survey week. Workers paid by a crew leader or agricultural service firm hired by the farm or ranch operator to perform specific tasks are not included in the number of hired workers or wage rate statistics. A separate tabulation of these agricultural service workers is maintained only for the Nation, California, and Florida.

## FARM LABOR: Arizona, Mountain III Region, by survey week, January 1987-April 1992 1/

Survey week and year	Number of workers							Hours worked per worker		
	Hired			Other			Total All	Self-employed	Unpaid	Hired
	150 days or more	149 days or less	Total	Self-employed	Unpaid	Total				
	Thousands							Hours		
<u>1987</u>										
January 11-17	15	2	17	10	21	31	48	39.6	36.2	44.6
April 12-18	19	4	23	10	22	32	55	44.6	40.2	46.8
July 12-18	17	5	22	10	23	33	55	48.4	43.8	54.3
October 11-17	14	2	16	10	24	34	50	43.8	34.7	44.0
<u>1988</u>										
January 10-16	15	2	17	12	22	34	51	38.0	37.3	47.0
April 10-16	15	5	20	12	22	34	54	39.0	34.7	46.7
July 10-16	14	3	17	13	23	36	53	37.7	37.0	51.0
October 9-15	15	3	18	12	25	37	55	33.5	32.9	43.3
<u>1989</u>										
January 8-14	12	1	13	11	22	33	46	27.0	35.1	46.9
April 9-15	13	2	15	12	23	35	50	28.8	30.2	48.6
July 9-15	15	3	18	11	24	35	53	46.6	44.6	52.9
October 8-14	15	3	18	11	24	35	53	43.5	39.5	48.7
<u>1990</u>										
January 7-13	12	2	14	11	24	35	49	33.7	29.3	46.4
April 8-14	14	2	16	11	23	34	50	36.0	32.3	50.8
July 8-14	16	3	19	10	25	35	54	41.6	36.1	48.7
October 7-13	15	2	17	11	26	37	54	38.5	38.6	49.4
<u>1991</u>										
January 6-12	11	2	13	12	25	37	50	28.3	36.6	46.4
April 7-13	13	3	16	10	25	35	51	31.1	25.8	45.2
July 7-13	19	4	23	12	24	36	59	43.4	41.0	45.8
October 6-12	15	5	20	14	24	38	58	38.3	29.0	46.1
<u>1992</u>										
January 12-18	17	3	20	13	22	35	55	32.0	34.2	41.5
April 12-18	17	3	20	13	23	36	56	39.1	29.0	46.5

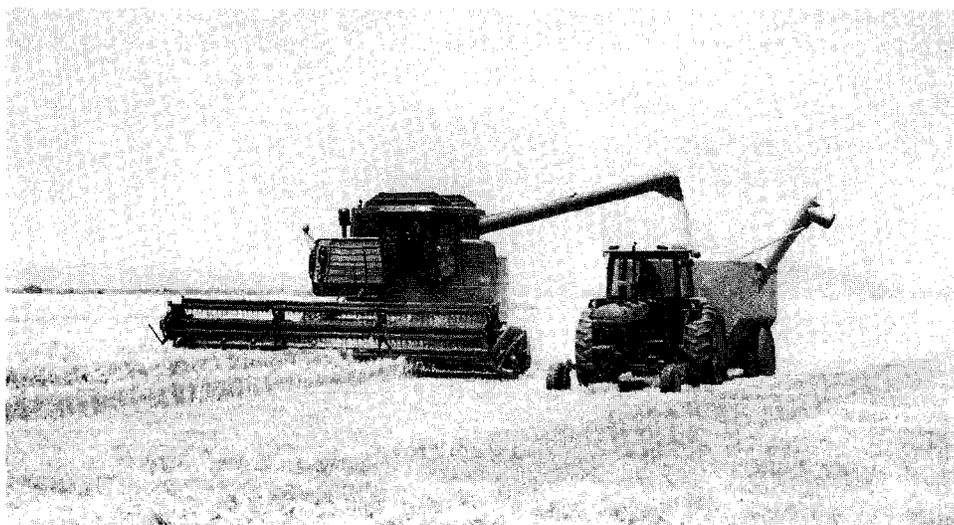
1/ Mountain III region includes Arizona and New Mexico. Excludes agricultural service workers.

## FARM WAGE RATES: Mountain III Region, by survey week, January 1987-April 1992 1/

Survey week and year	All hired workers	Type of work					Method of pay		
		Field	Livestock	Combined field and livestock	Supervisory	Other	Hourly	Piece rate	Other
<u>Dollars per hour</u>									
<u>1987</u>									
January 11-17	4.86	4.30	4.51	4.40	7.37	5.05	4.46	2/	5.97
April 12-18	4.86	4.50	4.29	4.45	7.37	7.88	4.36	2/	5.53
July 12-18	4.34	4.07	4.09	4.07	6.56	4/	4.13	2/	4.90
October 11-17	4.85	4.51	4.11	4.36	7.52	4/	4.51	6.32	5.20
<u>1988</u>									
January 10-16	5.12	4.54	4.53	4.54	7.53	7.10	5.25	6.50	4.53
April 10-16	5.13	4.92	4.59	4.79	7.97	4/	5.02	5.85	4.97
July 10-16	4.78	4.18	4.63	4.33	7.07	6.33	4.48	2/	5.31
October 9-15	5.10	4.76	4.78	4.77	7.39	4/	4.90	2/	5.62
<u>1989</u>									
January 8-14	5.04	4.68	4.57	4.64	6.47	6.78	4.77	2/	5.42
April 9-15	5.33	4.82	5.03	4.90	7.44	7.19	4.63	2/	6.71
July 9-15	4.94	4.13	4.63	4.29	8.40	6.87	4.52	2/	5.69
October 8-14	5.32	4.82	4.54	4.70	8.88	7.52	4.80	2/	5.99
<u>1990</u>									
January 7-13	5.51	4.96	5.20	5.04	8.92	7.87	4.99	2/	6.15
April 8-14	5.23	4.74	4.88	4.81	7.75	6.61	4.85	5.85	5.68
July 8-14	5.13	4.51	5.16	4.71	7.94	2/	4.79	2/	5.96
October 7-13	5.45	5.04	4.90	4.98	7.64	6.72	5.24	2/	5.74
<u>1991</u>									
January 6-12	5.77	5.09	5.15	5.12	8.31	2/	5.21	2/	6.38
April 7-13	5.33	4.98	5.11	5.03	7.74	2/	4.95	2/	5.94
July 7-13	5.43	5.06	5.29	5.12	7.19	7.27	5.12	2/	5.93
October 6-12	5.65	5.33	5.44	5.36	2/	2/	5.26	2/	6.22
<u>1992</u>									
January 12-18	6.30	5.98	5.77	5.94	2/	7.94	6.14	6.13	7.11
April 12-18	5.51	4.97	5.49	5.14	2/	2/	5.12	2/	6.25

1/ Mountain III region includes Arizona and New Mexico. Excludes agricultural service workers.

2/ Insufficient data.



## INTERNATIONAL TRADE

It is not possible under present methods of statistical measurement to determine what amount of Arizona's production is actually sold abroad. No reliable system of reporting this information has yet been designed, and no official series exists. If such figures were available they would be of little use to farm analysts and producers unless they bore some regular relationship to the state's annual agricultural production.

The alternative that is usually taken is to impute to each state a share of U.S. exports proportional to its share of total U.S. production. The export values appearing in the following table were calculated in this manner. The ratio of Arizona production to U.S. production for each commodity listed was multiplied by the value of U.S. exports of that commodity. The same procedure can also yield an export value share for the southwest states taken together. While in certain cases the actual export value can be found to differ from the imputed export share, the defense of the calculation rests on the principle that supplies of a given commodity from one state or another are essentially interchangeable in domestic and foreign markets.

To make the apportionment of exports to states more realistic, data for certain groups such as feed grains were limited to states that account for 90 percent of the output. It was also assumed that a state would share in exports only if it had an apparent surplus. The latter involves computing grain-consuming animal units and the amount of grain needed to sustain those number.

For a detailed analysis see, Arizona and the U.S. Foreign Trade in Agricultural Commodities, by Robert Rothenberg and Jimmie S. Hillman, University of Arizona, College of Agriculture, July 1983.

**AGRICULTURAL EXPORTS: Arizona's equivalent share of value, by commodity group, fiscal years 1986/87-1990/91 1/**

COMMODITY GROUP	1986/87	1987/88	1988/89	1989/90	1990/91
Million dollars					
Wheat and products	19.7	21.6	22.1	22.7	10.6
Cotton, including linters	121.0	152.6	147.8	251.1	169.8
Cottonseed and products	4.6	7.8	7.6	8.5	4.9
Fruits and preparations	39.3	38.0	41.7	59.6	61.9
Vegetables and preparations	15.2	21.9	23.7	34.5	50.1
Live animals and meat (excludes poultry)	14.0	19.2	26.2	22.8	25.4
Hides and skins	15.8	18.6	19.4	18.5	13.8
Fats, oils, and greases	4.4	5.9	6.2	4.7	4.0
Dairy products	4.2	4.9	4.4	3.5	3.1
Other	11.4	13.2	18.0	31.0	37.0
ARIZONA	249.6	303.8	317.1	456.9	380.6
UNITED STATES	27,876.2	35,315.8	39,610.7	40,271.0	37,612.7

1/ Fiscal years October 1-September 30.

Source: United States Department of Agriculture, Economic Research Service; Foreign Agriculture Trade of the United States.

VALUE OF U.S. FOREIGN TRADE AND TRADE BALANCE: Agricultural and nonagricultural, 1986/87-1990/91 1/

Year	Agricultural	Nonagricultural	Total	Agricultural percent of total
	Million dollars			Percent
<b>U.S. EXPORTS 2/</b>				
1986/87	27,876	202,911	230,787	12
1987/88	35,379	258,593	293,972	12
1988/89	39,637	301,222	340,859	12
1989/90	40,271	326,008	366,279	11
1990/91	37,613	356,754	394,367	10
<b>U.S. IMPORTS 3/</b>				
1986/87	20,650	367,374	388,024	5
1987/88	21,014	409,138	430,152	5
1988/89	21,477	441,074	462,551	5
1989/90	22,560	458,101	480,661	5
1990/91	22,588	463,720	486,308	5
<b>TRADE BALANCE</b>				
1986/87	7,226	-164,463	-157,237	
1987/88	14,365	-150,545	-136,180	
1988/89	18,160	-139,852	-121,692	
1989/90	17,711	-132,093	-114,382	
1990/91	15,025	-106,966	-91,941	

1/ Fiscal years October 1-September 30.

2/ Domestic exports, including Defense Department Grant-Aid.

3/ Imports for consumption, customs value basis.

Source: United States Department of Agriculture, Economic Research Service; Foreign Agriculture Trade of the United States.

COTTON SUPPLY AND USE: World, United States, major exporters and importers; marketing years 1990/91 and 1991/92 1/

Region	Supply			Use		Ending stocks
	Beginning stocks	Production	Imports	Domestic	Exports	
Million 480 pound bales						
<b>1990-91</b>						
World	26.45	86.87	24.03	85.55	22.98	28.77
United States	3.00	15.51	2/	8.66	7.79	2.34
Total foreign	23.45	71.36	24.03	76.89	15.19	26.43
Major exporters 3/	9.47	48.00	3.16	39.38	7.39	13.63
China	4.38	20.70	2.21	20.00	.93	6.36
Pakistan	1.18	7.52	2/	5.65	1.40	1.56
Former USSR	2.01	11.91	.20	8.70	2.00	3.41
Major importers 4/	5.04	1.44	14.58	15.61	.92	4.52
Japan	.73	.00	2.95	3.03	.00	.65
Selected other						
Brazil	1.69	3.20	.45	3.22	.72	1.41
India	2.58	9.14	.00	9.02	.93	1.77
<b>1991-92 (Estimated)</b>						
World	28.77	94.95	23.06	85.46	22.37	38.79
United States	2.34	17.61	2/	9.50	6.80	3.80
Total foreign	26.43	77.33	23.04	75.96	15.57	34.99
Major exporters 3/	13.63	54.50	2.12	38.91	9.09	22.06
China	6.36	26.10	1.20	19.50	.85	13.31
Pakistan	1.56	10.00	2/	6.40	2.35	2.71
Former USSR	3.41	11.03	.10	8.00	3.00	3.54
Major importers 4/	4.52	1.35	13.52	14.36	.81	4.22
Japan	.65	.00	2.80	2.80	.00	.65
Selected other						
Brazil	1.41	3.56	.46	3.22	.28	1.94
India	1.77	9.14	.30	9.00	.08	2.12

1/ Marketing year beginning August 1. Totals may not add and trade may not balance due to rounding and other factors.

2/ Less than 5,000 bales.

3/ Australia, China, Central America, Egypt, Mexico, Pakistan, Sudan, Turkey, and the former USSR.

4/ Europe, Japan, Hong Kong, Korea, and Taiwan.

Source: United States Department of Agriculture, Economic Research Service, Foreign Agricultural Service; World Agricultural Supply and Demand Estimates, June 1992.

## OTHER STATISTICS

## AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: Arizona, by county, December 31, 1991

County	Parcels	Acres		Reported Value 1/ 1,000 dol.
		Number		
Cochise	2	5,929		148
Coconino	2	45,967		170
Gila	24	5,928		954
Graham	1	87		35
Maricopa	96	92,941		221,752
Navajo	1	640		3
Pima	12	101,337		26,978
Pinal	13	43,658		22,358
Santa Cruz	7	7,877		5,835
Yavapai	4	21,119		2,398
Yuma	14	1,217		2,998
Total	176	326,700		283,629

1/ Reported value is purchase price or nonpurchase price (estimated value) at time of acquisition.

Source: United States Department of Agriculture, Economic Research Service, Resources and Technology Division; Foreign Ownership of U.S. Agricultural Land through December 31, 1991; County Level Data.

## AGRICULTURAL LANDHOLDINGS BY COUNTRY OF FOREIGN OWNER: Arizona, by county, December 31, 1991

County	Canada	Germany	Acres		
			Switzerland	United Kingdom	All others
Cochise	5,612	0	0	0	317
Coconino	320	0	0	0	45,647
Gila	5,928	0	0	0	0
Graham	87	0	0	0	0
Maricopa	6,601	1,030	68,545	388	16,377
Navajo	640	0	0	0	0
Pima	300	0	0	0	101,037
Pinal	3,364	620	0	0	39,674
Santa Cruz	560	7,317	0	0	0
Yavapai	113	0	19,899	0	1,107
Yuma	5	0	240	0	972
Total	23,530	8,967	88,684	388	205,131

Source: United States Department of Agriculture, Economic Research Service, Resources and Technology Division; Foreign Ownership of U.S. Agricultural Land through December 31, 1991; County Level Data.

## USE OF AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: Arizona, by county, December 31, 1991

County	Cropland	Pasture	Forest	Acres		Total
				Other agriculture	Other non-agriculture	
Cochise	0	5,929	0	0	0	5,929
Coconino	0	320	0	45,647	0	45,967
Gila	0	5,915	13	0	0	5,928
Graham	40	47	0	0	0	87
Maricopa	55,418	8,568	0	4,314	24,641	92,941
Navajo	0	640	0	0	0	640
Pima	764	100,180	0	43	350	101,337
Pinal	3,846	31,608	441	5,616	2,147	43,658
Santa Cruz	0	7,757	0	120	0	7,877
Yavapai	720	20,399	0	0	0	21,119
Yuma	1,055	0	0	128	34	1,217
Total	61,843	181,363	454	55,868	27,172	326,700

Source: United States Department of Agriculture, Economic Research Service, Resources and Technology Division; Foreign Ownership of U.S. Agricultural Land through December 31, 1991; County Level Data.

**UPLAND COTTON OBJECTIVE YIELD FORECASTING PROGRAM**

The upland cotton yield forecasting program of the Arizona Agricultural Statistics Service includes both regular interviews with farmers, and objective measurements from samples in randomly selected fields.

During the yield forecasting season (August 1 to harvest), trained enumerators make monthly visits to randomly selected fields across the State. Row spacing measurements, plant counts, fruit counts, and other pertinent information affecting crop yields are recorded. The grower is interviewed to obtain information about acreage, seeding rates, fertilizer applied, and other information about the fields where objective counts are to be conducted. A State yield is generated from the different models used to forecast total bolls expected, average boll weight, and harvesting loss.

The number of samples varies from year to year as a result of changes in program size, grower refusals, or sometimes losses because of abandonment. Samples are also visited after the crop is harvested to obtain measurement of harvesting loss and other information affecting production.

The sample data published below were edited to eliminate nonrepresentative reports but still contain some sampling fluctuation. They are not official Agricultural Statistics Board estimates, but provide indications and trends in cropping practices.

**FERTILIZER USED ON UPLAND COTTON ACREAGE HARVESTED: Arizona, 1987-91**

Year	Fields in survey	Acres receiving			Rate per acre receiving 1/			Acres fertilized 2/			
		Any fertilizer	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	At or before seeding only	After seeding only	At or before and after seeding
	Number		Percent			Pounds			Percent		
1987	84	95	95	39	5	159	70	21	16	56	28
1988	90	91	90	58	7	144	59	14	21	30	49
1989	91	95	95	51	3	178	64	3/	11	45	44
1990	79	94	94	47	8	155	68	21	11	59	30
1991	78	99	99	62	18	170	66	10	12	38	51

1/ To convert phosphoric oxide (P<sub>2</sub>O<sub>5</sub>) to elemental phosphorus (P), the quantity of P<sub>2</sub>O<sub>5</sub> should be multiplied by 0.43642. To convert potassium oxide (K<sub>2</sub>O) to elemental potassium (K) multiply by 0.83016.

2/ Percentages apply to acres receiving fertilizer, not to total acres harvested.

3/ Insufficient data.

Source: United States Department of Agriculture, Economic Research Service; Agricultural Resources, Inputs, Situation and Outlook Report.

**UPLAND COTTON SAMPLES: Percent distribution by row spacing, average row width, seeding rate, and plant population, Arizona 1987-91**

Year	Cotton samples	Row spacing (inches) 1/				Average row width	Seeding rate per acre 2/	Plants per acre
		36.5 and less	36.6-38.5	38.6-40.5	40.6 and greater			
	Number	Percent				Inches	Pounds	Number
1987	85	6	35	54	5	38.9	19.1	46,008
1988	95	12	43	37	8	38.3	20.8	42,802
1989	103	16	34	38	12	38.2	20.4	42,090
1990	104	10	43	37	10	38.4	23.1	44,656
1991	107	16	43	37	4	37.8	18.9	38,177

1/ Measurement across 8 row spaces in each sample field.

2/ Acid delinted basis.

**UPLAND COTTON SAMPLE COUNTS: Bolls produced, weight, lint loss, and yield per acre, Arizona, 1987-91**

Year	Final count of large bolls produced per ten feet of row 1/	Adjusted average weight per boll		Unopened bolls not harvested per ten feet of row 1/		Lint loss per acre after all harvest complete	Final adopted yield per acre
		Seed cotton 2/	Lint	Bolls	Lint equivalent per acre		
	Number	Grams	Grams	Number	Pounds	Pounds	Pounds
1987	323	4.18	1.62	8	36.6	142	1,410
1988	294	3.94	1.54	2	10.3	98	1,190
1989	308	4.08	1.58	3	16.1	86	1,303
1990	292	3.96	1.54	4	19.6	115	1,110
1991	271	4.06	1.57	4	18.6	73	1,201

1/ A "large" boll is one inch or greater in diameter, opened or unopened. Counts are actually made on 46 feet of row in each sample field.

2/ Seed cotton adjusted to 5 percent moisture; 453.6 grams equal one pound.

**UPLAND COTTON: Ginning charges, harvesting practices, and selected marketing costs, Arizona, 1986/87-1990/91**

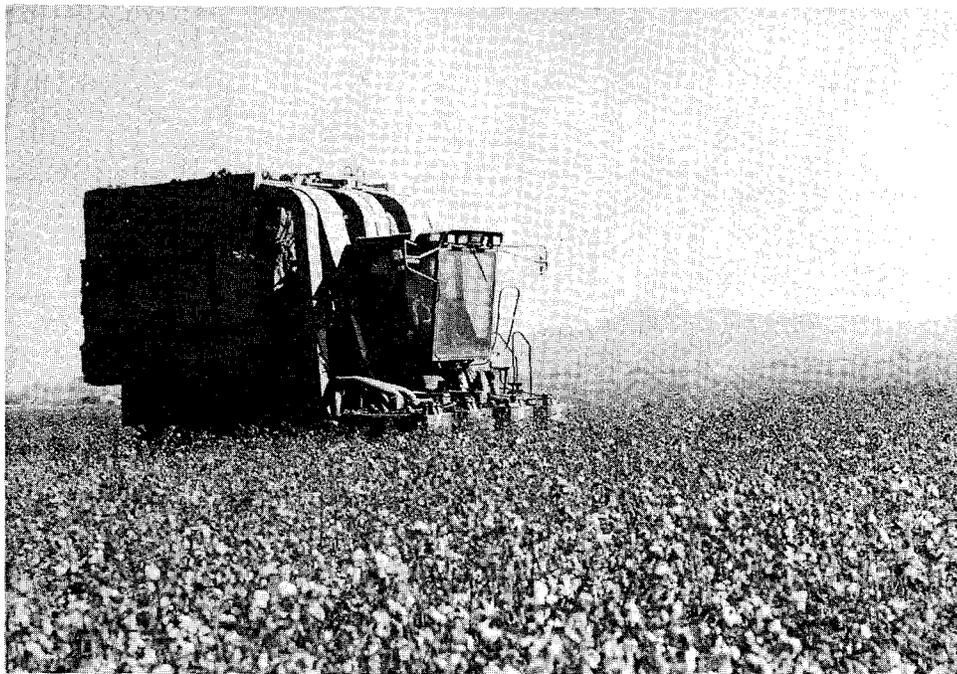
Item	Unit	1986/87	1987/88	1988/89	1989/90	1990/91
<b>BALES GINNED</b> 1/ (running bales)	Thousands	632	796	808	619	954
<b>ACTIVE GINS</b>	Number	85	84	89	89	90
<b>GINNING AND WRAPPING CHARGES:</b>						
Total charge per 480-lb. net weight bale 2/	Dollars	40.33	40.31	41.04	42.15	41.95
<b>METHOD OF HARVESTING:</b>						
Machine-picked	Percent	93	96	96	96	99
Machine-stripped	Percent	3	0	0	0	0
Machine-scraped	Percent	4	4	4	4	1
<b>WEIGHT OF SEED COTTON PER 480-LB. NET WEIGHT BALE:</b>						
Machine-picked	Pounds	1,480	1,460	1,492	1,501	1,473
Machine-scraped	Pounds	1,829	1,952	1,824	1,946	1,950
<b>COTTON GINNED FROM:</b>						
Trailers	Percent	35	29	30	23	32
Modules	Percent	65	71	70	77	68
<b>CHARGES FOR WAREHOUSING AND RELATED SERVICES 3/:</b>						
Charge per bale per month for insured storage	Dollars	2.02	2.05	1.94	1.97	1.97
Charge per bale for compressing to universal density	Dollars	5.75	5.75	5.75	5.75	5.75
Charge per bale for outhandling	Dollars	4.46	4.35	4.82	4.82	4.82

1/ Excludes all American-Pima and upland cotton ginned on roller gins.

2/ Includes bagging and ties, drying of seed cotton, lint cleaning, and insurance, but does not reflect any patronage dividends, rebates, transportation to warehouses, industry organization dues, or cotton classing fees.

3/ Based on published tariffs.

Source: United States Department of Agriculture, Economic Research Service, National Economics Division; Cotton Ginning Charges, Harvesting Practices, and Selected Marketing Costs.



UPLAND COTTON: Estimated percentage planted to specified varieties; Arizona, by counties 1991 and crop year, 1989-91

Variety	County						Crop year		
	Cochise	Graham and Greenlee	Maricopa	Pinal	La Paz, Mohave, and Pima	Yuma	1989	1990	1991
	<u>Percent</u>						<u>Percent</u>		
Acala 1517 E-2	7.2						.9	.5	*
Acala 1517-75	10.5						.9	.6	.5
Acala 1517-88	18.2	15.7					1.2	.8	1.3
Acala 1517-SR2	8.8						1.0	.7	*
Cargill Paymaster HS 26	10.4							.6	.5
Chembred CB 1135									.5
Chembred CB 407									.7
Del Cerro	5.9						.7	*	*
Deltapine Acala 90	27.4	79.3	40.3	42.6	30.5	4.6	54.9	52.2	37.5
Deltapine DP 5415			.8	4.3	3.8	4.3			2.5
Deltapine DP 5461			.6		*	7.3			.8
Deltapine DP 5690			4.9	2.5	*	2.0			3.0
Deltapine DP 5816			16.2	11.2	6.4	4.0			11.3
Deltapine 20			6.0	4.1	17.6	2.5	4.3	4.0	5.8
Deltapine 41			*	6.5		2.4	2.2	1.0	2.5
Deltapine 50			.8	.6	2.8	47.7	2.4	6.1	4.7
Deltapine 51			1.0	8.3	1.2	1.3	*	2.1	3.5
Deltapine 61							4.7	4.6	
Deltapine 77			9.0	3.9	7.7	7.3	21.3	20.7	6.3
Deltapine Suregrow DES-119									1.4
Hyperformer HS 46			2.6	9.8	*				4.5
Stoneville KC311	3.0	.9	1.2	1.4	3.4	1.1			1.6
Stoneville 112	3.6	.8							*
Stoneville 453			1.7	2.0					1.4
Stoneville 907									.8
Sure-Grow 1001			4.7		1.6	8.6		.8	2.7
Terra C-40									.7
All Other	5.1	3.3	10.0	2.8	24.0	6.9	5.5	5.3	5.5

\* Less than 0.5 percent.

Source: United States department of Agriculture, Agricultural Marketing Service, Cotton Division.

## 1991 ARIZONA AGRICULTURAL STATISTICS

## ALL COTTON: Domestic mill consumption, stocks, and exports, United States, 1986/87-1991/92

Season	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Season totals 1/
<u>1,000 running bales</u>													
<u>Mill consumption 2/</u>													
1986/87	534	523	683*	529	576*	546	562	734*	573	586	708*	540	7,096
1987/88	606	753*	621	606	610*	568	590	738*	556	551	662*	433	7,294
1988/89	577	693*	552	523	572*	568	584	751*	623	645	798*	559	7,444
1989/90	663	829*	665	617	653*	605	633	794*	624	641	826*	559	8,109
1990/91	680	835*	671	610	601*	--	--	2,068	--	--	2,212	--	--
1991/92 3/	--	2,215	--	--	2,199								
<u>Mill consumption per day</u>													
1986/87	26.7	26.2	27.3	26.5	23.1	27.3	28.1	29.4	28.7	29.3	28.3	27.0	27.3
1987/88	30.3	30.1	31.0	30.3	24.4	28.4	29.5	29.5	27.8	27.6	26.5	21.7	28.1
1988/89	28.8	27.7	27.6	26.1	22.9	28.3	29.2	30.0	31.2	32.2	31.9	27.9	28.6
1989/90	33.2	33.1	33.2	30.8	26.1	30.2	31.6	31.8	31.2	32.1	33.0	28.0	31.2
1990/91	34.0	33.4	33.6	30.5	24.0	--	--	32.3	--	--	34.0	--	--
1991/92 3/	--	33.6	--	--	33.3								
<u>Stocks in consuming establishments 4/</u>													
1986/87	664	582	563	578	620	640	705	702	723	709	674	680	--
1987/88	648	579	530	542	637	722	777	786	790	756	719	709	--
1988/89	651	581	568	555	571	588	631	612	627	645	603	606	--
1989/90	600	590	552	544	584	661	689	696	685	675	667	672	--
1990/91	619	531	519	514	581	--	--	663	--	--	722	--	--
1991/92 3/	--	570	--	--	580								
<u>Stocks in public storage 4/</u>													
1986/87	7,625	7,996	9,543	10,148	10,204	10,015	9,058	7,878	6,871	5,870	4,821	3,817	--
1987/88	3,239	4,864	7,398	9,456	10,582	10,216	9,149	7,972	6,965	5,973	5,072	4,645	--
1988/89	4,432	5,017	8,259	11,722	13,481	13,109	12,048	10,607	9,362	8,170	6,771	5,929	--
1989/90	4,975	4,458	7,378	10,558	10,762	9,524	8,052	6,566	5,447	4,224	3,185	2,187	--
1990/91	1,615	2,451	6,126	8,930	9,875	--	--	5,681	--	--	2,491	--	--
1991/92 3/	--	2,223	--	--	11,075								
<u>Exports 4/</u>													
1986/87	374	496	489	525	664	591	518	750	500	465	554	439	6,366
1987/88	355	304	316	612	536	698	879	649	565	537	486	359	6,297
1988/89	248	173	292	352	524	756	514	597	575	795	515	649	5,987
1989/90	431	384	507	469	516	909	840	882	818	495	510	550	7,310
1990/91	480	355	433	591	639	1,112	950	804	960	488	404	273	7,488
1991/92 3/	219	126	239	396	675								

\* Five week month.

1/ Season totals are adjusted data as reported in Supply and Distribution of Domestic and Foreign Cotton in the United States by Bureau of the Census.

2/ Consumption figures relate to four-week months except as noted. Daily consumption rates calculated on the basis of 20 days for four-week months and 25 days for five-week months with no allowance for holidays; first quarter 1991 based on 64 days; second and fourth quarters, 65 days; and third quarter, 66 days.

3/ Preliminary.

4/ These data refer to a particular day near the end of the month.

Source: United States Department of Agriculture, Foreign Agricultural Service.

COTTON PROGRESS: Arizona, by survey week, 1987-91

Month and week	1987	1988	1989	1990	1991	5-year average
<u>Percent of acreage</u>						
<u>PLANTED</u>						
March 24	9	8	18	15	5	11
31	19	18	35	26	6	21
April 7	49	45	54	48	10	41
14	67	60	75	74	24	60
21	77	68	83	82	34	69
28	85	75	82	91	60	79
May 5	90	84	91	96	72	87
12	94	92	95	98	88	93
19	97	97	98	99	93	97
26	99	99	99	98	100	99
June 2	100	100	100	100		100
<u>SQUARING</u>						
May 19	7	22	45	2	0	15
26	28	34	62	4	2	26
June 2	47	45	76	18	16	40
9	67	55	89	40	30	56
16	83	70	96	56	45	70
23	90	87	97	91	70	87
30	96	94	98	98	80	93
July 7	98	96	100	99	94	97
14	99	97		100	97	98
21	100	98			99	99
28		99			100	100
Aug. 4		100				
<u>SETTING BOLLS</u>						
June 16	6	10	57	18	4	19
23	22	21	72	58	8	36
30	46	34	80	67	22	50
July 7	64	52	87	78	44	65
14	78	68	94	88	68	79
21	86	76	97	96	80	87
28	91	85	98	97	90	92
Aug. 4	96	94	99	100	95	97
11	99	98	99		99	99
18	99	99	100		100	99
25	100	100				100
<u>OPEN BOLLS</u>						
Aug. 4	20	17	20	20	0	15
11	26	32	30	32	8	26
18	46	45	42	41	12	37
25	52	62	55	50	22	48
Sept. 1	65	74	70	79	45	67
8	81	82	80	98	60	80
15	86	90	85	99	76	87
22	88	96	89	100	85	92
29	92	98	95		90	95
Oct. 6	94	99	97		94	97
13	96	100	99		97	98
20	100		100		98	99
27					99	100
Nov. 3					100	

Continued--

COTTON PROGRESS: Arizona, by survey week, 1987-91--continued

Month and week	1987	1988	1989	1990	1991	5-year average
Percent of acreage						
<u>HARVESTED</u>						
Sept. 15	3	2	6	5	1	3
22	5	4	8	9	6	6
29	8	6	10	14	10	10
Oct. 6	12	14	14	20	16	15
13	22	22	22	32	25	25
20	48	25	32	48	35	38
27	60	32	44	59	47	48
Nov. 3	66	44	52	72	62	59
10	72	59	62	83	73	70
17	78	71	72	89	85	79
24	86	78	79	94	91	86
Dec. 1	91	86	87	98	97	92
8	95	94	98	100	98	97
15	97	98	98		100	98
22	99	99	99			99
Dec. 29	100	100	100			100

PASTURE AND RANGE FEED CONDITIONS: Arizona, May-November 1987-91

Year	May	June	July	August	September	October	November
Percent 1/							
1987	89	87	78	65	81	83	77
1988	94	84	80	74	98	92	94
1989	75	72	54	54	64	55	55
1990	56	43	48	63	70	81	77
1991	87	85	79	77	65	60	55

1/ Good to excellent, 80 and over; poor to fair, 65-79; very poor, 50-64; severe drought, 35-49; drought, under 35.

SMALL GRAINS PROGRESS: Arizona, by survey week, 1987-91

Month and week 1/	1987	1988	1989	1990	1991	5-year average
Percent of acreage						
<u>PLANTED</u>						
Nov. 25	6	0	17	22	13	17
Dec. 2	17	12	28	34	45	27
9	31	22	44	50	54	40
16	42	36	61	65	70	55
23	52	47	76	79	78	66
30	69	64	84	84	80	76
Jan. 6	82	77	87	90	93	86
13	87	84	92	97	93	91
20	90	88	96	99	96	94
27	93	90	98	100	97	96
Feb. 3	97	97	100		99	99
10	99	100			100	100
17	100					100

See footnote at end of table

Continued--

SMALL GRAINS PROGRESS: Arizona, by survey week, 1987-91--continued

Month and week	1987	1988	1989	1990	1991	5-year average
<u>Percent of acreage</u>						
<u>JOINTING</u>						
Feb. 10	7	16	17	18	18	15
17	17	27	20	27	32	25
24	24	40	35	50	38	37
Mar. 3	39	56	51	74	44	53
10	56	67	69	85	56	67
17	78	77	83	91	62	78
24	90	86	93	95	78	88
31	96	92	99	98	82	93
Apr. 7	98	98	100	100	99	99
14	100	100			100	100
<u>HEADING</u>						
Mar. 3	2	2	6	18	3	6
10	8	5	7	22	7	10
17	13	10	11	33	8	15
24	29	22	29	46	18	29
31	46	32	53	58	22	42
Apr. 7	57	42	72	86	66	65
14	78	60	86	94	79	79
21	89	72	93	95	86	87
28	97	86	97	96	96	94
May 5	99	90	98	97	98	96
12	100	98	100	98	99	99
19		100		100	100	100
<u>TURNING COLOR</u>						
Apr. 7	5	5	0	4	4	4
14	11	15	20	18	19	17
21	20	30	30	33	26	28
28	35	30	40	52	42	40
May 5	45	50	60	68	54	55
12	50	70	75	82	74	70
19	80	80	85	87	88	84
26	96	87	97	93	95	94
June 2	100	95	99	97	100	98
9		100	100	100		100
<u>HARVESTED</u>						
May 12	1	1	4	7	2	3
19	9	3	17	12	4	9
26	28	18	31	20	6	21
June 2	50	42	56	31	19	40
9	63	68	76	53	38	60
16	72	81	84	80	68	77
23	82	89	95	95	76	87
30	89	94	99	100	90	94
July 7	95	98	100		96	98
14	97	98			100	99
21	99	99				100
28	100	100				100

1/ November and December of previous year.

## PESTICIDE SALES: By type, Arizona, 1986-90 1/

Pesticide type	1986	1987	1988	1989	1990
	1,000 lbs. technical material				
<b>INSECTICIDES</b>					
Acephate	26	35	7	77	57
Aldicarb	11	21	4	7	9
Azinphos-Methyl	33	49	2	38	90
Carbaryl	26	39	22	10	2/
Chlordimeform	73	57	28	14	0
Chlorpyrifos	69	29	160	62	87
DDVD	11	11	9	7	34
Diazinon	96	66	53	25	8
Dimethoate	93	60	64	14	9
Disulfoton	63	30	2	147	16
Endosulfan	36	136	4	0	12
Malathion	68	68	44	72	30
Methomyl	59	109	29	67	78
Mevinphos	55	59	44	26	7
Monocrotophos	56	65	28	1	0
Permethrin	18	28	6	11	5
Sulfur	880	69	415	349	31
Other	625	413	98	90	93
TOTAL	2,298	1,344	1,019	1,017	566
<b>HERBICIDES</b>					
Benefin	45	38	1	10	7
Cyanazine	17	28	17	17	30
DCPA	36	30	1	7	22
Dinoseb	91	0	0	0	0
Diuron	27	28	13	14	22
EPTC	92	74	5	40	44
Glyphosate	130	137	85	124	58
MSMA	65	4	28	6	0
Pendimethalin	47	57	23	35	39
Prometryn	101	61	7	54	76
Simazine	20	18	6	2	1
Trifluralin	257	59	19	43	61
Other	223	193	71	96	44
TOTAL	1,151	727	276	448	404
<b>FUNGICIDES AND BACTERICIDES</b>					
Copper Sulfate	46	102	7	43	83
Mancozeb	27	5	7	3	3
Maneb	78	21	2/	0	0
PCNB	228	8	2/	3	5
Zinc Sulfate	35	5	2/	2/	8
Other	60	28	11	20	16
TOTAL	474	169	25	69	115
<b>DEFOLIANTS, DESSICANTS, AND GROWTH REGULATORS</b>					
Arsenic Acid	101	4	2	24	3
DEF	49	55	13	37	69
Ethephon	14	10	1	1	0
Merphos	0	27	0	18	29
Paraquat	9	6	2/	7	5
Sodium Chlorate	679	498	410	463	438
Other	99	25	60	17	11
TOTAL	951	625	486	567	555
<b>FUMIGANTS</b>					
Dichloropropene	113	60	0	204	39
Metam Sodium	1	2/	2/	7	65
Methyl Bromide	18	25	29	8	0
Other	2	11	10	12	0
TOTAL	134	96	39	231	104

1/ Survey results do not represent total pesticide sales. Data are tabulated only for those responding with no allowance for non-respondents.  
2/ Less than 1,000 pounds.

Source: University of Arizona, College of Agriculture, Council for Environmental Studies; Pesticide Sales Survey.

## COMMERCIAL FERTILIZERS AND MINERALS SOLD: Arizona, 1986-91

Fertilizer and minerals	1986	1987	1988	1989	1990	1991
<u>Tons</u>						
<b>DRY FERTILIZERS</b>						
Ammonium phosphate, 11-52(53)-0	17,415	21,260	27,296	30,412	30,873	27,974
Ammonium phosphate, 11-48-0	119	0	847	137	500	0
Ammonium phosphate, 16-20-0	8,071	7,947	11,365	9,180	6,956	6,136
Ammonium phosphate, 18-46-0	6,855	7,482	8,057	4,959	3,687	3,699
Other dry mixed fertilizer	22,477	28,172	30,415	22,842	27,881	32,086
Ammonium nitrate	5,047	5,139	5,413	4,480	4,314	4,245
Ammonium sulfate	8,203	10,074	11,025	9,727	9,491	11,634
Calcium nitrate and sodium nitrate	1,344	1,154	506	825	1,353	894
Potassium sulfate and/or chloride	421	230	346	1,003	2,561	1,398
Superphosphate, treble	3,088	2,346	1,975	2,201	2,995	1,491
Urea	18,086	20,852	21,949	25,028	20,173	17,579
Miscellaneous, dry (unmixed)	247	577	1,048	1,312	1/	1/
<b>Total Dry Fertilizers</b>	<b>91,373</b>	<b>105,233</b>	<b>120,242</b>	<b>112,106</b>	<b>110,783</b>	<b>107,136</b>
<b>LIQUID FERTILIZERS</b>						
Anhydrous ammonia	38,137	19,036	19,083	21,351	20,287	13,872
Ammonia solutions, 20-0-0	8,578	10,074	7,884	6,357	7,460	8,458
Ammonium nitrate solution, 20-0-0	13,146	15,119	21,203	21,757	21,773	22,527
Urea, amm nitrate solution, 32-0-0	75,070	100,496	114,710	115,531	118,025	108,983
Calcium amm nitrate solution, 17-0-0	7,171	12,037	14,044	15,675	17,728	18,919
Phosphoric acid	1,434	891	1,192	1,663	2,082	2,554
Miscellaneous liquids	39,491	36,051	43,202	40,855	46,807	35,435
<b>Total Liquid Fertilizers</b>	<b>183,033</b>	<b>193,704</b>	<b>221,318</b>	<b>223,189</b>	<b>234,162</b>	<b>210,748</b>
<b>AGRICULTURAL MINERALS</b>						
Gypsum	25,874	47,229	73,619	69,848	64,372	60,219
Iron products	2,065	1,957	2,043	2,703	3,377	786
Sulfur products	1,248	1,399	1,961	1,667	2,178	1,603
Lime sulfur solution	270	201	223	414	289	252
Sulfuric acid	4,351	5,441	3,898	6,748	6,266	7,999
Micro nutrients	1,618	2,117	1,931	4,553	1,484	2,589
Miscellaneous minerals	0	0	20	0	42	0
<b>Total Agricultural Minerals</b>	<b>35,426</b>	<b>58,344</b>	<b>83,695</b>	<b>85,933</b>	<b>78,009</b>	<b>73,448</b>
<b>TOTAL TONNAGE ALL PRODUCTS</b>	<b>309,832</b>	<b>357,281</b>	<b>425,255</b>	<b>421,228</b>	<b>422,954</b>	<b>391,332</b>
Tons of Actual Nitrogen 2/	84,552	80,850	88,601	86,950	3/	3/
Tons of Actual Phosphorus 2/	25,196	25,430	31,305	29,148	3/	3/
Tons of Actual Potassium 2/	1,487	1,677	1,418	957	3/	3/

1/ Not available. Amounts included in "other dry mixed fertilizer".

2/ Amounts of available nitrogen, phosphorus, and potassium in the above commercial fertilizer totals.

3/ Not available.

Source: Arizona Department of Agriculture.

**CHEMICAL USE ON VEGETABLES**

As part of the USDA Pesticide Data Program, an extensive chemical usage survey was conducted in the Fall of 1990 to determine the amount of chemicals applied to Arizona's vegetable crops. In addition to Arizona, the same survey was conducted in Florida, Michigan, and Texas. In California, their mandatory pesticide reporting program supplied chemical usage information.

The purpose of the Pesticide Data Program is to upgrade the reliability of pesticide use statistics and the quality of information on pesticide residues in food. The resulting data series addresses the increased public interest in agricultural chemical use and provides the means for government agencies to respond effectively to food safety and water quality issues.

In addition to vegetables, a similar survey was conducted during the Fall of 1991 on citrus, apples, and grapes in Arizona. Other fruit and nut crops were surveyed in a total of fourteen states nationwide. Listed below is a sample of the data that was summarized from the vegetable survey. If you desire a copy of the complete vegetable and citrus reports, please contact our office.

The full vegetable report includes chemical use estimates for 20 different crops grown in Arizona. Vegetable acres treated with herbicides totaled 76 percent statewide while acres treated with insecticides totaled 82 percent. Fungicides and other chemicals were applied on only 36 percent and 4 percent of the vegetables acres, respectively.

ALL VEGETABLES CROPS 1/ Agricultural Chemical Applications, Arizona, 1990		
Agricultural Chemical	Area Applied 2/ Percent	Total Applied 1,000 Pounds
<b>FERTILIZERS:</b>		
Nitrogen	98	24,070
Phosphate	89	19,088
Potash	10	403
<b>PESTICIDES: 3/</b>		
Abamectin	8	0.1
Acephate	22	23.3
Benefin	41	61.1
Benomyl	8	2.1
Bt (Bacillus thur.)	39	4/ 1,401.1
Chlorothalonil	6	8.7
Chlorpyrifos	5	7.3
Cypermethrin	40	8.2
DCPA	9	46.8
Diazinon	33	21.4
Dimethoate	43	25.5
Endosulfan	42	53.6
EPTC	5	16.6
Esfenvalerate	10	1.4
Iprodione	9	11.4
Mancozeb	5	9.0
Maneb	9	9.6
Metalaxyl	16	4.1
Methomyl	60	103.4
Mevinphos	37	47.1
Permethrin	51	25.6
Pronamide	43	40.1
Pyrethrins	10	0.6
Rotenone	9	0.5
Sulfur	7	192.4
Triadimefon	8	1.6
Trifluralin	13	11.8

\* Applied on less than one percent of acres.

1/ Area planted in 1990 was 97,500 acres. Excludes potatoes and sweet potatoes; includes strawberries and melons. 2/ Refers to acres receiving one or more applications of a specific agricultural chemical. 3/ Only pesticides with 5 percent or more area applied are listed. 4/ Unit is expressed in 1,000 BIU (Billion International Units).

PESTICIDES: Class, Common Names, and Trade Names 1/		
Class	Common Name	Trade Name
I	abamectin	Agri-Mek
I	acephate	Orthene
H	benefin	Balan
F	benomyl	Benlate
I	Bt (Bacillus Thuringiensis)	Bactospeine, Biobit, Dipel, Javelin, Larvo-Bt, MVP, M-One, Thuricide
F	chlorothalonil	Bravo
I	chlorpyrifos	Lorsban
I	cypermethrin	Ammo, Cymbush
H	DCPA	Dacthal
I	diazinon	several
I	dimethoate	several
I	endosulfan	Thiodan
H	EPTC	Eptam, Eradicane, Genep
I	esfenvalerate	Asana, Pydrin
F	iprodione	Rovral
F	mancozeb	several
F	maneb	several
F	metalaxyl	Ridomil
I	methomyl	Lannate, Nudrin
I	mevinphos	Phosdrin, Duraphos
I	permethrin	Ambush, Pounce
H	pronamide	Kerb
I	pyrethrins	pyrethrins
I	rotenone	rotenone
F	sulfur	several
F	triadimefon	Bayleton
H	trifluralin	Treflan, Trilin

1/ This is a list of common names of active ingredients with the associated class and trade name. The classes are herbicides (H), insecticides (I), fungicides (F), and other chemicals (O). This list is provided as an aid in reviewing pesticide data. Pre-mixes are not listed. The list is not complete and NASS does not mean to imply use of any specific trade name.



TOP TEN STATES BY AGRICULTURAL CATEGORY, Arizona's Rank and United States total, 1991

Category	Unit	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Ninth	Tenth	United States Total	Arizona's Rank
GENERAL													
Number of Farms and Ranches June 1991	Number	Texas 185,000	Mo. 107,000	Iowa 102,000	Ky. 91,000	Minn. 88,000	Tenn. 87,000	Calif. 84,000	ILL. 82,000	Ohio 80,000	Wis. 79,000	2,104,560	40
Land in Farms and Ranches June 1991	1,000 acres	Texas 131,000	Mont. 60,300	Kans. 47,900	Nebr. 47,100	N. Mex. 44,300	S. Dak. 44,200	N. Dak. 40,400	ARIZ. 36,000	Wyo. 34,800	Iowa 33,500	982,576	8
Cash Receipts from Farm Marketings 1990	Mil. dol.	Calif. 18,859	Texas 11,981	Iowa 10,319	Nebr. 8,845	ILL. 7,938	Minn. 7,011	Kans. 6,995	Fla. 5,708	Wis. 5,706	Ind. 4,931	169,987	32
FIELD CROPS													
Cotton Production	1,000 bales	ARIZ. 190	Calif. 130	Texas 55	N. Mex. 23	Miss. 1						399	1
Upland Cotton Production	1,000 bales	Texas 5,300	Calif. 2,450	Miss. 2,250	Ark. 1,550	La. 1,390	ARIZ. 890	Ga. 720	Tenn. 700	N.C. 650	Ala. 535	17,143	6
Cottonseed Production	1,000 tons	Texas 1,943	Calif. 1,073	Miss. 876	Ark. 718	La. 522	ARIZ. 409	Tenn. 277	Ga. 260	N.C. 229	Ala. 196	6,925.5	6
Durum Wheat Production	1,000 tons	N. Dak. 2,651	Mont. 177	ARIZ. 111	Calif. 101	S. Dak. 50	Minn. 29	Ohio 1,588	Idaho 1,470	Mo. 1,440	S. Dak. 1,365	41,165	35
Winter Wheat Production	1,000 tons	Kans. 10,890	Okla. 4,200	Texas 2,520	Mont. 2,160	Colo. 2,139	Nebr. 2,016	Ohio 1,588	Idaho 1,470	Mo. 1,440	S. Dak. 1,365	41,165	35
Corn for Grain Production	1,000 tons	Iowa 39,967	ILL. 32,956	Nebr. 27,737	Minn. 20,160	Ind. 14,297	Wis. 10,662	Ohio 9,139	Mich. 7,084	S. Dak. 6,734	Mo. 5,975	209,285	41
Barley Production	1,000 tons	N. Dak. 3,301	Mont. 2,059	Idaho 1,422	Minn. 1,050	Wash. 889	S. Dak. 431	Oreg. 302	Wyo. 253	Colo. 250	Calif. 227	11,148	17
Alfalfa Hay Production	1,000 tons	Wis. 8,400	Calif. 7,035	Minn. 6,290	Iowa 5,550	S. Dak. 5,405	Nebr. 4,785	Mich. 4,680	Idaho 3,914	Mont. 3,750	Colo. 2,736	83,795	23
Other Hay Production	1,000 tons	Texas 9,250	Mo. 5,760	Ky. 3,900	Okla. 3,200	Tenn. 2,983	Nebr. 2,688	S. Dak. 2,640	Kans. 2,550	N. Dak. 2,470	Ark. 2,354	69,690	45
Potatoes Production	1,000 cwt.	Idaho 122,175	Wash. 75,435	N. Dak. 30,030	Colo. 26,168	Wis. 23,275	Oreg. 22,170	Minn. 19,314	Maine 18,170	Calif. 16,626	Mich. 11,715	418,229	21
Principal Field Crops Harvested acreage	1,000 acres	Iowa 23,376	ILL. 22,906	N. Dak. 20,925	Kans. 20,712	Minn. 18,719	Nebr. 18,316	Texas 17,608	S. Dak. 15,640	Mo. 12,900	Ind. 11,555	304,894	38
Principal Field Crops Value of Production	Mil. dol.	Iowa 5,656	ILL. 5,287	Minn. 3,958	Texas 3,735	Nebr. 3,724	Calif. 2,662	Kans. 2,524	Ind. 2,485	N. Dak. 2,196	Ohio 2,117	65,006	33
VEGETABLES													
Lettuce Production	1,000 cwt.	Calif. 50,920	ARIZ. 15,440	Fla. 1,197	Colo. 1,034	N. Mex. 620	N.Y. 494	N.J. 363	Wash. 312	Mich. 200	Texas 168	70,778	2
Cauliflower Production	1,000 cwt.	Calif. 5,460	ARIZ. 725	Oreg. 390	N.Y. 349	Mich. 72	Texas 45					11,190	2
Broccoli Production	1,000 cwt.	Calif. 10,120	ARIZ. 618	Oreg. 248	Texas 204							68,895	3
Honeydews Production	1,000 cwt.	Calif. 2,548	Texas 799	ARIZ. 390								7,093	4
Spring Onions Production	1,000 cwt.	Calif. 3,160	Texas 2,832	Ga. 660	ARIZ. 441							27,827	11
Carrots Production	1,000 cwt.	Calif. 15,680	Wash. 3,400	Mich. 1,700	Wis. 1,276	Texas 1,260	Fla. 1,035	Oreg. 918	Minn. 549	Colo. 539	N.Y. 516	1,066	160
Principal Vegetables Harvested acres	1,000 acres	Calif. 504	Fla. 115	ARIZ. 66	Mich. 58	Wash. 48	N.Y. 48	Texas 38	Oreg. 27	Colo. 22	Pa. 20	1,066	3
Principal Vegetables Value of Production	Mil. dol.	Calif. 1,817	Fla. 742	ARIZ. 202	N.Y. 127	Texas 127	Wash. 123	Oreg. 107	Mich. 90	Colo. 69	S.C. 10	202	3

Category	Unit	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eighth	Ninth	Tenth	United States Total	Arizona's Rank
FRUITS													
Lemons Production	1,000 ctrs.	Calif. 29,800	ARIZ. 8,200									38,000	2
Oranges Production	1,000 ctrs.	Fla. 303,000	Calif. 53,600	ARIZ. 3,500								360,100	3
Grapefruit Production	1,000 ctrs.	Fla. 90,200	Calif. 16,000	ARIZ. 4,800								111,000	3
Tangerines Production	1,000 ctrs.	Fla. 3,900	Calif. 2,600	ARIZ. 1,200								7,700	3
Grapes Utilized Production	1,000 tons	Calif. 4,875	Wash. 196	N.Y. 192	Penn. 78	Mich. 46	ARIZ. 25	Ark. 11	Oreg. 10	Ark. 9	Mo. 10	5,450	6
Apples Utilized Production	Mil. lbs.	Wash. 4,300	N.Y. 1,050	Mich. 880	Calif. 800	Penn. 530	Va. 415	N.C. 260	W. Va. 185	Oreg. 130	Idaho 120	9,810	20
Principal Fruits & Nuts Value of Production	Mil. dol.	Calif. 4,615	Fla. 1,795	Wash. 1,183	N.Y. 212	Oreg. 194	Mich. 170	Haw. 168	ARIZ. 162	GA. 129	Mass. 116	9,574	8
LIVESTOCK													
All Cattle and Calves January 1, 1992	1,000 head	Texas 13,300	Nebr. 5,650	Kans. 5,650	OKla. 5,500	Mo. 4,550	Calif. 4,500	Iowa 4,450	Wis. 4,000	S. Dak. 3,550	Colo. 2,950	100,110	35
Cattle on Feed January 1, 1992	1,000 head	Texas 2,180	Nebr. 1,990	Kans. 1,820	Colo. 930	Iowa 880	Calif. 380	Ill. 340	OKla. 340	Minn. 310	S. Dak. 290	11,947	13
Calf Crop 1991	1,000 head	Texas 5,150	Mo. 2,040	OKla. 1,900	Wis. 1,780	Calif. 1,700	Nebr. 1,680	S. Dak. 1,620	Mont. 1,430	Kans. 1,330	Iowa 1,310	39,256	35
Cows that have calved January 1, 1992	1,000 head	Texas 5,850	Mo. 2,270	OKla. 2,020	Calif. 2,010	Wis. 1,850	Nebr. 1,850	S. Dak. 1,640	Mont. 1,490	Kans. 1,430	Iowa 1,420	43,738	36
All Cattle and Calves Value January 1, 1992	Mil. dol.	Texas 8,228	Nebr. 3,683	Kans. 3,390	Calif. 3,308	Wis. 3,080	OKla. 3,080	Iowa 2,737	Mo. 2,616	S. Dak. 2,325	Colo. 1,888	63,016	34
All Sheep and Lambs January 1, 1992	1,000 head	Texas 2,140	Calif. 995	Wyo. 850	Colo. 710	Mont. 688	S. Dak. 602	Utah 488	N. Mex. 445	Oreg. 433	Iowa 343	10,850	14
Angora Goats January 1, 1992	1,000 head	Texas 1,620	N. Mex. 110	ARIZ. 95	OKla. 60	Mich. 8						1,896	3
Hogs and Pigs December 1, 1991	1,000 head	Iowa 14,800	Ill. 5,800	Minn. 4,900	Ind. 4,550	Nebr. 4,400	N.C. 3,550	Mo. 2,650	S. Dak. 1,950	Ohio 1,875	Kans. 1,400	56,974	30
All Chickens(Excludes Commercial Broilers) December 1, 1991	1,000 birds	Calif. 34,000	Ind. 25,900	Ga. 25,046	Penn. 24,325	Ark. 24,199	Ohio 19,730	N.C. 19,305	Texas 17,700	Ala. 15,100	Minn. 14,400	359,473	43
Henry Production Total produced	1,000 lbs.	Calif. 32,760	S. Dak. 22,725	N. Dak. 22,145	Fla. 18,675	Minn. 16,380	Texas 10,920	Mont. 7,912	Mich. 7,665	Wis. 7,370	Nebr. 7,236	220,105	16
Milk Production Total produced	Mil. lbs.	Wis. 24,065	Calif. 21,509	N.Y. 11,094	Penn. 10,106	Minn. 9,772	Texas 5,418	Mich. 5,256	Ohio 4,695	Wash. 4,459	Iowa 4,151	148,535	21
Egg Production Total produced	Mil. eggs	Calif. 1,875	Ind. 1,301	Penn. 1,298	Ohio 1,159	Ga. 1,102	Ark. 962	Texas 821	N.C. 757	Minn. 695	Iowa 612	17,305	43

## LAND OWNERSHIP AND ADMINISTRATION: Acres and percent of total, Arizona, by counties, 1991 1/

County	Forest Service	Bureau of Land Management	State of Arizona	Indian reservations	Individual or corporate 2/	Other public lands 3/	Total area 4/	Area of	
								Land	Water 5/
1,000 acres									
Apache	487	124	647	4,690	1,079	154	7,181	7,175	6
Cochise	490	376	1,372	0	1,631	112	3,980	3,980	0
Coconino	3,269	612	1,130	5,355	719	862	11,947	11,909	38
Gila	1,704	65	31	1,158	81	28	3,067	3,041	26
Graham	396	759	497	1,072	250	3	2,977	2,963	14
Greenlee	749	172	174	0	75	6	1,176	1,176	0
La Paz	0	1,691	258	256	118	566	2,889	2,870	19
Maricopa	658	2,433	669	263	1,800	81	5,904	5,841	63
Mohave	5	5,235	566	544	855	1,417	8,622	8,503	119
Navajo	488	88	370	3,465	1,933	30	6,374	6,371	3
Pima	383	366	875	2,491	762	1,003	5,880	5,880	0
Pinal	223	291	1,216	774	891	44	3,439	3,420	19
Santa Cruz	420	4	62	0	306	0	792	792	0
Yavapai	1,962	568	1,279	8	1,363	21	5,201	5,198	3
Yuma	0	1,474	269	9	336	1,443	3,531	3,526	5
Total	11,234	14,257	9,415	20,085	12,199	5,770	72,960	72,645	315

County	Forest Service	Bureau of Land Management	State of Arizona	Indian reservations	Individual or corporate 2/	Other public lands 3/	Percent of total area	
							Land	Water 5/
Apache	7	2	9	65	15	2		
Cochise	12	9	35	0	41	3		
Coconino	28	5	9	45	6	7		
Gila	56	2	1	38	2	1		
Graham	13	26	17	36	8	6/		
Greenlee	64	15	15	0	6	6/		
La Paz	0	59	9	9	4	19		
Maricopa	11	42	11	4	31	1		
Mohave	6/	61	6	6	10	17		
Navajo	8	1	6	55	30	6/		
Pima	7	6	15	42	13	17		
Pinal	6	8	36	23	26	1		
Santa Cruz	53	6/	8	0	39	0		
Yavapai	38	11	25	6/	26	6/		
Yuma	0	42	8	6/	9	41		
Total	15	19	13	28	17	8		

1/ Reference dates: Forest Service, September 30, 1990; Bureau of Land Management, September 30, 1991; State of Arizona, March 25, 1992, and Bureau of Indian Affairs, December 31, 1989.

2/ Derived as residual.

3/ Includes land administered by National Park Service, Department of Defense, Bureau of Sport Fisheries and Wildlife, Bureau of Reclamation, and other state, county and city public land.

4/ U.S. Department of Commerce, Bureau of Census, 1980.

5/ The term "water" includes permanent inland water surface such as lakes, ponds and reservoirs having 40 acres or more of area and streams and canals one-eighth mile or more in width.

6/ Less than 0.5 percent.

STATE STATISTICAL OFFICES

To request order forms for other state statistical reports write or call: (State) Agricultural Statistics Service.

ALABAMA

Box 1071  
Montgomery 36101-1071  
205-223-7263

ALASKA

Box 799  
Palmer 99645  
907-745-4272

ARIZONA

201 E. Indianola  
Suite 250  
Phoenix 85012  
602-640-2573

ARKANSAS

Box 3197  
Little Rock 72203  
501-324-5145

CALIFORNIA

Box 1258  
Sacramento 95812  
916-551-1533

COLORADO

Box 150969  
Lakewood 80215-0969  
303-236-2300

DELAWARE

2320 S. Dupont Highway  
Dover 19901  
302-739-4811

FLORIDA

1222 Woodward St.  
Orlando 32803  
407-648-6013

GEORGIA

Stephens Federal Bldg.  
Suite 320  
Athens 30613  
404-546-2236

HAWAII

Box 22159  
Honolulu 96823-2159  
808-973-9588

IDAHO

Box 1699  
Boise 83701  
208-334-1507

ILLINOIS

Box 19283  
Springfield 62794-9283  
217-492-4295

INDIANA

Purdue University  
West Lafayette 47907-1148  
317-494-8371

IOWA

210 Walnut Street  
Des Moines 50309  
515-284-4340

KANSAS

Box 3534  
Topeka 66601  
913-233-2230

KENTUCKY

Box 1120  
Louisville 40201  
502-582-5293

LOUISIANA

Box 65038  
Baton Rouge 70896-5038  
504-922-1362

MARYLAND

50 Harry S. Truman Pkwy.  
Suite 202  
Annapolis 21401  
410-841-5740

MICHIGAN

Box 20008  
Lansing 48901  
517-377-1831

MINNESOTA

Box 7068  
St. Paul 55107  
612-296-2230

MISSISSIPPI

Box 980  
Jackson 39205  
601-965-4575

MISSOURI

Box L  
Columbia 65205  
314-876-0950

MONTANA

Box 4369  
Helena 59604  
406-449-5303

NEBRASKA

Box 81069  
Lincoln 68501  
402-437-5541

NEVADA

Box 8880  
Reno 89507  
702-784-5584

NEW ENGLAND-Maine, New

Hampshire, Vermont,  
Connecticut, Rhode  
Island, Massachusetts  
Box 1444  
Concord, N.H. 03302  
603-224-9639

NEW JERSEY

CN-330 New Warren St.  
Trenton 08625  
609-292-6385

NEW MEXICO

Box 1809  
Las Cruces 88004  
525-522-6023

NEW YORK

1 Winners Circle  
Albany 12235  
518-457-5570

NORTH CAROLINA

Box 27767  
Raleigh 27611  
919-856-4394

NORTH DAKOTA

Box 3166  
Fargo 58108  
701-239-5306

OHIO

200 N. High St.  
Columbus 43215  
614-469-5590

OKLAHOMA

2800 N. Lincoln Blvd.  
Oklahoma City 73105  
405-525-9226

OREGON

1220 S.W. 3rd. Ave  
Portland 97204  
503-326-2131

PENNSYLVANIA

2301 N. Cameron St.  
Harrisburg 17110  
717-787-3904

SOUTH CAROLINA

Box 1911  
Columbia 29202  
803-765-5333

SOUTH DAKOTA

Box 5068  
Sioux Falls 57117  
605-330-4235

TENNESSEE

Box 41505  
Nashville 37204-1505  
615-781-5300

TEXAS

Box 70  
Austin 78767  
512-482-5581

UTAH

Box 25007  
Salt Lake City 84125  
801-524-5003

VIRGINIA

Box 1659  
Richmond 23213  
804-786-3500

WASHINGTON

Box 609  
Olympia 98507  
206-586-8919

WEST VIRGINIA

4720 Brenda Lane  
Charleston 25312  
304-558-2217

WISCONSIN

Box 9160  
Madison 53715  
608-264-5317

WYOMING

Box 1148  
Cheyenne 82003  
307-772-2181

## 1991 ARIZONA AGRICULTURAL STATISTICS

PRINCIPAL CROPS: Acreage harvested by counties, and total State production, Arizona, 1990

Crop	State Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Upland Cotton: Acres	348,000	0	15,200	0	0	7,400	1,000	25,000	145,000	5,300	0	10,600	113,900	0	0	24,600
Bales, 480 lb. net wt.	811,000															
American Pima Cotton: Acres	124,000	0	4,100	0	0	16,100	*	6,100	24,300	500	0	3,100	65,500	*	0	4,000
Bales, 480 lb. net wt.	194,000															
Alfalfa: Acres	165,000	3,000	7,000	*	*	4,000	*	42,000	48,000	7,500	2,000	1,800	11,000	500	2,000	35,000
Production, tons	1,304,000															
Other hay: Acres	30,000	1,200	600	500	*	500	*	4,000	5,000	1,000	*	500	1,000	*	1,500	13,000
Production, tons	117,000															
Durum wheat: Acres	44,000	*	*	0	*	*	*	3,000	11,200	*	*	1,800	14,100	0	*	11,900
Production, tons	124,080															
Other wheat: Acres	54,000	*	*	*	*	*	*	13,000	14,900	*	*	500	1,500	0	*	20,900
Production, tons	153,900															
Barley: Acres	15,000	*	*	0	0	600	*	0	6,800	0	0	*	5,900	*	*	1,200
Production, tons	37,800															
Corn for Grain: Acres	7,000	0	3,700	0	0	1,500	200	500	800	0	0	*	*	0	*	*
Production, tons	31,360															
Potatoes: Acres	6,900	0	0	0	0	0	0	0	5,500	0	0	0	1,000	0	0	400
Production, cwt.	1,794,000															
Principal vegetables: Acres 1/	80,600	0	1,400	0	0	0	0	4,550	15,770	0	0	850	3,620	0	0	54,430
Production, cwt.	18,571,000															
Grapes: Acres	5,100	0	*	0	0	0	0	0	2,415	0	0	*	1,240	*	*	1,245
Production, tons	26,000															
Grapefruit: Acres	6,400	0	0	0	0	0	0	0	3,800	0	0	0	2/	0	0	2,600
Production, ctns.	4,400,000															
All oranges: Acres	10,200	0	0	0	0	0	0	0	6,180	0	0	0	2/	0	0	4,020
Production, ctns.	3,220,000															
Lemons: Acres	15,500	0	0	0	0	0	0	0	1,400	0	0	0	2/	0	0	14,100
Production, ctns.	5,600,000															
Tangerines: Acres	4,000	0	0	0	0	0	0	0	2,100	0	0	0	2/	0	0	1,900
Production, ctns.	1,200,000															
Other crops: Acres 3/	64,085															
Total acres harvested 4/	979,785															

\* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.

1/ Principal vegetables include broccoli, cauliflowers, carrots, cauliflower, honeydews, lettuce, dry onions and watermelons. Some counties may include acreage for other counties to avoid disclosure of individual operations.

2/ Included with Maricopa County to avoid disclosure of individual operations.

3/ Includes miscellaneous fruits, nuts, vegetables, and field crops not listed above. Not available by county.

4/ Includes double crop acreage.

PRINCIPAL CROPS: Acreage harvested by counties, and total State production, Arizona, 1991

Crop	State Total	Apache	Cochise	Coconino	Gila	Graham	Greenlee	La Paz	Maricopa	Mohave	Navajo	Pima	Pinal	Santa Cruz	Yavapai	Yuma
Upland Cotton: Acres	359,000	0	17,500	0	0	5,700	1,000	28,400	139,000	5,800	0	10,400	127,800	0	0	23,400
Bales, 480 lb. net wt.	898,000															
American Pima Cotton: Acres	103,000	0	2,950	0	0	19,950	*	6,400	18,400	*	0	2,700	49,700	*	0	2,600
Bales, 480 lb. net wt.	184,500															
Alfalfa: Acres	170,000	2,000	7,000	*	*	4,000	*	44,000	50,000	7,500	2,000	1,800	12,000	500	2,000	36,000
Production, tons	1,309,000															
Other hay: Acres	30,000	1,000	600	500	*	500	*	5,000	4,600	1,300	*	500	1,100	*	1,200	12,500
Production, tons	117,000															
Durum wheat: Acres	39,000	*	*	0	*	*	*	2,000	11,500	*	*	1,300	10,800	0	*	11,500
Production, tons	111,150															
Other wheat: Acres	29,000	*	*	*	0	*	*	4,000	7,900	*	*	500	2,100	0	*	13,100
Production, tons	87,000															
Barley: Acres	20,000	0	1,300	0	0	1,200	*	1/	6,100	0	0	*	9,100	0	*	1,800
Production, tons	57,600															
Corn for Grain: Acres	5,000	0	2,400	0	0	1,400	*	*	400	0	0	0	100	0	*	0
Production, tons	23,800															
Potatoes: Acres	6,000	0	0	0	0	0	0	0	4,700	0	0	0	1,300	0	0	0
Production, cwt.	1,770,000															
Principal vegetables: Acres 2/	84,100	0	1,730	0	0	0	0	3,420	16,960	0	0	720	5,340	0	0	55,930
Production, cwt.	21,331,000															
Grapes: Acres	5,000	0	*	0	0	0	0	0	1,850	0	0	*	1,290	*	*	1,650
Production, tons	25,000															
Grapefruit: Acres	6,200	0	0	0	0	0	0	0	3,700	0	0	0	3/	0	0	2,500
Production, ctns.	4,800,000															
All oranges: Acres	9,900	0	0	0	0	0	0	0	6,110	0	0	0	3/	0	0	3,790
Production, ctns.	3,500,000															
Lemons: Acres	15,400	0	0	0	0	0	0	0	1,400	0	0	0	3/	0	0	14,000
Production, ctns.	8,200,000															
Tangerines: Acres	3,700	0	0	0	0	0	0	0	2,000	0	0	0	3/	0	0	1,700
Production, ctns.	1,200,000															
Other crops: Acres 4/	64,506															
Total acres harvested 5/	949,806															

\* Acres harvested too small to warrant quantitative estimate or not published to avoid disclosure of individual operations.  
 1/ Included with Yuma County to avoid disclosure of individual operations.  
 2/ Principal vegetables include broccoli, cantaloups, carrots, cauliflower, honeydews, lettuce, dry onions and watermelons. Some counties may include acreage for other counties to avoid disclosure of individual operations.  
 3/ Included with Maricopa County to avoid disclosure of individual operations.  
 4/ Includes miscellaneous fruits, nuts, vegetables, and field crops not listed above. Not available by county.  
 5/ Includes double crop acreage.

