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Consumer & Marketing
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Arizona Fruit and Vegetable
Standardization Service
Bureau of Market News

FEDERAL-STATE MARKET NEWS SERVICE

MARKETING CENTRAL ARIZONA GRAPES

BRIEF SUMMARY OF

1965 SEASON

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Local Representative

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Phoenix, Arizona
Sept., 1965

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Information contained in this brief review of the Central Arizona 1965 grape season is compiled mostly from data carried in the daily market reports issued by the Federal-State Market News Service at Phoenix, Ariz. Information is also used from Federal-State Market News reports issued at Indio and Fresno, California; Arizona Fruit and Vegetable Standardization Service; Crop Reporting Board of the U. S. Department of Agriculture; Weather Bureau, U. S. Department of Commerce; Southern Pacific and Santa Fe Railroads and various other sources. Much of the information is preliminary and subject to revision.

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Central Arizona grape growers shipped a record number of lugs of grapes during the 1965 season from the largest bearing acreage in the history of the deal; but because of rains at harvest time which lowered quality and productivity, and low prices the season was a financial disappointment for most growers.

Based on information compiled by the Arizona Fruit & Vegetable Standardization Service bearing acreage at harvest time for 1965 totaled 4,014 acres as compared with 3,752 in 1964; 2,224 in 1963; 1,856 in 1962 and 1,736 in 1961. Movement out-of-state for fresh use in 1965 totaled 1,000,051 lugs, as compared with 788,576 in 1964; 892,094 in 1963; 613,317 in 1962; and 507,370 in 1961. The average per acre of grapes shipped out-of-state for fresh use during 1965 was 249 lugs as compared with 210 in 1964; 401 in 1963; 330 in 1962 and 292 in 1961.

Shipping point prices for Central Arizona grapes during the 1965 season were extremely variable reflecting a wide range in quality. Thompson Seedless prices, f.o.b. shipping point, ranged \$2.50-4.50 per lug. Cardinals ranged \$2.50-4.00. Exotics ranged \$3.00-5.50. Perlettes ranged \$4.00-6.50. There were occasional sales of exceptionally fine quality for all varieties higher. On many days f.o.b. prices covered only a portion of the volume moved, with the balance rolled unsold, consigned, or to auctions.

During the 1965 season auction sales in large eastern terminal markets through August 7 averaged \$2.96 per lug for 126,000 lugs of all varieties. This compared with an average of \$3.00 per lug for 102,000 lugs in 1964; \$4.82 per lug for 99,000 lugs in 1963; and \$4.35 for 99,000 lugs in 1962. Auction sales during 1965 of 126,000 lugs amounted to about thirteen percent of the crop movement out-of-state.

Terminal markets auction prices, through August 7, by varieties averaged as follows for the 1965 season: Thompson Seedless \$2.76; Cardinals \$2.98; Exotics \$3.13; Perlettes \$4.33 and Robins \$5.50.

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Quality was lowered throughout the season by unfavorable weather. Rainy periods occurred around June 23, mid-July and again toward the end of July. The amounts of precipitation were extremely variable between different localities and vineyards, and the resulting damage to grapes was variable ranging from none in some locations to complete abandonment of grapes in others because of rain-inflicted damage. During the early part of the season growers experienced difficulty in getting grapes to attain a desirable high sugar content. Average temperatures at Phoenix Sky Harbor Airport during April were 3.8 degrees below normal, during May 3.2 degrees below normal, and during June 4.6 degrees below normal.

There was general use of gibberellic acid on the Thompson Seedless variety, which increases the size of the berries.

Rail movement from Central Arizona amounted to 602 cars, and trucks hauled the equivalent of 306; this compares with 482 rail and 248 by truck in 1964.

According to a survey by the Arizona Fruit and Vegetable Standardization Service in April, 1965, the acreage of grapes in Central Arizona as of the time of the survey, amounted to 4,345 acres of bearing age and 842 acres of non-bearing age. Because of low prices and quality troubles in 1964 an occasional bearing vineyard was pulled out during the past year. Also, an occasional vineyard of bearing age was given only sufficient care to keep the vines alive. Unless there is a change toward better weather conditions at harvest time, improvement in quality, yields and prices that have occurred the past two seasons the upward trend in plantings of new vineyards may be slowed down or reversed. Acreage, bearing and non-bearing, for Central Arizona by varieties as of April 1965 was as follows; Thompson Seedless 2,821 - 735; Cardinals 888 - 15; Exotic 391 - 17; Perlettes 186 - 22; and Robins 59 - 0.

The 24 lb. lug was the principal container used during the 1965 season, except for the Perlette variety which used many 22 lb. lugs, and for the use of the 26 lb. lug for a few Thompson Seedless late in the season. During the 1964 and 1963 seasons the 27 lb. lug was the principal container.

A total of 2,400 tons of packing house culls and vineyard strippings was crushed during the 1965 season for the production of high proof alcohol. This compared with 1,729 tons crushed in 1964, 3,882 tons in 1963, 3,422 tons in 1962, and 2,073 tons in 1961.

Table No. 1

3

SHIPPING POINT PRICES CENTRAL ARIZONA, COACHELLA VALLEY & KERN COUNTY
GRAPES BY VARIETIES AND DAYS JUNE & JULY 1965 ^{1/}

DATE	CENTRAL ARIZONA			COACHELLA VALLEY			KERN COUNTY		
	Perlettes 24 lb. lugs*	Cardinals Th.Sdls	Exotic	Perlettes 22 lb. lugs	Cardinals Th.Sdls	Exotic	Perlettes 26 lb. lugs	Cardinals Th.Sdls	Exotic
Jun 7				6.50-7.50					
8				6.00-7.00					
9				5.50-7.00					
10				6.00-6.50	6.50				
11				5.00-6.50	6.00-6.50				
14				5.00-6.50	5.50-6.00				
15				5.00-6.50	4.50-5.00				
16				5.00-6.50	4.00-4.50				
17				5.00-6.50	4.00-4.50				
18				5.00-6.50	4.00-4.50				
21				5.50-6.50	3.50-4.00				
22	6.00-6.50	3.50-4.00		5.50-6.50	3.00-3.75	6.00-7.00			
23	6.00	3.00-3.75			3.00-3.50	5.00-7.00			
24	5.00-6.00	2.50-3.50			3.00-3.50	5.00-7.00			
25	4.50-5.50	3.00-3.50			3.00-3.50	5.00-6.50			
28	4.50	3.25			3.00-3.50	4.50-5.50			
29	4.00	3.25-3.50			3.00-3.50	4.00-5.50			
30		3.00-3.25			3.00-3.50	3.50-4.75			
Jul 1		3.00-3.25			3.25-3.50	3.50-4.50			
2		3.00-3.25	4.00-4.50		3.25-3.50	3.50-4.50			
6		2.75-3.25	3.50-4.00	5.50	3.25	3.50-4.50			
7		2.50-3.25	3.50-4.00	5.00-5.50	3.00-3.25	3.50-4.50			
8		2.50-3.25	3.25-4.00	5.00-5.50	3.00-3.25	3.50-4.75			
9		2.50-3.00	3.25-4.00		3.00-3.25	3.50-4.50			
12		3.00	3.75-4.50	3.00-5.00		3.00-4.50			
13		3.00	2.50-4.00	3.00-5.00		3.00-4.00			
14		3.00	2.75-4.00	4.50-5.00		3.00-3.50	4.50	3.75-4.25	
15			2.75-4.00	4.50-5.00		3.00-3.25	4.00-4.50	3.75-4.00	
16			3.00	4.00-5.00		3.00	4.00-4.50	3.75-4.00	
19			3.00-3.50			3.00	4.00-4.25	3.25-4.00	
20			3.00-3.50			3.00	4.00-4.25	3.50-4.00	
21			3.00-3.50				4.00-4.25	3.00-4.25	4.50
22			3.00-3.50					3.00-4.25	4.50
23			3.00-3.50					3.00-4.25	4.00-5.50
26			3.00-3.50					3.00-4.25	3.00-5.00
27			3.00					2.75-4.25	3.00-5.00

*Some Perlettes packed in 22 lb. lugs, few Thompson Seedless in 26 lb. lugs.

^{1/} Prices shown are the highest and lowest reported each day, except on some days a few sales of outstanding quality at higher prices than those shown are not included.

Table No. 2

AUCTION SALES: PACKAGES SOLD, PRICE RANGE AND AVERAGE PRICE, BY MARKET
ARIZONA GRAPES BY VARIETIES AND DAYS 1965 SEASON 1/

DATE	Market	Pkgs	Price Range	Average	DATE	Market	Pkgs	Price Range	Average
THOMPSON SEEDLESS					Thompson Seedless (continued)				
July 8	Detroit	648	All	4.93	August 3	NYC	1055	2.00-2.05	2.02
12	Detroit	960	3.50-4.04	3.94	4	Boston	1080	All	2.35
14	NYC	1160	4.20-4.25	4.22		Detroit	1400	2.10-2.15	2.12
	Phila.	877	2.50-3.55	2.80		NYC	3245	1.60-3.10	2.41
15	NYC	1600	2.50-3.15	2.90		Phila.	364	1.20-1.25	1.23
	Phila.	1239	2.50-3.55	2.67		Pittsbgh.	1140	1.80-1.90	1.89
16	Chicago	1300	3.00-3.80	3.24	5	Boston	1080	3.10-3.15	3.11
	Detroit	1000	All	4.95		Detroit	480	All	2.50
	NYC Unavailable					NYC	1360	2.25-2.30	2.27
19	Boston	1080	2.40-2.45	2.42	6	NYC	1390	2.50-2.55	2.51
	Detroit	945	All	3.15	Total		70125		2.76
	Pittsbgh.	912	4.35-4.40	4.36	CARDINALS				
	NYC	650	All	3.05	June 24	NYC	540	3.25-3.30	3.27
20	Pittsbgh.	68	All	4.15	28	NYC	400	3.85-4.05	3.96
	NYC	20	All	3.50		Chicago	1219	All	3.00
21	Boston	2260	.70-2.55	1.93	July 2	Detroit	320	All	3.78
	Detroit	915	2.00-3.01	2.22	6	Chicago	1160	3.60-4.05	3.83
	Chicago	2280	1.80-3.60	2.59		Phila.	505	3.25-3.30	3.28
	NYC	1370	4.00-4.30	4.25	7	Chicago	1025	2.30-2.35	2.32
	Phila.	1035	2.50-2.70	2.55		Detroit	640	All	3.50
	Pittsbgh	1315	2.50-3.50	3.29		NYC	1065	4.40-4.55	4.45
22	Boston	215	2.60-2.65	2.62		Phila.	505	3.00-3.05	3.03
	Detroit	1080	All	2.60	8	Chicago	1080	3.00-3.75	3.38
	Chicago	1200	4.15-4.55	4.27		NYC	1890	3.50-4.05	3.82
	Pittsbgh.	960	All	2.50		Detroit	415	All	3.00
	Phila.	941	2.05-2.10	2.07	9	NYC	1375	2.90-2.95	2.93
	NYC	640	3.95-4.00	3.98	12	Chicago	1080	3.25-4.10	3.52
23	Chicago	1990	2.25-3.85	3.04		NYC	800	3.25-3.70	3.54
	NYC	1010	3.00-3.05	3.03		Phila.	469	3.25-4.05	3.82
26	Boston	1155	2.40-2.45	2.44	13	NYC	515	3.05-3.45	3.30
	Chicago	1400	1.80-1.85	1.83	14	Chicago	1819	.75-2.45	1.70
	Detroit	930	1.50-3.00	2.66		NYC	860	3.10-3.30	3.16
	NYC	3520	2.10-3.35	2.87		Phila.	172	2.00-2.05	2.04
	Phila.	1406	2.45-3.55	3.35	19	Phila.	580	2.00-2.05	2.04
27	Detroit	120	All	1.50		NYC	970	2.50-2.55	2.52
	NYC	1280	All	3.50	21	NYC	885	2.10-2.15	2.13
28	Boston	740	2.25-2.30	2.27		Phila.	113	2.50-2.55	2.52
	Phila.	1733	1.55-2.80	2.05	28	Phila.	1032	.40-.45	.43
	NYC	2985	1.90-3.60	2.92	Total		21434		2.98
	Chicago	1440	2.30-2.35	2.32	1/Incomplete - based on price information passing over Market News leased wire circuits.				
29	Chicago	1400	2.30-2.35	2.31					
	NYC	2570	1.85-4.40	3.11					
	Phila.	1092	1.90-2.05	1.97					
	Pittsbgh	715	2.75-2.80	2.76					
30	NYC	1370	2.60-2.65	2.63					
August 2	Boston	1080	2.00-2.05	2.03					
	Chicago	1400	All	1.70					
	Detroit	1030	All	3.00					
	Phila.	495	.60-1.30	.95					

Continued next page

Table No. 2 (Continued)

AUCTION SALES: PACKAGES SOLD, PRICE RANGE AND AVERAGE PRICE BY MARKET
ARIZONA GRAPES BY VARIETIES AND DAYS 1965 SEASON 1/

DATE	Market	Pkgs <u>EXOTIC</u>	Price Range	Average	DATE	Market	Pkgs <u>PERLETTES</u>	Price Range	Average
July 8	Detroit	312	All	5.50	June 24	NYC	620	5.85-7.90	6.45
12	Chicago	700	5.50-5.55	5.52	28	NYC	2275	5.60-6.95	5.84
14	Chicago	390	5.30-5.35	5.31	28	Boston Boston	659 460(ord C)	1.00-1.70 .5- .40	1.45 .29
19	Chicago NYC	565 1080	All 3.05-3.10	4.15 3.09	29	NYC	805	4.25-5.30	5.12
21	Chicago NYC	555 860	3.90-3.95 All	3.94 3.60	30	Chicago NYC	1400 1080	5.05-6.70 3.75-3.80	5.55 3.72
22	Chicago Phila. NYC	550 137 1580	3.10-3.15 3.25-3.30 3.25-3.35	3.13 3.25 3.30	July 1	NYC	2560	3.00-4.65	3.47
26	Detroit NYC	1040 1080	2.00-3.63 3.25-3.30	3.00 3.29	2	Detroit NYC	275 1080	All 3.80-3.85	4.50 3.83
27	NYC	2140	2.15-3.55	2.97	Total		11214		4.33
28	NYC	1620	2.60-2.70	2.66	<u>S U M M A R Y</u>				
29	NYC Phila.	130 299	2.45-2.50 All	2.48 2.50	Cardinals		21434		2.98
August 2	Chicago Detroit Phila.	600 200 630	2.00-2.15 All 1.80-1.85	2.12 4.50 1.81	Perlettes		11214		4.33
4	Chicago NYC	570 565	2.05-2.20 2.05-2.10	2.19 2.06	Th. Sdls.		70125		2.76
5	Detroit NYC	153 1015	All 1.15-2.15	3.70 1.76	Exotic		16771		3.13
Total		16771		3.13	Robins		1065		5.50
					Unreported Sales		5848		
					1965		126457	ALL VARIETIES	2.96
					1964		101572	"	3.00
					1963		98790	"	4.82
					1962		98628	"	4.35
					1961			"	4.82
					1960			"	4.83
					<u>ROBINS</u>				
JUNE 21	Chicago	1065	All	5.50					

1Incomplete - based on price information passing over Market News leased wire circuits.

Table No. 3

RAIL AND TRUCK SHIPMENTS GRAPES BY VARIETIES FOR CENTRAL AND WESTERN ARIZONA AND COACHELLA VALLEY DISTRICTS BY DAYS JUNE 3 TO AUGUST 31, 1965

DATE	CENTRAL ARIZONA 1/					WESTERN ARIZONA		COACHELLA VALLEY 2/														
	Robin		Perlette	Cardinal	Thomp. Sdls	Exotic	Thomp. Sdls	Exotic	Perlette		Cardinal	Thomp. Sdls	Black Beauty									
	R	T	R	T	R	T	R	T	R	T	R	T	R	T								
JUNE	l	u	l	u	l	u	l	u	l	u	l	u	l	u								
	c	k	c	k	c	k	c	k	c	k	c	k	c	k								
3	Prior to June 3:								19	29				1								
4									6	18												
5									10	22				3								
6									12	30		1										
7									4	1		-										
8									26	26		2		3								
9									23	31		3		2								
10									41	20		3		3								
11									30	23		6		4								
12									14	38		8		3								
13									22	8		1	6	4								
14									7	3		-		-								
15	3								36	32		3	9	3								
16	5								33	30		7	7	3								
17	3								35	24		6	6	4								
18	2	1		1					23	26		9	8	6								
19	1								13	32		2	12	3								
20	1								16	17		2	10	2								
21	1	1		1					2	1		-	-	-								
22			1						6	17		13	6	1								
23			3	1					9	10		13	7	8								
24			5	4					4	6		6	9	15								
25			6	2					1	4		4	11	16								
26			4	3					-	4		2	13	10								
27		1	1	1					-	2		3	7	18								
28			2	1					1	1		2	11	33								
29			2	1					-	1		3	7	49								
30			3	2		1	1		-	-		3	1	26								
JUL 1			1	1						1		1	7	47								
2			1							2		2	10	31								
3			1					1		2		2	6	26								
4										-		6	6	31								
5										2		6	31	25								
6										1		4	34	32								
7			1				3			2		7	53	49								
8										1		3	3	45								
9										2		2	5	41								
10			1							2		8	24	43								
11										-		5	40	28								
12										-		5	8	6								
13										1		2	37	44								
14			2							-		1	52	26								
15													36	31								
16													37	21								
17													16	39								
18													25	28								
19													7	6								
20													12	24								
21													11	14								
22																						
23																						
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29																						
30																						
31																						
AUG 1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
31																						
TOTAL	16	3	32	21	89	63	426	212	38	9	-	5	-	1	393	456	92	216	771	806	1	54

Last Report Movement Unavailable After July 20

1/Source: Arizona Fruit & Vegetable Standardization Service. 2/Other var. from Coach. Vly thru 7/20: Delight 1 Rail and 4 trk, Ribiers 5 Truck.

Table No. 4

7

RAIL SHIPMENTS OF GRAPES BY DISTRICTS AND DAYS JUNE 1 - AUGUST 4, 1965

DATE	Central Arizona	Southern California	Imperial Valley	Central California	TOTAL UNITED STATES	West Mexico	Chile (23 Boat)
JUNE 1	-	3	-	1	4	-	(23 Boat)
2	-	12	-	-	12	-	
3	-	6	-	1	7	-	
4	-	10	-	1	11	-	
5	-	12	-	-	12	-	
6	-	4	-	4	8	-	
7	-	26	-	-	26	-	
8	-	23	-	1	24	-	
9	-	42	-	-	42	-	
10	-	30	1	-	31	-	
11	-	15	1	-	16	-	
12	-	23	-	-	23	-	
13	-	7	3	-	10	-	
14	3	39	1	-	43	-	
15	5	41	2	-	48	-	
16	3	40	2	-	45	-	
17	2	31	4	-	37	-	
18	1	15	1	-	17	-	
19	1	18	-	-	19	1	
20	-	2	4	-	6	-	
21	2	20	-	1	23	-	
22	6	30	2	-	38	-	
23	6	25	-	-	31	1	
24	11	20	2	-	33	1	
25	6	12	-	-	18	-	
26	4	21	2	-	27	1	
27	1	1	-	-	2	-	
28	7	36	1	1	45	2	
29	11	52	1	-	64	-	
30	11	48	1	-	60	1	
JULY 1	12	33	1	-	46	-	
2	17	28	-	-	45	-	
3	6	32	-	-	38	-	
4	1	5	-	-	6	-	
5	7	35	2	2	46	-	
6	16	55	-	3	74	-	
7	26	48	-	4	78	-	
8	15	43	-	6	64	-	
9	13	25	-	1	39	-	
10	7	40	-	1	48	-	
11	18	8	1	2	29	-	
12	26	38	-	6	70	-	
13	36	52	1	16	105	-	
14	35	36	-	12	83	-	
15	35	37	-	6	78	-	
16	41	16	-	8	65	-	
17	24	7	-	8	39	-	
18	16	19	-	7	42	-	
19	17	12	-	14	43	-	
20	29	10	-	22	61	-	
21	28	9	-	28	65	-	
22	21	6	-	42	69	-	
23	26	2	-	29	57	-	
24	15	-	-	45	60	-	
25	2	-	-	7	9	-	
26	9	-	-	62	71	-	
27	9	-	-	107	116	-	
28	4	-	-	100	104	-	
29	5	-	-	87	92	-	
30	1	-	-	63	64	-	
31	-	-	-	68	68	-	
AUG. 1	3	-	-	29	31	-	
2	1	-	-	80	81	-	
3	1	-	-	131	132	-	

Table No. 5
ARIZONA GRAPE ACREAGE - 1965 1/

	Producing	1 and 2 year old plantings Non-Producing
<u>PINAL COUNTY</u>		
Thompsons	59	81
Cardinals	6	15
<u>MARICOPA COUNTY</u>		
Thompsons	2762	654
Cardinals	882	-
Perlettes	186	22
Exotics	391	70
Robins	59	-
<u>YUMA COUNTY</u>		
Thompsons	109	40
Cardinals	101	10
Perlettes	3	30
Exotics	17	-
<u>TOTAL ARIZONA:</u>		
Thompsons	2930	775
Cardinals	989	25
Perlettes	189	52
Exotics	408	70
Robins	59	-
	<u>4575</u>	<u>922</u>

1/Source: Arizona Fruit & Vegetable Standardization Service, April 16, 1965

Table No. 6
CENTRAL ARIZONA BEARING GRAPE ACREAGE AT HARVEST TIME
LUGS SHIPPED INTERSTATE, AVERAGE LUGS PER
ACRE SHIPPED INTERSTATE AND TONS
GRAPES CRUSHED FOR HIGH
PROOF ALCOHOL
1961-1965 SEASONS

SEASON	ACRES	LUGS SHIPPED INTERSTATE	LUGS PER ACRE SHIPPED INTERSTATE	TONS (Packing house culls and vineyard strippings) CRUSHED FOR ALCOHOL
<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>1/</u>	<u>2/</u>
1961	1736	507,370	292	2,073
1962	1856	613,317	330	3,422
1963	2224	892,094	401	3,882
1964	3752	788,576	210	1,729
1965	4014	1,000,051	249	2,400

1/Source: Arizona Fruit & Vegetable Standardization Service

2/Source: Crushing Plant.

Table No. 7

GRAPES: PRODUCTION BY STATES 1965 WITH COMPARISONS 1964, 1963, AND AVE. 1959-63

Source: August 1 Crop Summary released August 10th, 1965, Crop Reporting Board, SRS, U. S. D. A.

STATE	PRODUCTION ^{1/}			
	Average 1959-63 Tons	1963 Tons	1964 Tons	Indicated 1965 Tons
New York	110,200	107,000	120,000	135,000
New Jersey	872	860	900	900
Pennsylvania	34,000	34,000	38,200	45,000
Ohio	14,360	9,500	16,000	17,000
Michigan	51,200	33,500	70,000	72,000
Iowa	600	350	450	430
Missouri	3,700	2,400	4,100	4,200
North Carolina	950	1,000	1,500	1,700
South Carolina	3,300	5,200	6,100	7,300
Georgia	1,110	1,200	1,000	1,100
Arkansas	6,620	5,300	6,600	6,500
Arizona	11,220	16,500	12,600	16,000
Washington	54,940	76,600	56,400	40,000
California, all	2,957,400	3,500,000	3,155,000	3,430,000
Wine varieties	566,400	624,000	608,000	670,000
Table varieties	547,400	622,000	517,000	560,000
Raisin varieties	1,843,600	2,254,000	2,030,000	2,200,000
Raisins ^{2/}	220,400	266,000	232,375	---
Not dried	943,800	1,124,000	986,000	---
United States	^{3/} 3,251,536	3,793,410	3,468,850	3,777,130

^{1/}Includes quantities unharvested on account of economic conditions and excess cullage of harvested fruit.

^{2/}Dried basis: 1 ton of raisins is equivalent to 4.49 tons of fresh grapes for 1964; 4.25 tons for 1963; and 4.08 for the 1959-63 average.

^{3/}The 1959-63 average includes production for States no longer estimated.

Table No. 8

	AVERAGE MONTHLY TEMPERATURES AT SKY HARBOR AIRPORT PHOENIX, ARIZONA FEBRUARY TO JULY			
	1965	1962 - 1965 ^{1/}	1963	1962
February	52.4	49.3	60.2	55.7
March	56.1	56.5	61.0	56.0
April	63.4	65.2	65.8	72.3
May	71.8	73.7	80.0	73.5
June	79.0	82.6	81.7	83.1
July	91.0	90.6	92.0	90.2

^{1/}Source: U. S. Dept. of Commerce, Weather Bureau, Phoenix Sky Harbor Airport.

Table No. 9

DAILY MAXIMUM & MINIMUM TEMPERATURES AND PRECIPITATION
 JUNE AND JULY 1965 CENTRAL ARIZONA GRAPE GROWING AREAS
 (By U. S. Dept. of Commerce, Weather Bureau, Phoenix Sky Harbor Airport)

DATE June	CASA GRANDE			CHANDLER			DEER VALLEY			HARQUAHALA PLAIN			LITCHFIELD PARK			PHOENIX AIRPORT		
	Max.	Min.	Prec.	Max.	Min.	Prec.	Max.	Min.	Prec.	Max.	Min.	Prec.	Max.	Min.	Prec.	Max.	Min.	Prec.
1	88	60		95	60		94	57					91	54		90	55	
2	90	65		90	60		88	58					91	60		85	59	
3	83	58		83	54		82	56		Temper-			90	54		90	51	
4	82	57		90	58		88	55		atures			92	54		92	57	
5	95	60		96	61		90	61					98	60		99	58	
6	99	62		96	63		97	66		Unavail-			101	62		102	62	
7	99	63		100	68		101	67		able			102	63		103	61	
8	101	65	.01	100	67		100	65					97	62		97	65	T
9	82	57		96	59		90	60					85	55		88	59	
10	89	56		88	53		92	57					91	55		92	55	
11	97	66		91	63		98	69					97	69		100	69	T
12	101	66		99	66		101	67					100	69		104	65	
13	100	65		102	67		102	67					103	67		105	64	
14	101	67		104	65		100	62					100	60		102	62	
15	99	65		101	70		94	62					96	64		96	58	
16	97	64		97	67		88	62					89	61		91	67	
17	92	58		91	55		91	53					93	51		93	54	
18	97	62		92	59		96	60					97	57		98	57	
19	98	60		96	60		97	60					98	61		99	61	
20	100	62		97	63		99	62					101	60		102	61	
21	101	65		99	64		100	62					104	59		101	60	.07
22	102	64		100	63		102	60					103	59		103	56	
23	103	70	.32	100	68		97	66	.64				102	70	.30	97	68	.84
24	96	64		97	66	.17	95	63					98	64		95	64	
25	97	57		96	67		95	59					97	62		97	60	
26	101	63		96	66		99	62					94	65		89	64	
27	94	56		90	54		95	58					95	55		95	55	
28	100	59		95	58		101	60					102	57		102	59	
29	104	61		101	63		105	61					107	58		107	63	
30	103	69		105	75		104	70					107	69		106	68	
Average	96.4	62.2	.33	96.1	62.7	.17	95.7	61.6	.64			.00	97.4	60.5	.30	97.3	60.6	.91
July																		
1	106	70		104	72		107	73					108	74		108	72	
2	108	71		107	72		110	70		Temper-			111	71		110	70	
3	110	75		108	72		112	76		atures			112	75		112	73	
4	111	79		110	76		112	75					115	75		113	74	
5	110	81		111	78		109	74		Unavail-			112	77		110	75	
6	107	82		109	81		112	82		able			111	79		112	84	
7	104	82		108	81		109	83					111	78		110	82	
8	106	80		110	78		107	75					109	78		109	78	
9	105	80		106	79		104	78					106	78		106	80	
10	103	78		102	80		104	77	T				105	79		105	81	T
11	103	71		104	77		100	79					103	79		101	80	
12	105	78		99	76		104	75					106	73		106	77	
13	104	74		104	77		105	75					106	72		106	75	
14	103	80		103	79		104	74					105	80		105	80	
15	102	73	.07	102	78		104	78					105	78	T	104	77	.02
16	98	78	.03	93	79	.08	105	80				T	106	79	T	106	75	.07
17	92	72	.30	103	73		98	74				T	106	74	.16	95	75	T
18	96	76		90	74		96	73	.03			.19	95	71	.30	97	75	.03
19	101	77		97	74		104	76					104	75		105	76	
20	103	75		100	70		106	71					106	72		107	71	
21	102	81		105	81		105	78					106	77		105	80	
22	101	78		102	80		100	80					103	78		98	80	T
23	98	74		98	75		103	77					103	75		102	77	T
24	97	76		102	74		100	76					103	76		98	77	
25	101	72		98	75		105	74					106	75		105	74	
26	101	77		103	80		104	77					106	74		103	77	
27	104	78		101	78		108	74					108	78		106	80	
28	103	81	.25	105	85	.10	105	85					108	80		104	78	T
29	98	72		103	72	.05	102	73	.26			.45	104	74	.62	102	72	.04
30	105	75		99	74		107	76					105	78		105	75	
31	108	80		103	78		110	78					110	77		109	78	
Average	103.1	76.6	.65	102.9	76.7	.23	105.2	76.3	.29			.64	106.6	76.1	1.08	105.3	76.7	1.16