

- CARNATIONS
- CHRYSANTHEMUMS
- GLADIOLUS
- ROSES

## UNITED STATES DEPARTMENT OF AGRICULTURE

Statistical Reporting Service Crop Reporting Board Washington, D. C. June 1965

SpCr 6-1 (65)

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This report summarizes the findings of the recent eleven-State survey conducted in Massachusetts, New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, North Carolina, Florida, Colorado, and California. The data represent those establishments with sales of \$2,000 or more of all Horticultural Specialities crops. The data for 1964 are comparable with the 1959, 1961, 1962, and 1963 data for New York, Illinois, Florida, Colorado, and California. Five States: Massachusetts, New Jersey, Pennsylvania, Indiana, and North Carolina are included in the report for the first time. Ohio has been reinstated after being dropped at the end of the 1959 season, and Towa has been dropped beginning with this report.

#### **DEFINITIONS**

The estimates in this report relate to sales by commercial producers. A commercial producer is defined as one who produces and sells \$2,000 or more of cut flowers, mursery products, bulbs, seeds, and bedding, vegetable, flowering, and foliage plants in one year. Only commercial producers growing one or more of the four cut flowers--carnations, chrysanthemums, gladoli, and roses--are included in this report. All value figures are on a "gross wholesale" basis and deductions have not been made for selling commissions and transportation costs. Total sales in each State are converted to their equivalent wholesale value using the reported average wholesale prices. The published average price and percent change for production are derived from unrounded totals. Consequently, sales times average price does not necessarily equal the published wholesale value.

#### CUT FLOWERS

# Production and Sales, 1963 and 1964 and Intentions for 1965 in Selected States

Sales of carnations, chrysanthemums, gladioli and roses grown in 1964 in 11 major producing States had an equivalent wholesale value of nearly \$100 million according to the Crop Reporting Board of the United States Department of Agriculture. This compares with \$86.9 million in 1959, the latest date for which comparable data are available for all 11 States.

The wholesale value of 1964 sales for each type of flower together with the 1959 Census comparisons as shown in parenthesis for those 11 States is as follows: Chrysanthemums \$31.7 million (\$26.5 million); carnations \$28.2 million (\$24.9 million); roses \$25.2 million (\$22.1 million); and gladioli \$14.5 million (\$13.4 million). Of the \$31.7 million value for chrysanthemums, \$15.9 million was for pompons and \$15.8 million for standards compared with \$14.5 million and \$12.0 million respectively in 1959. The five States in the survey for both 1963 and 1964 (New York, Illinois, Florida, Colorado, and California) had sales with a wholesale value of \$64.7 million, down approximately 1 percent from 1963. The value of roses in these five States was up 6 percent and carnations up 1 percent but pompon chrysanthemums were down 8 percent, gladioli down 4 percent, and standard chrysanthemums down 3 percent. Additional States included in the survey for 1964 but not in the survey for 1963 are: Massachusetts, New Jersey, Pennsylvania, Ohio, Indiana, and North Carolina.

California continues to be the leading producer of carnations, standard chrysanthemums and roses while Florida is the leading producer of pompon chrysanthemums and gladioli. Based on the wholesale value of the four cut flowers in this survey, California ranks first with \$25.6 million followed by Florida with \$17.2 million and Pennsylvania with \$11.0 million. Other States in the order of their importance are: Colorado, \$8.0 million; New York, \$7.6 million; Ohio, \$6.5 million; Illinois, \$6.3 million; Massachusetts, \$5.4 million; Indiana, \$5.1 million; New Jersey, \$3.9 million; and North Carolina, \$3.3 million. Of the five States for which there are comparable data for 1963 and 1964, Illinois and Florida showed a decline in the total wholesale value of cut flowers sold while California, Colorado, and New York showed an increase.

#### CARNATIONS

Growers intend to increase by 3 percent the number of plants in production in 1965. Of the 11 States in the survey, Massachusetts, New York, Illinois, and Indiana expect to reduce the number of plants but 5 of the other 7 States expect to have more plants in production. Pennsylvania plans no appreciable change. In both California and Colorado this continues an upward trend which has been evident since 1956, the first year for which survey data are available. In Illinois and New York, the only other States for which data are available over a comparable period of time, the trend in the number of plants in production has been downward and is expected to continue downward for 1965.

In 1964 growers in the 11 States sold 433.3 million blooms from 43.1 million plants. California was the leading producer and accounted for 188.8 million blooms or 44 percent of the 11-State total. Colorado ranked second with 99.1 million blooms, or 23 percent of the total. These two States accounted for two-thirds of the total blooms sold in the States covered by this survey. Pennsylvania with 35.4 million

blooms and Massachusetts with 34.9 million ranked third and fourth respectively with each accounting for about 8 percent of the total. The 1964 sales in all 11 States were valued at \$28.2 million, with an average price of 6.5 cents per bloom. In these States 95 percent of the sales were wholesale.

The four States (New York, Illinois, Colorado, and California) reporting carnations in both 1963 and 1964 showed a 1-percent increase in the value of sales over 1963 because growers in California and Colorado produced and sold more blooms. In each of those four States the average price received for carnations was less than in 1963.

#### STANDARD CHRYSANTHEMUMS

A 5-percent increase in the number of standard chrysanthemum plants in production is intended for 1965. Of the 11 States in this survey, Pennsylvania and Illinois indicate a decrease—the others show an increase. The greatest increase is in California where the number of plants is expected to go up 2.6 million. Percentagewise the increase planned for North Carolina is greater although it will amount to an increase of only 390,000 plants. In 1964 growers in the 11 States sold 97.0 million blooms from 75.6 million plants. California ranked first with 46.4 million blooms, or 48 percent of the total, followed by Ohio with 12.1 million blooms (12 percent); Pennsylvania, 7.6 million blooms (8 percent); and Florida, 6.6 million blooms (7 percent). These four States accounted for three-fourths of the blooms sold in the 11 State survey. The 1964 sales in the 11 States were valued at \$15.8 million with an average price of 16.3 cents per bloom. In these States 89 percent of the sales were wholesale.

The value of sales for the five States included in the survey for both 1963 and 1964 showed a 3-percent decrease from 1963 although prices averaged higher. All of the decrease occurred in California where the number of blooms sold was down 12 percent. In New York, Florida, and Colorado both the number of blooms sold and the value of sales showed an increase. In Illinois there was a slight decline in the number of blooms sold, but this was more than offset by a higher price per bloom which raised the total value of sales above the preceding year.

#### POMPON CHRYSANTHEMUMS

Growers intend a 2-percent increase in the number of pompon plants in production in 1965, with decreases in New York, New Jersey, Florida, and Illinois more than offset by increases in 6 of the other 7 States in this survey. In Colorado no significant change is indicated. Most of the increase will occur in California where plants are expected to be up 2.3 million or 18 percent.

Sales for the 11 States during 1964 totaled 22.1 million bunches from 89.0 million plants. Florida was the leading producer with 9.4 million bunches, 43 percent of the total. California ranked second with 4.8 million bunches (22 percent); Pennsylvania third with 2.0 million bunches (9 percent); and Ohio fourth with 1.1 million bunches (5 percent). These four States accounted for approximately 80 percent of the sales. Total sales in 1964 for the 11 States were valued at \$15.9 million, with an average price of 72 cents per bunch. In these States 89 percent of the sales were wholesale.

The five States included in the survey for both 1963 and 1964 showed an 8-percent decline from 1963 in the value of sales. All of the decline occurred in Florida as the result of fewer bunches sold coupled with a lower average price. New York, Illinois, and Colorado also sold fewer flowers but the increase in price was more than off-setting. California was the only one of the five States to show an increase in the number of blooms sold (up 14 percent). This more than offset a price decline of 4 cents per bunch.

#### GLADIOLI

Growers of gladioli intend to reduce acreage 1 percent for 1965. Most of the 11 States expect relatively small changes in acreage although in North Carolina intentions are up 100 acres, in New York down 95 acres, and in California down 46 acres.

In 1964 growers sold 25.2 million dozen spikes from 11,917 acres. Florida ranked first with 16.2 million dozen spikes, 64 percent of the 11-State total, and California was second with 2.8 million dozen (11 percent). North Carolina was third with 2.2 million dozen (9 percent), and New Jersey was fourth with 1.6 million dozen (6 percent). The 1964 sales in the 11 States totaled \$14.5 million, with an average price of 58 cents per dozen. In these States 96 percent of the sales were wholesale.

The five States included in the survey for both 1963 and 1964 showed a 4-percent decline from 1963 in the value of sales. Only New York showed an increase, because of substantially higher prices. Illinois showed a small increase in price but that was more than offset by a decline in the number of spikes sold. In Florida, California, and Colorado prices average less than in 1963. Both Florida and California showed a slight increase in the number of spikes sold.

#### ROSES

Rose growers plan a one percent increase in the number of plants in production in 1965. Although decreases are indicated for New York, Illinois, and New Jersey, they are more than offset by increases in the other States in this survey. In 1964 growers sold 274 million blooms from 11.4 million plants, with California accounting for 86.6 million blooms or 32 percent of the 11-State total. The second most important State was Pennsylvania with 46.0 million blooms sold (17 percent of the total). Illinois ranked third with 33.3 million blooms (12 percent of the total); and New York was fourth with 30.5 million blooms (11 percent). The 1964 sales in the 11 States were valued at \$25.2 million wholesale, with an average price of 9.2 cents per bloom. In these States 98 percent of the sales were wholesale.

The five States included in the survey for both 1963 and 1964 showed a 6-percent increase over 1963 in the value of sales. This resulted primarily from an increase in price per bloom since the number of blooms sold was up less than one percent. In Illinois and Florida where fewer blooms were sold, the value of the crop was down. Although New York sold fewer blooms, the value of the crop was up because of a higher average price. California and Colorado showed an increase over 1963 in both the number of blooms sold and in the value of sales.

Table 1.--Carnations, Chrysanthemums, Gladioli and Roses: Gross wholesale value of sales, 1963 and 1964 in selected States

	Gross wholesale value of sales 1/									
	Carm	ations		Chrysanthemums						
State	Valida		Stand	ard	Pom	pon				
	1963	1964	1963	1964	1963	1964				
	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars				
New York: Upstate Long Island Illinois Florida Colorado California 4/	496 1,078 1,015 <u>2/</u> 7,187 9,156	471 899 894 <u>2</u> / 7,357 9,428	795 480 1,002 837 78 5,975	848 5 <sup>1</sup> 43 1,012 940 84 5,480	793 404 833 7,656 162 2,200	765 535 879 6,426 167 2,311				
5 States	<u>2</u> /18,932	<u>2</u> / 19,049	9,167	8,907	12,048	11,083				
Massachusetts 3/ New Jersey 3/ Pennsylvania 3/ Ohio 3/ Indiana 3/ North Carolina 3/	  	2,641 800 2,843 1,457 645 735		650 535 1,635 2,597 854 667		615 499 1,755 1,057 382 532				
11 States 3/		<u>2</u> / 28,170	~~*	15,845		15,923				

ĺ		Gros	s wholesale y	alue of sale		
State	Gladi	loli	Ros	es		tal flowers)
	1963	1964	1963	1964	1963	1964
	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars
lew York:						
Upstate	3 <b>69</b>	372	1,651	1,782	4.104	4,238
Long Island	ıż	15	1,326	1,383	3,300	3,375
Illinois	479	458	3,074	3,041	6,403	6,284
lorida	9,793	9,431	682	408	18.968	17,205
olorado	14	10	255	367	7,696	7,985
alifornia 4/	1,803	1,747	5,875	6,627	25,009	25,593
5 States	12,470	12,033	12,863	13,608	65,480	64,680
assachusetts 3/		53		1,396		5,355
ew Jersey 3/		907		1,124		3,865
ennsylvania 3/		97		4,661		10,991
hio 3/		175		1,168		6,454
ndiana 3/		64		3,110		5,055
orth Carolina 3/		1,219		174		3,327
11 States 3/		14,548		25,241		99,727
i						

<sup>1/</sup> Equivalent wholesale value of all sales. 2/ Florida not published to avoid disclosure of individual operations. 3/ Not available for 1963. 4/ California data for 1963 revised.

Table 2.--Carnations: Number of producers, plants in production, sales, price, wholesale value, 1963 and 1964, and indicated plants in production, 1965, in selected States

j	Produ	ıcers		Plants in	production	
State	1963	1964	1963	1964	Intended 1965	1965 as percent of 1964
	Mmber	Number	1,000 plants	1,000 plants	1,000 plants	Percent
New York:						
Upstate	190	173	821	83 <del>9</del>	857	102
Long Island	81	77	2,261	2,005	1,744	87
Illinois	157	159	1,711	1,561	1,424	91
Florida <u>1</u> /						~
Colorado	142	147	8,187	8,584	9,194	107
California 4/	511	205	15,836	15,689	16,510	105
5 States 1/	781	761	28,816	28,678	29,729	104
Massachusetts 3/		160		4,854	4,789	99
New Jersey 3/		142		1,425	1,442	101
Pennsylvania 3/		333		4,396	4,395	100
Onio 3/		268		2,026	2,102	104
Indiana 3/		102		758	692	91
North Carolina 3/		37		949	1,037	109
11 States <u>1/3</u> /		1,803		43,086	44,186	103

State	Blooms sold		sale	Percent of sales at wholesale		esale ce	Value of sales at wholesale 2/	
	1963	1964	1963	1964	1963	1964	1963	1964
	1,000 blooms	1,000 blooms	Percent	Percent	Cents	Cents	1,000 dollars	1,000 dollars
New York:  Upstate Long Island Illinois Florida 1/ Colorado California 4/	6,356 15,146 15,141  95,349 180,142	14,356 13,676	66 86 86  97 99	63 88 86  99	7.8 7.1 6.7  7.5 5.1	7.6 6.3 6.5  7.4 5.0	496 1,078 1,015  7,187 9,156	471 899 894  7,357 9,428
5 States <u>1</u> /	312,134	322,222	96	98	6.2	5.9	18,932	19,049
Massachusetts 3/ New Jersey 3/ Pennsylvania 3/ Ohio 3/ Indiana 3/ North Carolina 3/		34,860 10,145 35,450 16,148 6,621 7,902		90 76 85 80 76 92		7.6 7.9 8.0 9.0 9.7 9.3		2,641 800 2,843 1,457 645 735
11 States <u>1/3</u> /		433,348		95		6.5	~	28,170

<sup>1/</sup> Florida not published to avoid disclosure of individual operation. 2/ Equivalent wholesale value for all sales. 3/ Not available for 1963. 4/ California data for 1963 revised.

Table 3.--Standard Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1963 and 1964, and indicated plants in production, 1965, in selected States

	Produc	ers		Plants in	production	
State	1963	1964	1963	1964	Intended 1965	1965 as percent of 1964
	Number	Number	1,000 plants	1,000 plants	1,000 plants	Percent
New York: Upstate Long Island Illinois Florida Colorado California 3/	301 100 229 23 22 189	295 96 230 23 20 166	2,918 1,243 4,344 4,644 219 36,038	2,815 1,294 4,530 7,383 256 32,538	2,839 1,640 4,410 7,511 267 35,136	101 127 97 102 104 108
	864	830	49,406	48,816	51,803	106
Massachusetts 2/  New Jersey 2/  Pennsylvania 2/  Ohio 2/  Indiana 2/  North Carolina 2/		191 205 433 382 176 65		2,814 1,815 5,976 10,712 2,944 2,545	2,919 1,828 5,502 11,348 3,144 2,935	104 101 92 106 107 115
11 States <u>2</u> /	<b></b>	2,282	س ــ سه	75,622	79,479	105

State	Blooms	s sold	Percen sales whole	at	Whole pri		Value of sales at wholesale 1/	
	1963	1964	1963	1964	1963	1964	1963	1964
	1,000 blooms	1,000 blooms	Percent	Percent	Cents	Cents	1,000 dollars	1,000 dollars
New York:  Upstate Long Island Illinois Florida Colorado California 3/  5 States  Massachusetts 2/ New Jersey 2/		3,686 2,411 4,614 6,649 345 46,395 64,100 3,205 2,897	74 89 79 96 63 99 95	76 89 77 85 72 98 93 87	22.9 21.9 21.7 16.4 23.4 11.3	23.0 22.5 21.9 14.1 24.4 11.8 13.9 20.3 18.5	795 480 1,002 837 78 5,975 9,167	848 543 1,012 940 84 5,480 8,907 650 535
Pennsylvania 2/ Ohio 2/ Indiana 2/ North Carolina 2/	  	7,614 12, <b>1</b> 14 3,266 3,780		71 87 7 <sup>4</sup> 86		21.5 21.4 26.2 17.7		1,635 2,597 854 667
11 States 2/		96,976		89		16.3		15,845

<sup>1/</sup> Equivalent wholesale value for all sales. 2/ Not available for 1963. 3/ California data for 1963 revised.

Table 4.--Pompon Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1963 and 1964, and indicated plants in production, 1965, in selected States

	Produ	icers		Plants in	production	
State	1963	1964	1963	1964	Intended 1965	1965 as percent of 1964
			1,000	1,000	1,000	_
	Number	Number	plants	<u>plants</u>	plants	Percent
New York:						
Upstate	319	303	2,784	2,874	2,810	<del>9</del> 8
Long Island	ī15	108	1,730	1,742	1,688	97
Illinois	235	234	4,303	4,031	3,980	99
Florida	46	43	46,040	48,750	47,638	98
Colorado	26	27	550	621	619	100
California 2/	186	176	13,482	12,719	14,993	118
5 States	927	891	68,889	70,737	71,728	101
Massachusetts 3/		236		2,160	2,239	104
New Jersey 3/		197		1,955	1,933	99
Pennsylvania 3/		426		5,647	5,745	102
Ohio 3/		363		4,225	4,932	117
Indiana 3/		170		1,271	1,357	107
North Carolina 3/	、	57		3,013	3,161	105
11 States 3/		2,340		89,008	91,095	102

State	Bunches sold		sales	cent of les at olesale		Wholesale price		ue of es at sale <u>l</u> /
	1963	1964	1963	1964	1963	1964	1963	1964
	1,000 bunches	1,000 bunches	Percent	Percent	Dollars	Dollars	1,000 dollars	1,000 dollars
New York:  Upstate Long Island Illinois Florida Colorado California 2/  5 States  Massachusetts 3/ New Jersey 3/ Pennsylvania 3/		782 648 891 9,425 127 4,789 16,662 586 565 2,027	64 84 74 97 82 98 94	63 83 72 95 82 99 93 66 75 78	0.91 .67 .91 .74 1.21 .52 .70	0.98 .83 .99 .68 1.32 .48 .67	793 404 833 7,656 162 2,200 12,048	765 535 679 6,426 167 2,311 11,083 615 499 1,755
Ohio 3/	 	1,143 363 738	 	81 71 96		.92 1.05 .72		1,057. 382 532
11 States 3/	<b>-</b>	22,084		89		.72		15,923

<sup>1/</sup> Equivalent wholesale value for all sales. 2/ California data for 1963 revised. 3/ Not available for 1963.

Table 5.--Gladioli: Number of producers, acres in production, sales, price, wholesale value, 1963 and 1964, and indicated acres in production, 1965, in selected States

	Produ	ıcers		Acres in	production	
State	1963	1964	1963	1964	Intended 1965	1965 as percent of 1964
	Number	Number	Acres	Acres	Acres	Percent
New York: Upstate Long Island Illinois Florida Colorado California 2/ 5 States	83 24 65 29 10 50	65 18 61 27 8 37	579 20 1,089 7,770 19 796	540 10 1,036 7,535 12 73 <sup>4</sup> 9,867	445 10 1,025 7,510 16 688	82 100 99 100 128 94
Massachusetts 3/ New Jersey 3/ Pennsylvania 3/ Ohio 3/ Indiana 3/ North Carolina 3/		35 52 80 44 25 35		54 630 119 165 144 938	55 622 12 <sup>1</sup> 4 173 127 1,038	102 99 105 105 88 111

State	Dozen s		sales	Percent of sales at wholesale		Wholesale price		e of s at ale 1/
	1963	1964	1963	1964	1963	1964	1963	1964
	1,000 dozen	1,000 dozen	Percent	Percent	Dollars	Dollars	1,000 dollars	1,000 dollars
New York: Upstate Long Island Illinois	932 33 1,189	629 32 1,094	95 49	86 62 98	0.40 •35 .40	0.59 .46 .42	369 12 479	372 15 458
Florida Colorado California 2/	16,004 17 2,823	16,157 14 2,831	99 95 88 100	95 88 99	.61 .32 .64	.58 .71 .62	9,793 14 1,803	9,431 10 1,747
5 States	20,998	20,757	96	95	.59	.58	12,470	12,033
Massachusetts 3/  New Jersey 3/  Pennsylvania 3/  Ohio 3/  Indiana 3/  North Carolina 3/		63 1,621 132 269 115 2,232		84 99 82 93 90 91		0.85 .56 .74 .65 .56		53 907 97 175 64 1,219
11 States <u>3</u> /		25,189		96		.58		14,548

1/ Equivalent wholesale value for all sales. 2/ California data for 1963 revised. 3/Not available for 1963.

Table 6.--Roses: Number of producers, plants in production, sales, price, wholesale value, 1963 and 1964, and indicated plants in production, 1965, in selected States

	Produ	icers		Plants in	production	
State	1963	1964	1963	1964	Intended 1965	1965 as percent of 1964
	Number	Number	1,000 plants	1,000 plants	1,000 plants	Percent
New York:						
Upstate	23	20	789	799	<b>7</b> 97	100
Long Island	12	12	<i>6</i> 86	701	696	99
Illinois	29	26	1,538	1,378	1,364	99
Florida	16	13	450	248	260	105
Colorado	13	13	124	140	140	100
California 2/	45	43	3,452	3,586	3,656	102
5 States	138	127	7,039	6,852	6,913	101
Massachusetts 3/		14		462	486	105
New Jersey 3/		15		506	475	9į́4
Pennsylvania 3/		39		1,745	1,770	101
Ohio 3/		24		490	1490	100
Indiana 3/		28		1,267	1,270	100
North Carolina 3/		10		58	60	103
11 States 3/		257		11,380	11,464	101

State	Blooms sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale 1	
	1963	1964	1963	1964	1963	1964	1963	1964
	1,000 blooms	1,000 blooms	Percent	Percent	Cents	Cents	1,000 dollars	1,000 dollars
New York: Upstate Long Island Illinois Florida Colorado California 2/	16,576 14,533 34,321 12,361 2,180 80,825	17,292 13,221 33,262 7,867 3,582 86,603	99 99 97 95 91 99	99 99 98 95 95 99	10.0 9.1 9.0 5.5 11.7 7.3	10.3 10.5 9.1 5.2 10.2 7.7	1,651 1,326 3,074 682 255 5,875	1,782 1,383 3,041 408 367 6,627
Massachusetts 3/ New Jersey 3/ Pennsylvania 3/ Ohio 3/ Indiana 3/ North Carolina 3/		13,961 13,101 45,993 10,733 26,970 1,508		99 96 98 94 97 73		10.0 8.6 10.1 10.9 11.5		1,396 1,124 4,661 1,168 3,110
11 States <u>3</u> /		274,093		98		9.2		25,241

<sup>1/</sup> Equivalent wholesale value for all sales. 2/ California data for 1963 revised. 3/ Not available for 1963.

### UNITED STATES DEPARTMENT OF AGRICULTURE STATISTICAL REPORTING SERVICE WASHINGTON, D. C. 20250

POSTAGE AND FEES PAID U.S. DEPARTMENT OF AGRICULTURE

OFFICIAL BUSINESS