



FLOWERS AND FOLIAGE PLANTS

**PRODUCTION AND SALES,
1967 AND 1968
INTENTIONS FOR 1969 IN
SELECTED STATES**

- CARNATIONS
- CHRYSANTHEMUMS
- GLADIOLI
- ROSES
- FOLIAGE PLANTS

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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, nursery products, bulbs, seeds, and bedding, vegetable, flowering, and foliage plants in one year. Only commercial producers growing any of the four cut flowers -- carnations, chrysanthemums, gladioli, or roses -- potted chrysanthemums or foliage plants are included in this report. All value figures, except for foliage plants, are on a "gross wholesale" basis and deductions have not been made for selling commissions and transportation costs. Total sales, except for foliage plants, in each State are converted to their equivalent wholesale value using the reported average wholesale prices. Foliage plant sales are on a "net sales" basis and are derived in each State by subtracting the cost of plant materials purchased from other growers from the gross value of sales. The published average price and percent change for intentions are derived from unrounded totals. Sales times average price does not necessarily equal the published wholesale value.

This report includes revised estimates for 1967 and preliminary estimates for 1968.

FLOWERS AND FOLIAGE PLANTS

Production and Sales, 1967 and 1968; and Intentions for 1969 in Selected States

Total value at wholesale of four important flowers and foliage plants in the 23 major producing States was \$213 million in 1968, 11 percent above sales the previous year, according to the Crop Reporting Board. Sales of cut carnations, gladioli, roses, chrysanthemums, and potted chrysanthemums grown in these States in 1968 had a wholesale value of \$187 million, while net sales of foliage plants totaled \$26 million.

Wholesale value of total sales in 1968 for each type of cut flower in all 23 States was: \$44.9 million, carnations; \$52.2 million, cut chrysanthemums; \$21 million, gladioli; \$49.1 million, roses; and \$19.6 for potted chrysanthemums. In the 23 States, value of sales for cut flowers for carnations was up 12 percent, cut chrysanthemums up 10 percent, gladioli up 18 percent and cut roses up 16 percent from 1967. Potted chrysanthemums showed an increase in value of 8 percent.

California continued as the leading producer of carnations, standard chrysanthemums, potted chrysanthemums, and roses. Florida was the leading producer of pompon chrysanthemums, gladioli, and foliage plants. Based on total wholesale value of the four cut flowers and potted chrysanthemums, California ranks first with \$52.7 million followed by Florida with \$26.1 million and Pennsylvania with \$14.1 million. Based on the net wholesale value of sales for foliage plants, Florida leads with \$14.4 million, followed by California with \$3 million, and Ohio with \$1.6 million.

CARNATIONS

Growers plan a 3-percent increase in the number of carnation plants in production in 1969. Of the 23 States in the survey, 7 intend to have more plants in production in 1969. California, the leading producing State, expects to have 7 percent more and Colorado 6 percent more plants producing in 1969. Growers in the third largest producing State, Pennsylvania, expect to reduce plantings 2 percent.

In 1968, growers in the 23 States sold 630 million blooms from 56 million plants. Number of blooms sold was 14 percent greater than the previous year. California sold 321 million blooms which accounted for about one-half of the 23 State total. Colorado, with one-fifth of the total bloom sales, was second with 127 million blooms. These two States accounted for 71 percent of the total carnations sold in the 23 States. Pennsylvania growers sold 39 million blooms and Massachusetts growers, 37 million, ranking third and fourth. Total wholesale value of 1968 sales in the 23 States was \$44.9 million. The average price of 7.1 cents per bloom in 1968 was down slightly from the 7.3 cents the previous year.

Data for all carnations were obtained separately for miniature and standard types. This year's survey marks the first time data for these types were obtained separately. About 96 percent of all carnation plants in the 23 States were standard types. Standard carnations also accounted for about 96 percent of the value of all carnations. Growers indicate an expected increase in 1969 of 3 percent for standards and 21 percent for miniatures.

STANDARD CHRYSANTHEMUMS

A 3 percent increase in the number of standard chrysanthemum plants in production in the 23 States is indicated for 1969. Greatest gain is expected in California where the number of plants may increase from 48.5 million to 50.6 million.

In 1968, growers in the 23 major States sold 132 million blooms from 112 million plants. The number of blooms sold was slightly below the 1967 level. California was first in sales with 62.4 million blooms or 47 percent of the total, followed by Ohio with 12.3 million blooms; Florida, 10.2 million; and Pennsylvania with 6.9 million. These four States accounted for about 69 percent of the total 1968 sales in 23 States.

Wholesale value of 1968 sales was \$26.6 million for the 23 States, compared with \$24.4 million in 1967. Average price was 20.0 cents per bloom compared with 18.3 cents in 1967.

POMPON CHRYSANTHEMUMS

Growers in the 23 States indicated a 5 percent increase in number of pompon plants expected in production for 1969. Although only 12 of the 23 States indicate an increase for 1969, this more than offsets anticipated decreases in the other States. Most of the expected increase is accounted for by growers in California and Florida.

Sales in 1968 in the 23 States were 10 percent above the previous year and totaled 30.5 million bunches from 126 million plants. Florida continued to lead production with 12.5 million bunches sold or 41 percent of the 23 State total. California was second with 7.8 million bunches (26 percent); and Pennsylvania third with 2.1 million bunches (7 percent). These three States accounted for nearly three-fourths of total sales in 1968. Of the 30.5 million bunches sold, 92 percent were sold at wholesale.

The value of sales for 23 States was \$25.6 million, up 12 percent from 1967. The average price per bunch increased from 80 cents in 1967 to 84 cents in 1968.

GLADIOLI

Gladioli growers in the 23 States intend to plant about 2 percent more acreage in 1969. Moderate increases are expected in 10 of the producing States.

In 1968, growers sold 27.9 million dozen spikes from 12,889 acres compared with 25.7 million dozen spikes sold from 12,667 acres a year earlier. Florida was by far the leading producer with 8,364 acres and 17.9 million dozen spikes sold. Production in Florida increased 10 percent from 1967 and accounted for 64 percent of the 23 State total. California was second with 3.7 million dozen spikes, followed by North Carolina with 2.3 million dozen, and New Jersey with 1.4 million dozen sold. Wholesale sales made up 97 percent of total sales, the same as the previous year.

The total value at wholesale in 1968 was \$21 million for the 23 States, and the average price per dozen spikes was 75 cents. A year earlier the wholesale value of sales was \$17.8 million at an average price per dozen of 69 cents.

ROSES

Rose growers in 1969 plan a 6 percent increase in the number of plants. Missouri and Maryland are the only States where growers plan a reduction.

In 1968, there were 407.8 million blooms sold in the 23 States, 12 percent more than in 1967. California growers sold 142 million blooms, 35 percent of the 23 State total. Second leading State was Pennsylvania with 43.1 blooms sold, 6 percent of the total. Illinois ranked third with 30.1 million and New York fourth with 29.7 million, each accounting for about 7 percent of the total blooms sold.

The value of sales for roses in 1968 was \$49.1 million, 16 percent greater than a year earlier. The average price in 1968 of 12.0 cents per bloom compared with 11.7 cents the previous year.

In 1969, growers plan a 5 percent increase in hybrid tea rose plants and 8 percent in miniature or sweetheart rose plants.

Hybrid tea roses accounted for 83 percent of all rose plants and 82 percent of the total value of sales of all roses last year. The average price for hybrid tea roses was 13.0 cents per bloom compared with 9.1 cents per bloom for miniatures.

POTTED CHRYSANTHEMUMS

Growers of potted chrysanthemums intend to increase the number of pots in production by 4 percent in 1969. Most States expect to increase the number of pots with sharpest quantity gains expected in Ohio and California.

In 1968, 13.4 million pots were sold, 4 percent greater than during 1967. Total wholesale value of sales in 1968 was \$19.6 million, up from \$18.2 million a year earlier. Average wholesale price per pot, at \$1.46, compared with \$1.41 the previous year. California was the leading producer with 2.3 million potted chrysanthemums sold, followed by Florida, Texas, and Ohio.

FOLIAGE PLANTS

Foliage plant growers in 23 States had 31.3 million square feet in production in 1968, down 1 percent from 1967. Florida was the leading grower of foliage plants with 26.4 million square feet in production or 84 percent of the total for the 23 States. California was second with 1.4 million square feet and Texas, third with 1.1 million. These 3 States accounted for 92 percent of the total area in foliage plant production and 69 percent of the total net value of sales. Intended area in production for the States in 1969 is expected to remain virtually the same as last year.

The net value of sales totaled \$26.4 million -- up 1 percent from a year earlier.

Table 1.-Carnations, Chrysanthemums, Gladioli, Roses and Foliage Plants:
Gross wholesale value of sales, 1967 and 1968, in selected States

State	Gross wholesale value of sales 1/										Total		Foliage plants 2/			
	Carnations		Chrysanthemums		Potted		Gladioli		Roses		(4 flowers)		1967		1968	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
Massachusetts ..	3,054	2,988	997	920	656	727	365	409	55	86	2,319	2,810	7,446	7,940	809	1,071
Connecticut ..	680	833	404	373	470	465	396	447	20	10	2,262	2,605	4,232	4,733	157	145
New York:																
Upstate	399	367	895	841	828	765	588	641	315	315	2,039	2,250	5,064	5,179	468	305
Long Island ..	759	759	701	753	513	455	220	288	4	9	1,685	1,723	3,882	3,987	750	1,041
New Jersey	790	790	566	567	515	447	429	339	960	1,019	1,345	1,493	4,605	4,675	1,111	403
Pennsylvania ..	3,292	3,491	1,697	1,750	1,775	1,743	808	780	109	101	5,226	6,199	12,907	14,064	1,061	1,020
Ohio	1,665	1,760	2,723	2,882	1,319	1,213	1,415	1,550	153	135	1,540	1,864	8,823	9,404	1,982	1,597
Indiana	364	375	961	1,053	420	453	505	595	117	129	3,563	4,039	5,930	6,644	346	6/
Illinois	701	685	974	988	736	774	961	1,050	513	513	3,465	3,675	7,350	7,685	295	335
Michigan	266	298	345	347	335	417	1,081	985	50	311	1,743	1,903	3,820	4,261	487	529
Wisconsin	285	370	395	402	346	405	792	811	15	22	549	617	2,382	2,627	183	125
Minnesota	214	219	321	329	475	595	595	689	67	47	951	960	2,623	2,869	181	236
Iowa	139	142	185	226	183	230	748	662	50	52	478	519	1,783	1,831	48	53
Missouri	556	396	872	821	303	310	582	659	5	4	445	400	2,763	2,590	156	68
Delaware	30	30	38	59	50	72	20	18	4/	4/	5/	5/	138	179	4/	4/
Maryland	401	363	534	556	340	295	338	363	4/99	4/118	244	239	1,956	1,934	4/357	4/357
North Carolina ..	814	988	1,126	1,182	748	701	1,197	1,309	1,592	1,798	239	306	5,716	6,284	25	39
Florida	3/	3/	1,604	1,804	8,778	9,591	1,474	1,518	10,841	12,713	486	516	23,183	26,142	13,265	14,357
Tennessee	3/713	3/464	417	391	16	26	504	540	5/	5/	656	373	2,306	1,794	35	29
Texas	8	13	263	270	29	86	1,543	1,831	26	22	26	31	1,895	2,253	808	869
Colorado	9,838	10,866	97	145	186	197	294	294	25	31	495	870	10,935	12,403	125	6/475
Washington	115	85	247	225	199	288	512	641	36	27	696	839	1,805	2,105	238	187
Oregon	92	148	38	42	98	101	450	513	38	46	1,251	1,631	1,967	2,481	105	143
California	14,999	18,468	8,016	9,641	3,527	5,230	2,359	2,630	2,663	3,473	10,620	13,244	42,184	52,686	3,087	3,028
23 States	40,174	44,898	24,416	26,617	22,845	25,586	18,176	19,562	17,753	20,981	42,331	49,106	165,695	186,750	26,079	26,412

1/ Equivalent wholesale value of all sales. 2/ Net value of sales. 3/ Florida combined with Tennessee to avoid disclosure of individual operations. 4/ Delaware combined with Maryland to avoid disclosure of individual operations. 5/ Production negligible. 6/ Indiana combined with Colorado to avoid disclosure of individual operations.

Table 2.-Carnations, All: Number of producers, plants in production, sales, price, wholesale value, 1967 and 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Blossoms sold		Percent of sales at		Wholesale price		Value of sales at	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
	Number		1,000 plants	Percent	1,000 blossoms	Percent	Cents				1,000 dollars	
Massachusetts	140	129	4,488	99	34,580	91	8.8	8.1	3,054	2,988		
Connecticut	65	64	812	101	8,268	79	8.2	8.1	680	833		
New York:												
Upstate	148	174	527	95	4,442	64	9.0	7.2	399	367		
Long Island	55	51	1,028	101	10,775	90	7.0	6.9	759	759		
New Jersey	119	104	1,173	99	8,969	80	8.8	7.4	790	790		
Pennsylvania	277	284	4,149	98	35,600	87	9.3	9.0	3,292	3,491		
Ohio	234	204	1,926	99	16,671	78	10.0	10.3	1,665	1,760		
Indiana	75	70	482	96	3,198	71	11.4	12.1	364	375		
Illinois	101	95	949	89	9,635	84	7.3	8.0	701	685		
Michigan	69	68	303	99	2,565	44	11.2	10.2	266	298		
Wisconsin	93	86	367	100	2,920	79	9.8	12.6	285	370		
Minnesota	58	51	184	129	1,829	61	11.7	11.9	214	219		
Iowa	50	45	105	96	1,072	40	13.0	14.8	139	142		
Missouri	49	46	770	90	6,166	81	9.0	7.2	556	396		
Delaware	7	8	34	95	277	26	10.8	8.4	30	30		
Maryland	32	30	524	86	3,738	72	10.7	9.7	401	363		
North Carolina	39	32	1,010	97	8,472	92	9.6	10.8	814	988		
Florida 1/	---	---	---	---	---	---	---	---	---	---		
Tennessee 3/	12	11	1,429	99	8,600	95	8.3	4.4	713	464		
Texas	6	8	29	84	111	15	7.6	9.3	8	13		
Colorado	148	152	10,632	106	116,597	98	8.4	8.6	9,838	10,866		
Washington	26	24	83	102	992	74	11.6	11.7	115	85		
Oregon	16	16	164	101	1,078	86	8.5	10.4	92	148		
California	236	263	25,004	107	264,871	99	5.7	5.7	14,999	18,468		
23 States	2,055	2,015	54,342	103	551,426	94	7.3	7.1	40,174	44,898		

1/ Miniature carnation bunch converted to 37 blossoms for combining with standard carnations. 2/ Equivalent wholesale value of all sales. 3/ Florida combined with Tennessee to avoid disclosure of individual operations.

Table 3.--Carnations, Standard: Number of producers, plants in production, sales, price, wholesale value, 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Intended 1969	Percent of 1969 as 1968	Blooms sold 1968	Percent of sales at wholesale 1968	Wholesale price 1968	Value of sales at wholesale 1968
	1968	1968	1968	1968						
Massachusetts	125	4,275	4,209	98	29,897	93	9.3	2,780		
Connecticut	60	681	664	97	6,560	72	10.6	696		
New York:										
Upstate	123	488	462	95	3,841	58	8.6	330		
Long Island	48	912	921	101	8,157	87	8.3	677		
New Jersey	97	1,067	1,042	98	7,698	78	9.0	692		
Pennsylvania	282	3,998	3,900	98	33,410	87	9.9	3,308		
Ohio	204	1,892	1,870	99	15,862	68	10.8	1,713		
Indiana	70	478	460	96	2,981	82	12.4	370		
Illinois	94	930	827	89	8,053	63	8.2	661		
Michigan	63	293	293	100	2,651	56	10.7	283		
Wisconsin	86	365	365	100	2,817	88	13.0	366		
Minnesota	*	*	*	*	*	*	*	*		
Iowa	*	*	*	*	*	*	*	*		
Missouri	*	*	*	*	*	*	*	*		
Delaware	*	*	*	*	*	*	*	*		
Maryland	30	513	467	91	3,421	71	10.3	353		
North Carolina	32	1,007	967	96	8,998	94	10.9	981		
Florida 2/	*	*	*	*	*	*	*	*		
Tennessee 2/	*	*	*	*	*	*	*	*		
Texas	8	29	24	84	145	38	9.3	13		
Colorado	152	10,493	11,100	106	121,589	98	8.8	10,700		
Washington	*	*	*	*	*	*	*	*		
Oregon	16	163	165	101	1,343	70	10.7	144		
California	261	24,587	26,205	107	301,097	99	6.0	18,066		
Unallocated	179	1,971	1,707	87	11,855	80	9.6	1,133		
23 States	1,930	54,142	55,648	103	570,375	94	7.6	43,266		

* Unallocated to avoid disclosure of individual operations.

1/ Equivalent wholesale value of all sales.

2/ Florida combined with Tennessee to avoid disclosure of individual operations.

Table 4.--Carnations, Miniature: Number of producers, plants in production, sales, price, wholesale value, 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Bunches sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale	
	1968	1968	Intended 1969	percent of 1968	1968	1968	1968	1968	1968	1968	1968	1968
	Number		1,000 plants		1,000 bunches		Percent		Dollars		1,000 dollars	
Massachusetts	38	213	232	109	192	94	94	1.08	208			
Connecticut	24	131	155	118	101	87	87	1.36	137			
New York:												
Upstate	33	39	40	104	34	52	52	1.08	37			
Long Island	13	103	107	104	79	88	88	1.04	82			
New Jersey	33	124	133	107	80	92	92	1.22	98			
Pennsylvania	43	151	155	103	148	91	91	1.24	183			
Ohio	20	34	35	105	32	94	94	1.47	47			
Indiana	4	4	4	81	3	46	46	1.66	5			
Illinois	12	19	16	83	14	85	85	1.77	24			
Michigan	18	10	10	97	8	36	36	1.92	15			
Wisconsin	10	2	2	105	3	50	50	1.10	4			
Minnesota	*	*	*	*	*	*	*	*	*			
Iowa	*	*	*	*	*	*	*	*	*			
Missouri	*	*	*	*	*	*	*	*	*			
Delaware	*	*	*	*	*	*	*	*	*			
Maryland	7	11	10	97	8	90	90	1.28	10			
North Carolina	5	3	13	418	4	74	74	1.85	7			
Florida	*	*	*	*	*	*	*	*	*			
Tennessee	*	*	*	*	*	*	*	*	*			
Texas	20	139	160	115	142	92	92	1.17	166			
Colorado	*	*	*	*	*	*	*	*	*			
Washington	4	1	1	112	2	5	5	2.00	4			
Oregon	37	417	534	128	551	100	100	.73	402			
California	24	634	862	136	213	96	96	.94	203			
Unallocated												
23 States	345	2,035	2,469	121	1,614	93	93	1.01	1,632			

* Unallocated to avoid disclosure of individual operations.
 1/ Equivalent wholesale value for all sales.

Table 5.-Standard Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1967 and 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Blooms sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale 1/	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
	Number	- 1,000 plants	Number	- 1,000 plants	1,000 blooms	Percent	Percent	Percent	Cents	1,000 dollars	1,000 dollars	
Massachusetts	169	3,925	3,483	3,392	4,155	97	3,803	92	24.0	24.2	997	920
Connecticut	87	1,323	1,166	1,214	1,700	104	1,385	76	23.8	26.9	404	373
New York:												
Upstate	269	2,864	2,647	2,630	3,457	99	3,025	77	25.9	27.8	895	841
Long Island	83	1,846	1,921	1,732	2,818	90	2,748	89	24.9	27.4	701	753
New Jersey	182	1,632	1,586	1,587	2,514	100	2,310	77	22.5	25.4	566	587
Pennsylvania	341	5,606	5,774	5,971	6,836	103	6,861	74	24.8	25.5	1,697	1,750
Ohio	332	12,492	12,543	12,004	12,856	96	12,265	88	21.2	23.5	2,723	2,882
Indiana	134	3,112	3,263	3,444	3,245	106	3,311	80	29.6	31.8	961	1,053
Illinois	147	3,726	3,712	3,776	3,730	102	3,728	82	26.1	26.5	974	988
Michigan	114	1,108	1,094	1,063	1,265	97	1,214	74	27.3	28.6	345	347
Wisconsin	138	1,259	1,122	1,080	1,392	96	1,218	69	28.4	33.0	395	402
Minnesota	103	1,230	1,263	1,281	1,328	101	1,274	80	24.2	28.2	321	359
Iowa	73	536	685	700	613	102	802	66	30.2	28.2	185	226
Missouri	88	3,920	3,705	3,851	3,955	104	3,451	90	22.0	23.8	872	821
Delaware	12	133	153	153	158	100	214	52	23.9	27.4	38	59
Maryland	52	1,546	1,752	1,723	2,146	98	1,972	78	24.1	28.2	534	556
North Carolina	64	3,401	3,899	4,149	5,400	106	5,683	93	20.9	20.8	1,126	1,182
Florida	28	9,040	10,342	10,735	9,137	104	10,192	100	17.6	17.7	1,604	1,804
Tennessee	21	1,468	1,197	1,292	2,256	108	1,998	91	18.5	19.6	417	391
Texas	42	1,227	1,192	1,216	1,153	102	1,084	88	22.9	24.9	263	270
Colorado	20	350	447	638	371	143	512	63	26.3	28.3	97	145
Washington	54	586	522	566	1,006	109	794	67	24.5	28.4	247	225
Oregon	29	30	108	135	163	101	167	77	23.5	24.8	38	42
California	174	47,340	48,492	50,638	61,658	104	62,367	100	13.0	15.5	8,016	9,641
23 States	2,756	2,600	109,778	112,095	133,312	103	132,378	91	18.3	20.0	24,416	26,617

1/ Equivalent wholesale value of all sales.

Table 6.--Pompon Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1967 and 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Bunches sold		Percent of sales at		Wholesale price		Value of sales at	
	1967	1968	1967	1968	1,000 plants	1,000 bunches	1967	1968	1967	1968	1967	1968
	Number		1,000 plants		Percent		Percent	Dollars		Dollars	1,000 dollars	
			Intended		1969 as		1969 as			1967		1968
			1969		percent of		percent of			1967		1968
			1968		1968		1968			1967		1968
Massachusetts	208	2,343	2,109	2,051	97	570	572	65	1.15	1.27	656	727
Connecticut	103	1,607	1,500	1,501	100	358	350	71	1.31	1.33	470	465
New York:												
Upstate	284	2,570	2,407	2,499	104	744	671	60	1.11	1.14	888	765
Long Island	95	1,639	1,439	1,371	95	598	505	82	.86	.90	513	455
New Jersey	183	1,454	1,300	1,247	96	523	445	74	.98	1.01	515	447
Pennsylvania	339	5,285	5,870	5,726	98	2,094	2,125	85	.85	.82	1,775	1,743
Ohio	296	4,615	3,895	3,955	102	1,318	1,132	77	1.00	1.07	1,319	1,213
Indiana	115	1,327	1,219	1,219	100	376	361	79	1.11	1.26	420	453
Illinois	150	2,921	2,795	2,612	93	622	623	76	1.13	1.24	736	774
Michigan	113	1,007	904	885	98	304	297	66	1.09	1.40	335	417
Wisconsin	132	1,117	1,009	1,051	104	275	251	69	1.25	1.61	346	405
Minnesota	108	1,205	1,136	1,167	103	437	466	66	1.08	1.29	475	595
Iowa	74	450	547	464	85	144	180	63	1.27	1.28	183	230
Missouri	71	1,187	880	953	108	320	301	83	.94	1.03	303	310
Delaware	12	170	163	165	101	45	65	23	1.20	1.11	50	72
Maryland	55	1,018	841	823	98	301	259	76	1.13	1.14	340	295
North Carolina	49	2,687	2,908	3,078	106	820	837	98	.91	.84	748	701
Florida	46	62,668	70,160	73,939	105	11,391	12,521	100	.77	.77	8,778	9,591
Tennessee	5	44	66	55	83	14	20	66	1.12	1.34	16	26
Texas	15	125	505	508	100	32	116	94	.91	.74	29	86
Colorado	24	674	709	885	125	168	155	72	1.11	1.27	186	197
Washington	56	692	953	903	95	193	258	83	1.03	1.11	199	288
Oregon	37	286	308	299	97	92	100	75	1.06	1.01	98	101
California	168	17,987	22,710	24,955	110	5,791	7,841	99	.60	.67	3,527	5,230
23 States	2,738	115,078	126,333	132,311	105	27,560	30,451	92	.80	.84	22,845	25,586

1/ Equivalent wholesale value for all sales.

Table 7.--Glaadioli: Number of producers, acres in production, sales, price, wholesale value, 1967 and 1968, and indicated acres in production, 1969, in selected States

State	Producers		Acres in production		Lozen spikes sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
	Number	Number	Acres	Acres	1,000 dozen	1,000 dozen	Percent	Percent	Dollars	Dollars	1,000 dollars	1,000 dollars
Massachusetts.....	30	25	40	54	61	61	87	95	0.90	1.22	55	86
Connecticut.....	15	14	24	17	21	21	78	75	.92	.89	20	10
New York:												
Upstate.....	53	44	291	177	393	393	93	92	.80	.88	315	315
Long Island.....	13	13	4	10	8	8	73	71	.43	.45	4	9
New Jersey.....	44	36	551	511	1,483	1,483	98	99	.65	.73	960	1,019
Pennsylvania.....	56	53	90	70	121	121	87	85	.90	.93	109	101
Ohio.....	36	31	145	152	166	166	87	91	.92	.94	153	135
Indiana.....	17	17	152	154	132	132	98	92	.88	.81	117	129
Illinois.....	42	40	888	853	994	994	98	99	.52	.53	513	513
Michigan.....	32	33	257	360	148	148	93	96	.34	.68	50	311
Wisconsin.....	23	14	23	25	19	19	89	99	.82	1.05	15	22
Minnesota.....	23	20	118	88	77	77	82	93	.88	.53	67	47
Iowa.....	13	11	62	46	43	43	93	95	1.16	1.20	50	52
Missouri.....	9	6	3	5	5	5	81	94	1.20	.80	5	4
Delaware 2/.....	---	---	---	---	---	---	---	---	---	---	---	---
Maryland 2/.....	13	12	46	39	133	133	96	89	.74	.84	99	118
North Carolina.....	33	27	848	800	2,048	2,048	97	98	.78	.79	1,592	1,798
Florida.....	28	28	8,071	8,364	16,258	17,905	96	96	.67	.71	10,841	12,713
Tennessee 3/.....	---	---	---	---	---	---	---	---	---	---	---	---
Texas.....	9	8	22	15	26	26	77	80	1.00	.98	26	22
Colorado.....	5	4	16	12	29	29	99	100	.86	.98	25	31
Washington.....	11	13	56	116	35	35	84	98	1.00	.90	36	27
Oregon.....	12	14	30	45	32	32	98	91	1.17	1.24	38	46
California.....	24	27	930	980	3,516	3,660	100	100	.76	.95	2,663	3,473
23 States.....	541	490	12,667	12,889	25,748	27,948	97	97	.69	.75	17,753	20,981

1/ Equivalent wholesale value for all sales. 2/ Delaware combined with Maryland to avoid disclosure of individual operations. 3/ Production negligible.

Table 8.--Roses, All: Number of producers, plants in production, sales, price, wholesale value, 1967 and 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Blossoms sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale 1/	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
	Number		1,000 plants		1,000 blossoms		Percent		Cents		1,000 dollars	
Massachusetts	14	14	697	721	19,403	21,539	99	99	12.0	13.0	2,319	2,810
Connecticut	7	7	813	844	18,894	21,977	100	99	12.0	11.9	2,262	2,605
New York:												
Upstate	15	14	727	733	14,515	15,298	97	97	14.1	14.7	2,039	2,250
Long Island	12	11	660	539	14,441	14,351	98	99	11.7	12.0	1,685	1,723
New Jersey	17	16	508	529	12,341	12,604	88	99	10.9	11.8	1,345	1,493
Pennsylvania	38	40	1,693	1,739	43,150	43,061	98	95	12.1	14.4	5,226	6,199
Ohio	22	22	554	596	11,236	11,953	93	84	13.8	15.6	1,548	1,864
Indiana	21	21	1,128	1,093	22,461	23,648	98	99	15.9	17.1	3,563	4,039
Illinois	22	21	1,243	1,226	30,053	30,081	97	90	11.5	12.2	3,465	3,675
Michigan	19	21	554	586	10,468	11,760	97	95	16.7	16.2	1,743	1,903
Wisconsin	13	9	156	164	3,503	3,689	97	97	15.7	16.7	549	617
Minnesota	22	21	334	369	7,211	7,296	87	75	13.2	13.2	951	960
Iowa	11	12	231	199	3,621	3,736	78	79	13.2	13.9	478	519
Missouri	10	6	165	129	3,277	2,615	97	96	13.6	16.1	445	421
Delaware 2/	---	---	---	---	---	---	---	---	---	---	---	---
Maryland	9	9	91	91	2,386	2,289	91	93	10.2	10.5	244	239
North Carolina	16	12	61	81	1,718	2,139	74	76	13.9	14.3	239	306
Florida	9	13	184	177	5,384	5,122	95	94	9.0	10.1	486	516
Tennessee	5	5	189	192	3,568	3,591	85	89	18.4	10.4	656	373
Texas	16	13	22	20	556	913	84	77	4.7	3.4	26	31
Colorado	15	15	208	278	3,633	6,747	96	97	13.6	12.9	495	870
Washington	9	9	221	264	5,563	6,053	99	100	12.5	13.9	696	839
Oregon	4	4	478	433	12,128	15,138	88	87	10.3	10.8	1,251	1,631
California	50	56	4,708	5,761	113,634	142,187	100	100	9.4	9.3	10,620	13,244
23 States ..	376	371	15,625	16,784	363,144	407,797	97	97	11.7	12.0	42,331	49,127

1/ Equivalent wholesale value for all sales.
2/ Production negligible.

Table 9.--Roses, Hybrid Tea: Number of producers, plants in production, sales, price, wholesale value, 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Blossoms sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale 1/	
	1968	1968	1968	Intended 1969	1968	percent of 1968	1968	1968	1968	1968	1968	1968
	Number	1,000 plants	Percent	1,000 blooms	Percent	1,000 dollars	Cents	1,000 dollars				
Massachusetts	14	533	128	13,750	99	15.0	2,062	*				
Connecticut	*	*	*	*	*	*	*	*				
New York:												
Upstate	14	604	104	10,959	97	16.1	1,764					
Long Island	10	432	100	9,729	99	12.9	1,255					
New Jersey	16	413	102	8,639	100	13.2	1,140					
Pennsylvania	36	1,477	101	32,616	97	15.0	5,186					
Ohio	19	521	108	9,404	82	17.0	1,599					
Indiana	19	933	108	17,862	98	18.4	3,287					
Illinois	20	967	102	22,540	92	13.3	2,998					
Michigan	18	468	102	8,146	96	18.7	1,523					
Wisconsin	*	*	*	*	*	*	*					
Minnesota	20	284	102	5,004	72	15.2	761					
Iowa	11	167	103	3,029	81	14.9	451					
Missouri	5	111	92	2,040	95	16.5	336					
Delaware 2/	---	---	---	---	---	---	---					
Maryland	9	73	96	1,651	91	11.4	188					
North Carolina	*	*	*	*	*	*	*					
Florida	11	124	80	3,222	91	11.3	364					
Tennessee	*	*	*	*	*	*	*					
Texas	*	*	*	*	*	*	*					
Colorado	13	205	119	4,281	96	14.9	638					
Washington	8	191	120	3,845	100	16.7	642					
Oregon	*	*	*	*	*	*	*					
California	53	5,173	106	123,243	100	9.7	11,955					
Unallocated	50	1,259	103	29,402	93	13.6	4,012					
23 States	346	13,935	105	309,362	97	13.0	40,161					

* Unallocated to avoid disclosing individual operations.
 1/ Equivalent wholesale value for all sales. 2/ Production negligible.

Table 10.--Roses, Miniature or Sweetheart: Number of producers, plants in production, sales, price, wholesale value, 1968, and indicated plants in production, 1969, in selected States

State	Producers		Plants in production		Blooms sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale 1/	
	1968	1968	1968	Intended, 1969 as percent of 1968	1968	1968	1968	1968	1968	1968	1968	1968
	Number	1,000 plants	Percent	Percent	1,000 blooms	Percent	Cents	1,000 dollars	Cents	1,000 dollars		
Massachusetts	9	188	203	108	7,789	100	9.6	748	*			
Connecticut	*	*	*	*	*	*	*	*	*			
New York:												
Upstate	11	129	138	107	4,339	97	11.2	486				
Long Island	9	107	106	100	4,632	100	10.1	468				
New Jersey	13	116	117	101	3,965	97	8.9	353				
Pennsylvania	29	262	360	137	10,445	87	9.7	1,013				
Ohio	12	75	79	105	2,549	90	10.4	265				
Indiana	15	160	175	109	5,786	100	13.0	752				
Illinois	16	259	271	105	7,521	86	9.0	677				
Michigan	14	118	118	101	3,614	94	10.5	379				
Wisconsin	*	*	*	*	*	*	*	*				
Minnesota	19	85	90	106	2,292	84	8.7	199				
Iowa	8	32	33	101	707	74	9.6	68				
Missouri	5	18	17	99	575	97	11.3	65				
Delaware 2/.....	---	---	---	---	---	---	---	---	---	---	---	---
Maryland.....	7	17	15	89	638	96	8.0	51				
North Carolina	*	*	*	*	*	*	*	*				
Florida	11	54	49	90	1,900	98	8.0	152				
Tennessee.....	*	*	*	*	*	*	*	*				
Texas	*	*	*	*	*	*	*	*				
Colorado	10	72	82	113	2,466	99	9.4	232				
Washington	7	73	88	121	2,208	100	8.9	197				
Oregon	*	*	*	*	*	*	*	*				
California	25	608	639	105	18,964	100	6.8	1,290				
Unallocated	20	478	494	103	18,045	93	8.6	1,550				
23 States	240	2,851	3,074	108	98,435	96	9.1	8,945				

* Unallocated to avoid disclosing individual operations.
 1/ Equivalent wholesale value for all sales. 2/ Production negligible.

Table 11.--Potted Chrysanthemums: Number of producers, plants in production, sales, price, wholesale value, 1967 and 1968, and indicated pots in production, 1969, in selected States

State	Producers		Pots in Production		Pots Sold		Percent of sales at wholesale		Wholesale price		Value of sales at wholesale	
	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968	1967	1968
	Number	Number	1,000 pots	1,000 pots	1,000 pots	1,000 pots	Percent	Percent	Dollars	Dollars	1,000 dollars	1,000 dollars
Massachusetts	78	67	277	283	229	274	80	91	1.59	1.49	365	409
Connecticut	46	43	250	255	221	245	94	96	1.79	1.82	396	447
New York:												
Upstate	158	154	441	443	396	420	89	89	1.49	1.53	588	641
Long Island	34	37	179	195	143	174	95	96	1.54	1.66	220	288
New Jersey	66	63	193	199	272	186	94	92	1.57	1.82	429	339
Pennsylvania	211	220	584	538	587	546	78	84	1.38	1.43	808	780
Ohio	201	195	1,058	1,151	1,018	1,033	92	91	1.39	1.50	1,415	1,550
Indiana	45	41	315	316	273	301	90	89	1.85	1.98	505	595
Illinois	64	65	613	652	575	602	94	92	1.67	1.74	961	1,050
Michigan	97	109	636	646	688	621	93	89	1.57	1.59	1,081	985
Wisconsin	78	88	497	503	529	479	87	92	1.50	1.69	792	811
Minnesota	75	84	407	430	348	393	62	82	1.71	1.76	595	689
Iowa	51	53	426	425	456	414	90	90	1.64	1.60	748	662
Missouri	48	48	433	456	376	421	90	91	1.55	1.57	582	659
Delaware	5	6	13	16	16	12	90	82	1.22	1.45	20	18
Maryland	31	32	217	225	208	211	93	95	1.62	1.72	338	363
North Carolina	40	30	779	821	671	726	96	98	1.78	1.80	1,197	1,309
Florida	10	12	1,527	1,584	1,366	1,443	100	100	1.08	1.05	1,474	1,518
Tennessee	21	18	329	347	299	311	86	88	1.68	1.74	504	540
Texas	76	72	1,393	1,472	1,157	1,321	86	96	1.33	1.39	1,543	1,831
Colorado	18	19	217	208	202	192	88	88	1.46	1.53	294	294
Washington	38	34	415	473	329	394	90	94	1.56	1.63	512	641
Oregon	18	19	392	416	376	376	99	79	1.21	1.36	450	513
California	29	33	2,351	2,412	2,162	2,291	100	99	1.09	1.15	2,399	2,630
23 States	1,538	1,542	13,372	14,466	12,897	13,386	92	93	1.41	1.46	18,176	19,562

1/ Equivalent wholesale value of all sales.

Table 12.--Foliage Plants for Indoor or Patio Use: Number of producers, square feet in production, square feet in production, net value of sales, 1967 and 1968, and indicated area in production, 1969, in selected States

State	Producers		Square feet in production		Intended : 1969		Net value of sales 1/		Percent of sales at wholesale	
	1967	1968	1967	1968	1969	1968	1967	1968	1967	1968
	Number		1,000 sq. ft.		Percent		1,000 dollars		Percent	
Massachusetts	42	28	201	246	243		809	1,071	65	53
Connecticut	27	23	58	54	50		157	145	82	85
New York:										
Upstate	77	53	264	158	158		468	305	82	82
Long Island	34	29	346	389	376		750	1,041	97	96
New Jersey	43	40	321	145	144		1,111	403	97	94
Pennsylvania	79	81	362	312	310		1,061	1,020	81	86
Ohio	91	79	439	322	329		1,982	1,597	95	94
Indiana 3/	31	---	76	---	---		346	---	92	---
Illinois	26	26	69	70	70		295	335	84	72
Michigan	32	35	189	150	147		487	529	89	91
Wisconsin	45	35	75	50	49		183	125	64	86
Minnesota	38	35	54	68	70		181	236	38	62
Iowa	19	23	19	38	39		48	53	52	56
Missouri	41	30	90	45	46		156	68	75	44
Delaware 2/	---	---	---	---	---		---	---	---	---
Maryland 2/	18	13	96	87	87		357	357	79	89
North Carolina	10	14	10	12	12		25	39	36	31
Florida	141	154	26,074	26,357	26,316		13,265	14,357	98	99
Tennessee	9	6	21	12	15		35	29	91	99
Texas	106	109	882	1,088	1,118		808	869	78	77
Colorado 3/	9	32	25	98	96		125	475	99	95
Washington	28	25	190	115	115		238	187	74	91
Oregon	18	17	49	66	41		105	143	96	96
California	50	52	1,696	1,405	1,441		3,087	3,028	98	95
23 States	1,014	939	31,606	31,287	31,272		26,079	26,412	91	93

1/ Gross value of sales less cost of plant material purchased from other growers for growing on.

2/ Delaware combined with Maryland to avoid disclosure of individual operations.

3/ Indiana combined with Colorado in 1968 to avoid disclosure of individual operations.

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