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SPECIAL REPORTS

HORTICULTURAL SPECIALTIES

Prepared under the supervision of

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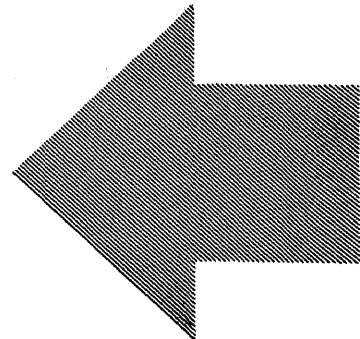
Agriculture Division

VOLUME V PART I

UNITED STATES GOVERNMENT PRINTING OFFICE 1952

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PREFACE

Volume V, Special Reports, is one of the final volumes presenting the results of the 1950 Census of Agriculture and related programs. Part 1, Horticultural Specialties, is comprised of four chapters presenting the information obtained from the special censuses relating to the following:

- Chapter A—Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)
- Chapter B—Nurseries
- Chapter C—Bulb farms
- Chapter D—Flower-seed farms

These censuses were taken as a part of the 1950 Census of Agriculture in conformity with the Act of Congress providing for the fifteenth and subsequent decennial censuses, approved June 18, 1929, as amended.

The collection of data was carried out largely by mail. Acknowledgment is made of the assistance and cooperation of the following State agencies in the collection of reports that could not be obtained readily by mail:

California.....	Nursery Service, Bureau of Plant Quarantine, California Department of Agriculture
Florida.....	Agricultural Extension Service, University of Florida
Illinois.....	Division of Plant Industry, Department of Agriculture
Iowa.....	Extension Service, Iowa State College
Massachusetts...	Massachusetts Department of Agriculture
Michigan.....	Bureau of Plant Industry, Department of Agriculture
Minnesota.....	Bureau of Plant Industry, Department of Agriculture, Dairy and Food
Missouri.....	State Entomologist, Department of Agriculture
New Jersey.....	Bureau of Entomology, Department of Agriculture
New York.....	Department of Floriculture and Ornamental Horticulture, Cornell University
Oklahoma.....	Entomology and Plant Industry Division, State Board of Agriculture
Oregon.....	Extension Service, Oregon State College
Pennsylvania.....	Bureau of Plant Industry, Department of Agriculture
Texas.....	Division of Plant Quarantines, Department of Agriculture
Virginia.....	Division of Plant Industry, Department of Agriculture and Immigration
Washington.....	Nursery Inspection Supervisor, Department of Agriculture

The planning of the census and the compilation of the statistics were supervised by Ray Hurley, Chief, Agriculture Division, and Warder B. Jenkins, Assistant Chief. The technical work of these censuses was performed by, or under the supervision of, M. Truman Fossum, Survey Statistician. The graphic material was prepared under the supervision of Clarence E. Batschelet, Geographer. Henry A. Tucker and Helen C. Leahy prepared this report for printing.

UNITED STATES CENSUS OF AGRICULTURE: 1950
REPORTS

Volume I.—Counties and State Economic Areas.—Statistics for counties include number of farms, acreage, value, and farm operators; farms by size, by color and tenure of operator; facilities and equipment, farm labor, and farm expenditures; livestock and livestock products; specified crops harvested; farms and farm characteristics for commercial farms; farms classified by value of farm products sold, by type of farm, and by economic class; and value of products sold by source.

Data for State economic areas include farms and farm characteristics by size of farm, by tenure of operator, by type of farm, and by economic class.

Volume I will be published in 34 parts as follows:

Part	State or States	Part	State or States
1	New England States: Maine. New Hampshire. Vermont. Massachusetts. Rhode Island. Connecticut.	15	South Atlantic—Continued Virginia and West Virginia.
2	Middle Atlantic States: New York. New Jersey. Pennsylvania.	16	North Carolina and South Carolina.
3	East North Central: Ohio.	17	Georgia.
4	Indiana.	18	Florida.
5	Illinois.	19	East South Central: Kentucky.
6	Michigan.	20	Tennessee.
7	Wisconsin.	21	Alabama.
8	West North Central: Minnesota.	22	Mississippi.
9	Iowa.	23	West South Central: Arkansas.
10	Missouri.	24	Louisiana.
11	North Dakota and South Dakota.	25	Oklahoma.
12	Nebraska.	26	Texas.
13	Kansas.	27	Mountain: Montana.
14	South Atlantic: Delaware, Maryland, District of Columbia.	28	Idaho.
		29	Wyoming and Colorado.
		30	New Mexico and Arizona.
		31	Utah and Nevada.
		32	Pacific: Washington and Oregon.
		33	California.
		34	Territories and possessions.

Volume II.—General Report.—Statistics by Subjects, United States Census of Agriculture, 1950. Summary data and analyses of the data for States, for Geographic Divisions, and for the United States by subjects as illustrated by the chapter titles listed below:

Chapter	Title	Chapter	Title
I	Farms and Land in Farms.	VII	Field Crops and Vegetables.
II	Age, Residence, Years on Farm, Work off Farm.	VIII	Fruits and Nuts, Horticultural Specialties, Forest Products.
III	Farm Facilities, Roads, Trading Center, Farm Equipment.	IX	Value of Farm Products.
IV	Farm Labor and Farm Expenditures.	X	Size of Farm.
V	Farm Mortgages, Farm Taxes, Cash Rent.	XI	Color, Race, and Tenure of Farm Operator.
VI	Livestock and Livestock Products.	XII	Economic Class of Farm.
		XIII	Type of Farm.

Volume III.—Irrigation of Agricultural Lands.—State reports with data for counties and drainage basins and a summary for the United States, including number of enterprises, irrigation works and equipment, source of water, new capital investment since 1940, cost of irrigation water, number of farms and acreage irrigated, and quantity of water used for irrigation purposes.

The State reports will be issued as separate parts of Volume III as follows:

Part	State	Part	State
1	Arizona.	10	Nebraska.
2	Arkansas and Oklahoma.	11	Nevada.
3	California.	12	New Mexico.
4	Colorado.	13	North Dakota and South Dakota.
5	Florida.	14	Oregon.
6	Idaho.	15	Texas.
7	Kansas.	16	Utah.
8	Louisiana.	17	Washington.
9	Montana.	18	Wyoming.

Volume IV.—Drainage of Agricultural Lands.—State reports with statistics for counties and a summary for the United States. One part only. Data on land in drainage enterprises, number and types of enterprises, cost of drainage, indebtedness, assessments, and drainage works.

HORTICULTURAL SPECIALTIES

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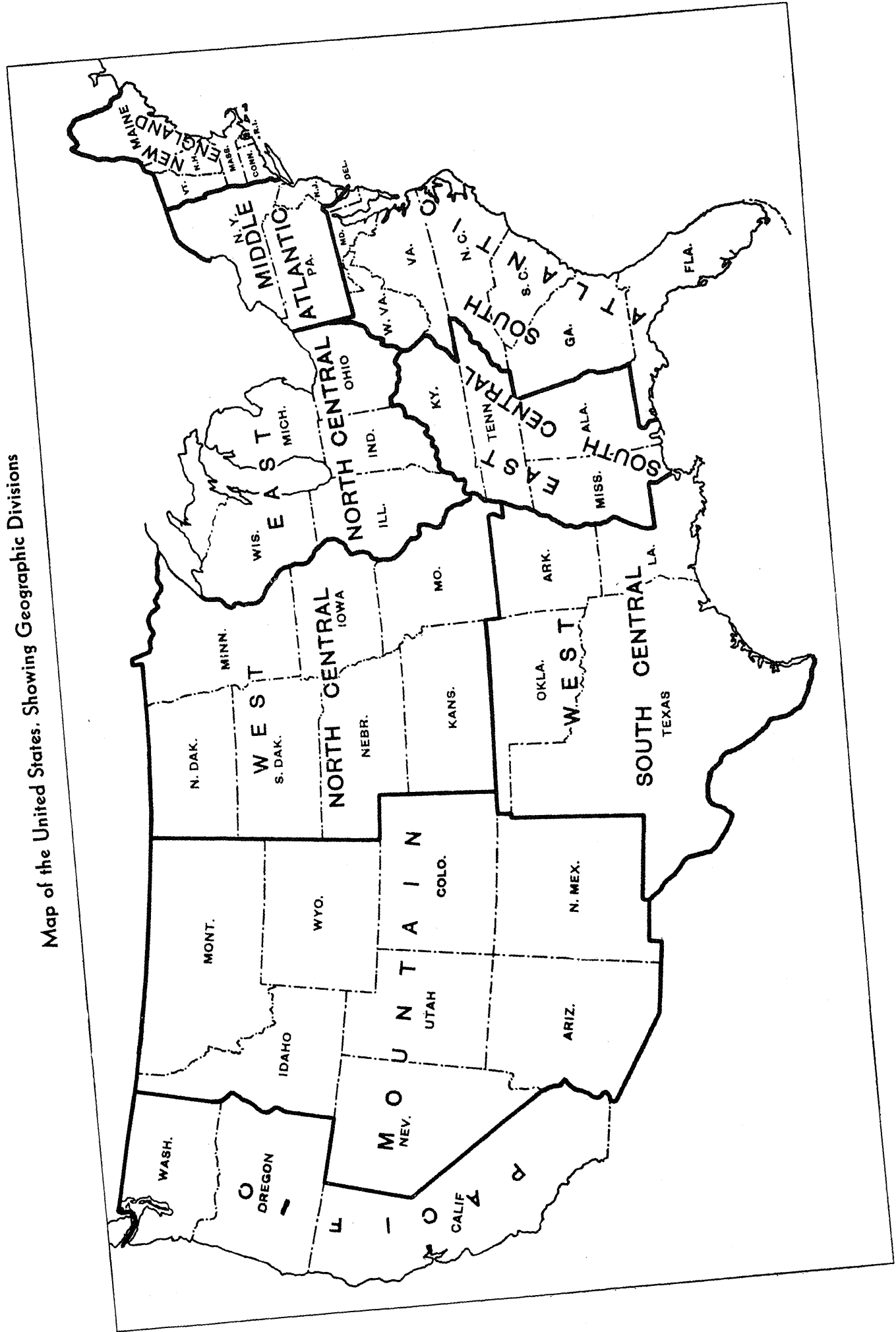
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Map of the United States. Showing Geographic Divisions



INTRODUCTION

(1)

INTRODUCTION

HISTORY AND SCOPE

History and scope of the census of horticultural-specialty establishments.—The special census of horticultural-specialty establishments for 1950 includes the special census of producers of cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms), of nurseries, of bulb farms, and of flower-seed farms. While establishments included in this special census have been included in the general Census of Agriculture, detailed data regarding these establishments and the production of horticultural-specialty crops have been obtained by special censuses only in connection with the 1890, 1930, and 1950 Censuses of Agriculture.

Legal basis.—Authorization for the 1950 Census of Agriculture was made in the Act of Congress, approved June 18, 1929, as amended, providing for the fifteenth and subsequent decennial censuses. This special census was taken as part of the 1950 Census of Agriculture.

Period covered by the census.—This special census covers, in general, operations in the calendar year 1949. However, a small proportion of the establishments, which maintained their records on a fiscal-year basis and which were unable to report on a calendar-year basis, were permitted to report for the fiscal year that included at least one-half of the calendar year 1949. Regardless of the year used, the data on employment and on structures and equipment were to be reported for the period specified on the questionnaires.

Questionnaires used for the 1950 census.—Because of differences in kinds of crops grown and production facilities, separate questionnaires were used for (a) establishments producing cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms), (b) nurseries, (c) bulb farms, and (d) flower-seed farms. Each of these questionnaires contained from 56 to 100 inquiries. These questionnaires were prepared after a field pretest of inquiries proposed for this special 1950 census. A facsimile of the appropriate questionnaire used appears in the appendix to each chapter.

Under the Census definition of a farm, the production of horticultural-specialty products is considered as a farm operation, and farm census enumerators were required to obtain Agriculture Questionnaires from such establishments. The questionnaire for the 1950 farm census contained the following four inquiries regarding horticultural-specialty products:

NURSERY AND GREENHOUSE PRODUCTS, FLOWER AND VEGETABLE SEEDS AND PLANTS, AND BULBS:			
204. Were any nursery or greenhouse products, flower or vegetable seeds or plants, flowers, or bulbs grown for sale last year? . . .	<input type="checkbox"/> No. If "No," check and skip to question [208].		
	<input type="checkbox"/> Yes. (Report tenths of an acre, such as $\frac{1}{10}$, $\frac{2}{10}$, $\frac{1}{2}$, etc.)		
205. How many NURSERY PRODUCTS (trees, shrubs, vines, ornamentals, etc.) did you have last year?	Acres ★ _____	Value of sales in 1949 ● \$ _____/100	(Dollars only)
206. How many FLOWERS and FLOWERING PLANTS were grown for sale—			
(a) Under glass?	Square feet _____	Value of sales in 1949 ● \$ _____/100	(Dollars only)
(b) In open?	Acres ★ _____		
207. How many of the following were produced for sale: Vegetables grown under glass, flower seeds, vegetable seeds, vegetable plants, bulbs, and mushrooms—			
(a) Under glass or in house?	Square feet _____	Value of sales in 1949 ● \$ _____/100	(Dollar only)
(b) In open?	Acres ★ _____		

THE ENUMERATION

The enumeration.—The enumeration for the special census of horticultural-specialty establishments was conducted largely by mail. Lists of producers were obtained from trade associations, commercial mailing lists, directories, State departments of agriculture engaged in the certification of growers or dealers, etc. From these lists, a master list was prepared, containing the names of approximately 68,000 horticultural-specialty establishments.

In May and June 1950, copies of appropriate horticultural-specialty questionnaires were mailed to all establishments on the master mailing list. Several subsequent follow-up mailings were made to establishments from which no reports had been received.

Prior to the taking of the 1950 Census of Agriculture in April the master mailing list was provided to enumerators, crew leaders, and census supervisors for use in checking the completeness of the returns for Questions 204-207 on the Agriculture Questionnaire. Subsequently, during the processing of the Agriculture Questionnaires in Washington a other list showing name and address of farm operator and the information reported in Questions 204-207 was prepared. This list was used to check against and correct the master list of horticultural-specialty establishments. Questionnaires were then mailed to those horticultural-specialty establishments listed in the 1950 farm census but which were not on the master mailing list.

It was not possible to obtain reports from all establishments by mail. Arrangements were made in 1950 and 1951 with some State agricultural colleges and State departments of agriculture to appoint as Special Agents of the Bureau of the Census members of their staff engaged in inspection, extension, or other work related to the horticultural-specialty industry, and for these persons to obtain reports from the establishments for which reports had not been received. As a result of the cooperation of the operators of horticultural-specialty establishments and the assistance of these State agencies, it was possible to obtain the required reports.

PRESENTATION OF STATISTICS

This report is comprised of an introduction and four chapters presenting the data obtained in the special Census of Horticultural Specialties. The titles of the four chapters are:

- Chapter A—Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms).
- Chapter B—Nurseries.
- Chapter C—Bulb farms.
- Chapter D—Flower-seed farms.

Summary statistics for all establishments are presented in the introduction.

In both Chapter A and Chapter B, data are presented for the United States, geographic divisions, States, and for counties. In order to avoid disclosure of information for individual establishments, data for counties having less than 3 establishments have been combined in "All other counties."

Chapters C and D present data for the United States and selected States, together with a residual "All other States."

Comparability of data for prior censuses.—Comparative data are not presented in this report for prior horticulture censuses for several reasons: First, in 1950, the data applied only to establishments with total sales of \$1,000 or more; whereas, in prior censuses, all establishments having any sales were included, provided these places qualified as farms under the Census definition. Second, the data on value of crops for the 1950 Census relate to the value of crops sold, calculated on the basis of the value at wholesale prices; whereas, the value of crops reported in prior censuses represents the value of the crops as they were sold, i.e., some at wholesale prices, others at retail prices.

Comparability of data obtained in the 1950 Census of Agriculture.—The data obtained in the special Census of Horticultural Specialties are not comparable with those obtained in the 1950 Census of Agriculture for several reasons: First, the Census of Agriculture includes data for all horticultural-specialty establishments qualifying as Census farms, whereas the special Census of Horticultural Specialties includes only those establishments having sales of \$1,000 or more. Second, the Census of Agriculture includes only totals for area and sales for a group of crops, while the special Census of Horticultural Specialties provides detailed data regarding individual crops. Third, the values reported for the Census of Agriculture represent the amount received by the farm operator when he sold the crops. This amount may represent sales at retail prices or at wholesale prices.

DEFINITIONS AND EXPLANATIONS

Definitions and explanations are presented only for those items for which the table descriptions are considered to be inadequate. The definitions consist primarily of a resume of the questions in the questionnaire. For the exact phrasing of the inquiries and the instructions included in the questionnaire, reference should be made to the facsimile of the related questionnaire shown in the appendix to each chapter.

Establishment represents the operations of an ownership or proprietorship engaged in the production for sale of horticultural-specialty products. Usually if the operations were carried on in more than one State, the operation in each State was considered an establishment. When an establishment was engaged in the operations covered by one of the other special censuses of horticultural specialties, the operations covered by each of the other censuses were considered as a separate establishment for Census purposes, providing the sales for the specific operations amounted to \$1,000 or more. In such cases, if separate records were not available for each operation, data for expenditures, value of structures, etc. were prorated among the several kinds of establishments on the basis of sales.

Type of organization represents types of ownership. Establishments are classified as individual proprietorships, partnerships, and corporations.

Total sales, for the purpose of this report, represent gross sales excluding returns and allowances. Sales include all wholesale sales and all retail sales of a given establishment. Sales include also the value of products sold on a commission basis and sales taxes.

Wholesale sales represent the total of wholesale sales to wholesale establishments and wholesale sales to retail and other establishments.

Wholesale sales to wholesale establishments represent the wholesale sales to establishments recognized as commission merchants, wholesale merchants, and other wholesale selling establishments (brokers, agents, assemblers, or others primarily engaged in wholesale trade and not engaged in production or retail trade). This type

of wholesale selling relates most frequently to cut flowers, cut greens, bulbs, and flower seed rather than to greenhouse potted plants and nursery stock.

Wholesale sales to retail and other establishments represent sales made directly to those engaged in production or in retail trade. This method is the primary means of wholesale distribution for nursery stock and greenhouse potted plants.

Retail sales represent all sales other than wholesale sales. This item includes goods and services purchased and resold at retail as well as products grown and sold at retail.

Value at wholesale prices of all crops sold represents the total obtained by adding the wholesale value of all individual crops sold as reported by a respondent. Respondents were asked to report the value at wholesale prices of each crop sold. Inasmuch as a large proportion of horticultural-specialty products are sold through wholesale channels; respondents did not have great difficulty in carrying out this instruction. In fact, more than half of the horticultural-specialty establishments reported all their sales through wholesale channels only.

Proprietors of unincorporated establishments include all those who, in the operation of individual proprietorships or partnerships, devoted in 1949 a major portion of their time to the business.

Unpaid family workers consist of the number of family members (wives, children, relatives, or others of the household of owners or managers) who worked at any time during the first two weeks of March 1949, but were not paid a wage or salary.

Paid officers of corporations consist of officers of incorporated establishments who were paid salaries.

All other paid employees for the pay period ending nearest March 15, 1949, include all hired persons, except paid corporation officers who were on the payroll at that time. In many cases, nurseries for example, this does not represent the maximum number of employees, because of the seasonal nature of this type of business.

Paid employees in year-round positions include all hired employees who are retained on the payroll throughout the year, with the exception of paid officers of corporations.

Expenditures for wages and salaries include all payments to employees and officers, but do not include any allowance for work performed by proprietors of unincorporated establishments, or unpaid family members.

Expenditures for manure and fertilizer include expenditures for commercial fertilizer and manure but do not include expenditures for topsoil.

Expenditures for insecticides and fungicides include those expenditures for such materials used for the production of horticultural-specialty products but do not include insecticides and fungicides purchased for resale.

Expenditures for seeds, plants, and bulbs for planting do not include expenditures for those items which were purchased for resale. The questionnaire provided for separation of the purchases for planting and those for resale. Because the question for purchases for resale did not include cut flowers and greens it was inadvisable to tabulate the data for this question.

Expenditures for coal, fuel oil, and gas include only coal, fuel oil, and gas purchased for heating of greenhouses and other production facilities. This item does not include fuel for use in automobiles, trucks, or tractors.

Expenditures for advertising include the usual expenditures for this purpose as well as the cost of catalogues and mailing pieces, dues paid to trade associations, and, in the case of establishments producing cut flowers and flowering or foliage plants, the amount paid to Allied associations.

INTRODUCTION

Table A.—ALL HORTICULTURAL SPECIALTIES—FARMS REPORTING, AREA, AND VALUE OF PRODUCTS SOLD: 1949

[The data given in this table are from the 1950 Census of Agriculture]

Division or State	Total value reported (dollars)	Nursery products (trees, shrubs, vines, ornamentals, etc.)			Flowers and flowering plants grown for sale						Vegetables grown under glass, flower seeds, vegetable seeds, vegetable plants, bulbs, and mushrooms produced for sale					
					Grown under glass		Grown in open		Sales		Grown under glass or in house		Grown in open		Sales	
		Farms re- porting	Acres	Sales (dollars)	Farms re- porting	Square feet	Farms re- porting	Acres	Farms re- porting	Dollars	Farms re- porting	Square feet	Farms re- porting	Acres	Farms re- porting	Dollars
1 U.S....	392,097,605	14,744	100,407	98,529,038	15,779	164,786,348	14,269	53,439	23,476	235,825,740	9,492	61,214,304	6,663	51,654	14,602	57,742,827
G. Divisions:																
2 N. England..	30,912,799	744	4,581	5,122,278	1,985	17,472,331	1,108	1,680	2,393	23,526,588	1,097	3,480,835	306	467	1,261	2,263,933
3 M. Atlantic.	87,115,601	2,022	17,079	14,025,263	4,004	42,077,321	2,580	6,910	5,117	57,474,797	2,661	21,503,293	809	2,813	3,076	15,615,541
4 E.N. Central	89,732,290	2,748	16,274	14,105,087	3,744	43,246,588	2,965	6,557	5,299	57,222,135	2,714	26,257,227	1,454	7,095	3,749	18,405,068
5 W.N. Central	31,570,178	1,036	10,421	11,411,155	1,257	14,945,503	998	3,366	1,670	17,891,327	906	3,262,454	375	768	1,124	2,267,696
6 S. Atlantic	43,444,113	2,838	19,852	15,916,709	1,215	9,706,073	2,267	17,467	2,806	23,384,931	567	1,474,014	884	10,518	1,344	4,142,473
7 E.S. Central	13,825,304	1,106	8,069	6,131,302	491	4,817,314	609	1,983	828	7,041,479	284	806,303	283	846	464	652,523
8 W.S. Central	18,761,821	1,478	14,264	8,986,824	919	5,335,348	874	3,106	1,409	8,807,792	355	385,483	374	1,389	666	967,205
9 Mountain...	12,111,049	427	990	2,186,150	473	6,629,313	424	559	731	8,049,053	237	593,025	588	6,498	785	1,875,846
10 Pacific....	64,624,450	2,345	8,877	20,644,270	1,691	20,556,557	2,444	11,811	3,223	32,427,638	671	3,451,670	1,590	21,260	2,133	11,552,542
New England:																
11 Maine.....	1,772,017	74	133	273,958	216	1,006,056	166	262	291	1,352,811	156	216,257	46	35	183	145,248
12 N.H.....	1,794,707	52	155	182,979	138	1,170,728	105	102	185	1,452,176	99	171,477	24	26	115	159,552
13 Vt.....	666,999	42	76	75,326	64	287,125	60	49	95	500,216	58	73,269	23	40	74	91,457
14 Mass.....	15,490,150	287	2,138	1,891,187	1,049	9,584,191	507	894	1,201	12,152,706	490	2,586,876	125	154	558	1,446,257
15 R.I.....	2,451,101	62	533	958,155	150	1,961,474	50	99	167	1,433,967	68	78,320	24	31	77	58,979
16 Conn.....	8,737,825	227	1,546	1,740,673	368	3,462,757	220	274	454	6,634,712	226	354,636	64	181	254	362,440
Mid. Atlantic:																
17 N.Y.....	34,485,970	768	7,161	6,186,559	1,538	16,228,423	1,005	3,332	1,961	23,537,742	936	6,103,044	360	1,558	1,127	4,761,669
18 N.J.....	19,221,107	449	4,202	4,209,765	911	9,636,879	674	1,956	1,209	13,672,167	423	2,153,376	171	951	494	1,339,175
19 Pa.....	33,408,524	805	5,716	3,628,939	1,555	16,212,019	901	1,622	1,947	20,264,888	1,302	13,246,873	278	304	1,455	9,514,697
E.N. Central:																
20 Ohio.....	29,846,592	720	5,182	4,118,562	1,139	11,796,611	768	1,443	1,485	15,457,947	921	18,044,357	316	597	1,097	10,270,083
21 Ind.....	12,465,044	378	2,001	1,900,034	552	6,148,401	461	945	814	8,608,428	396	2,830,054	181	373	500	1,956,582
22 Ill.....	23,645,447	434	3,326	3,258,945	772	15,750,876	535	1,954	1,023	17,777,161	428	2,099,853	452	3,509	806	2,609,341
23 Mich.....	15,994,307	838	4,439	3,672,826	767	5,566,291	782	1,593	1,261	9,622,948	575	2,355,761	340	2,278	845	2,698,533
24 Wis.....	7,780,900	378	1,326	1,154,720	514	3,984,409	419	622	716	5,755,651	394	927,202	165	338	501	870,529
W.N. Central:																
25 Minn.....	8,063,186	234	2,510	2,437,293	302	3,642,665	254	421	409	4,960,707	239	857,966	95	227	290	665,186
26 Iowa.....	8,450,928	187	3,747	4,035,727	235	3,105,684	168	443	315	3,990,261	159	461,008	56	59	196	424,940
27 Mo.....	8,394,169	205	1,467	2,521,172	303	5,137,856	260	2,058	403	5,206,288	186	1,051,753	106	335	247	666,709
28 N.Dak.....	478,497	45	373	241,098	25	157,695	18	20	32	213,514	17	24,465	7	12	23	23,885
29 S.Dak.....	637,122	47	562	321,420	33	274,861	23	20	42	281,676	27	25,966	10	10	33	34,026
30 Nebr.....	2,098,234	119	720	726,240	117	857,310	81	123	150	1,220,359	98	232,280	36	56	120	151,635
31 Kans.....	3,448,042	199	1,042	1,128,205	242	1,769,432	194	281	319	2,018,522	180	609,016	65	69	215	301,315
S. Atlantic:																
32 Del.....	1,872,311	26	1,113	984,312	37	434,755	28	46	53	607,765	29	331,601	14	43	36	280,234
33 Md.....	5,559,332	174	2,946	1,670,273	207	2,766,987	211	577	309	3,455,580	87	287,751	65	380	138	433,479
34 D.C.....	423,532	2	4	3,400	14	252,555	7	10	16	405,932	10	7,510	3	5	10	14,200
35 Va.....	6,038,675	213	5,786	2,722,737	171	1,578,531	338	2,270	413	3,132,703	106	114,329	91	274	181	183,235
36 W.Va.....	2,012,684	100	376	241,083	108	1,240,173	76	40	139	1,520,390	142	444,917	50	96	166	251,211
37 N.C.....	3,734,285	411	1,704	1,246,362	187	1,209,806	394	1,291	479	2,178,835	77	102,139	114	389	182	309,088
38 S.C.....	1,567,230	202	714	585,118	106	616,058	232	489	279	868,557	39	48,336	69	58	101	113,555
39 Ga.....	4,862,921	331	1,731	1,218,371	179	854,305	306	559	393	1,731,077	48	35,291	240	7,634	284	1,913,473
40 Fla.....	17,373,143	1,379	5,478	7,245,053	206	752,903	675	12,185	725	9,484,092	29	102,140	238	1,639	246	643,998
E.S. Central:																
41 Ky.....	2,604,510	112	734	737,036	121	1,561,406	95	127	151	1,589,873	94	547,251	58	133	126	277,601
42 Tenn.....	4,690,066	525	3,081	1,933,097	127	1,661,445	155	525	218	2,545,900	69	155,867	65	237	121	211,069
43 Ala.....	5,209,500	301	3,402	2,999,598	156	965,042	229	883	294	2,123,025	47	53,931	73	209	107	86,877
44 Miss.....	1,321,228	168	852	461,571	87	629,421	130	448	165	782,681	74	49,254	87	267	110	76,976
W.S. Central:																
45 Ark.....	1,169,884	147	779	482,150	84	440,423	80	169	130	614,746	50	55,107	65	67	106	72,988
46 La.....	1,889,276	266	1,342	1,012,896	109	501,119	182	517	236	804,820	38	58,656	58	58	87	71,560
47 Okla.....	3,886,275	158	1,970	1,490,927	197	1,757,613	100	146	227	2,215,811	110	148,416	57	149	147	179,537
48 Tex.....	11,816,386	907	10,173	6,000,851	529	2,636,193	512	2,274	816	5,172,415	157	123,304	194	1,115	326	643,120
Mountain:																
49 Mont.....	895,208	50	80	276,945	66	534,042	41	43	79	573,887	55	39,849	19	23	66	44,376
50 Idaho.....	1,261,802	58	108	214,133	58	349,581	62	120	91	328,747	45	72,004	251	2,815	284	718,922
51 Wyo.....	254,854	13	13	7,600	29	101,608	11	4	34	74,150	24	29,891	79	1,246	101	173,104
52 Colo.....	6,754,092	115	385	515,703	196	4,505,414	153	229	298	5,604,696	55	364,449	153	1,751	198	633,693
53 N.Mex.....	547,548	36	125	157,222	28	236,052	32	25	48	369,701	17	25,291	8	6	24	20,625
54 Ariz.....	861,266	82	147	570,410	22	114,566	38	26	50	176,541	10	9,171	27	391	35	114,315
55 Utah.....	1,409,535	67	126	427,857	67	774,954	82	110	120	902,663	28	51,148	33	61	57	79,015
56 Nev.....	126,744	6	6	16,280	7	13,096	5	2	11	18,668	3	1,222	18	205	20	91,7

Size of establishment refers to the classification of establishments by size of operation on the basis of the total value at wholesale prices of all crops sold.

Value of land, structures, and equipment includes the value of structures directly connected with the business. In some instances, it may include the value of the operator's residence and other structures, not directly connected with the business, on the place where the production and selling operations are performed.

Greenhouse area represents the square feet of land covered by greenhouse structures. It does not include frame area or any area for producing propagated mushrooms. In the average greenhouse establishment two-thirds of the amount reported can be considered as the square footage of bench or bed area.

Greenhouse area used primarily for growing florists' crops includes the area devoted to the production of bedding and vegetable plants while the **greenhouse area used primarily for growing vegetable crops** represents the area used for the production of finished hothouse vegetable crops. In the event that a given area was used during the year for the rotation of flower and vegetable crops, one-half of the area was allotted to each of the two crops.

Area of frames, cloth houses, and lath houses represents the square feet of land area covered.

Storage-house floor area consists of the square feet of floor area regardless of whether there is more than one story in the structure.

Refrigerated storage represents the capacity in cubic feet of such facilities. The floor area of the refrigerated storage space is included in the area for storage-house floor area.

Units of measurement reported for specified crops sold have been reduced to single units, with the exception of pompon chrysanthemums, which are reported as bunches, although the questionnaire permitted the respondent to report sales in units commonly used in trade practice, such as tens, dozens, twenty-fives, hundreds, thousands, cubic volume, or weight.

RELIABILITY OF DATA

There are no reliable data with which statistics secured in the special Census of Horticultural Specialties can be compared. The enumeration of general data for horticultural-specialty products in the 1950 Census of Agriculture provided an independent source for checking the list of horticultural establishments compiled from other sources.

The information obtained from the individual establishments was examined during the office processing. Questionable entries were examined by technical personnel and, in case of important items, questionable information was verified or corrected on the basis of correspondence with the establishment.

It is believed that the coverage of establishments is at least 97 percent complete. The limiting of this special census to establishments having sales of \$1,000 or more, made it possible to obtain relatively complete reports for all establishments as the very small establishments with inadequate records were excluded from the census. For establishments having about 2 percent of the total sales of all establishments, it was necessary to estimate detailed data for the quantity of crops sold, the value of crops at wholesale prices, etc. These estimates were based upon data obtained in the 1950 Census of Agriculture, State certification reports, and reports for establishments producing similar crops or products.

SUMMARY OF DATA

Agricultural importance of horticultural-specialty establishments.—Establishments producing horticultural-specialty products, and con-

taining 3 or more acres, were included in the 1950 Census of Agriculture and were counted as census farms provided that the value of agricultural products produced in 1949 amounted to \$150 or more. Likewise, horticultural-specialty establishments having less than 3 acres were included in the Census of Agriculture and counted as census farms if the value of products sold in 1949 totaled \$150 or more.

Farms reporting nursery products in the 1950 Census of Agriculture totaled 14,744 or 0.3 percent of all farms. Farms reporting flowers and flowering or foliage plants grown under glass or in the open totaled 23,476, or 0.4 percent of all farms. A total of 14,602 farms, or 0.3 percent of all farms, reported vegetables grown under glass, flower and vegetable seeds, vegetable plants, bulbs, and mushrooms produced and sold in 1949.

The value of horticultural-specialty products reported sold in 1949 according to the 1950 Census of Agriculture was \$392,097,605, or 1.8 percent of the value of all farm products sold. However, the value of horticultural-specialty products sold represented more than 5 percent of the value of all farm products sold in 7 States (Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and Florida).

Horticultural-specialty establishments covered by special census.—A total of 17,400 establishments were included in the special census of horticultural-specialty establishments. This number represents only about one-third of the farms reported as producing horticultural-specialty products according to the 1950 Census of Agriculture. However, only those farms reporting sales of horticultural-specialty products of \$1,000 or more were included in the special census. Moreover, farms producing vegetable seeds and vegetable plants grown outdoors were included in the Census of Agriculture but were not included in the special horticultural-specialty census. On the basis of available data, farms having sales of less than \$1,000 of horticultural-specialty products probably account for less than 2 percent of the total sales of these products. Data from the special Census of Horticultural Specialties show that establishments having sales of \$1,000 to \$9,999 account for only 7.7 percent of all sales for all establishments.

Table B.—NUMBER OF ESTABLISHMENTS, 1950, AND TOTAL SALES IN 1949, FOR ALL HORTICULTURAL-SPECIALTY ESTABLISHMENTS

Item	Establishments, 1950		Total sales in 1949	
	Number	Percent distribution	Dollars	Percent distribution
Total establishments.....	17,400	100.0	467,346,986	100.0
With sales of \$1,000 to \$9,999.....	1,581	49.0	36,128,054	7.7
\$10,000 and over.....	15,819	51.0	431,218,932	92.3

¹ Same establishments included in more than one special horticultural-specialty census have been counted only once.

Size of establishment.—Establishments have been classified by size on the basis of the wholesale value of all crops sold. Of the 18,000 establishments included in the special census, 5,624, or 31.2 percent, had a value of crops at a wholesale price of \$10,000 or more. These establishments with crop values of \$10,000 or more reported 74.9 percent of total sales, 89.5 percent of all wholesale sales, 58.1 percent of retail sales, and 84.9 percent of the wholesale value of all crops sold.

Number of establishments by kind of establishment.—Of the 18,000 establishments included in the special Census of Horticultural Specialties, 12,427, or 69 percent, were engaged in the production of cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms); 4,643, or 25.8 percent, were nurseries; 870, or 4.8 percent, were bulb farms; and 60, or 0.3 percent, were flower-seed farms.

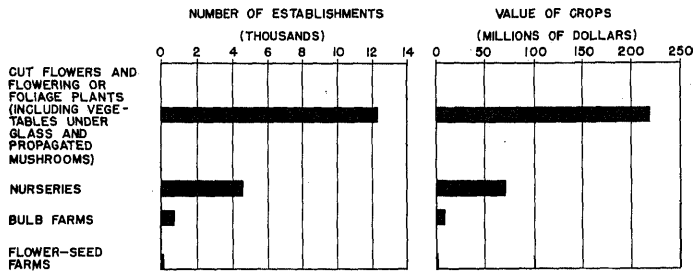
Table C.—SALES AND VALUE OF CROPS AT WHOLESALE PRICES, FOR ALL HORTICULTURAL-SPECIALTY ESTABLISHMENTS, BY SIZE OF ESTABLISHMENT: 1949

Item	Establishments		Total sales		Wholesale sales		Retail sales		Value of crops at wholesale prices	
	Number	Percent distribution	Dollars	Percent distribution	Dollars	Percent distribution	Dollars	Percent distribution	Dollars	Percent distribution
Total.....	18,000	100.0	467,346,986	100.0	249,814,924	100.0	217,532,062	100.0	300,637,657	100.0
Establishments with a value of crops at wholesale prices of—										
Less than \$10,000.....	12,376	68.8	117,223,921	25.1	26,182,230	10.5	91,041,691	41.9	45,434,942	15.1
\$10,000 and over.....	5,624	31.2	350,123,065	74.9	223,632,694	89.5	126,490,371	58.1	255,202,715	84.9

¹Establishments included in more than one special horticultural-specialty census have been counted in each special census for which they qualified.

Sales and value of crops by kind of establishment.—The total value of sales for all horticultural establishments was \$467,346,986 in 1949. Almost 70 percent of this amount was reported by establishments producing cut flowers and flowering or foliage plants (including vegetables under glass and propagated mushrooms), while over one-fourth of the total sales was reported by nurseries. Bulb farms and flower-seed farms accounted for less than 3 percent of total sales for all establishments.

ALL HORTICULTURAL-SPECIALTY ESTABLISHMENTS—NUMBER OF ESTABLISHMENTS, 1950, AND VALUE OF CROPS AT WHOLESALE PRICES, 1949, BY KIND OF ESTABLISHMENT, FOR THE UNITED STATES



Wholesale sales for all establishments amounted to \$249,814,924, or 53.5 percent of all sales. Wholesale sales represented almost three-fifths of total sales of establishments producing cut flowers and flowering or foliage plants (including vegetables under glass and propagated mushrooms), four-fifths of the total sales of bulb farms, and over nine-tenths of the total sales of flower-seed farms.

The bulk of wholesale sales of nurseries was made to retail and other establishments and over half of the wholesale sales of establishments producing cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms) and of bulb farms was made to other wholesale establishments.

Retail sales of all establishments totaled \$217,532,062. Over three-fifths of the value of retail sales was reported by establishments producing cut flowers and flowering or foliage plants and almost two-fifths by nurseries. The retail sales of bulb farms and flower-seed farms amounted to less than 2 percent of all retail sales.

The value of all crops sold, calculated at wholesale prices totaled \$300,637,657. Almost three-fourths of the value of all crops was reported by establishments growing cut flowers and flowering or foliage plants, while nurseries accounted for almost all of the other fourth of the value of all crops sold. The value of crops represented slightly more than half of the total sales for nurseries, and two-thirds of the total sales for establishments producing cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms).

Employment.—Employment in all horticultural-specialty establishments totaled 121,873 persons. Employment in establishments producing cut flowers and flowering or foliage plants accounted for approximately two-thirds, and employment in nurseries for approximately

one-third of all persons employed in all establishments. Paid employees comprised over seven-tenths of all employees. Establishments with a crop value of \$10,000 and over, had over three-fifths of the total number of employees although they comprised less than one-third of all establishments.

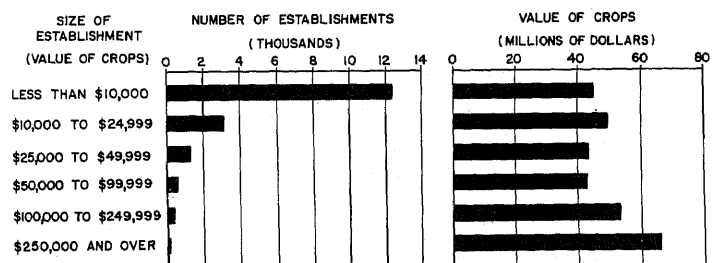
Expenditures.—The total expenditures for wages and salaries, manure and fertilizer; insecticides and fungicides; seeds, plants, and bulbs for planting; fuel; and advertising amounted to \$204,453,187. Wages and salaries comprised 70.3 percent; manure and fertilizer, 4.5 percent; insecticides and fungicides, 1.5 percent; seeds, plants, and bulbs for planting, 11.3 percent; fuel, 8.2 percent; and advertising, 4.2 percent of the total of specified expenditures. Over 68 percent of the total specified expenditures for all establishments was reported by establishments producing cut flowers and flowering or foliage plants and 29.0 percent by nursery establishments. Nearly 98 percent of the expenditures for fuel was reported by establishments producing cut flowers and flowering or foliage plants.

Structures and equipment.—The value of land, structures, and equipment for all establishments was \$466,174,107. Establishments producing cut flowers and flowering or foliage plants reported over 72 percent, and nurseries over 23 percent, of the value of land, structures, and equipment reported by all establishments. Greenhouses were reported by 11,244 establishments. The area of greenhouses covered 191,400,495 square feet. Almost 98 percent of the greenhouse area was reported by establishments producing cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms).

Establishments by type of organization.—Individuals and partnerships operated 93 percent of all horticultural-specialty establishments. Corporations operated only 7 percent of all establishments. Over 97 percent of the establishments with a crop value of less than \$10,000 were operated by individuals and partnerships.

Number of establishments by size.—Over half of the value of crops at wholesale prices was produced by the 1,134 establishments having a crop value of \$50,000 and over. Establishments with a crop value of \$100,000 to \$249,999 represented 2.0 percent of all establishments, but accounted for 17.6 percent of the value of all crops at wholesale prices. The 140 establishments with a crop value of \$250,000 or more reported 21.9 percent of the value of all crops at wholesale prices.

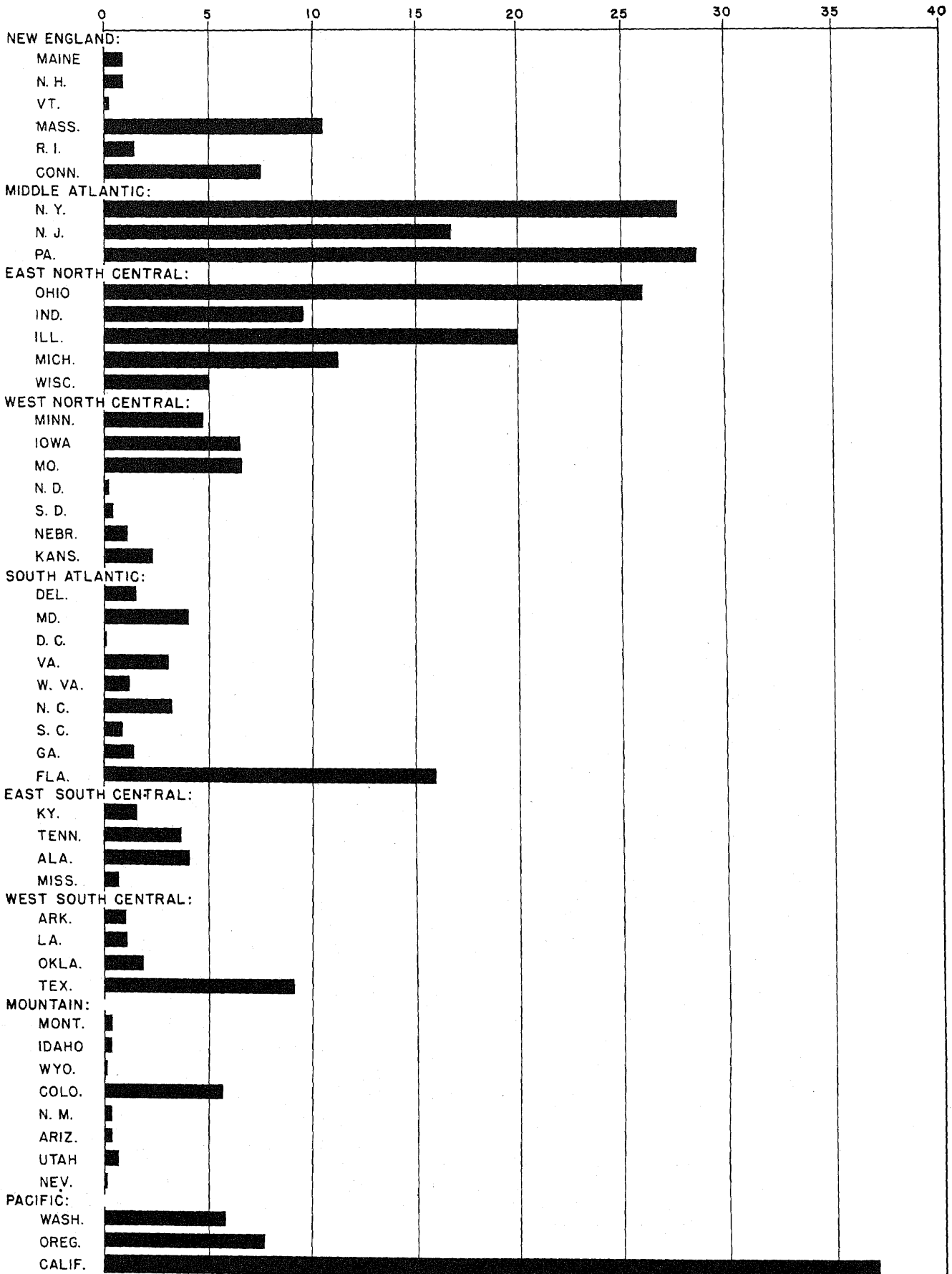
ALL HORTICULTURAL-SPECIALTY ESTABLISHMENTS—NUMBER OF ESTABLISHMENTS, 1950, AND VALUE OF CROPS AT WHOLESALE PRICES, 1949, BY SIZE OF ESTABLISHMENT, FOR THE UNITED STATES



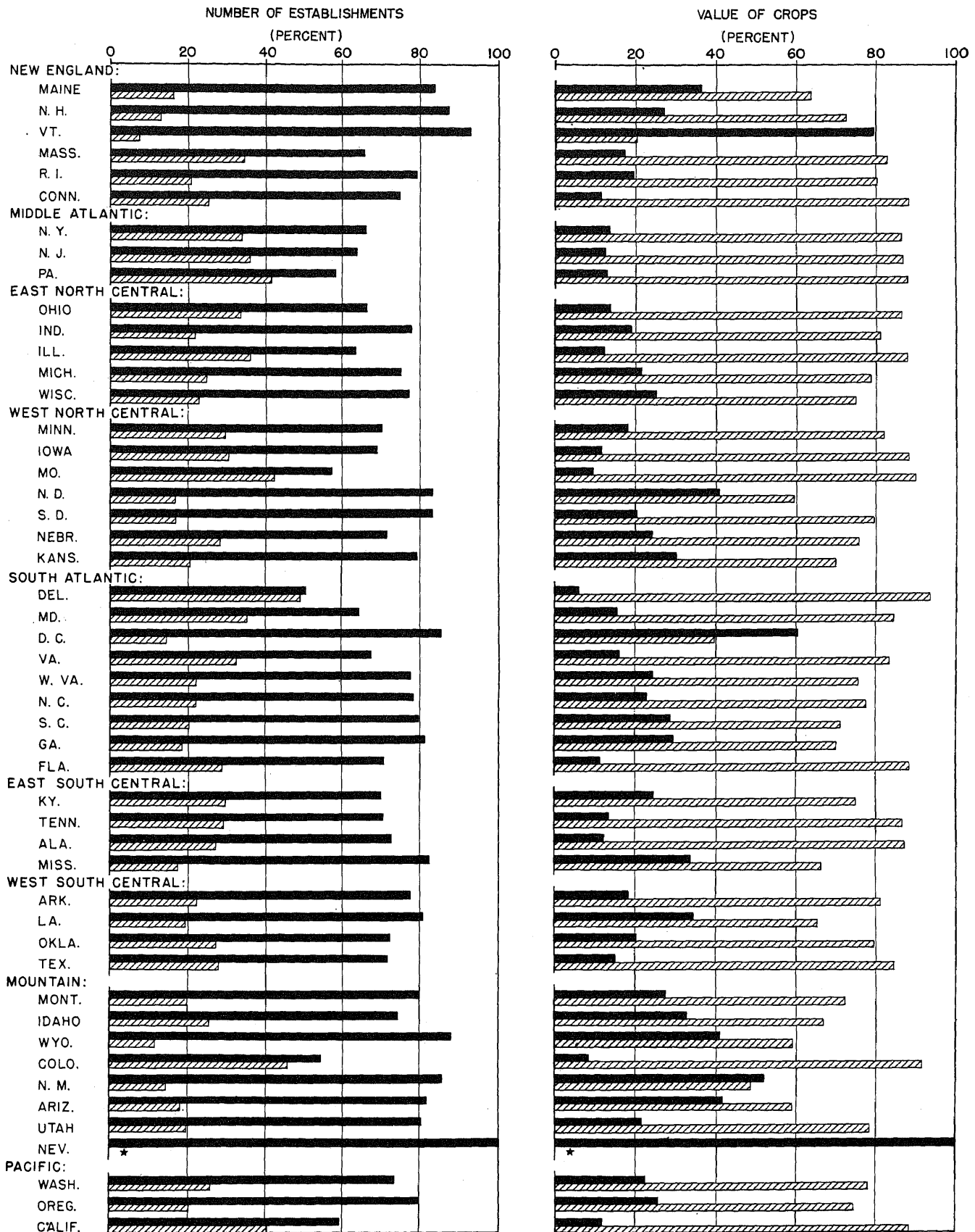
HORTICULTURAL SPECIALTIES

ALL HORTICULTURAL - SPECIALTY ESTABLISHMENTS—VALUE OF CROPS
AT WHOLESALE PRICES, BY STATES, 1949

MILLIONS OF DOLLARS



ALL HORTICULTURAL - SPECIALTY ESTABLISHMENTS—PERCENT DISTRIBUTION OF THE NUMBER OF ESTABLISHMENTS, 1950, AND THE VALUE OF CROPS AT WHOLE-SALE PRICES, 1949, BY SIZE OF ESTABLISHMENT, BY STATES



■ ESTABLISHMENTS WITH VALUE OF CROPS LESS THAN \$10,000
 ▨ ESTABLISHMENTS WITH VALUE OF CROPS \$10,000 OR MORE
 ★ NONE REPORTED

INTRODUCTION

United States Summary Table 1.—SALES AND VALUE OF CROPS AT WHOLESALE PRICES, FOR ALL ESTABLISHMENTS, BY KIND OF ESTABLISHMENT: 1949

Item	All establishments, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
SALES					
Total sales.....	18,000	12,427	4,643	870	60
establishments reporting..	100.0	69.0	25.8	4.8	0.3
percent distribution..	467,346,986	321,924,603	132,808,336	10,690,965	1,923,082
Value of sales.....	25,964	25,905	28,604	12,288	32,051
dollars..	100.0	68.9	28.4	2.3	0.4
average per establishment reporting..	12,797	9,112	2,831	795	59
percent of total sales..	100.0	71.2	22.1	6.2	0.5
percent distribution..	249,814,924	189,445,801	50,106,067	8,461,432	1,801,624
Value of sales.....	19,521	20,791	17,699	10,643	30,536
dollars..	53.5	58.8	37.7	79.1	93.7
average per establishment reporting..	100.0	75.8	20.1	3.4	0.7
percent of total sales..	6,544	5,667	282	549	46
percent distribution..	100.0	86.6	4.3	8.4	0.7
To wholesale establishments.....	115,720,284	108,197,026	2,724,334	4,319,185	479,739
establishments reporting..	17,683	19,092	9,661	7,867	10,429
dollars..	46.3	57.1	5.4	51.0	26.6
average per establishment reporting..	100.0	93.5	2.4	3.7	0.4
percent of all wholesale sales..	8,480	5,440	2,715	309	16
percent distribution..	100.0	64.2	32.0	3.6	0.2
To retail and other establishments.....	134,094,640	81,248,775	47,381,733	4,142,247	1,321,885
establishments reporting..	15,813	14,935	17,452	13,405	82,618
dollars..	53.7	42.9	35.3	49.0	73.4
average per establishment reporting..	100.0	60.6	35.3	3.1	1.0
percent of all wholesale sales..	10,728	6,981	3,557	186	4
percent distribution..	100.0	65.1	33.2	1.7	(1)
Value of sales.....	217,532,062	132,478,802	82,702,269	2,229,533	121,458
dollars..	20,277	18,977	23,251	11,987	30,364
average per establishment reporting..	46.5	41.2	62.3	20.9	6.3
percent of total sales..	100.0	60.9	38.0	1.0	0.1
percent distribution..	VALUE OF CROPS				
Value of crops at wholesale prices.....	18,000	12,427	4,643	870	60
establishments reporting..	100.0	69.0	25.8	4.8	0.3
percent distribution..	300,637,657	218,521,725	71,052,719	9,236,989	1,826,226
Value of crops.....	16,706	17,590	15,303	10,617	30,437
dollars..	64.3	67.9	53.5	86.4	95.0
average per establishment reporting..	100.0	72.7	23.6	3.1	0.6
percent of total sales..					
percent distribution..					

¹Less than 0.05 percent.

United States Summary Table 2.—SALES AND VALUE OF CROPS AT WHOLESALE PRICES, FOR ESTABLISHMENTS WITH A CROP VALUE OF LESS THAN \$10,000, BY KIND OF ESTABLISHMENT: 1949

Item	Establishments with a crop value of less than \$10,000, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
SALES					
Total sales.....	12,376	8,189	3,462	681	44
establishments reporting..	100.0	66.2	28.0	5.5	0.4
percent distribution..	117,223,921	84,610,429	29,592,758	2,756,094	264,640
Value of sales.....	9,472	10,332	8,548	4,047	6,015
dollars..	100.0	72.2	25.2	2.4	0.2
average per establishment reporting..	7,751	5,265	1,828	615	43
percent of total sales..	100.0	67.9	23.6	7.9	0.6
percent distribution..	26,182,230	18,708,310	5,253,487	2,041,551	178,882
Value of sales.....	3,378	3,553	2,874	3,320	4,160
dollars..	22.3	22.1	17.8	74.1	67.6
average per establishment reporting..	100.0	71.4	20.1	7.8	0.7
percent of total sales..	3,501	2,875	152	435	39
percent distribution..	100.0	82.1	4.3	12.4	1.1
To wholesale establishments.....	11,664,842	9,750,912	303,924	1,458,052	151,954
establishments reporting..	3,332	3,392	2,000	3,352	3,896
dollars..	44.6	52.1	5.8	71.4	84.9
average per establishment reporting..	100.0	83.6	2.6	12.6	1.3
percent of all wholesale sales..	5,303	3,337	1,741	220	5
percent distribution..	100.0	62.9	32.8	4.1	0.1
To retail and other establishments.....	14,517,388	8,957,398	4,949,563	583,499	26,928
establishments reporting..	2,738	2,684	2,843	2,652	5,386
dollars..	55.4	47.9	94.2	28.6	15.1
average per establishment reporting..	100.0	61.7	34.1	4.0	0.2
percent of all wholesale sales..	8,189	5,304	2,733	150	2
percent distribution..	100.0	64.8	33.4	1.8	(1)
Value of sales.....	91,041,691	65,902,119	24,339,271	714,543	85,758
dollars..	11,118	12,425	8,906	4,764	42,879
average per establishment reporting..	77.9	77.9	82.2	25.9	32.4
percent of total sales..	100.0	72.4	26.7	0.8	0.1
percent distribution..	VALUE OF CROPS				
Value of crops at wholesale prices.....	12,376	8,189	3,462	681	44
establishments reporting..	100.0	66.2	28.0	5.5	0.4
percent distribution..	45,434,942	31,658,028	11,298,846	2,291,674	186,394
Value of crops.....	3,671	3,866	3,264	3,365	4,236
dollars..	38.8	37.4	38.2	83.1	70.4
average per establishment reporting..	100.0	69.7	24.9	5.0	0.4
percent of total sales..					
percent distribution..					

¹Less than 0.05 percent.

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United States Summary Table 3.—SALES AND VALUE OF CROPS AT WHOLESALE PRICES, FOR ESTABLISHMENTS WITH A CROP VALUE OF \$10,000 AND OVER, BY KIND OF ESTABLISHMENT: 1949

Item	Establishments with a crop value of \$10,000 and over, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
SALES					
Total sales.....	5,624	4,238	1,181	189	16
establishments reporting..	100.0	75.4	21.0	3.4	0.3
percent distribution..	350,123,065	237,314,174	103,215,578	7,934,871	1,658,442
Value of sales.....	62,255	55,997	87,397	41,983	103,653
average per establishment reporting..	100.0	67.8	29.5	2.3	0.5
percent distribution..	5,046	3,847	1,003	180	16
All wholesale sales.....	100.0	76.2	19.9	3.6	0.3
Value of sales.....	223,632,694	170,737,491	44,852,580	6,419,881	1,622,742
average per establishment reporting..	44,319	44,382	44,718	35,666	101,421
percent of total sales..	63.9	71.9	43.5	80.9	97.8
percent distribution..	100.0	76.3	20.1	2.9	0.7
To wholesale establishments.....	3,043	2,792	130	114	7
establishments reporting..	100.0	91.8	4.3	3.7	0.2
percent distribution..	104,055,442	98,446,114	2,420,410	2,861,133	327,785
Value of sales.....	34,195	35,260	18,619	25,098	46,826
average per establishment reporting..	46.5	57.7	5.4	44.6	20.2
percent of all wholesale sales..	100.0	94.6	2.3	2.7	0.3
percent distribution..	3,177	2,103	974	89	11
To retail and other establishments.....	100.0	66.2	30.7	2.8	0.3
Value of sales.....	119,577,252	72,291,377	42,432,170	3,558,748	1,294,957
average per establishment reporting..	37,638	34,375	43,565	39,986	117,723
percent of all wholesale sales..	33.5	42.3	94.6	55.4	79.8
percent distribution..	100.0	60.5	35.5	3.0	1.1
All retail sales.....	2,539	1,677	824	36	2
establishments reporting..	100.0	66.0	32.5	1.4	0.1
percent distribution..	126,490,371	66,576,683	58,362,998	1,514,990	35,700
Value of sales.....	49,819	39,700	70,829	42,083	17,850
average per establishment reporting..	36.1	28.1	56.5	19.1	2.2
percent of total sales..	100.0	52.6	46.1	1.2	(¹)
percent distribution..	VALUE OF CROPS				
Value of crops at wholesale prices.....	5,624	4,238	1,181	189	16
establishments reporting..	100.0	75.4	21.0	3.4	0.3
percent distribution..	255,202,715	186,863,695	59,753,873	6,945,315	1,639,832
Value of crops.....	45,377	44,092	50,596	36,748	102,490
average per establishment reporting..	72.9	78.7	57.9	87.5	98.9
percent of total sales..	100.0	73.2	23.4	2.7	0.6
percent distribution..					

¹ Less than 0.05 percent.

United States Summary Table 4.—EMPLOYMENT, FOR ALL ESTABLISHMENTS, BY KIND OF ESTABLISHMENT: 1949

Item	All establishments, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
Total employment.....	18,000	12,427	4,643	870	60
establishments reporting..	100.0	69.0	25.8	4.8	0.3
Persons.....	121,873	77,954	36,228	5,121	570
average per establishment reporting..	6.77	6.27	8.23	5.89	9.60
percent distribution..	100.0	64.0	31.4	4.2	0.5
Proprietors of unincorporated establishments.....	16,478	11,425	4,203	803	47
establishments reporting..	100.0	69.3	25.5	4.9	0.3
Persons.....	19,946	14,030	4,962	888	66
percent of total employment..	16.4	18.0	13.0	17.3	11.6
percent distribution..	100.0	70.3	24.9	4.5	0.3
Unpaid family workers.....	8,251	6,016	1,900	323	12
establishments reporting..	100.0	72.9	23.0	3.9	0.1
Persons.....	12,888	9,340	3,027	503	18
percent of total employment..	10.6	12.0	7.9	9.8	3.2
percent distribution..	100.0	72.5	23.5	3.9	0.1
Paid officers of corporations.....	1,125	724	370	25	6
establishments reporting..	100.0	64.4	32.9	2.2	0.5
Persons.....	2,744	1,753	922	50	19
percent of total employment..	2.3	2.2	2.4	1.0	3.3
percent distribution..	100.0	63.9	33.6	1.8	0.7
All other paid employees (for pay period March 15, 1949).....	12,606	8,753	3,306	511	36
establishments reporting..	100.0	69.4	26.2	4.1	0.3
Persons.....	86,295	52,831	29,317	3,680	467
percent of total employment..	70.8	67.8	76.7	71.9	81.9
percent distribution..	100.0	61.2	34.0	4.3	0.5
Paid employees in year-round positions.....	8,902	6,553	2,096	234	19
establishments reporting..	100.0	73.6	23.5	2.6	0.2
Persons.....	48,194	32,486	14,661	805	242
percent of all other paid employees..	55.8	61.5	50.0	21.9	51.8
percent distribution..	100.0	67.4	30.4	1.7	0.5

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United States Summary Table 5.—EMPLOYMENT, FOR ESTABLISHMENTS WITH A CROP VALUE OF LESS THAN \$10,000, BY KIND OF ESTABLISHMENT: 1949

Item	Establishments with a crop value of less than \$10,000, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
Total employment.....	12,376	8,189	3,462	681	44
establishments reporting..	100.0	66.2	28.0	5.5	0.4
Persons.....	46,505	29,602	14,295	2,462	146
average per establishment reporting, number..	3.76	3.61	4.13	3.62	3.32
percent distribution..	100.0	63.7	30.7	5.3	0.3
Proprietors of unincorporated establishments.....	11,831	7,829	3,319	646	37
establishments reporting..	100.0	66.2	28.1	5.5	0.3
Persons.....	13,513	9,031	3,744	690	48
percent of total employment..	29.1	30.5	26.2	28.0	32.9
percent distribution..	100.0	66.8	27.7	5.1	0.4
Unpaid family workers.....	6,484	4,601	1,593	279	11
establishments reporting..	100.0	71.0	24.6	4.3	0.2
Persons.....	9,904	6,974	2,511	402	17
percent of total employment..	21.3	23.6	17.6	16.3	11.6
percent distribution..	100.0	70.4	25.4	4.1	0.2
Paid officers of corporations.....	233	130	96	5	2
establishments reporting..	100.0	55.8	41.2	2.1	0.9
Persons.....	411	237	161	9	4
percent of total employment..	0.9	0.8	1.1	0.4	2.7
percent distribution..	100.0	57.7	39.2	2.2	1.0
All other paid employees (for pay period March 15, 1949).....	7,136	4,632	2,151	332	21
establishments reporting..	100.0	64.9	30.1	4.7	0.3
Persons.....	22,677	13,360	7,879	1,361	77
percent of total employment..	48.8	45.1	55.1	55.3	52.7
percent distribution..	100.0	58.9	34.7	6.0	0.3
Paid employees in year-round positions.....	3,860	2,733	1,035	85	7
establishments reporting..	100.0	70.8	26.8	2.2	0.2
Persons.....	7,938	5,514	2,272	139	13
percent of all other paid employees..	35.0	41.3	28.8	10.2	16.9
percent distribution..	100.0	69.5	28.6	1.8	0.2

United States Summary Table 6.—EMPLOYMENT, FOR ESTABLISHMENTS WITH A CROP VALUE OF \$10,000 AND OVER, BY KIND OF ESTABLISHMENT: 1949

Item	Establishments with a crop value of \$10,000 and over, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
Total employment.....	5,624	4,238	1,181	189	16
establishments reporting..	100.0	75.4	21.0	3.4	0.3
Persons.....	75,368	48,352	23,933	2,659	424
average per establishment reporting, number..	13.40	11.41	20.27	14.07	26.50
percent distribution..	100.0	64.2	31.8	3.5	0.6
Proprietors of unincorporated establishments.....	4,647	3,596	884	157	10
establishments reporting..	100.0	77.4	19.0	3.4	0.2
Persons.....	6,433	4,999	1,218	198	18
percent of total employment..	8.5	10.3	5.1	7.4	4.2
percent distribution..	100.0	77.7	18.9	3.1	0.3
Unpaid family workers.....	1,767	1,415	307	44	1
establishments reporting..	100.0	80.1	17.4	2.5	0.1
Persons.....	2,984	2,366	516	101	1
percent of total employment..	4.0	4.9	2.2	3.8	0.2
percent distribution..	100.0	79.3	17.3	3.4	(¹)
Paid officers of corporations.....	892	594	274	20	4
establishments reporting..	100.0	66.6	30.7	2.2	0.4
Persons.....	2,333	1,516	761	41	15
percent of total employment..	3.1	3.1	3.2	1.5	3.5
percent distribution..	100.0	65.0	32.6	1.8	0.6
All other paid employees (for pay period March 15, 1949).....	5,470	4,121	1,155	179	15
establishments reporting..	100.0	75.3	21.1	3.3	0.3
Persons.....	63,618	39,471	21,438	2,319	390
percent of total employment..	84.4	81.6	89.6	87.2	92.0
percent distribution..	100.0	62.0	33.7	3.6	0.6
Paid employees in year-round positions.....	5,042	3,820	1,061	149	12
establishments reporting..	100.0	75.8	21.0	3.0	0.2
Persons.....	40,256	26,972	12,389	666	229
percent of all other paid employees..	63.3	68.3	57.8	28.7	58.7
percent distribution..	100.0	67.0	30.8	1.7	0.6

¹Less than 0.05 percent.

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United States Summary Table 7.—SPECIFIED EXPENDITURES, FOR ALL ESTABLISHMENTS, BY KIND OF ESTABLISHMENT: 1949

Item	All establishments, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
Specified expenditures, total.....	18,000	12,427	4,643	870	60
establishments reporting..	100.0	69.0	25.8	4.8	0.3
percent distribution..					
Amount expended.....	204,453,187	139,162,990	59,212,856	5,083,733	993,608
dollars..	11,359	11,198	12,753	5,843	16,560
average per establishment reporting..	100.0	68.1	29.0	2.5	0.5
percent distribution..					
Wages and salaries paid:					
Officers of corporations.....	1,125	724	370	25	6
establishments reporting..	100.0	64.4	32.9	2.2	0.5
percent distribution..					
Amount expended.....	14,037,196	8,888,521	4,797,416	247,421	103,838
dollars..	12,478	12,277	12,966	9,897	17,306
average per establishment reporting..	5,116	5,070	5,203	4,948	5,465
dollars..	100.0	63.3	34.2	1.8	0.7
percent distribution..					
All other paid employees.....	14,373	9,839	3,773	715	46
establishments reporting..	100.0	68.5	26.2	5.0	0.3
percent distribution..					
Amount expended.....	129,730,903	84,417,839	41,481,332	3,105,066	726,666
dollars..	9,026	8,580	10,994	4,343	15,797
average per establishment reporting..	27.8	26.2	31.2	29.0	37.8
dollars..	100.0	65.1	31.9	2.4	0.6
percent of total sales..					
percent distribution..					
Year-round employees.....	8,902	6,553	2,096	234	19
establishments reporting..	100.0	73.6	23.5	2.6	0.2
percent distribution..					
Amount expended.....	97,049,988	68,294,921	26,769,845	1,492,163	493,059
dollars..	10,902	10,422	12,772	6,377	25,950
average per establishment reporting..	2,014	2,102	1,826	1,854	2,037
dollars..	100.0	70.4	27.6	1.5	0.5
percent distribution..					
Part-time or seasonal employees.....	12,329	8,193	3,419	675	42
establishments reporting..	100.0	66.5	27.7	5.5	0.3
percent distribution..					
Amount expended.....	32,680,915	16,122,918	14,711,487	1,612,903	233,607
dollars..	2,651	1,968	4,303	2,389	5,562
average per establishment reporting..	100.0	49.3	45.0	4.9	0.7
percent distribution..					
Manure and fertilizer.....	17,203	12,062	4,282	804	55
establishments reporting..	100.0	70.1	24.9	4.7	0.3
percent distribution..					
Amount expended.....	9,194,653	6,800,819	2,095,433	261,811	36,590
dollars..	534	564	489	326	665
average per establishment reporting..	3.1	3.1	2.9	2.8	2.0
dollars..	100.0	74.0	22.8	2.8	0.4
percent of value of all crops..					
percent distribution..					
Insecticides and fungicides.....	16,694	11,769	4,125	748	52
establishments reporting..	100.0	70.5	24.7	4.5	0.3
percent distribution..					
Amount expended.....	2,977,805	2,141,739	751,347	70,316	14,403
dollars..	178	182	182	94	277
average per establishment reporting..	1.0	1.0	1.1	0.8	0.8
dollars..	100.0	71.9	25.2	2.4	0.5
percent of value of all crops..					
percent distribution..					
Seeds, plants, and bulbs for planting.....	15,642	11,348	3,579	673	42
establishments reporting..	100.0	72.5	22.9	4.3	0.3
percent distribution..					
Amount expended.....	23,001,323	17,280,428	4,855,030	842,025	23,840
dollars..	1,470	1,523	1,357	1,251	568
average per establishment reporting..	7.6	7.9	6.8	9.1	1.3
dollars..	100.0	75.1	21.1	3.7	0.1
percent of value of all crops..					
percent distribution..					
Fuel:					
Amount expended, total.....	16,866,196	16,507,208	346,602	5,869	6,517
dollars..	0.09	0.09	0.09	0.04	0.07
Cost per square foot of greenhouse area..					
Coal.....	7,866	7,285	559	12	10
establishments reporting..	100.0	92.6	7.1	0.2	0.1
percent distribution..					
Quantity purchased.....	1,405,288	1,390,277	14,042	333	636
tons..	100.0	98.9	1.0	(1)	(1)
percent distribution..					
Amount expended.....	12,480,482	12,311,067	160,315	3,644	5,456
dollars..	1,587	1,690	287	304	546
average per establishment reporting..	8.88	8.86	11.42	10.94	8.58
dollars..	100.0	98.6	1.3	(1)	(1)
average per ton..					
percent distribution..					
Fuel oil.....	2,643	2,188	439	14	2
establishments reporting..	100.0	82.8	16.6	0.5	0.1
percent distribution..					
Quantity purchased.....	42,962,102	41,706,177	1,241,931	10,114	3,880
gallons..	100.0	97.1	2.9	(1)	(1)
percent distribution..					
Amount expended.....	3,423,035	3,288,343	133,183	1,071	438
dollars..	1,295	1,503	303	76	219
average per establishment reporting..	0.08	0.08	0.11	0.11	0.11
dollars..	100.0	96.1	3.9	(1)	(1)
average per gallon..					
percent distribution..					
Gas for heating.....	1,314	959	351	2	2
establishments reporting..	100.0	73.0	26.7	0.2	0.2
percent distribution..					
Amount expended.....	962,679	907,798	53,104	1,154	623
dollars..	733	947	151	577	312
average per establishment reporting..	100.0	94.3	5.5	0.1	0.1
percent distribution..					
Advertising.....	13,339	8,991	3,802	511	35
establishments reporting..	100.0	67.4	28.5	3.8	0.3
percent distribution..					
Amount expended.....	8,645,111	3,126,436	4,885,696	551,225	81,754
dollars..	648	348	1,285	1,079	2,336
average per establishment reporting..	1.8	1.0	3.7	5.2	4.3
percent of total sales..	100.0	36.2	56.5	6.4	0.9
percent distribution..					

¹Less than 0.05 percent.

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United States Summary Table 8.—SPECIFIED EXPENDITURES, FOR ESTABLISHMENTS WITH A CROP VALUE OF LESS THAN \$10,000, BY KIND OF ESTABLISHMENT: 1949

Item	Establishments with a crop value of less than \$10,000, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
Specified expenditures, total.....	12,376 100.0	8,189 66.2	3,462 28.0	681 5.5	44 0.4
Amount expended.....	36,948,329 2,985 100.0	25,101,576 3,065 67.9	10,622,315 3,068 28.7	1,127,633 1,656 3.1	96,805 2,200 0.3
Wages and salaries paid:					
Officers of corporations.....	233 100.0	130 55.8	96 41.2	5 2.1	2 0.9
Amount expended.....	1,266,202 5,434 3,081 100.0	769,386 5,918 3,246 60.8	449,701 4,684 2,793 35.5	35,115 7,023 3,902 2.8	12,000 6,000 3,000 0.9
All other paid employees.....	8,805 100.0	5,651 64.2	2,596 29.5	527 6.0	31 0.4
Amount expended.....	22,320,829 2,535 19.0 100.0	14,202,952 2,860 16.8 63.6	7,423,503 2,860 25.1 33.3	641,120 1,217 23.3 2.9	53,254 1,718 20.1 0.2
Year-round employees.....	3,860 100.0	2,733 70.8	1,035 26.8	85 2.2	7 0.2
Amount expended.....	13,774,610 3,569 1,735 100.0	9,754,005 3,569 1,769 70.8	3,771,662 3,644 1,660 27.4	222,797 2,621 1,603 1.6	26,146 3,735 2,011 0.2
Part-time or seasonal employees.....	7,708 100.0	4,807 62.4	2,375 30.8	498 6.5	28 0.4
Amount expended.....	8,546,219 1,109 100.0	4,448,947 926 52.1	3,651,841 1,538 42.7	418,323 840 4.9	27,108 968 0.3
Manure and fertilizer.....	11,709 100.0	7,890 67.4	3,150 26.9	630 5.4	39 0.3
Amount expended.....	1,886,375 161 4.2 100.0	1,175,412 149 3.7 62.3	618,412 196 5.5 32.8	87,938 140 3.8 4.7	4,613 118 2.5 0.2
Insecticides and fungicides.....	11,392 100.0	7,746 68.0	3,030 26.6	580 5.1	36 0.3
Amount expended.....	677,164 59 1.5 100.0	457,280 59 1.4 67.5	193,442 64 1.7 28.6	24,782 43 1.1 3.7	1,660 46 0.9 0.2
Seeds, plants, and bulbs for planting.....	10,677 100.0	7,502 70.3	2,622 24.6	520 4.9	33 0.3
Amount expended.....	5,050,313 473 11.1 100.0	3,585,148 478 11.3 71.0	1,286,419 491 11.4 25.5	173,170 333 7.6 3.4	5,576 169 3.0 0.1
Fuel:					
Amount expended, total.....	3,963,792	3,854,871	104,922	1,204	2,795
Cost per square foot of greenhouse area.....	0.09	0.09	0.09	0.12	0.07
Coal.....	5,098 100.0	4,745 93.1	338 6.6	9 0.2	6 0.1
Quantity purchased.....	293,026 100.0	287,823 98.2	4,918 1.7	64 (¹)	221 0.1
Amount expended.....	2,947,093 578 10.06 100.0	2,889,949 609 10.04 98.1	54,175 160 11.02 1.8	924 103 14.44 (¹)	2,045 341 9.25 (¹)
Fuel oil.....	1,569 100.0	1,315 83.8	244 15.6	9 0.6	1 0.1
Quantity purchased.....	7,917,928 100.0	7,626,529 96.3	286,909 3.6	2,490 (¹)	2,000 (¹)
Amount expended.....	814,182 519 0.10 100.0	780,124 593 0.10 95.8	33,528 137 0.12 4.1	280 31 0.11 (¹)	250 250 0.12 (¹)
Gas for heating.....	783 100.0	590 75.4	192 24.5	.....	1 0.1
Amount expended.....	202,517 259 100.0	184,798 313 91.3	17,219 90 8.5	.....	500 500 0.2
Advertising.....	9,326 100.0	6,176 66.2	2,753 29.5	370 4.0	27 0.3
Amount expended.....	1,783,654 191 1.5 100.0	1,056,527 171 1.2 59.2	545,916 198 1.8 30.6	164,304 444 6.0 9.2	16,907 626 6.4 0.9

¹Less than 0.05 percent.

HORTICULTURAL SPECIALTIES

United States Summary Table 12.—STRUCTURES AND EQUIPMENT, APRIL 1, 1950, FOR ESTABLISHMENTS WITH A CROP VALUE OF \$10,000 AND OVER IN 1949, BY KIND OF ESTABLISHMENT

Item	Establishments with a crop value of \$10,000 and over, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
Value of land, structures, and equipment.....	establishments reporting.. 5,624	4,238	1,181	189	16
	percent distribution.. 100.0	75.4	21.0	3.4	0.3
Value.....	dollars.. 313,774,796	233,693,422	69,383,157	8,479,214	2,219,003
	average per establishment reporting.. 55,792	55,142	58,749	44,864	138,588
	percent distribution.. 100.0	74.5	22.1	2.7	0.7
Greenhouses.....	establishments reporting.. 4,005	3,458	531	10	6
	percent distribution.. 100.0	86.3	13.3	0.2	0.1
Area.....	square feet.. 149,104,434	146,291,213	2,613,678	148,188	51,355
	average per establishment reporting, square feet.. 37,230	42,305	4,922	14,819	8,559
	percent distribution.. 100.0	98.1	1.8	0.1	(¹)
Frames.....	establishments reporting.. 1,455	941	492	15	7
	percent distribution.. 100.0	64.7	33.8	1.0	0.5
Area.....	square feet.. 14,023,395	6,474,689	6,902,152	576,990	69,564
	percent distribution.. 100.0	46.2	49.2	4.1	0.5
Lath houses.....	establishments reporting.. 914	383	531	.....	.....
	percent distribution.. 100.0	41.9	58.1	.....	.....
Area.....	square feet.. 59,169,106	36,285,578	22,882,528	.....	.....
	percent distribution.. 100.0	61.3	38.7	.....	.....
Storage houses.....	establishments reporting.. 2,056	1,303	612	130	11
	percent distribution.. 100.0	63.4	29.8	6.3	0.5
Floor area.....	square feet.. 10,487,112	4,075,092	4,981,420	1,359,624	70,976
	percent distribution.. 100.0	38.9	47.5	13.0	0.7
Refrigerated storage.....	establishments reporting.. 1,069	955	94	19	1
	percent distribution.. 100.0	89.3	8.8	1.8	0.1
Capacity.....	cubic feet.. 5,063,393	2,782,321	2,079,544	201,520	8
	percent distribution.. 100.0	54.9	41.1	4.0	(¹)

¹ Less than 0.05 percent.

United States Summary Table 13.—NUMBER OF ESTABLISHMENTS, BY TYPE OF ORGANIZATION, APRIL 1, 1950, FOR ALL ESTABLISHMENTS, BY KIND OF ESTABLISHMENT

Item	All establishments, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
All establishments, total.....	number.. 18,000	12,427	4,643	870	60
	percent distribution.. 100.0	69.0	25.8	4.8	0.3
Establishments operated by—					
Individuals.....	number.. 12,949	8,925	3,341	653	30
	percent of all establishments.. 71.9	71.8	72.0	75.1	50.0
	percent distribution.. 100.0	68.9	25.8	5.0	0.2
Partnerships.....	number.. 3,786	2,690	888	188	20
	percent of all establishments.. 21.0	21.6	19.1	21.6	33.3
	percent distribution.. 100.0	71.1	23.5	5.0	0.5
Corporations.....	number.. 1,265	812	414	29	10
	percent of all establishments.. 7.0	6.5	8.9	3.3	16.7
	percent distribution.. 100.0	64.2	32.7	2.3	0.8

United States Summary Table 14.—NUMBER OF ESTABLISHMENTS, BY TYPE OF ORGANIZATION, APRIL 1, 1950, FOR ESTABLISHMENTS WITH A CROP VALUE OF LESS THAN \$10,000 IN 1949, BY KIND OF ESTABLISHMENT

Item	Establishments with a crop value of less than \$10,000, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
All establishments, total.....	number.. 12,376	8,189	3,462	681	44
	percent distribution.. 100.0	66.2	28.0	5.5	0.4
Establishments operated by—					
Individuals.....	number.. 9,891	6,555	2,769	542	25
	percent of all establishments.. 79.9	80.0	80.0	79.6	56.8
	percent distribution.. 100.0	66.3	28.0	5.5	0.3
Partnerships.....	number.. 2,159	1,442	571	131	15
	percent of all establishments.. 17.4	17.6	16.5	19.2	34.1
	percent distribution.. 100.0	66.8	26.4	6.1	0.7
Corporations.....	number.. 326	192	122	8	4
	percent of all establishments.. 2.6	2.3	3.5	1.2	9.1
	percent distribution.. 100.0	58.9	37.4	2.5	1.2

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United States Summary Table 15.—NUMBER OF ESTABLISHMENTS, BY TYPE OF ORGANIZATION, APRIL 1, 1950, FOR ESTABLISHMENTS WITH A CROP VALUE OF \$10,000 AND OVER IN 1949, BY KIND OF ESTABLISHMENT

Item	Establishments with a crop value of \$10,000 and over, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
All establishments, total.....number..	5,624	4,238	1,181	189	16
percent distribution..	100.0	75.4	21.0	3.4	0.3
Establishments operated by—					
Individuals.....number..	3,058	2,370	572	111	5
percent of all establishments..	54.4	55.9	48.4	58.7	31.2
percent distribution..	100.0	77.5	18.7	3.6	0.2
Partnerships.....number..	1,627	1,248	317	57	5
percent of all establishments..	28.9	29.4	26.8	30.2	31.2
percent distribution..	100.0	76.7	19.5	3.5	0.3
Corporations.....number..	939	620	292	21	6
percent of all establishments..	16.7	14.6	24.7	11.1	37.5
percent distribution..	100.0	66.0	31.1	2.2	0.6

United States Summary Table 16.—NUMBER OF ESTABLISHMENTS AND VALUE OF CROPS AT WHOLESALE PRICES, BY SIZE AND BY KIND OF ESTABLISHMENT: 1949

Item	All establishments, total	Cut flowers and flowering or foliage plants (including vegetables grown under glass and propagated mushrooms)	Nurseries	Bulb farms	Flower-seed farms
All establishments, total.....number..	18,000	12,427	4,643	870	60
Value of all crops at wholesale prices.....thousands of dollars..	309,638	218,522	71,053	9,237	1,826
percent distribution..	100.0	72.7	23.6	3.1	0.6
Establishments with a crop value of—					
Less than \$10,000.....number..	12,376	8,189	3,462	681	44
percent of all establishments..	68.8	65.9	74.6	78.3	73.3
Value of crops at wholesale prices.....thousands of dollars..	45,435	31,658	11,299	2,292	186
percent of value of all crops..	15.1	14.5	15.9	24.8	10.2
percent distribution..	100.0	69.7	24.9	5.0	0.4
\$10,000 to \$24,999.....number..	3,214	2,465	635	107	7
percent of all establishments..	17.9	19.8	13.7	12.3	11.7
Value of crops at wholesale prices.....thousands of dollars..	49,352	37,871	9,771	1,601	109
percent of value of all crops..	16.4	17.3	13.8	17.3	6.0
percent distribution..	100.0	76.7	19.8	3.2	0.2
\$25,000 to \$49,999.....number..	1,276	960	268	45	3
percent of all establishments..	7.1	7.7	5.8	5.2	5.0
Value of crops at wholesale prices.....thousands of dollars..	43,558	32,763	9,175	1,524	96
percent of value of all crops..	14.5	15.0	12.9	16.5	5.3
percent distribution..	100.0	75.2	21.1	3.5	0.2
\$50,000 to \$99,999.....number..	636	459	152	24	1
percent of all establishments..	3.5	3.7	3.3	2.8	1.7
Value of crops at wholesale prices.....thousands of dollars..	43,363	31,405	10,382	1,520	56
percent of value of all crops..	14.4	14.4	14.6	16.5	3.1
percent distribution..	100.0	72.4	23.9	3.5	0.1
\$100,000 to \$249,999.....number..	358	253	91	11	3
percent of all establishments..	2.0	2.0	2.0	1.3	5.0
Value of crops at wholesale prices.....thousands of dollars..	53,059	37,037	13,906	1,561	555
percent of value of all crops..	17.6	16.9	19.6	16.9	30.4
percent distribution..	100.0	69.8	26.2	2.9	1.0
\$250,000 and over.....number..	140	101	35	2	2
percent of all establishments..	0.8	0.8	0.8	0.2	3.3
Value of crops at wholesale prices.....thousands of dollars..	65,871	47,788	16,520	739	824
percent of value of all crops..	21.9	21.9	23.3	8.0	45.1
percent distribution..	100.0	72.6	25.1	1.1	1.3