

2017 | CENSUS *OF* AGRICULTURE

Guam (2018)

Island Data

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Sonny Perdue, Secretary
National Agricultural Statistics Service
Hubert Hamer, Administrator

Acknowledgments

The U.S. Department of Agriculture's National Agricultural Statistics Service (NASS) conducted the 2018 Guam Census of Agriculture, analyzed the data, and prepared this and other reports. The census provides a comprehensive picture of Guam's agriculture in 2018, and NASS recognizes and appreciates that many individuals and organizations contributed to the effort.

Most importantly, the success of the agriculture census depends directly on the cooperation of farmers and ranchers across Guam. Recognizing that participating in the census is their responsibility and gives them a voice in their future, agricultural operators took the time to provide the information requested. We are grateful to every operator who participated in the 2018 Guam Census of Agriculture.

NASS acknowledges and appreciates the advice and support from the University of Guam, College of Natural and Applied Sciences, and its Cooperative Extension and Outreach Service; the Guam Department of Agriculture; various USDA agencies, farm organizations, stakeholder groups, and media outlets. They provided valuable advice during the planning, data collection, and promotional phases of the census, as well as critical assistance to local farmers completing census forms. Our thanks to the enumerators who collected data locally through NASS' cooperative agreements.

Members of the inter-agency working group, under the leadership of the University of Guam, College of Natural and Applied Sciences, made significant recommendations which helped establish data content. NASS appreciates the group's strong and consistent support of census programs.

Numerous farm organizations and media outlets were also instrumental in building awareness of the census and encouraging farmers and ranchers to participate.

Finally, NASS acknowledges and appreciates the support services of the U.S. Department of Commerce National Processing Center in Jeffersonville, Indiana.

To learn more about the Census of Agriculture, visit www.nass.usda.gov/AgCensus, where you can access new and historic data in a variety of formats, including the [Quick Stats](#) database. To learn about other NASS reports and activities, visit www.nass.usda.gov. For additional information, contact NASS through email (nass@usda.gov) or by phone (800-727-9540).

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Introduction

HISTORY

For more than 150 years, the U.S. Department of Commerce, Bureau of the Census, conducted the census of agriculture. However, the 1997 Appropriations Act transferred the responsibility from the Bureau of the Census to the U.S. Department of Agriculture (USDA), National Agricultural Statistics Service (NASS).

The census of agriculture is taken to obtain agricultural statistics for each county, State (including territories and protectorates), and the Nation. The first U.S. census of agriculture data were collected in 1840 as a part of the sixth decennial census. From 1840 to 1920, an agricultural census was taken as a part of each decennial census. Since 1920, a separate national agricultural census has been taken every 5 years.

The 2018 census is the 15th census of agriculture of Guam. The first, taken in 1920, was a special census authorized by the Secretary of Commerce. The next agriculture census was taken in 1930 in conjunction with the decennial census, a practice that continued every 10 years through 1960. The 1964 Census of Agriculture was the first quinquennial (5-year) census to be taken in Guam. In 1976, Congress authorized the census of agriculture to be taken for 1978 and 1982 to adjust the data-reference year to coincide with other economic censuses. After 1982, the agriculture census reverted to a 5-year cycle.

USES OF CENSUS DATA

The census of agriculture is the leading source of statistics about Guam's agricultural production and the only source of consistent, comparable data at the island level. Census statistics are used to measure agricultural production and to identify trends in an ever-changing agricultural sector. Many local programs use census data as a benchmark for designing and evaluating surveys. Private industry uses census statistics to provide a more effective production and distribution system for the agricultural

community. One of the most important uses of the census data is to justify claims of farmers who may suffer damages and losses due to natural disasters, such as typhoons.

LEGAL AUTHORITY

The census of agriculture is required by law under the "Census of Agriculture Act of 1997," Public Law 105-113 (Title 7, United States Code, Section 2204g). The law directs the Secretary of Agriculture to conduct a census of agriculture every fifth year. The census of agriculture includes each State, Puerto Rico, Guam, the U.S. Virgin Islands, the Commonwealth of Northern Mariana Islands, and American Samoa.

The data for the 2018 Guam Census of Agriculture were collected in accordance with a Cooperative Agreement approved by the Director of the Census and Survey Division of NASS and by the University of Guam, College of Natural and Applied Sciences, and its Cooperative Extension and Outreach Service.

FARM DEFINITION

The statistics collected in the census relate to places with agricultural operations qualifying as farms according to the census definition. In Guam, this included all places from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the 12-month period between January 1 and December 31, 2018. The farm definition is the same that was used for the 2007 Guam Census of Agriculture, and is the same definition used for the rest of the U.S.

DATA COMPARABILITY

In general, the data from the 2018 census are comparable with those of previous censuses. All dollar values presented in this report are in current dollars, i.e., 2018 data are expressed in 2018 dollars and 2007 data in 2007 dollars. The dollar values have not been adjusted for changes in price levels between census years. For other data changes between

censuses, refer to the section on Data Changes in Appendix B.

REFERENCE PERIODS

Inventories of livestock, poultry, and machinery and equipment are the number on hand on the day of enumeration. Crop production, crop and livestock sales, and expense data are for the 12-month period between January 1 and December 31, 2018.

TABLES AND APPENDICES

Tables 1 through 13 show detailed island data accompanied by historic data from the previous census. Tables 14 through 17 provide 2018 island data cross-tabulated by tenure of operator, age of operator, size of farm, and market value of agricultural products sold.

Appendix A. Provides information about data collection and data processing activities and discusses the statistical methodology used in conducting and evaluating the census.

Appendix B. Includes definitions of specific terms and phrases used in this publication, including items in the publication tables that carry the note "see text." It also provides a facsimile of the report form used to collect data.

RESPONDENT CONFIDENTIALITY

In keeping with the provisions of Title 7, United States Code, no data are published that would disclose the operations of an individual farm. However, the number of farms in a given size category or other classification is not considered a release of confidential information and is provided, even though other information may be withheld.

CUSTOM TABULATIONS

Custom-designed tabulations can be developed to individual user specifications on a programming cost reimbursable basis. Quick Stats, NASS's online

database that allows data users to build customized queries, should be investigated before requesting a custom tabulation.

All custom tabulations are subject to a thorough disclosure review prior to release to prevent the disclosure of any individual respondent data. Requests for custom tabulations can be submitted via the internet from the NASS home page, by mail, or by e-mail to:

DataLab
National Agricultural Statistics Service
Room 5305A, Stop 2054
1400 Independence Avenue, S.W.
Washington, DC 20250-2054
or Datalab@nass.usda.gov

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used throughout the tables:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual farms.
- (H) Coefficient of variation is greater than or equal to 99.5 percent or the standard error is greater than or equal to 99.95 percent of the mean.
- (L) Coefficient of variation is less than 0.05 percent or the standard error is less than 0.05 percent of the mean.
- (NA) Not available.
- (X) Not applicable.
- (Z) Less than half of the unit shown.
- cwt Hundredweight.
- sq. ft. Square feet.

Guam Map

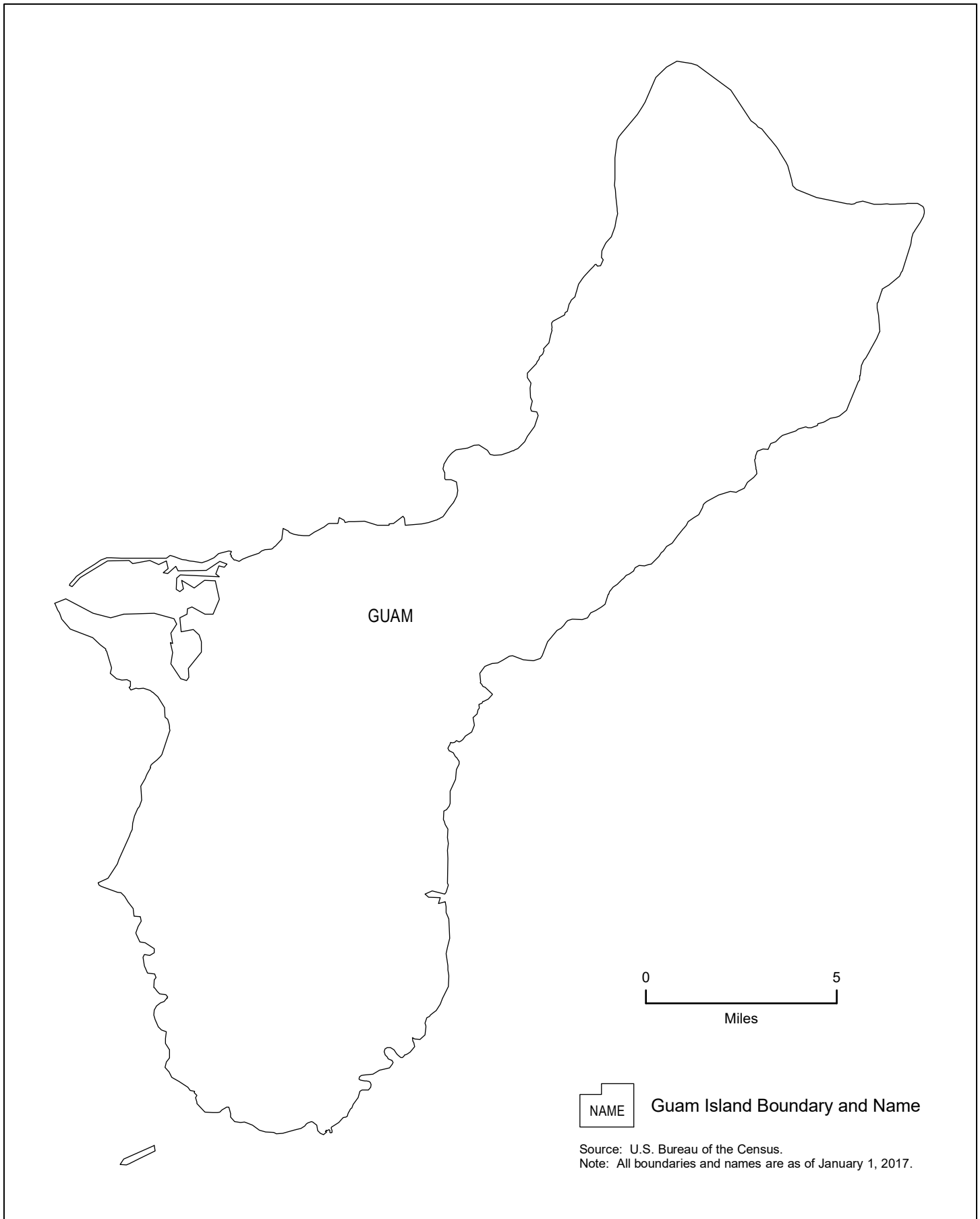


Table 7. Market Value of Agricultural Products Sold: 2018 and 2007

[For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Farms		Value (dollars)	
	2018	2007	2018	2007
Total sales	264	104	3,842,853	2,796,173
Average per farm	(X)	(X)	14,556	26,886
Farms by value of sales:				
Less than \$1,200	32	6	31,186	6,400
\$1,200 to \$2,499	69	15	117,657	27,080
\$2,500 to \$4,999	29	18	108,648	67,185
\$5,000 to \$7,499	38	14	228,061	87,476
\$7,500 to \$9,999	20	6	169,843	51,378
\$10,000 or more	76	45	3,187,458	2,556,654
Sales by commodity group or product:				
Root crops	54	17	(D)	46,701
Vegetables and melons	154	56	1,840,346	1,497,580
Fruits and nuts	192	53	(D)	287,074
Nursery crops (including ornamental plants)	48	22	1,027,980	604,868
Livestock and livestock products	39	25	81,400	52,900
Poultry and poultry products	45	6	57,950	(D)
Fish and other aquaculture products	1	3	(D)	(D)

Table 8. Selected Farm Production Expenses: 2018 and 2007

[For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Farms		Expenses (dollars)	
	2018	2007	2018	2007
Machine hire and customwork	75	32	459,478	66,140
Hired farm labor	65	49	1,079,446	548,760
Feed purchased for livestock, poultry, and fish	47	23	76,936	128,562
Insecticides, fungicides, and herbicides	78	67	95,566	94,024
Fertilizers and manure purchased	140	79	322,487	196,070
Livestock, poultry, and fish purchased	7	3	15,450	20,620
Seed cost (including seedlings)	94	58	117,655	56,786

Table 9. Root Crops Harvested for Sale: 2018 and 2007

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Crop	2018	2007	Crop	2018	2007
farms	4	5	farms	6	6
acres	6,250	7,750	acres	8,737	13,000
pounds	10	3	pounds	28	9
Gado	1	1	Yams	4	7
farms	2,350	4,100	farms	12,474	23,000
acres	24	1	acres	7	2
pounds	3	(D)	pounds	7	(D)
Ginger	729	(D)	Other root crops	2	(D)
farms	18	8	farms	6,153	(D)
acres	2	9	acres		
pounds	3,665	18,800	pounds		

Table 10. Vegetables and Melons Harvested for Sale: 2018 and 2007

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Crop	2018	2007	Crop	2018	2007
Alfalfa and/or bean sprouts .....farms	5	2	Muskmelons and pepinos .....farms	8	1
.....pounds	110	(D)	.....acres	6	(D)
Beans, winged .....farms	32	(NA)	.....pounds	19,460	(D)
.....acres	6	(NA)	Okra .....farms	50	19
.....pounds	6,453	(NA)	.....acres	15	15
Beans, yard long .....farms	48	25	.....pounds	22,176	36,229
.....acres	21	43	Onions, green .....farms	27	9
.....pounds	82,563	126,203	.....acres	3	3
Beans, all other .....farms	7	11	.....pounds	801	5,210
.....acres	2	2	Peppers, hot .....farms	110	28
.....pounds	762	9,020	.....acres	25	9
Bittermelons .....farms	41	17	.....pounds	28,661	27,858
.....acres	19	27	Peppers, sweet .....farms	4	4
.....pounds	122,770	73,950	.....acres	(D)	11
Cabbage, Chinese .....farms	14	5	.....pounds	(D)	13,220
.....acres	4	3	Pumpkins and squash .....farms	41	10
.....pounds	9,730	4,930	.....acres	13	14
Cabbage, head .....farms	1	1	.....pounds	36,656	45,350
.....acres	(D)	(D)	Radishes .....farms	10	9
.....pounds	(D)	(D)	.....acres	3	3
Cantaloupes .....farms	-	5	.....pounds	8,237	12,340
.....acres	-	12	Tomatoes .....farms	55	27
.....pounds	-	66,000	.....acres	24	19
Corn ¹ .....farms	9	4	.....pounds	152,182	86,425
.....acres	34	21	Watermelons .....farms	12	7
.....pounds	91,530	123,250	.....acres	45	88
Cucumbers .....farms	53	22	.....pounds	398,811	772,000
.....acres	80	92	Other vegetables and melons .....farms	35	10
.....pounds	302,647	1,354,320	.....acres	15	2
Eggplant .....farms	97	44	.....pounds	37,070	9,525
.....acres	37	43			
.....pounds	171,583	164,959			

¹ Includes dry and green corn.

Table 11. Fruits, Nuts, and Nursery Crops (including ornamental plants) Harvested for Sale: 2018 and 2007

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Crop	2018	2007	Crop	2018	2007
Land in bearing and nonbearing fruit and nut trees and plants .....farms	224	57	Mangoes .....farms	131	15
.....acres	292	145	.....trees not of bearing age	1,576	247
Avocados .....farms	122	16	.....trees of bearing age	695	103
.....trees not of bearing age	402	94	.....pounds	74,343	18,150
.....trees of bearing age	500	168	Oranges .....farms	19	4
.....pounds	29,194	7,770	.....trees not of bearing age	30	47
Bananas (all types) .....farms	157	31	.....trees of bearing age	48	4
.....trees not of bearing age	6,327	5,526	.....pounds	588	130
.....trees of bearing age	27,531	13,673	Papayas .....farms	105	25
.....pounds	443,379	238,246	.....trees not of bearing age	8,551	205
Betelnuts .....farms	80	16	.....trees of bearing age	4,100	2,153
.....trees not of bearing age	30,787	774	.....pounds	61,269	51,330
.....trees of bearing age	33,234	2,771	Pineapples .....farms	48	4
.....pounds	7,404	4,100	.....trees not of bearing age	1,660	600
Breadfruits .....farms	89	14	.....trees of bearing age	4,107	6,600
.....trees not of bearing age	100	61	.....pounds	9,068	17,570
.....trees of bearing age	898	258	Soursops .....farms	121	12
.....pounds	44,365	9,650	.....trees not of bearing age	1,052	68
Coconuts .....farms	81	17	.....trees of bearing age	1,899	101
.....trees not of bearing age	1,068	1,172	.....pounds	27,250	1,850
.....trees of bearing age	2,507	1,323	Starfruits .....farms	68	3
.....pounds	97,625	20,200	.....trees not of bearing age	54	-
Coffee .....farms	8	(NA)	.....trees of bearing age	174	5
.....trees not of bearing age	60	(NA)	.....pounds	4,605	275
.....trees of bearing age	11	(NA)	Sweetsops .....farms	55	13
.....pounds	(D)	(NA)	.....trees not of bearing age	123	54
Dragon Fruit .....farms	51	(NA)	.....trees of bearing age	347	348
.....trees not of bearing age	536	(NA)	.....pounds	3,185	1,280
.....trees of bearing age	1,828	(NA)	Tangerines .....farms	46	12
.....pounds	11,054	(NA)	.....trees not of bearing age	174	442
Grapefruit .....farms	31	4	.....trees of bearing age	332	207
.....trees not of bearing age	142	2	.....pounds	6,766	11,110
.....trees of bearing age	117	35	Other fruits, nuts, and tree crops .....farms	54	4
.....pounds	3,429	4,200	.....trees not of bearing age	369	481
Guavas .....farms	78	7	.....trees of bearing age	358	17
.....trees not of bearing age	(D)	120	.....pounds	6,664	436
.....trees of bearing age	1,413	153	Nursery crops (including ornamental plants) .....farms	48	22
.....pounds	5,434	7,390	.....sq.ft. under cover	195,952	110,350
Lemons and limes .....farms	161	21	.....acres in the open	59	21
.....trees not of bearing age	2,774	768			
.....trees of bearing age	3,230	384			
.....pounds	44,563	9,760			

Table 12. Livestock, Poultry, and Their Products: 2018 and 2007

[For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	2018	2007	Item	2018	2007
INVENTORY			SALES - Con.		
Livestock			Livestock - Con.		
Carabaos farms	8	4	Cattle and calves of all ages .....farms	16	9
..... number	20	12	..... number	33	19
Cattle and calves of all ages farms	21	13	Milk cows farms	-	1
..... number	97	112	..... number	-	(D)
Milk cows farms	-	1	All other cattle and calves .....farms	16	8
..... number	-	(D)	..... number	33	17
All other cattle and calves farms	21	13	Hogs and pigs of all ages .....farms	43	20
..... number	97	110	..... number	540	356
Hogs and pigs of all ages farms	43	22	Goats and kids of all ages .....farms	6	4
..... number	540	635	..... number	55	11
Goats and kids of all ages farms	19	10	Horses, mules, and colts of all ages .....farms	-	-
..... number	171	124	..... number	-	-
Horses, mules, and colts of all ages farms	1	2	Other livestock .....farms	-	(NA)
..... number	(D)	(D)	..... number	-	(NA)
Other livestock farms	1	(NA)	Poultry		
..... number	(D)	(NA)	Chicken hens 4 months old or older .....farms	6	3
Poultry			..... number	295	37
Chicken hens 4 months old or older farms	53	8	Commercial layers .....farms	5	-
..... number	3,858	182	..... number	245	-
Commercial layers farms	27	1	Other chicken hens .....farms	3	3
..... number	1,552	(D)	..... number	90	37
Other chicken hens farms	37	7	Chickens less than 4 months old .....farms	-	-
..... number	2,701	172	..... number	-	-
Chickens less than 4 months old farms	14	6	Roosters and pullets .....farms	-	1
..... number	490	272	..... number	-	(D)
Roosters and pullets farms	12	6	Fighting roosters .....farms	2	1
..... number	217	79	..... number	(D)	(D)
Fighting roosters farms	7	2	Ducks .....farms	-	1
..... number	400	(D)	..... number	-	(D)
Ducks farms	12	2	Pigeons .....farms	-	-
..... number	144	(D)	..... number	-	-
Pigeons farms	3	1	Chicken eggs .....farms	43	1
..... number	101	(D)	..... dozens	44,876	(D)
Other poultry farms	1	-	Other poultry and poultry products	-	1
..... number	(D)	-	(excluding chicken eggs) .....farms	-	(D)
SALES			..... number	-	(D)
Livestock					
Carabaos farms	-	1			
..... number	-	(D)			

Table 13. Fish and Other Aquaculture Products: 2018 and 2007

[For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	2018	2007
Farms	6	3
Ponds	13	8
Tanks	6	3
Quantity sold or moved (pounds)	(D)	(D)
Sales (dollars)	(D)	(D)

Table 14. Summary by Tenure of Operator: 2018

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Full owners	Part owners	Tenants
FARMS AND LAND IN FARMS				
Farms number	264	167	10	87
Percent of farms	100.0	63.3	3.8	33.0
Land in farms acres	2,441	1,547	36	858
Percent of distribution	100.0	63.4	1.5	35.2
Average size of farm acres	9.2	9.3	3.6	9.9
LAND USE				
Total cropland farms	256	163	10	83
Harvested acres	1,008	525	25	458
Other farms	254	161	10	83
..... acres	665	369	20	277
Pasture or grazing land farms	95	53	3	39
..... acres	343	157	5	182
Woodland farms	39	27	-	12
..... acres	152	92	-	60
Other land farms	78	36	2	40
..... acres	1,019	749	(D)	(D)
..... farms	182	126	6	50
..... acres	261	180	(D)	(D)
IRRIGATION				
Land irrigated farms	258	165	10	83
..... acres	766	445	20	302
Private system farms	15	12	1	2
..... acres	71	(D)	(D)	(D)
Public system farms	248	157	10	81
..... acres	695	(D)	(D)	(D)
FARMS BY MAJOR SOURCE OF IRRIGATION WATER				
Well or cistern	10	8	1	1
River or stream	5	4	-	1
Lake or private pond	-	-	-	-
Canal or irrigation district	-	-	-	-
Public utility	243	153	9	81
Other	-	-	-	-
TENURE OF OPERATOR				
All operators farms	264	167	10	87
..... acres	2,441	1,547	36	858
Owners farms	177	167	10	-
..... acres	1,583	1,547	36	-
Full owners farms	167	167	-	-
..... acres	1,547	1,547	-	-
Part owners farms	10	-	10	-
..... acres	36	-	36	-
Tenants farms	87	-	-	87
..... acres	858	-	-	858
FARMS BY SIZE				
Farms number	264	167	10	87
Less than 1 acre	55	42	-	13
1 to 2 acres	84	59	2	23
3 to 4 acres	35	23	5	7
5 to 7 acres	36	13	3	20
8 to 9 acres	8	5	-	3
10 to 19 acres	16	9	-	7
20 acres or more	30	16	-	14
OPERATOR CHARACTERISTICS				
Operators by place of residence:				
On farm operated	151	114	6	31
Not on farm operated	113	53	4	56
Operators by years on present farm:				
2 years or less	11	3	1	7
3 to 4 years	38	22	-	16
5 to 9 years	43	31	4	8
10 years or more	172	111	5	56
Operators by age group:				
Under 35 years	3	2	-	1
35 to 44 years	9	6	-	3
45 to 54 years	36	18	4	14
55 to 64 years	96	60	4	32
65 years and over	120	81	2	37
Average age	62	63	58	62
Operators by main occupation:				
Agricultural	199	131	6	62
Nonagricultural	65	36	4	25
Operators by days of work off farm:				
None	202	127	6	69
Any	62	40	4	18
1 to 49 days	8	5	-	3
50 to 99 days	5	3	-	2
100 to 149 days	6	6	-	-
150 to 199 days	24	15	-	9
200 days or more	19	11	4	4

See footnote(s) at end of table.

--continued

Table 14. Summary by Tenure of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Full owners	Part owners	Tenants
OPERATOR CHARACTERISTICS - Con.				
Operators by race:				
Chamorro	188	122	6	60
Chinese	8	1	-	7
Filipino	44	32	3	9
Japanese	-	-	-	-
White	9	8	-	1
Other	15	4	1	10
Operators by sex:				
Male	188	118	8	62
Female	76	49	2	25
COMPUTER USE				
Computers used for the farm business	79	54	1	24
No computers used for the farm business	185	113	9	63
Internet access				
Dial-up service	2	2	-	-
DSL service	47	28	1	18
Cable modem service	14	10	-	4
Fiber-optic service	2	2	-	-
Mobile broadband plan for a computer or cellphone	50	36	4	10
Satellite service	4	-	-	-
Broadband over power lines (BPL)	-	-	-	-
Other type of service	-	-	-	-
No internet access	145	85	5	55
LABOR STATUS				
Farms	264	167	10	87
Unpaid labor	722	508	21	193
Less than 25 days	251	161	10	80
25 to 149 days	515	357	16	142
150 days or more	16	12	1	3
25 to 149 days	46	38	(D)	(D)
150 days or more	47	34	5	8
Paid labor	86	56	(D)	(D)
Less than 25 days	214	139	4	71
25 to 149 days	383	263	5	115
150 days or more	65	43	3	19
25 to 149 days	207	151	5	51
150 days or more	20	15	1	4
Paid labor	70	65	(D)	(D)
Less than 25 days	27	16	1	10
25 to 149 days	71	48	(D)	(D)
150 days or more	27	16	1	10
Unpaid labor	66	38	(D)	(D)
SELECTED MACHINERY AND EQUIPMENT				
Tractors (all kinds)	60	39	2	19
Motortrucks	84	53	(D)	(D)
Automobiles	92	64	4	24
Tillers (all kinds)	145	104	5	36
Tractors (all kinds)	67	47	2	18
Motortrucks	91	61	(D)	(D)
Automobiles	79	48	3	28
Tillers (all kinds)	123	71	3	49
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD				
Total sales	264	167	10	87
Average per farm	3,842,853	1,992,082	246,591	1,604,180
Farms by value of sales:	14,556	11,929	24,659	18,439
Less than \$1,200	32	22	-	10
\$1,200 to \$2,499	31,186	21,846	-	9,340
\$2,500 to \$4,999	69	49	1	19
\$5,000 to \$7,499	117,657	82,812	(D)	(D)
\$7,500 to \$9,999	29	18	2	9
\$10,000 or more	108,648	62,734	(D)	(D)
Less than \$1,200	38	22	4	12
\$1,200 to \$2,499	228,061	128,102	26,188	73,771
\$2,500 to \$4,999	20	12	1	7
\$5,000 to \$7,499	169,843	102,726	(D)	(D)
\$7,500 to \$9,999	76	44	2	30
\$10,000 or more	3,187,458	1,593,862	(D)	(D)
SALES BY COMMODITY GROUP OR PRODUCT				
Root crops	54	39	2	13
Vegetables and melons	(D)	(D)	(D)	6,384
Fruits and nuts	154	96	4	54
Nursery crops (including ornamental plants)	1,840,346	793,895	48,724	997,727
Livestock and livestock products	192	122	9	61
Poultry and poultry products	(D)	477,912	(D)	(D)
Root crops	48	38	1	9
Vegetables and melons	1,027,980	582,558	(D)	(D)
Fruits and nuts	39	23	1	15
Nursery crops (including ornamental plants)	81,400	54,350	(D)	(D)
Livestock and livestock products	45	31	2	12
Poultry and poultry products	57,950	51,148	(D)	(D)

See footnote(s) at end of table.

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Table 14. Summary by Tenure of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Full owners	Part owners	Tenants
SALES BY COMMODITY GROUP OR PRODUCT - Con.				
Fish and other aquaculture products farms	1	1	-	-
dollars	(D)	(D)	-	-
SELECTED FARM PRODUCTION EXPENSES				
Machine hire and customwork farms	75	59	2	14
dollars	459,478	318,170	(D)	(D)
Hired farm labor farms	65	43	3	19
dollars	1,079,446	704,540	5,900	369,006
Feed purchased for livestock, poultry, and fish farms	47	36	1	10
dollars	76,936	50,976	(D)	(D)
Insecticides, fungicides, and herbicides farms	78	52	4	22
dollars	95,566	53,216	1,550	40,800
Fertilizers and manure purchased farms	140	98	6	36
dollars	322,487	220,384	6,320	95,783
Livestock, poultry, and fish purchased farms	7	6	-	1
dollars	15,450	(D)	-	(D)
Seed cost (including seedlings) farms	94	67	3	24
dollars	117,655	63,783	1,700	52,172
ROOT CROPS HARVESTED FOR SALE				
Cassava (tapioca) farms	24	20	1	3
acres	4	3	(D)	(D)
pounds	6,250	5,040	(D)	(D)
Gado farms	10	10	-	-
acres	1	1	-	-
pounds	2,350	2,350	-	-
Ginger farms	24	21	-	3
acres	3	3	-	(Z)
pounds	729	595	-	134
Sweet potatoes farms	18	16	-	2
acres	2	(D)	-	(D)
pounds	3,665	(D)	-	(D)
Taro farms	35	26	1	8
acres	6	(D)	(D)	3
pounds	8,737	5,305	(D)	(D)
Yams farms	28	25	1	2
acres	4	(D)	(D)	(D)
pounds	12,474	11,220	(D)	(D)
Other root crops farms	7	4	2	1
acres	2	(D)	(D)	(D)
pounds	6,153	140	(D)	(D)
VEGETABLES AND MELONS HARVESTED FOR SALE				
Alfalfa and/or bean sprouts farms	5	5	-	-
pounds	110	110	-	-
Beans, winged farms	32	22	1	9
acres	6	4	(D)	(D)
pounds	6,453	5,633	(D)	(D)
Beans, yard long farms	48	28	-	20
acres	21	12	-	9
pounds	82,563	14,194	-	68,369
Beans, all other farms	7	4	-	3
acres	2	1	-	(Z)
pounds	762	(D)	-	(D)
Bittermelons farms	41	23	-	18
acres	19	11	-	8
pounds	122,770	64,524	-	58,246
Cabbage, Chinese farms	14	10	-	4
acres	4	4	-	(Z)
pounds	9,730	(D)	-	(D)
Cabbage, head farms	1	1	-	-
acres	(D)	(D)	-	-
pounds	(D)	(D)	-	-
Cantaloupes farms	-	-	-	-
acres	-	-	-	-
pounds	-	-	-	-
Corn ¹ farms	9	4	-	5
acres	34	30	-	4
pounds	91,530	(D)	-	(D)
Cucumbers farms	53	27	2	24
acres	80	(D)	(D)	67
pounds	302,647	(D)	(D)	256,270
Eggplant farms	97	59	4	34
acres	37	19	1	17
pounds	171,583	59,473	1,775	110,335
Muskmelons and pepinos farms	8	3	1	4
acres	6	(D)	(D)	(D)
pounds	19,460	(D)	(D)	13,200
Okra farms	50	26	3	21
acres	15	3	1	11
pounds	22,176	2,119	3,080	16,977
Onions, green farms	27	20	-	7
acres	3	2	-	1
pounds	801	401	-	400
Peppers, hot farms	110	77	3	30
acres	25	18	(Z)	7
pounds	28,661	20,844	810	7,007
Peppers, sweet farms	4	3	-	1
acres	(D)	(D)	-	(D)
pounds	(D)	(D)	-	(D)
Pumpkins and squash farms	41	23	3	15
acres	13	6	(Z)	7
pounds	36,656	(D)	(D)	24,066

See footnote(s) at end of table.

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Table 14. Summary by Tenure of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Full owners	Part owners	Tenants
VEGETABLES AND MELONS HARVESTED FOR SALE - Con.				
Radishes farms	10	3	-	7
acres	3	(D)	-	(D)
pounds	8,237	(D)	-	(D)
Tomatoes farms	55	35	3	17
acres	24	16	(Z)	8
pounds	152,182	109,832	(D)	(D)
Watermelons farms	12	4	2	6
acres	45	(D)	(D)	27
pounds	398,811	(D)	(D)	258,136
Other vegetables and melons farms	35	18	-	17
acres	15	3	-	12
pounds	37,070	9,436	-	27,634
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE				
Land in bearing and nonbearing fruit				
trees and plants farms	224	144	10	70
acres	292	187	17	88
Avocados farms	122	80	7	35
trees not of bearing age	402	287	(D)	(D)
trees of bearing age	500	212	32	256
pounds	29,194	(D)	(D)	15,010
Bananas (all types) farms	157	104	10	43
trees not of bearing age	6,327	4,148	108	2,071
trees of bearing age	27,531	21,606	572	5,353
pounds	443,379	196,508	10,074	236,797
Betelnuts farms	80	58	7	15
trees not of bearing age	30,787	30,602	(D)	(D)
trees of bearing age	33,234	32,187	254	793
pounds	7,404	5,111	741	1,552
Breadfruits farms	89	64	4	21
trees not of bearing age	100	55	(D)	(D)
trees of bearing age	898	779	41	78
pounds	44,365	34,170	(D)	(D)
Coconuts farms	81	55	5	21
trees not of bearing age	1,068	886	(D)	(D)
trees of bearing age	2,507	1,667	65	775
pounds	97,625	49,130	(D)	(D)
Coffee farms	8	7	1	-
trees not of bearing age	60	60	-	-
trees of bearing age	11	(D)	(D)	-
pounds	(D)	(D)	-	-
Dragon Fruit farms	51	36	6	9
trees not of bearing age	536	270	55	211
trees of bearing age	1,828	1,666	(D)	(D)
pounds	11,054	7,153	(D)	(D)
Grapefruit farms	31	22	2	7
trees not of bearing age	142	(D)	-	(D)
trees of bearing age	117	78	(D)	(D)
pounds	3,429	2,427	(D)	(D)
Guavas farms	78	54	8	16
trees not of bearing age	(D)	(D)	(D)	59
trees of bearing age	1,413	1,320	29	64
pounds	5,434	3,559	365	1,510
Lemons and limes farms	161	111	10	40
trees not of bearing age	2,774	2,040	(D)	(D)
trees of bearing age	3,230	1,845	223	1,162
pounds	44,563	18,680	3,166	22,717
Mangoes farms	131	89	10	32
trees not of bearing age	1,576	1,503	8	65
trees of bearing age	695	435	39	221
pounds	74,343	39,272	5,298	29,773
Oranges farms	19	15	2	2
trees not of bearing age	30	(D)	(D)	-
trees of bearing age	48	36	(D)	(D)
pounds	588	186	(D)	(D)
Papayas farms	105	71	6	28
trees not of bearing age	8,551	7,595	(D)	(D)
trees of bearing age	4,100	2,289	98	1,713
pounds	61,269	30,344	(D)	(D)
Pineapples farms	48	36	3	9
trees not of bearing age	1,660	1,542	(D)	(D)
trees of bearing age	4,107	3,420	55	632
pounds	9,068	(D)	(D)	1,447
Soursops farms	121	88	7	26
vines not of bearing age	1,052	639	-	413
vines of bearing age	1,899	766	30	1,103
pounds	27,250	8,723	360	18,167
Starfruits farms	68	54	4	10
trees not of bearing age	54	45	-	9
trees of bearing age	174	148	7	19
pounds	4,605	3,475	310	820
Sweetsops farms	55	37	2	16
trees not of bearing age	123	72	-	51
trees of bearing age	347	198	(D)	(D)
pounds	3,185	1,937	(D)	(D)
Tangerines farms	46	34	3	9
trees not of bearing age	174	62	-	112
trees of bearing age	332	128	(D)	(D)
pounds	6,766	(D)	(D)	4,394
Other fruits, nuts, and tree crops farms	54	30	2	22
plants or trees not of bearing age	369	191	(D)	(D)
plants or trees of bearing age	358	294	-	64
pounds	6,664	3,659	-	3,005

See footnote(s) at end of table.

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Table 14. Summary by Tenure of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Full owners	Part owners	Tenants
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE - Con.				
Nursery crops (including ornamental plants)	48	38	1	9
..... farms	195,952	99,152	(D)	(D)
..... sq.ft. under cover	59	55	(D)	(D)
..... acres in the open				
LIVESTOCK, POULTRY, AQUACULTURE AND THEIR PRODUCTS				
Inventory				
Carabaos	8	7	-	1
..... farms	20	(D)	-	(D)
..... number	21	15	-	6
All cattle and calves	97	67	-	30
..... farms	-	-	-	-
..... number	-	-	-	-
Milk cows	21	15	-	6
..... farms	97	67	-	30
..... number	43	27	2	14
Other cattle and calves	540	261	(D)	(D)
..... farms	19	10	1	8
..... number	171	89	(D)	(D)
Hogs and pigs of all ages	1	-	-	1
..... farms	(D)	-	-	(D)
..... number	1	-	-	1
Other livestock	(D)	-	-	(D)
..... farms	53	38	2	13
..... number	3,858	2,930	(D)	(D)
Chicken hens 4 months old or older	27	21	1	5
..... farms	1,552	1,334	(D)	(D)
..... number	37	25	1	11
Other chicken hens	2,701	1,891	(D)	(D)
..... farms	14	13	-	1
..... number	490	(D)	-	(D)
Roosters and pullets	12	9	-	3
..... farms	217	(D)	-	(D)
..... number	7	5	-	2
Fighting roosters	400	(D)	-	(D)
..... farms	12	9	-	3
..... number	144	(D)	-	(D)
Ducks	3	2	-	1
..... farms	101	(D)	-	(D)
..... number	1	1	-	-
Other poultry	(D)	(D)	-	-
..... farms				
..... number				
Sales				
Carabaos	-	-	-	-
..... farms	-	-	-	-
..... number	16	10	-	6
All cattle and calves	33	27	-	6
..... farms	-	-	-	-
..... number	-	-	-	-
Milk cows	16	10	-	6
..... farms	33	27	-	6
..... number	43	27	2	14
Other cattle and calves	540	261	(D)	(D)
..... farms	6	3	1	2
..... number	55	13	(D)	(D)
Hogs and pigs of all ages	-	-	-	-
..... farms	-	-	-	-
..... number	-	-	-	-
Other livestock	-	-	-	-
..... farms	6	4	1	1
..... number	295	(D)	(D)	(D)
Chicken hens 4 months old or older	5	3	1	1
..... farms	245	(D)	(D)	(D)
..... number	3	1	-	2
Other chicken hens	90	(D)	-	(D)
..... farms	-	-	-	-
..... number	-	-	-	-
Chickens under 4 months old	-	-	-	-
..... farms	-	-	-	-
..... number	-	-	-	-
Roosters and pullets	-	-	-	-
..... farms	-	-	-	-
..... number	2	2	-	-
Fighting roosters	(D)	(D)	-	-
..... farms	-	-	-	-
..... number	-	-	-	-
Ducks	-	-	-	-
..... farms	-	-	-	-
..... number	-	-	-	-
Pigeons	-	-	-	-
..... farms	-	-	-	-
..... number	43	31	2	10
Chicken eggs	44,876	35,778	(D)	(D)
..... dozens				
Other poultry and poultry products (excluding chicken eggs)	-	-	-	-
..... farms	-	-	-	-
..... number	6	5	-	1
Fish and other aquaculture products	(D)	(D)	-	(D)
..... farms				
..... pounds				

¹ Includes dry and green corn.

Table 15. Summary by Age of Operator: 2018

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Under 35 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
FARMS AND LAND IN FARMS						
Farms .....number	264	3	9	36	96	120
Percent of farms	100.0	1.1	3.4	13.6	36.4	45.5
Land in farms .....acres	2,441	(D)	(D)	165	1,133	1,060
Percent of distribution	100.0	(D)	(D)	6.7	46.4	43.4
Average size of farm .....acres	9.2	(D)	(D)	4.6	11.8	8.8
LAND USE						
Total cropland .....farms	256	3	9	35	90	119
Harvested .....acres	1,008	3	50	120	401	434
Other .....farms	254	3	9	35	90	117
Pasture or grazing land .....acres	665	3	(D)	(D)	283	258
Woodland .....farms	95	-	3	5	40	47
Other land .....acres	343	-	(D)	(D)	119	176
Other land .....farms	39	1	-	4	15	19
Other land .....acres	152	(D)	-	(D)	72	50
Woodland .....farms	78	1	3	4	33	37
Other land .....acres	1,019	(D)	(D)	(D)	535	470
Other land .....farms	182	1	7	22	72	80
Other land .....acres	261	(D)	(D)	17	124	106
IRRIGATION						
Land irrigated .....farms	258	3	9	35	92	119
Private system .....acres	766	7	46	79	337	297
Public system .....farms	15	-	-	2	9	4
Public system .....acres	71	-	-	(D)	29	(D)
Public system .....farms	248	3	9	34	85	117
Public system .....acres	695	7	46	(D)	308	(D)
FARMS BY MAJOR SOURCE OF IRRIGATION WATER						
Well or cistern	10	-	-	2	5	3
River or stream	5	-	-	-	4	1
Lake or private pond	-	-	-	-	-	-
Canal or irrigation district	-	-	-	-	-	-
Public utility	243	3	9	33	83	115
Other	-	-	-	-	-	-
TENURE OF OPERATOR						
All operators .....farms	264	3	9	36	96	120
Owners .....acres	2,441	(D)	(D)	165	1,133	1,060
Full owners .....farms	177	2	6	22	64	83
Part owners .....acres	1,583	(D)	(D)	50	910	(D)
Tenants .....farms	167	2	6	18	60	81
Tenants .....acres	1,547	(D)	(D)	(D)	894	603
Tenants .....farms	10	-	-	4	4	2
Tenants .....acres	36	-	-	(D)	16	(D)
Tenants .....farms	87	1	3	14	32	37
Tenants .....acres	858	(D)	51	115	223	(D)
FARMS BY SIZE						
Farms .....number	264	3	9	36	96	120
Less than 1 acre	55	-	2	11	20	22
1 to 2 acres	84	1	4	12	27	40
3 to 4 acres	35	-	-	3	13	19
5 to 7 acres	36	1	-	5	14	16
8 to 9 acres	8	-	-	-	4	4
10 to 19 acres	16	1	1	3	4	7
20 acres or more	30	-	2	2	14	12
OPERATOR CHARACTERISTICS						
Operators by place of residence:						
On farm operated	151	2	4	23	57	65
Not on farm operated	113	1	5	13	39	55
Operators by years on present farm:						
2 years or less	11	1	2	3	2	3
3 to 4 years	38	1	4	9	11	13
5 to 9 years	43	1	2	8	16	16
10 years or more	172	-	1	16	67	88
Operators by age group:						
Under 35 years	3	3	-	-	-	-
35 to 44 years	9	-	9	-	-	-
45 to 54 years	36	-	-	36	-	-
55 to 64 years	96	-	-	-	96	-
65 years and over	120	-	-	-	-	120
Average age	62	28	41	50	60	70
Operators by main occupation:						
Agricultural	199	2	5	17	72	103
Nonagricultural	65	1	4	19	24	17
Operators by days of work off farm:						
None	202	2	5	16	78	101
Any	62	1	4	20	18	19
1 to 49 days	8	-	-	4	2	2
50 to 99 days	5	-	-	2	2	1
100 to 149 days	6	-	-	2	1	3
150 to 199 days	24	-	2	5	5	12
200 days or more	19	1	2	7	8	1

See footnote(s) at end of table.

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Table 15. Summary by Age of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Under 35 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
OPERATOR CHARACTERISTICS - Con.						
Operators by race:						
Chamorro	188	1	3	16	72	96
Chinese	8	1	1	1	2	3
Filipino	44	1	5	13	12	13
Japanese	-	-	-	-	-	-
White	9	-	-	3	2	4
Other	15	-	-	3	8	4
Operators by sex:						
Male	188	2	2	26	69	89
Female	76	1	7	10	27	31
COMPUTER USE						
Computers used for the farm business	79	-	5	15	34	25
No computers used for the farm business	185	3	4	21	62	95
Internet access						
Dial-up service	119	-	6	22	50	41
DSL service	2	-	-	2	-	-
Cable modem service	47	-	4	4	20	19
Fiber-optic service	14	-	-	6	6	2
Mobile broadband plan for a computer or cellphone	2	-	-	-	2	-
Satellite service	50	-	2	8	22	18
Broadband over power lines (BPL)	4	-	-	2	-	2
Other type of service	-	-	-	-	-	-
No internet access	145	3	3	14	46	79
LABOR STATUS						
Farms	264	3	9	36	96	120
workers	722	11	29	127	276	279
Unpaid labor	251	3	9	31	92	116
workers	515	(D)	(D)	75	177	229
Less than 25 days	16	-	3	2	4	7
workers	46	-	(D)	(D)	14	19
25 to 149 days	47	-	4	8	10	25
workers	86	-	6	13	16	51
150 days or more	214	3	6	23	88	94
workers	383	(D)	13	(D)	147	159
Paid labor	65	1	3	13	18	30
workers	207	(D)	(D)	52	99	50
Less than 25 days	20	-	1	4	4	11
workers	70	-	(D)	(D)	49	15
25 to 149 days	27	-	2	7	9	9
workers	71	-	(D)	34	24	(D)
150 days or more	27	1	-	7	9	10
workers	66	(D)	-	(D)	26	(D)
SELECTED MACHINERY AND EQUIPMENT						
Tractors (all kinds)	60	-	4	4	24	28
farms	84	-	4	6	34	40
number	92	-	3	9	33	47
Motortrucks	145	-	6	12	61	66
farms	67	1	5	9	25	27
number	91	(D)	(D)	12	39	32
Tillers (all kinds)	79	2	5	9	24	39
number	123	(D)	(D)	20	40	53
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD						
Total sales	264	3	9	36	96	120
farms	3,842,853	27,940	120,287	517,066	1,841,252	1,336,308
dollars	14,556	9,313	13,365	14,363	19,180	11,136
Average per farm						
Farms by value of sales:						
Less than \$1,200	32	-	-	7	10	15
dollars	31,186	-	-	(D)	9,226	(D)
\$1,200 to \$2,499	69	1	5	10	14	39
dollars	117,657	(D)	(D)	(D)	22,763	67,363
\$2,500 to \$4,999	29	-	1	6	13	9
dollars	108,648	-	(D)	21,005	47,123	(D)
\$5,000 to \$7,499	38	1	-	3	20	14
dollars	228,061	(D)	-	(D)	119,642	81,899
\$7,500 to \$9,999	20	-	-	3	9	8
dollars	169,843	-	-	26,700	76,404	66,739
\$10,000 or more	76	1	3	7	30	35
dollars	3,187,458	(D)	108,060	425,611	1,566,094	(D)
SALES BY COMMODITY GROUP OR PRODUCT						
Root crops	54	1	1	13	15	24
dollars	(D)	(D)	(D)	(D)	(D)	22,872
Vegetables and melons	154	2	7	24	46	75
dollars	1,840,346	(D)	101,739	(D)	592,986	747,994
Fruits and nuts	192	3	5	26	71	87
dollars	(D)	(D)	(D)	50,777	300,463	409,472
Nursery crops (including ornamental plants)	48	-	3	8	17	20
dollars	1,027,980	-	4,600	37,922	890,898	94,560
Livestock and livestock products	39	1	-	4	12	22
dollars	81,400	(D)	-	(D)	25,750	49,650
Poultry and poultry products	45	-	-	8	15	22
dollars	57,950	-	-	(D)	(D)	(D)

See footnote(s) at end of table.

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Table 15. Summary by Age of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Under 35 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
SALES BY COMMODITY GROUP OR PRODUCT - Con.						
Fish and other aquaculture products farms	1	-	-	-	-	1
dollars	(D)	-	-	-	-	(D)
SELECTED FARM PRODUCTION EXPENSES						
Machine hire and customwork farms	75	1	4	14	31	25
dollars	459,478	(D)	80,460	47,943	283,995	(D)
Hired farm labor farms	65	1	3	13	18	30
dollars	1,079,446	(D)	(D)	242,406	605,980	171,020
Feed purchased for livestock, poultry, and fish farms	47	1	-	7	16	23
dollars	76,936	(D)	-	(D)	31,790	14,646
Insecticides, fungicides, and herbicides farms	78	1	5	7	31	34
dollars	95,566	(D)	30,500	(D)	44,678	15,978
Fertilizers and manure purchased farms	140	1	6	22	47	64
dollars	322,487	(D)	(D)	31,773	150,880	107,334
Livestock, poultry, and fish purchased farms	7	1	-	1	3	2
dollars	15,450	(D)	-	(D)	900	(D)
Seed cost (including seedlings) farms	94	1	4	15	27	47
dollars	117,655	(D)	(D)	4,842	75,231	32,782
ROOT CROPS HARVESTED FOR SALE						
Cassava (tapioca) farms	24	-	1	5	7	11
acres	4	-	(D)	1	1	(D)
pounds	6,250	-	(D)	(D)	2,520	3,110
Gado farms	10	-	-	3	2	5
acres	1	-	-	(D)	(D)	1
pounds	2,350	-	-	(D)	(D)	1,850
Ginger farms	24	-	-	9	3	12
acres	3	-	-	1	(Z)	2
pounds	729	-	-	384	(D)	(D)
Sweet potatoes farms	18	1	1	6	5	5
acres	2	(D)	(D)	1	1	(D)
pounds	3,665	(D)	(D)	(D)	2,970	255
Taro farms	35	-	-	8	11	16
acres	6	-	-	1	2	3
pounds	8,737	-	-	610	1,892	6,235
Yams farms	28	-	1	6	8	13
acres	4	-	(D)	1	(D)	3
pounds	12,474	-	(D)	1,700	(D)	9,580
Other root crops farms	7	1	-	3	2	1
acres	2	(D)	-	1	(D)	(D)
pounds	6,153	(D)	-	6,013	(D)	(D)
VEGETABLES AND MELONS HARVESTED FOR SALE						
Alfalfa and/or bean sprouts farms	5	-	-	4	1	-
pounds	110	-	-	(D)	(D)	-
Beans, winged farms	32	-	2	11	11	9
acres	6	-	(D)	(D)	3	1
pounds	6,453	-	(D)	(D)	4,420	927
Beans, yard long farms	48	2	1	14	10	21
acres	21	(D)	(D)	5	(D)	11
pounds	82,563	(D)	(D)	24,476	(D)	21,647
Beans, all other farms	7	-	-	-	3	4
acres	2	-	-	-	(Z)	1
pounds	762	-	-	-	380	382
Bittermelons farms	41	1	4	10	8	18
acres	19	(D)	2	(D)	8	6
pounds	122,770	(D)	30,060	(D)	56,970	18,830
Cabbage, Chinese farms	14	-	-	1	5	8
acres	4	-	-	(D)	(D)	3
pounds	9,730	-	-	(D)	(D)	6,990
Cabbage, head farms	1	1	-	-	-	-
acres	(D)	(D)	-	-	-	-
pounds	(D)	(D)	-	-	-	-
Cantaloupes farms	-	-	-	-	-	-
acres	-	-	-	-	-	-
pounds	-	-	-	-	-	-
Corn ¹ farms	9	1	-	1	4	3
acres	34	(D)	-	(D)	(D)	30
pounds	91,530	(D)	-	(D)	(D)	82,400
Cucumbers farms	53	1	4	9	9	30
acres	80	(D)	(D)	(D)	41	21
pounds	302,647	(D)	39,000	87,190	(D)	144,472
Eggplant farms	97	2	5	20	23	47
acres	37	(D)	2	9	(D)	17
pounds	171,583	(D)	(D)	47,862	46,528	41,839
Muskmelons and pepinos farms	8	-	-	-	1	7
acres	6	-	-	-	(D)	(D)
pounds	19,460	-	-	-	(D)	(D)
Okra farms	50	1	3	15	10	21
acres	15	(D)	(D)	5	3	6
pounds	22,176	(D)	(D)	10,606	(D)	6,980
Onions, green farms	27	-	1	9	4	13
acres	3	-	(D)	(D)	1	2
pounds	801	-	(D)	212	(D)	446
Peppers, hot farms	110	1	5	21	32	51
acres	25	(D)	(D)	3	12	9
pounds	28,661	(D)	(D)	2,226	12,994	12,139
Peppers, sweet farms	4	-	-	1	1	2
acres	(D)	-	-	(D)	(D)	(D)
pounds	(D)	-	-	(D)	(D)	(D)
Pumpkins and squash farms	41	-	1	12	8	20
acres	13	-	(D)	4	(D)	7
pounds	36,656	-	(D)	17,210	(D)	17,356

See footnote(s) at end of table.

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Table 15. Summary by Age of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Under 35 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
VEGETABLES AND MELONS HARVESTED FOR SALE - Con.						
Radishes farms	10	1	1	2	2	4
..... acres	3	(D)	(D)	(D)	(D)	2
..... pounds	8,237	(D)	(D)	(D)	(D)	6,900
Tomatoes farms	55	1	2	16	17	19
..... acres	24	(D)	(D)	(D)	9	8
..... pounds	152,182	(D)	(D)	22,606	111,170	14,346
Watermelons farms	12	-	1	2	3	6
..... acres	45	-	(D)	(D)	(D)	25
..... pounds	398,811	-	(D)	(D)	(D)	223,811
Other vegetables and melons farms	35	1	4	5	9	16
..... acres	15	(D)	(D)	(D)	2	4
..... pounds	37,070	(D)	(D)	(D)	5,343	7,287
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE						
Land in bearing and nonbearing fruit						
trees and plants farms	224	3	7	30	83	101
..... acres	292	2	4	36	130	120
Avocados farms	122	-	5	20	40	57
..... trees not of bearing age	402	-	(D)	(D)	167	190
..... trees of bearing age	500	-	38	65	122	275
..... pounds	29,194	-	2,330	3,141	8,027	15,696
Bananas (all types) farms	157	3	3	23	61	67
..... trees not of bearing age	6,327	(D)	-	(D)	1,368	3,904
..... trees of bearing age	27,531	(D)	(D)	3,256	8,622	15,042
..... pounds	443,379	(D)	(D)	5,630	280,973	143,976
Betelnuts farms	80	-	-	6	38	36
..... trees not of bearing age	30,787	-	-	(D)	30,287	(D)
..... trees of bearing age	33,234	-	-	242	31,308	1,684
..... pounds	7,404	-	-	(D)	(D)	3,634
Breadfruits farms	89	-	2	16	32	39
..... trees not of bearing age	100	-	-	9	19	72
..... trees of bearing age	898	-	(D)	(D)	372	357
..... pounds	44,365	-	-	2,200	9,215	32,950
Coconuts farms	81	-	-	17	33	31
..... trees not of bearing age	1,068	-	-	313	297	458
..... trees of bearing age	2,507	-	-	160	1,120	1,227
..... pounds	97,625	-	-	3,255	30,850	63,520
Coffee farms	8	-	-	-	6	2
..... trees not of bearing age	60	-	-	-	60	-
..... trees of bearing age	11	-	-	-	(D)	(D)
..... pounds	(D)	-	-	-	(D)	-
Dragon Fruit farms	51	-	-	12	15	24
..... trees not of bearing age	536	-	-	134	149	253
..... trees of bearing age	1,828	-	-	98	779	951
..... pounds	11,054	-	-	660	4,795	5,599
Grapefruit farms	31	-	-	5	14	12
..... trees not of bearing age	142	-	-	(D)	86	(D)
..... trees of bearing age	117	-	-	9	55	53
..... pounds	3,429	-	-	150	769	2,510
Guavas farms	78	-	1	14	27	36
..... trees not of bearing age	(D)	-	-	81	(D)	51
..... trees of bearing age	1,413	-	(D)	(D)	(D)	209
..... pounds	5,434	-	(D)	(D)	1,255	3,884
Lemons and limes farms	161	1	3	23	58	76
..... trees not of bearing age	2,774	(D)	(D)	533	918	1,293
..... trees of bearing age	3,230	(D)	(D)	497	1,506	1,191
..... pounds	44,563	(D)	(D)	7,427	19,554	17,138
Mangoes farms	131	-	5	15	47	64
..... trees not of bearing age	1,576	-	(D)	(D)	237	1,279
..... trees of bearing age	695	-	11	37	213	434
..... pounds	74,343	-	(D)	(D)	32,953	38,922
Oranges farms	19	-	-	4	6	9
..... trees not of bearing age	30	-	-	-	(D)	(D)
..... trees of bearing age	48	-	-	6	27	15
..... pounds	588	-	-	102	(D)	(D)
Papayas farms	105	1	2	21	34	47
..... trees not of bearing age	8,551	(D)	-	(D)	6,372	1,306
..... trees of bearing age	4,100	(D)	(D)	878	2,263	850
..... pounds	61,269	(D)	(D)	9,235	26,101	21,833
Pineapples farms	48	-	2	7	16	23
..... trees not of bearing age	1,660	-	-	(D)	(D)	506
..... trees of bearing age	4,107	-	(D)	78	(D)	533
..... pounds	9,068	-	-	(D)	(D)	1,062
Soursops farms	121	-	3	17	49	52
..... vines not of bearing age	1,052	-	(D)	(D)	324	571
..... vines of bearing age	1,899	-	7	181	429	1,282
..... pounds	27,250	-	(D)	(D)	8,188	17,507
Starfruits farms	68	-	-	5	27	36
..... trees not of bearing age	54	-	-	13	21	20
..... trees of bearing age	174	-	-	17	66	91
..... pounds	4,605	-	-	450	1,110	3,045
Sweetsops farms	55	-	-	9	20	26
..... trees not of bearing age	123	-	-	12	57	54
..... trees of bearing age	347	-	-	70	139	138
..... pounds	3,185	-	-	1,010	752	1,423
Tangerines farms	46	1	-	13	12	20
..... trees not of bearing age	174	-	-	35	82	57
..... trees of bearing age	332	(D)	-	147	(D)	118
..... pounds	6,766	(D)	-	1,460	(D)	4,098
Other fruits, nuts, and tree crops farms	54	-	1	8	27	18
..... plants or trees not of bearing age	369	-	-	27	228	114
..... plants or trees of bearing age	358	-	(D)	(D)	206	88
..... pounds	6,664	-	(D)	(D)	2,156	3,733

See footnote(s) at end of table.

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Table 15. Summary by Age of Operator: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Under 35 years	35 to 44 years	45 to 54 years	55 to 64 years	65 years and over
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE - Con.						
Nursery crops (including ornamental plants)	48	-	3	8	17	20
..... farms	195,952	-	800	2,100	170,552	22,500
sq.ft. under cover	59	-	(D)	(D)	55	2
acres in the open						
LIVESTOCK, POULTRY, AQUACULTURE AND THEIR PRODUCTS						
Inventory						
Carabaos	8	-	-	-	4	4
..... farms	20	-	-	-	8	12
number	21	1	-	3	7	10
All cattle and calves	97	(D)	-	(D)	36	43
..... farms	-	-	-	-	-	-
number	-	-	-	-	-	-
Milk cows	21	1	-	3	7	10
..... farms	97	(D)	-	(D)	36	43
number	43	1	-	4	16	22
Other cattle and calves	540	(D)	-	(D)	225	295
..... farms	19	-	-	2	7	10
number	171	-	-	(D)	(D)	119
Hogs and pigs of all ages	1	-	-	1	-	-
..... farms	(D)	-	-	(D)	-	-
number	1	-	-	1	-	-
Other livestock	(D)	-	-	(D)	-	-
..... farms	53	-	-	8	19	26
number	3,858	-	-	529	1,282	2,047
Chicken hens 4 months old or older	27	-	-	7	10	10
..... farms	1,552	-	-	449	(D)	(D)
number	37	-	-	3	10	24
Other chicken hens	2,701	-	-	(D)	(D)	1,656
..... farms	14	-	-	1	6	7
number	490	-	-	(D)	246	(D)
Roosters and pullets	12	-	-	1	4	7
..... farms	217	-	-	(D)	(D)	141
number	7	-	-	7	6	1
Fighting roosters	400	-	-	-	(D)	(D)
..... farms	12	-	-	-	4	8
number	144	-	-	-	57	87
Ducks	3	-	-	-	3	-
..... farms	101	-	-	-	101	-
number	1	-	-	-	-	1
Other poultry	(D)	-	-	-	-	(D)
..... farms						
number						
Sales						
Carabaos	-	-	-	-	-	-
..... farms	-	-	-	-	-	-
number	16	1	-	3	5	7
All cattle and calves	33	(D)	-	(D)	7	22
..... farms	-	-	-	-	-	-
number	-	-	-	-	-	-
Milk cows	16	1	-	3	5	7
..... farms	33	(D)	-	(D)	7	22
number	43	1	-	4	16	22
Other cattle and calves	540	(D)	-	(D)	225	295
..... farms	6	-	-	1	2	3
number	55	-	-	(D)	(D)	13
Hogs and pigs of all ages	-	-	-	-	-	-
..... farms	-	-	-	-	-	-
number	-	-	-	-	-	-
Other livestock	-	-	-	-	-	-
..... farms	6	-	-	2	2	2
number	295	-	-	(D)	(D)	(D)
Chicken hens 4 months old or older	5	-	-	1	2	2
..... farms	245	-	-	(D)	(D)	(D)
number	3	-	-	1	-	2
Other chicken hens	90	-	-	(D)	-	(D)
..... farms	-	-	-	-	-	-
number	-	-	-	-	-	-
Roosters and pullets	-	-	-	-	-	-
..... farms	-	-	-	-	-	-
number	-	-	-	-	-	-
Fighting roosters	2	-	-	-	2	-
..... farms	(D)	-	-	-	(D)	-
number	-	-	-	-	-	-
Ducks	-	-	-	-	-	-
..... farms	-	-	-	-	-	-
number	-	-	-	-	-	-
Pigeons	-	-	-	-	-	-
..... farms	-	-	-	-	-	-
number	43	-	-	8	15	20
Chicken eggs	44,876	-	-	6,392	16,154	22,330
..... farms						
dozens						
Other poultry and poultry products (excluding chicken eggs)	-	-	-	-	-	-
..... farms	-	-	-	-	-	-
number	6	1	-	-	1	4
Fish and other aquaculture products	(D)	(D)	-	-	-	(D)
..... farms						
pounds						

¹ Includes dry and green corn.

Table 16. Summary by Size of Farm: 2018

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than 1 acre	1 to 2 acres	3 to 4 acres	5 to 7 acres	8 to 9 acres	10 to 19 acres	20 acres or more
FARMS AND LAND IN FARMS								
Farms number	264	55	84	35	36	8	16	30
Percent of farms	100.0	20.8	31.8	13.3	13.6	3.0	6.1	11.4
Land in farms acres	2,441	27	131	123	196	68	193	1,705
Percent of distribution	100.0	1.1	5.3	5.0	8.0	2.8	7.9	69.8
Average size of farm acres	9.2	0.5	1.6	3.5	5.4	8.4	12.0	56.8
LAND USE								
Total cropland farms	256	53	82	35	34	8	15	29
Harvested acres	1,008	21	99	90	124	33	107	535
Other farms	254	53	82	35	33	8	15	28
Pasture or grazing land acres	665	(D)	90	67	79	(D)	77	319
Woodland farms	95	2	18	17	20	7	7	24
Other land acres	343	(D)	9	23	45	(D)	30	216
Pasture or grazing land farms	39	5	6	7	5	1	8	7
Woodland acres	152	(D)	2	3	13	(D)	28	101
Other land farms	78	-	12	12	19	6	8	21
Other land acres	1,019	-	4	14	40	18	36	908
Other land farms	182	33	65	27	20	6	11	20
Other land acres	261	(D)	26	16	20	(D)	21	161
IRRIGATION								
Land irrigated farms	258	53	82	35	36	8	15	29
Private system acres	766	24	88	68	98	17	78	392
Public system farms	15	4	-	2	2	1	-	6
Public system acres	71	2	-	(D)	(D)	(D)	-	63
Public system farms	248	49	82	33	35	7	15	27
Public system acres	695	22	88	(D)	(D)	(D)	78	329
FARMS BY MAJOR SOURCE OF IRRIGATION WATER								
Well or cistern	10	4	-	-	1	1	-	4
River or stream	5	-	-	2	1	-	-	2
Lake or private pond	-	-	-	-	-	-	-	-
Canal or irrigation district	-	-	-	-	-	-	-	-
Public utility	243	49	82	33	34	7	15	23
Other	-	-	-	-	-	-	-	-
TENURE OF OPERATOR								
All operators farms	264	55	84	35	36	8	16	30
Owners acres	2,441	27	131	123	196	68	193	1,705
Full owners farms	177	42	61	28	16	5	9	16
Part owners acres	1,583	21	(D)	(D)	88	41	98	1,141
Tenants farms	167	42	59	23	13	5	9	16
Tenants acres	1,547	21	92	82	72	41	98	1,141
Tenants farms	10	-	2	5	3	-	-	-
Tenants acres	36	-	(D)	(D)	16	-	-	-
Tenants farms	87	13	23	7	20	3	7	14
Tenants acres	858	6	(D)	(D)	109	27	95	564
FARMS BY SIZE								
Farms number	264	55	84	35	36	8	16	30
Less than 1 acre	55	55	-	-	-	-	-	-
1 to 2 acres	84	-	84	-	-	-	-	-
3 to 4 acres	35	-	-	35	-	-	-	-
5 to 7 acres	36	-	-	-	36	-	-	-
8 to 9 acres	8	-	-	-	-	8	-	-
10 to 19 acres	16	-	-	-	-	-	16	-
20 acres or more	30	-	-	-	-	-	-	30
OPERATOR CHARACTERISTICS								
Operators by place of residence:								
On farm operated	151	36	54	18	17	4	8	14
Not on farm operated	113	19	30	17	19	4	8	16
Operators by years on present farm:								
2 years or less	11	4	1	1	3	1	1	-
3 to 4 years	38	8	10	2	8	2	5	3
5 to 9 years	43	4	17	8	7	1	2	4
10 years or more	172	39	56	24	18	4	8	23
Operators by age group:								
Under 35 years	3	-	1	-	1	-	1	-
35 to 44 years	9	2	4	-	-	-	1	2
45 to 54 years	36	11	12	3	5	-	3	2
55 to 64 years	96	20	27	13	14	4	4	14
65 years and over	120	22	40	19	16	4	7	12
Average age	62	61	63	66	61	67	59	63
Operators by main occupation:								
Agricultural	199	27	65	29	30	6	15	27
Nonagricultural	65	28	19	6	6	2	1	3
Operators by days of work off farm:								
None	202	32	62	29	33	8	12	26
Any	62	23	22	6	3	-	4	4
1 to 49 days	8	2	3	1	-	-	1	1
50 to 99 days	5	3	1	-	-	-	1	-
100 to 149 days	6	2	4	-	-	-	-	-
150 to 199 days	24	10	9	-	2	-	2	1
200 days or more	19	6	5	5	1	-	-	2

See footnote(s) at end of table.

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Table 16. Summary by Size of Farm: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than 1 acre	1 to 2 acres	3 to 4 acres	5 to 7 acres	8 to 9 acres	10 to 19 acres	20 acres or more
SALES BY COMMODITY GROUP OR PRODUCT - Con.								
Fish and other aquaculture products farms	1	1	-	-	-	-	-	-
dollars	(D)	(D)	-	-	-	-	-	-
SELECTED FARM PRODUCTION EXPENSES								
Machine hire and customwork farms	75	15	19	5	7	5	5	19
dollars	459,478	91,860	32,345	(D)	16,000	(D)	17,800	281,573
Hired farm labor farms	65	4	14	7	13	1	9	17
dollars	1,079,446	(D)	131,380	6,000	134,572	(D)	43,200	750,314
Feed purchased for livestock, poultry, and fish farms	47	10	12	9	5	-	5	6
dollars	76,936	7,680	18,260	8,836	13,100	-	(D)	(D)
Insecticides, fungicides, and herbicides farms	78	7	20	11	13	5	5	17
dollars	95,566	(D)	7,668	4,700	5,920	2,300	(D)	52,378
Fertilizers and manure purchased farms	140	20	41	24	18	6	9	22
dollars	322,487	8,374	24,796	19,816	30,550	3,320	32,468	203,163
Livestock, poultry, and fish purchased farms	7	1	2	1	2	-	1	-
dollars	15,450	(D)	(D)	(D)	(D)	-	(D)	-
Seed cost (including seedlings) farms	94	11	27	14	15	5	7	15
dollars	117,655	(D)	6,717	4,000	45,050	(D)	9,260	25,527
ROOT CROPS HARVESTED FOR SALE								
Cassava (tapioca) farms	24	1	11	1	7	1	-	3
acres	4	(D)	1	(D)	2	(D)	-	(Z)
pounds	6,250	(D)	2,070	(D)	3,500	(D)	-	250
Gado farms	10	1	1	1	5	-	-	2
acres	1	(D)	(D)	(D)	1	-	-	(D)
pounds	2,350	(D)	(D)	(D)	1,800	-	-	(D)
Ginger farms	24	5	14	3	2	-	-	-
acres	3	(D)	2	1	(D)	-	-	-
pounds	729	120	409	(D)	(D)	-	-	-
Sweet potatoes farms	18	2	11	-	3	-	-	2
acres	2	(D)	2	-	(D)	-	-	(D)
pounds	3,665	(D)	2,555	-	(D)	-	-	(D)
Taro farms	35	5	18	2	7	1	-	2
acres	6	1	3	(D)	2	(D)	-	(D)
pounds	8,737	555	5,072	(D)	2,280	(D)	-	(D)
Yams farms	28	3	11	2	6	2	-	4
acres	4	(D)	1	(D)	1	(D)	-	1
pounds	12,474	840	7,674	(D)	1,500	(D)	-	300
Other root crops farms	7	1	3	2	1	-	-	-
acres	2	(D)	(Z)	(D)	(D)	-	-	-
pounds	6,153	(D)	(D)	(D)	(D)	-	-	-
VEGETABLES AND MELONS HARVESTED FOR SALE								
Alfalfa and/or bean sprouts farms	5	1	4	-	-	-	-	-
pounds	110	(D)	(D)	-	-	-	-	-
Beans, winged farms	32	8	12	4	4	-	-	4
acres	6	1	3	1	1	-	-	1
pounds	6,453	1,955	1,328	650	470	-	-	2,050
Beans, yard long farms	48	8	12	6	6	-	8	8
acres	21	1	2	2	1	-	7	8
pounds	82,563	580	2,644	14,880	1,764	-	36,495	26,200
Beans, all other farms	7	-	5	-	2	-	-	-
acres	2	-	(D)	-	(D)	-	-	-
pounds	762	-	(D)	-	(D)	-	-	-
Bittermelons farms	41	2	6	7	10	1	8	7
acres	19	(D)	(D)	2	3	(D)	4	9
pounds	122,770	(D)	(D)	5,900	4,710	(D)	34,266	74,500
Cabbage, Chinese farms	14	-	2	3	2	1	2	4
acres	4	-	(D)	(Z)	(D)	(D)	(D)	2
pounds	9,730	-	(D)	(D)	(D)	(D)	(D)	6,425
Cabbage, head farms	1	-	1	-	-	-	-	-
acres	(D)	-	(D)	-	-	-	-	-
pounds	(D)	-	(D)	-	-	-	-	-
Cantaloupes farms	-	-	-	-	-	-	-	-
acres	-	-	-	-	-	-	-	-
pounds	-	-	-	-	-	-	-	-
Corn ¹ farms	9	-	3	-	1	-	-	5
acres	34	-	(D)	-	(D)	-	-	34
pounds	91,530	-	(D)	-	(D)	-	-	87,800
Cucumbers farms	53	6	6	5	12	1	10	13
acres	80	(D)	2	1	6	(D)	18	52
pounds	302,647	(D)	8,400	10,260	50,240	(D)	70,840	161,600
Eggplant farms	97	16	27	17	13	1	7	16
acres	37	(D)	4	6	4	(D)	9	11
pounds	171,583	(D)	17,488	18,615	30,197	(D)	40,800	62,228
Muskmelons and pepinos farms	8	1	-	1	1	-	-	5
acres	6	(D)	-	(D)	(D)	-	-	5
pounds	19,460	(D)	-	(D)	(D)	-	-	(D)
Okra farms	50	8	15	6	10	2	4	5
acres	15	(D)	3	1	2	(D)	3	5
pounds	22,176	(D)	1,444	2,490	4,307	(D)	8,050	5,500
Onions, green farms	27	5	11	3	5	2	1	-
acres	3	(D)	1	(Z)	1	(D)	(D)	-
pounds	801	115	152	(D)	259	(D)	(D)	-
Peppers, hot farms	110	25	39	16	9	4	7	10
acres	25	3	5	3	1	1	3	9
pounds	28,661	2,359	5,443	3,340	2,107	212	4,460	10,740
Peppers, sweet farms	4	2	1	-	1	-	-	-
acres	(D)	(D)	(D)	-	(D)	-	-	-
pounds	(D)	(D)	(D)	-	(D)	-	-	-
Pumpkins and squash farms	41	5	18	3	6	2	4	3
acres	13	(D)	5	(Z)	2	(D)	3	(D)
pounds	36,656	500	4,920	(D)	1,772	(D)	23,000	4,000

See footnote(s) at end of table.

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Table 16. Summary by Size of Farm: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than 1 acre	1 to 2 acres	3 to 4 acres	5 to 7 acres	8 to 9 acres	10 to 19 acres	20 acres or more
VEGETABLES AND MELONS HARVESTED FOR SALE - Con.								
Radishes farms	10	-	2	1	3	-	1	3
..... acres	3	-	(D)	(D)	1	-	(D)	(Z)
..... pounds	8,237	-	(D)	(D)	(D)	-	(D)	2,100
Tomatoes farms	55	10	12	9	12	1	2	9
..... acres	24	(D)	2	3	6	(D)	(D)	8
..... pounds	152,182	(D)	3,432	16,400	81,200	(D)	(D)	41,800
Watermelons farms	12	-	1	2	1	-	1	7
..... acres	45	-	(D)	(D)	(D)	-	(D)	43
..... pounds	398,811	-	(D)	(D)	(D)	-	(D)	380,000
Other vegetables and melons farms	35	7	11	4	8	1	1	3
..... acres	15	2	1	(Z)	9	(D)	(D)	(D)
..... pounds	37,070	2,292	5,626	(D)	4,191	(D)	(D)	3,600
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE								
Land in bearing and nonbearing fruit trees and plants farms	224	44	78	31	26	8	10	27
..... acres	292	19	70	45	41	10	25	83
Avocados farms	122	27	44	20	11	6	4	10
..... trees not of bearing age	402	34	165	35	(D)	(D)	(D)	(D)
..... trees of bearing age	500	83	147	59	55	(D)	(D)	124
..... pounds	29,194	5,398	6,046	4,820	2,320	(D)	(D)	8,760
Bananas (all types) farms	157	29	65	24	14	6	6	13
..... trees not of bearing age	6,327	225	3,999	(D)	1,055	(D)	193	270
..... trees of bearing age	27,531	(D)	7,106	13,948	2,465	(D)	1,162	1,372
..... pounds	443,379	18,030	89,858	274,672	24,449	(D)	20,845	(D)
Betelnuts farms	80	18	27	14	7	4	4	9
..... trees not of bearing age	30,787	127	272	(D)	(D)	(D)	(D)	30,110
..... trees of bearing age	33,234	1,149	786	406	617	(D)	(D)	30,196
..... pounds	7,404	2,645	1,793	1,439	557	170	-	800
Breadfruits farms	89	19	34	15	6	3	1	11
..... trees not of bearing age	100	(D)	49	20	-	(D)	(D)	-
..... trees of bearing age	898	47	228	272	48	(D)	(D)	294
..... pounds	44,365	3,390	11,495	22,070	(D)	(D)	(D)	4,150
Coconuts farms	81	16	37	10	6	4	3	5
..... trees not of bearing age	1,068	176	346	(D)	260	163	(D)	45
..... trees of bearing age	2,507	157	740	1,070	(D)	(D)	190	280
..... pounds	97,625	11,800	44,355	36,500	(D)	-	(D)	2,600
Coffee farms	8	2	3	-	1	-	-	2
..... trees not of bearing age	60	(D)	(D)	-	-	-	-	(D)
..... trees of bearing age	11	(D)	(D)	-	(D)	-	-	-
..... pounds	(D)	-	(D)	-	-	-	-	-
Dragon Fruit farms	51	11	19	7	7	4	1	2
..... trees not of bearing age	536	137	139	(D)	110	(D)	-	(D)
..... trees of bearing age	1,828	193	638	131	613	(D)	(D)	(D)
..... pounds	11,054	942	1,249	(D)	660	675	(D)	(D)
Grapefruit farms	31	2	13	7	4	2	1	2
..... trees not of bearing age	142	-	16	42	(D)	(D)	(D)	-
..... trees of bearing age	117	(D)	34	31	12	(D)	(D)	(D)
..... pounds	3,429	(D)	1,504	890	145	(D)	(D)	(D)
Guavas farms	78	16	37	12	7	2	1	3
..... trees not of bearing age	(D)	59	120	11	(D)	(D)	(D)	(D)
..... trees of bearing age	1,413	74	229	(D)	59	(D)	(D)	(D)
..... pounds	5,434	700	3,829	365	355	(D)	-	(D)
Lemons and limes farms	161	33	62	24	13	6	6	17
..... trees not of bearing age	2,774	407	526	376	85	(D)	(D)	1,232
..... trees of bearing age	3,230	377	1,201	441	459	36	105	611
..... pounds	44,563	6,548	12,923	7,576	7,205	506	3,275	6,530
Mangoes farms	131	30	45	23	13	4	3	13
..... trees not of bearing age	1,576	67	221	22	41	9	(D)	(D)
..... trees of bearing age	695	182	206	156	57	16	17	61
..... pounds	74,343	20,336	16,264	20,228	10,740	(D)	(D)	6,100
Oranges farms	19	4	10	2	2	-	-	1
..... trees not of bearing age	30	(D)	(D)	-	-	-	-	(D)
..... trees of bearing age	48	(D)	18	(D)	(D)	-	-	-
..... pounds	588	(D)	126	-	(D)	-	-	-
Papayas farms	105	22	35	19	9	2	7	11
..... trees not of bearing age	8,551	(D)	632	474	866	(D)	(D)	6,250
..... trees of bearing age	4,100	187	412	1,419	750	(D)	(D)	1,124
..... pounds	61,269	(D)	10,820	22,589	5,452	(D)	8,875	7,350
Pineapples farms	48	10	19	12	5	-	-	2
..... trees not of bearing age	1,660	(D)	230	332	(D)	-	-	(D)
..... trees of bearing age	4,107	60	323	(D)	410	-	-	(D)
..... pounds	9,068	115	(D)	(D)	856	-	-	(D)
Soursops farms	121	25	52	16	14	1	3	10
..... vines not of bearing age	1,052	152	100	14	66	-	280	440
..... vines of bearing age	1,899	105	645	110	204	(D)	(D)	743
..... pounds	27,250	1,953	16,253	2,571	4,243	(D)	(D)	2,060
Starfruits farms	68	15	27	12	9	1	1	3
..... trees not of bearing age	54	8	23	-	13	(D)	(D)	(D)
..... trees of bearing age	174	26	75	49	16	(D)	(D)	(D)
..... pounds	4,605	1,005	1,740	1,130	550	(D)	(D)	(D)
Sweetsops farms	55	12	24	8	7	1	1	2
..... trees not of bearing age	123	25	58	(D)	(D)	(D)	(D)	-
..... trees of bearing age	347	56	114	78	38	(D)	(D)	(D)
..... pounds	3,185	823	1,063	787	277	(D)	(D)	(D)
Tangerines farms	46	7	22	5	5	1	4	2
..... trees not of bearing age	174	19	67	(D)	(D)	-	(D)	(D)
..... trees of bearing age	332	18	89	20	165	(D)	12	(D)
..... pounds	6,766	124	1,827	860	(D)	(D)	150	(D)
Other fruits, nuts, and tree crops farms	54	14	21	6	10	2	-	1
..... plants or trees not of bearing age	369	101	144	(D)	68	(D)	-	-
..... plants or trees of bearing age	358	39	196	(D)	80	(D)	-	(D)
..... pounds	6,664	(D)	1,276	(D)	3,010	(D)	-	(D)

See footnote(s) at end of table.

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Table 16. Summary by Size of Farm: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than 1 acre	1 to 2 acres	3 to 4 acres	5 to 7 acres	8 to 9 acres	10 to 19 acres	20 acres or more
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE - Con.								
Nursery crops (including ornamental plants) farms	48	15	14	4	9	-	2	4
sq.ft. under cover	195,952	(D)	20,500	(D)	(D)	-	(D)	68,152
acres in the open	59	2	4	(D)	4	(D)	(D)	49
LIVESTOCK, POULTRY, AQUACULTURE AND THEIR PRODUCTS								
Inventory								
Carabaos farms	8	-	2	-	1	-	3	2
number	20	-	(D)	-	(D)	-	10	(D)
All cattle and calves farms	21	4	1	3	4	1	5	3
number	97	12	(D)	(D)	24	(D)	30	21
Milk cows farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Other cattle and calves farms	21	4	1	3	4	1	5	3
number	97	12	(D)	(D)	24	(D)	30	21
Hogs and pigs of all ages farms	43	3	17	12	5	-	2	4
number	540	(D)	271	143	52	-	(D)	65
Goats and kids of all ages farms	19	4	5	1	2	-	4	3
number	171	44	67	(D)	(D)	-	21	25
Horses, mules, and colts of all ages farms	1	-	-	-	-	-	-	1
number	(D)	-	-	-	-	-	-	(D)
Other livestock farms	1	-	-	-	-	-	-	1
number	(D)	-	-	-	-	-	-	(D)
Chicken hens 4 months old or older farms	53	11	18	11	4	2	5	2
number	3,858	409	1,304	760	540	(D)	736	(D)
Commercial layers farms	27	7	10	3	1	1	4	1
number	1,552	229	304	400	(D)	(D)	(D)	(D)
Other chicken hens farms	37	5	11	12	3	1	4	1
number	2,701	185	1,100	650	(D)	(D)	(D)	(D)
Chickens under 4 months old farms	14	3	4	2	2	-	-	1
number	490	(D)	168	124	(D)	-	-	(D)
Roosters and pullets farms	12	3	2	2	-	2	2	1
number	217	44	(D)	(D)	-	(D)	(D)	(D)
Fighting roosters farms	7	-	1	2	2	-	2	-
number	400	-	(D)	(D)	(D)	-	(D)	-
Ducks farms	12	-	5	2	1	1	3	-
number	144	-	65	(D)	(D)	(D)	33	-
Pigeons farms	3	-	-	-	-	-	1	2
number	101	-	-	-	-	-	(D)	(D)
Other poultry farms	1	-	-	1	-	-	-	-
number	(D)	-	-	(D)	-	-	-	-
Sales								
Carabaos farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
All cattle and calves farms	16	2	2	-	4	-	5	3
number	33	(D)	(D)	-	5	-	5	5
Milk cows farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Other cattle and calves farms	16	2	2	-	4	-	5	3
number	33	(D)	(D)	-	5	-	5	5
Hogs and pigs of all ages farms	43	3	17	12	5	-	2	4
number	540	(D)	271	143	52	-	(D)	65
Goats and kids of all ages farms	6	2	2	2	-	-	-	-
number	55	(D)	(D)	(D)	-	-	-	-
Horses, mules, and colts of all ages farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Other livestock farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Chicken hens 4 months old or older farms	6	2	1	1	-	-	1	1
number	295	(D)	(D)	(D)	-	-	(D)	(D)
Commercial layers farms	5	1	1	1	-	-	1	1
number	245	(D)	(D)	(D)	-	-	(D)	(D)
Other chicken hens farms	3	1	2	-	-	-	-	-
number	90	(D)	(D)	-	-	-	-	-
Chickens under 4 months old farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Roosters and pullets farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Fighting roosters farms	2	-	-	-	2	-	-	-
number	(D)	-	-	-	(D)	-	-	-
Ducks farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Pigeons farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Chicken eggs farms	43	8	13	10	4	2	4	2
dozens	44,876	2,607	15,266	8,450	11,020	(D)	(D)	(D)
Other poultry and poultry products (excluding chicken eggs) farms	-	-	-	-	-	-	-	-
number	-	-	-	-	-	-	-	-
Fish and other aquaculture products farms	6	2	2	1	-	-	1	-
pounds	(D)	(D)	(D)	(D)	-	-	(D)	-

¹ Includes dry and green corn.

Table 17. Summary by Market Value of Agricultural Products Sold: 2018

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than \$1,200	\$1,200 to \$2,499	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 or more
FARMS AND LAND IN FARMS							
Farms .....number	264	32	69	29	38	20	76
Percent of farms	100.0	12.1	26.1	11.0	14.4	7.6	28.8
Land in farms .....acres	2,441	190	196	67	118	70	1,800
Percent of distribution	100.0	7.8	8.0	2.7	4.8	2.9	73.7
Average size of farm .....acres	9.2	5.9	2.8	2.3	3.1	3.5	23.7
LAND USE							
Total cropland .....farms	256	27	66	29	38	20	76
.....acres	1,008	46	103	51	75	46	688
Harvested .....farms	254	26	65	29	38	20	76
.....acres	665	27	64	38	54	32	450
Other .....farms	95	7	16	12	13	7	40
.....acres	343	19	39	13	20	14	238
Pasture or grazing land .....farms	39	7	8	3	8	1	12
.....acres	152	53	10	(D)	(D)	(D)	75
Woodland .....farms	78	12	17	3	11	5	30
.....acres	1,019	77	52	3	25	12	851
Other land .....farms	182	24	47	18	25	14	54
.....acres	261	14	31	(D)	(D)	(D)	187
IRRIGATION							
Land irrigated .....farms	258	27	68	29	38	20	76
.....acres	766	39	78	47	60	27	515
Private system .....farms	15	1	4	1	1	2	6
.....acres	71	(D)	2	(D)	(D)	(D)	63
Public system .....farms	248	26	64	29	37	18	74
.....acres	695	(D)	76	(D)	(D)	(D)	452
FARMS BY MAJOR SOURCE OF IRRIGATION WATER							
Well or cistern	10	1	4	1	-	-	4
River or stream	5	-	-	-	1	2	2
Lake or private pond	-	-	-	-	-	-	-
Canal or irrigation district	-	-	-	-	-	-	-
Public utility	243	26	64	28	37	18	70
Other	-	-	-	-	-	-	-
TENURE OF OPERATOR							
All operators .....farms	264	32	69	29	38	20	76
.....acres	2,441	190	196	67	118	70	1,800
Owners .....farms	177	22	50	20	26	13	46
.....acres	1,583	139	(D)	(D)	79	(D)	(D)
Full owners .....farms	167	22	49	18	22	12	44
.....acres	1,547	139	90	40	62	54	1,162
Part owners .....farms	10	-	1	2	4	1	2
.....acres	36	-	(D)	(D)	17	(D)	(D)
Tenants .....farms	87	10	19	9	12	7	30
.....acres	858	52	(D)	(D)	40	(D)	(D)
FARMS BY SIZE							
Farms .....farms	264	32	69	29	38	20	76
Less than 1 acre	55	9	27	6	7	3	3
1 to 2 acres	84	12	20	16	13	8	15
3 to 4 acres	35	4	8	4	5	3	11
5 to 7 acres	36	1	6	2	11	3	13
8 to 9 acres	8	-	5	1	1	1	-
10 to 19 acres	16	3	1	-	1	2	9
20 acres or more	30	3	2	-	-	-	25
OPERATOR CHARACTERISTICS							
Operators by place of residence:							
On farm operated	151	20	44	16	24	10	37
Not on farm operated	113	12	25	13	14	10	39
Operators by years on present farm:							
2 years or less	11	2	4	3	1	-	1
3 to 4 years	38	7	12	3	5	-	11
5 to 9 years	43	6	9	8	7	2	11
10 years or more	172	17	44	15	25	18	53
Operators by age group:							
Under 35 years	3	-	1	-	1	-	1
35 to 44 years	9	-	5	1	-	-	3
45 to 54 years	36	7	10	6	3	3	7
55 to 64 years	96	10	14	13	20	9	30
65 years and over	120	15	39	9	14	8	35
Average age	62	65	63	60	62	62	62
Operators by main occupation:							
Agricultural	199	19	39	19	33	18	71
Nonagricultural	65	13	30	10	5	2	5
Operators by days of work off farm:							
None	202	23	45	19	33	16	66
Any	62	9	24	10	5	4	10
1 to 49 days	8	1	3	2	-	-	2
50 to 99 days	5	-	2	-	1	1	1
100 to 149 days	6	1	1	1	1	-	2
150 to 199 days	24	6	9	5	-	1	3
200 days or more	19	1	9	2	3	2	2

See footnote(s) at end of table.

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Table 17. Summary by Market Value of Agricultural Products Sold: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than \$1,200	\$1,200 to \$2,499	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 or more
OPERATOR CHARACTERISTICS - Con.							
Operators by race:							
Chamorro	188	24	50	20	26	18	50
Chinese	8	-	-	1	2	-	5
Filipino	44	6	15	3	7	2	11
Japanese	-	-	-	-	-	-	-
White	9	-	2	2	1	-	4
Other	15	2	2	3	2	-	6
Operators by sex:							
Male	188	20	47	23	31	15	52
Female	76	12	22	6	7	5	24
COMPUTER USE							
Computers used for the farm business	79	8	20	11	10	8	22
No computer used for the farm business	185	24	49	18	28	12	54
Internet access							
Dial-up service	2	-	-	-	-	2	-
DSL service	47	5	13	7	5	6	11
Cable modem service	14	2	-	4	-	1	7
Fiber-optic service	2	-	-	-	2	-	-
Mobile broadband plan for a computer or cellphone	50	4	14	3	5	4	20
Satellite service	-	-	-	-	-	-	-
Broadband over power lines (BPL)	4	-	3	-	-	-	1
Other type of service	-	-	-	-	-	-	-
No internet access	145	21	39	15	26	7	37
LABOR STATUS							
Farms	264	32	69	29	38	20	76
workers	722	65	153	85	72	40	307
Unpaid labor	251	29	69	29	37	20	67
workers	515	53	143	75	64	34	146
Less than 25 days	16	-	13	1	-	-	2
workers	46	-	(D)	(D)	-	-	(D)
25 to 149 days	47	4	18	3	6	2	14
workers	86	8	(D)	(D)	9	(D)	(D)
150 days or more	214	26	49	25	33	20	61
workers	383	45	(D)	69	55	(D)	110
Paid labor	65	6	9	5	5	4	36
workers	207	12	10	10	8	6	161
Less than 25 days	20	1	5	2	3	1	8
workers	70	(D)	6	(D)	(D)	(D)	54
25 to 149 days	27	-	4	1	1	2	19
workers	71	-	4	(D)	(D)	(D)	60
150 days or more	27	5	-	2	1	1	18
workers	66	(D)	-	(D)	(D)	(D)	47
SELECTED MACHINERY AND EQUIPMENT							
Tractors (all kinds)	60	6	12	8	4	2	28
farms	84	(D)	16	8	8	(D)	40
number	92	11	19	12	9	6	35
Motortrucks	145	13	22	18	11	7	74
farms	67	9	20	5	2	9	22
number	91	20	22	(D)	(D)	9	31
Tillers (all kinds)	79	9	16	8	10	-	36
farms	123	11	23	12	13	-	64
number							
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD							
Total sales	264	32	69	29	38	20	76
farms	3,842,853	31,186	117,657	108,648	228,061	169,843	3,187,458
dollars	14,556	975	1,705	3,746	6,002	8,492	41,940
Average per farm							
Farms by value of sales:							
Less than \$1,200	32	32	-	-	-	-	-
farms	31,186	31,186	-	-	-	-	-
dollars	69	-	69	-	-	-	-
\$1,200 to \$2,499	117,657	-	117,657	-	-	-	-
farms	29	-	-	29	-	-	-
dollars	108,648	-	-	108,648	-	-	-
\$2,500 to \$4,999	38	-	-	-	38	-	-
farms	228,061	-	-	-	228,061	-	-
dollars	20	-	-	-	-	20	-
\$5,000 to \$7,499	169,843	-	-	-	-	169,843	-
farms	76	-	-	-	-	-	76
dollars	3,187,458	-	-	-	-	-	3,187,458
farms							
dollars							
SALES BY COMMODITY GROUP OR PRODUCT							
Root crops	54	7	18	3	3	7	16
farms	(D)	751	(D)	(D)	(D)	(D)	24,911
dollars	154	13	39	16	21	13	52
Vegetables and melons	1,840,346	4,272	31,930	42,912	52,529	38,779	1,669,924
farms	192	21	48	21	34	19	49
dollars	(D)	(D)	49,867	43,321	144,217	117,518	427,978
Nursery crops (including ornamental plants)	48	2	15	4	5	4	18
farms	1,027,980	(D)	12,260	7,100	11,300	(D)	988,820
dollars	39	13	13	2	4	1	6
Livestock and livestock products	81,400	11,350	13,450	(D)	(D)	(D)	36,400
farms	45	5	16	6	10	1	7
dollars	57,950	(D)	5,807	2,130	9,398	(D)	39,425
farms							
dollars							

See footnote(s) at end of table.

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Table 17. Summary by Market Value of Agricultural Products Sold: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than \$1,200	\$1,200 to \$2,499	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 or more
SALES BY COMMODITY GROUP OR PRODUCT - Con.							
Fish and other aquaculture products .....farms	1	-	1	-	-	-	-
dollars	(D)	-	(D)	-	-	-	-
SELECTED FARM PRODUCTION EXPENSES							
Machine hire and customwork .....farms	75	11	15	11	4	3	31
dollars	459,478	29,165	9,660	22,680	(D)	(D)	381,273
Hired farm labor .....farms	65	6	9	5	5	4	36
dollars	1,079,446	33,300	9,580	(D)	(D)	20,700	947,654
Feed purchased for livestock, poultry, and fish .....farms	47	11	13	1	9	2	11
dollars	76,936	10,260	4,596	(D)	16,700	(D)	43,120
Insecticides, fungicides, and herbicides .....farms	78	9	6	12	9	4	38
dollars	95,566	1,510	80	4,950	3,470	1,050	83,736
Fertilizers and manure purchased .....farms	140	14	35	17	16	10	53
dollars	322,487	5,736	6,630	16,900	19,400	10,618	263,203
Livestock, poultry, and fish purchased .....farms	7	1	-	-	4	-	2
dollars	15,450	(D)	-	-	950	-	(D)
Seed cost (including seedlings) .....farms	94	11	20	14	3	11	35
dollars	117,655	1,730	2,246	3,752	800	3,450	105,677
ROOT CROPS HARVESTED FOR SALE							
Cassava (tapioca) .....farms	24	2	8	2	1	2	9
acres	4	(D)	1	(D)	(D)	(D)	1
pounds	6,250	(D)	1,370	(D)	(D)	(D)	3,910
Gado .....farms	10	1	1	-	1	2	5
acres	1	(D)	(D)	-	(D)	(D)	1
pounds	2,350	(D)	(D)	-	(D)	(D)	1,400
Ginger .....farms	24	3	13	4	-	2	2
acres	3	(D)	2	(Z)	-	(D)	(D)
pounds	729	(D)	389	44	-	(D)	(D)
Sweet potatoes .....farms	18	3	4	2	1	2	6
acres	2	(Z)	1	(D)	(D)	(D)	1
pounds	3,665	30	200	(D)	(D)	(D)	3,075
Taro .....farms	35	4	9	3	1	5	13
acres	6	1	(D)	(Z)	(D)	1	3
pounds	8,737	(D)	1,165	380	(D)	512	6,470
Yams .....farms	28	1	8	3	-	6	10
acres	4	(D)	1	(D)	-	1	2
pounds	12,474	(D)	4,420	1,600	(D)	(D)	5,300
Other root crops .....farms	7	1	-	2	3	-	1
acres	2	(D)	-	(D)	1	-	(D)
pounds	6,153	(D)	-	(D)	6,100	-	(D)
VEGETABLES AND MELONS HARVESTED FOR SALE							
Alfalfa and/or bean sprouts .....farms	5	2	-	2	-	-	1
pounds	110	(D)	-	(D)	-	-	(D)
Beans, winged .....farms	32	5	8	4	-	7	8
acres	6	1	1	1	-	1	2
pounds	6,453	110	2,115	650	-	964	2,614
Beans, yard long .....farms	48	5	8	6	2	3	24
acres	21	(D)	1	2	(D)	1	17
pounds	82,563	(D)	460	1,380	(D)	1,100	79,071
Beans, all other .....farms	7	1	-	1	-	1	4
acres	2	(D)	-	(D)	-	(D)	1
pounds	762	(D)	-	(D)	-	(D)	568
Bittermelons .....farms	41	1	7	4	4	3	22
acres	19	(D)	1	1	2	(D)	15
pounds	122,770	(D)	630	1,030	3,800	(D)	116,930
Cabbage, Chinese .....farms	14	2	2	-	1	-	9
acres	4	(D)	(D)	-	(D)	-	4
pounds	9,730	(D)	(D)	-	(D)	-	8,265
Cabbage, head .....farms	1	-	-	-	1	-	-
acres	(D)	-	-	-	(D)	-	-
pounds	(D)	-	-	-	(D)	-	-
Cantaloupes .....farms	-	-	-	-	-	-	-
acres	-	-	-	-	-	-	-
pounds	-	-	-	-	-	-	-
Corn ¹ .....farms	9	1	-	-	1	-	7
acres	34	(D)	-	-	(D)	-	(D)
pounds	91,530	(D)	-	-	(D)	-	(D)
Cucumbers .....farms	53	1	4	9	4	3	32
acres	80	(D)	(Z)	2	1	(D)	75
pounds	302,647	(D)	265	10,075	1,672	(D)	290,470
Eggplant .....farms	97	9	23	12	10	8	35
acres	37	1	4	4	3	1	24
pounds	171,583	245	10,024	6,670	4,646	6,555	143,443
Muskmelons and pepinos .....farms	8	-	1	-	-	-	7
acres	6	-	(D)	-	-	-	(D)
pounds	19,460	-	(D)	-	-	-	(D)
Okra .....farms	50	7	15	5	5	5	13
acres	15	1	2	1	2	1	8
pounds	22,176	144	565	1,950	2,440	1,100	15,977
Onions, green .....farms	27	7	10	4	1	3	2
acres	3	(D)	1	(Z)	(D)	(Z)	(D)
pounds	801	97	223	(D)	(D)	(D)	(D)
Peppers, hot .....farms	110	12	32	15	13	12	26
acres	25	1	6	2	2	2	13
pounds	28,661	224	1,691	2,265	1,616	2,138	20,727
Peppers, sweet .....farms	4	1	1	-	-	-	2
acres	(D)	(D)	(D)	-	-	-	(D)
pounds	(D)	(D)	(D)	-	-	-	(D)
Pumpkins and squash .....farms	41	7	10	5	1	4	14
acres	13	(D)	1	1	(D)	1	9
pounds	36,656	(D)	820	630	(D)	762	34,034

See footnote(s) at end of table.

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Table 17. Summary by Market Value of Agricultural Products Sold: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than \$1,200	\$1,200 to \$2,499	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 or more
VEGETABLES AND MELONS HARVESTED FOR SALE - Con.							
Radishes farms	10	-	3	1	1	-	5
..... acres	3	-	(D)	(D)	(D)	-	3
..... pounds	8,237	-	(D)	(D)	(D)	-	7,017
Tomatoes farms	55	6	10	10	5	3	21
..... acres	24	1	1	3	1	(Z)	17
..... pounds	152,182	104	960	5,650	3,700	588	141,180
Watermelons farms	12	-	-	1	-	-	11
..... acres	45	-	-	(D)	-	-	(D)
..... pounds	398,811	-	-	-	-	-	398,811
Other vegetables and melons farms	35	5	6	4	3	1	16
..... acres	15	(D)	1	(Z)	1	(D)	12
..... pounds	37,070	(D)	2,113	1,000	870	(D)	32,522
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE							
Land in bearing and nonbearing fruit trees and plants farms	224	26	55	27	37	19	60
..... acres	292	36	50	24	42	28	112
Avocados farms	122	14	34	17	18	12	27
..... trees not of bearing age	402	42	159	32	37	26	106
..... trees of bearing age	500	36	89	75	76	51	173
..... pounds	29,194	1,016	3,153	3,890	4,910	3,170	13,055
Bananas (all types) farms	157	20	38	21	26	17	35
..... trees not of bearing age	6,327	626	1,884	456	378	940	2,043
..... trees of bearing age	27,531	3,246	1,760	1,173	2,646	3,677	15,029
..... pounds	443,379	10,620	11,330	9,700	50,763	52,344	308,622
Betelnuts farms	80	8	19	11	16	7	19
..... trees not of bearing age	30,787	48	113	66	(D)	(D)	30,215
..... trees of bearing age	33,234	98	688	112	562	590	31,184
..... pounds	7,404	765	1,826	862	1,552	700	1,699
Breadfruits farms	89	17	24	13	6	9	20
..... trees not of bearing age	100	13	31	19	-	(D)	(D)
..... trees of bearing age	898	140	66	57	53	67	515
..... pounds	44,365	1,500	6,005	1,650	3,905	4,075	27,230
Coconuts farms	81	13	21	10	14	10	13
..... trees not of bearing age	1,068	211	161	164	94	261	177
..... trees of bearing age	2,507	460	205	156	267	292	1,127
..... pounds	97,625	2,675	3,725	7,300	19,515	14,060	50,350
Coffee farms	8	-	1	2	1	-	4
..... trees not of bearing age	60	-	-	(D)	-	-	(D)
..... trees of bearing age	11	-	(D)	(D)	(D)	-	(D)
..... pounds	(D)	-	-	(D)	-	-	-
Dragon Fruit farms	51	9	13	9	6	3	11
..... trees not of bearing age	536	116	29	91	110	20	170
..... trees of bearing age	1,828	(D)	143	634	29	(D)	927
..... pounds	11,054	(D)	1,140	1,478	375	(D)	7,902
Grapefruit farms	31	4	5	7	5	5	5
..... trees not of bearing age	142	(D)	(D)	(D)	50	-	-
..... trees of bearing age	117	13	10	15	19	38	22
..... pounds	3,429	(D)	450	(D)	667	727	1,100
Guavas farms	78	12	21	12	14	5	14
..... trees not of bearing age	(D)	20	79	80	(D)	25	(D)
..... trees of bearing age	1,413	(D)	105	81	56	53	(D)
..... pounds	5,434	180	510	435	1,279	360	2,670
Lemons and limes farms	161	23	42	17	31	12	36
..... trees not of bearing age	2,774	182	419	205	385	172	1,411
..... trees of bearing age	3,230	254	572	181	1,264	340	619
..... pounds	44,563	3,132	5,350	3,202	14,206	5,037	13,636
Mangoes farms	131	17	39	13	18	15	29
..... trees not of bearing age	1,576	(D)	94	17	21	(D)	338
..... trees of bearing age	695	29	150	51	96	190	179
..... pounds	74,343	890	5,769	6,212	11,988	29,092	20,392
Oranges farms	19	2	4	7	1	3	2
..... trees not of bearing age	30	(D)	9	(D)	-	-	(D)
..... trees of bearing age	48	-	(D)	17	(D)	20	(D)
..... pounds	588	-	(D)	454	(D)	(D)	(D)
Papayas farms	105	15	23	12	19	9	27
..... trees not of bearing age	8,551	148	604	255	524	700	6,320
..... trees of bearing age	4,100	169	263	119	246	906	2,397
..... pounds	61,269	2,260	2,170	1,264	9,535	9,182	36,858
Pineapples farms	48	10	14	8	4	-	12
..... trees not of bearing age	1,660	106	126	270	(D)	-	(D)
..... trees of bearing age	4,107	68	375	220	(D)	-	(D)
..... pounds	9,068	(D)	802	420	(D)	-	(D)
Soursops farms	121	23	31	19	11	11	26
..... vines not of bearing age	1,052	250	151	58	(D)	(D)	538
..... vines of bearing age	1,899	178	152	141	62	159	1,207
..... pounds	27,250	849	1,740	2,010	3,589	2,470	16,592
Starfruits farms	68	5	17	9	13	5	19
..... trees not of bearing age	54	(D)	11	12	(D)	(D)	12
..... trees of bearing age	174	9	35	21	30	30	49
..... pounds	4,605	200	615	740	1,050	190	1,810
Sweetsops farms	55	7	13	9	7	7	10
..... trees not of bearing age	123	(D)	38	12	(D)	9	(D)
..... trees of bearing age	347	55	92	45	52	43	60
..... pounds	3,185	361	715	670	361	451	627
Tangerines farms	46	10	10	11	5	5	5
..... trees not of bearing age	174	31	(D)	40	(D)	(D)	(D)
..... trees of bearing age	332	23	55	151	41	38	24
..... pounds	6,766	240	1,619	(D)	(D)	1,009	(D)
Other fruits, nuts, and tree crops farms	54	6	11	12	11	4	10
..... plants or trees not of bearing age	369	(D)	(D)	108	73	53	55
..... plants or trees of bearing age	358	42	26	178	(D)	(D)	53
..... pounds	6,664	133	1,795	1,108	(D)	(D)	2,935

See footnote(s) at end of table.

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Table 17. Summary by Market Value of Agricultural Products Sold: 2018 (continued)

[Totals may not add due to rounding. For enumeration periods, see appendix A. For meaning of abbreviations and symbols, see introductory text.]

Item	Total	Less than \$1,200	\$1,200 to \$2,499	\$2,500 to \$4,999	\$5,000 to \$7,499	\$7,500 to \$9,999	\$10,000 or more
FRUITS, NUTS, AND NURSERY CROPS (INCLUDING ORNAMENTAL PLANTS) HARVESTED FOR SALE - Con.							
Nursery crops (including ornamental plants)	48	2	15	4	5	4	18
..... farms							
sq.ft. under cover	195,952	(D)	(D)	-	(D)	-	177,152
acres in the open	59	1	2	1	1	(Z)	54
LIVESTOCK, POULTRY, AQUACULTURE AND THEIR PRODUCTS							
Inventory							
Carabaos	8	2	-	-	1	2	3
..... farms							
number	20	(D)	-	-	(D)	(D)	6
All cattle and calves	21	7	4	3	3	-	4
..... farms							
number	97	43	22	7	7	-	18
Milk cows	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Other cattle and calves	21	7	4	3	3	-	4
..... farms							
number	97	43	22	7	7	-	18
Hogs and pigs of all ages	43	10	14	4	5	4	6
..... farms							
number	540	191	100	51	77	26	95
Goats and kids of all ages	19	3	4	1	6	2	3
..... farms							
number	171	(D)	66	(D)	46	(D)	25
Horses, mules, and colts of all ages	1	1	-	-	-	-	-
..... farms							
number	(D)	(D)	-	-	-	-	-
Other livestock	1	1	-	-	-	-	-
..... farms							
number	(D)	(D)	-	-	-	-	-
Chicken hens 4 months old or older	53	8	15	6	12	3	9
..... farms							
number	3,858	92	1,084	390	572	320	1,400
Commercial layers	27	6	7	2	8	-	4
..... farms							
number	1,552	(D)	256	(D)	432	-	730
Other chicken hens	37	4	15	5	4	3	6
..... farms							
number	2,701	(D)	1,223	(D)	140	320	670
Chickens under 4 months old	14	3	1	-	6	-	4
..... farms							
number	490	(D)	(D)	-	231	-	165
Roosters and pullets	12	5	3	-	2	-	2
..... farms							
number	217	36	(D)	-	(D)	-	(D)
Fighting roosters	7	1	1	-	-	-	5
..... farms							
number	400	(D)	(D)	-	-	-	(D)
Ducks	12	5	3	-	1	2	1
..... farms							
number	144	33	88	-	(D)	(D)	(D)
Pigeons	3	-	1	-	-	-	2
..... farms							
number	101	-	(D)	-	-	-	(D)
Other poultry	1	-	-	-	-	-	1
..... farms							
number	(D)	-	-	-	-	-	(D)
Sales							
Carabaos	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
All cattle and calves	16	7	2	-	2	-	5
..... farms							
number	33	7	(D)	-	(D)	-	21
Milk cows	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Other cattle and calves	16	7	2	-	2	-	5
..... farms							
number	33	7	(D)	-	(D)	-	21
Hogs and pigs of all ages	43	10	14	4	5	4	6
..... farms							
number	540	191	100	51	77	26	95
Goats and kids of all ages	6	-	2	-	2	1	1
..... farms							
number	55	-	(D)	-	(D)	(D)	(D)
Horses, mules, and colts of all ages	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Other livestock	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Chicken hens 4 months old or older	6	-	2	-	1	-	3
..... farms							
number	295	-	(D)	-	(D)	-	(D)
Commercial layers	5	-	1	-	1	-	3
..... farms							
number	245	-	(D)	-	(D)	-	(D)
Other chicken hens	3	-	1	2	-	-	-
..... farms							
number	90	-	(D)	(D)	-	-	-
Chickens under 4 months old	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Roosters and pullets	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Fighting roosters	2	-	-	-	-	-	2
..... farms							
number	(D)	-	-	-	-	-	(D)
Ducks	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Pigeons	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Chicken eggs	43	5	16	4	10	1	7
..... farms							
dozens	44,876	(D)	14,679	2,700	3,971	(D)	21,050
Other poultry and poultry products (excluding chicken eggs)	-	-	-	-	-	-	-
..... farms							
number	-	-	-	-	-	-	-
Fish and other aquaculture products	6	-	4	-	-	-	2
..... farms							
pounds	(D)	-	210	-	-	-	(D)

¹ Includes dry and green corn.

Appendix A.

Census of Agriculture Methodology

INTRODUCTION

The purpose of the Census of Agriculture is to enumerate all members of a population with a defined characteristic. For the Guam Census of Agriculture, that goal is to account for “any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year.”

As in the previous censuses of Guam, a direct enumeration procedure was used in the 2018 Census of Agriculture. Enumeration was based on a list of farm operators compiled by the Cooperative Extension and Outreach Service of the University of Guam, and the Guam Department of Agriculture. The statistics on this report were collected during the spring of 2019.

THE CENSUS POPULATION

For the 2018 Guam Census of Agriculture, a list of farm operators was compiled by the Cooperative Extension and Outreach Service of the University of Guam, and the Guam Department of Agriculture. The enumerators contacted all persons or operations on the list and completed a census report form for all farm operations that met the farm definition. If the person on the list was not operating a farm, the enumerator recorded whether the land had been sold or rented to someone else and was still being used for agriculture. If the land was sold or rented out, the enumerator obtained the name of the new operator and contacted that person, to ensure that he/she was included in the census.

DATA COLLECTION OUTREACH AND PROMOTIONAL EFFORTS

The Public Affairs Office (PAO) developed a communication plan largely based on promotional materials that were shared with local outreach partners, including but not limited to the University of

Guam and their Cooperative Extension and Outreach Service, the Guam Department of Agriculture, and local USDA agencies. The goal with these promotional materials included:

- Encouraging participation in the Census of Agriculture
- Communicating how the census will provide much needed data that are used by federal and local decision makers
- Explaining that response to the Census of Agriculture is required and that reported information is protected by federal law
- Increasing general awareness and perceived value of NASS, its products, and services

Partnership and Local-Level Outreach

NASS officials met with leaders from agricultural organizations, the University of Guam and its Cooperative Extension and Outreach Service, the Guam Department of Agriculture, and other USDA agencies to successfully secure their support in promoting the census among their constituencies. Stakeholders partnered with NASS to promote the 2018 Guam Census of Agriculture through publications (e.g. newsletters), special mailings, speeches, social media, websites, and other communications. Through grassroots-level outreach and efforts, NASS partnered with a number of community-based organizations to reach all farmers and ranchers. Among the highlights of these partnership efforts was the participation of local extension agents on radio public service announcements promoting the importance of the 2018 Guam Census of Agriculture.

Public Relations

In the public relations arena, NASS worked with internal and external stakeholders to equip them with communications tools and resources to deliver the census communications message to their audiences. The materials included but were not limited to: a press release/stakeholder notice, a public service announcement, flyers and posters, and a Frequently Asked Questions (FAQs) document; which were drafted for local media and other stakeholder distribution. These materials were available both electronically and in hard copy. Other outreach tools included items such as pens and notepads.

DATA COLLECTION

Method of Enumeration

Personal enumeration was used in the 2018 Guam Census of Agriculture, and in the 2007 Guam Census of Agriculture, enumeration was based on a list of farm operators compiled by the Cooperative Extension and Outreach Service of the University of Guam, and the Guam Department of Agriculture.

The enumerators contacted all persons or operations engaged in agriculture in their assigned area and completed a census report form for all farm operations that met the farm definition. If the person on the list was not operating a farm, the enumerator recorded whether the land had been sold or rented to someone else and was still being used for agriculture. If the land was sold or rented out, the enumerator obtained the name of the new operator and contacted that person, to ensure that he/she was included in the census.

Report Form

Prior to each agriculture census, the content of all census report forms is reviewed to eliminate inquiries no longer needed, to identify new items necessary to meet user needs, and to better describe the agricultural situation in Guam. Data requests are solicited from farm organizations, land-grant colleges and universities, State and Federal agencies, State Department of Agriculture, agribusinesses, and other users. Each respondent is asked to identify and justify its specific data needs.

A single version of the report form for the 2018 Guam Census of Agriculture was prepared by NASS, in cooperation with the University of Guam, College of Natural and Applied Sciences, and its Cooperative Extension and Outreach Service; the Guam Department of Agriculture; and various USDA agencies. Based on their comments, the content of the 2018 census report form remained almost unchanged from the previous census.

Training Program

The project manager, and enumerators employed for the census in Guam received special training in accordance with instructions prepared by NASS. The training included an overview of the census of agriculture program, and a detailed discussion of the enumerator's instructions manual and the census report form.

REPORT FORM PROCESSING

Data Capture

The Census Bureau's National Processing Center (NPC) in Jeffersonville, IN was contracted to print, label, and ship the questionnaires to Guam. Completed questionnaires were then returned to NPC for data capture and scanning.

NASS staff on site at the NPC provided technical guidance and monitored NPC processing activities. All report forms returned to the NPC were immediately checked in, using bar codes printed on the mailing label. With the small survey universe, it was determined that a key from paper application would be most economical. All forms keyed were then scanned and loaded into the Feith file cabinet. The images were available for analytical review of the data as well as for archive purposes.

The keying staff evaluated the contents and captured pertinent responses. An independent quality control process occurs after initial keying where ten percent of the captured data is keyed a second time. If differences existed between the first keyed value and the second, an adjudicator handled resolution. The decision of the adjudicator was used to grade the performance of the keyers, who were required to maintain a certain accuracy level or receive additional training. The measured error rate for the entire survey was 0.39%. The images and the captured data were

transferred to NASS's centralized network and became available to NASS analysts on a flow basis. The images were available for use in all stages of review.

Editing Data

Captured data were processed through a computer formatting program. The program verified that record identifiers were valid and checked the basic integrity of the data fields. Rejected records were referred to analysts for correction. Accepted records were sent to a computer batch edit process. Each execution of the computer batch edit flowed as the data were received from the National Processing Center (NPC).

All census records were passed through a complex computer edit. The edit determined whether a reporting operation met the minimum criteria to be counted as a qualifying farm (in-scope). The edit examined each in-scope record for reasonableness and completeness and determined whether to accept the recorded value for each data item or take corrective action. Actions included removing erroneously reported values, replacing an unreasonable value with one consistent with other reported data. Strategies for determining replacement values are discussed in the next section.

Imputing Data

The edit systematically checked reported data section-by-section with the overall objective of achieving an internally consistent and complete report. NASS subject-matter experts defined the criteria for acceptable data. Problems that could not be resolved within the edit were referred to an analyst for intervention. Analysts used additional information sources, examined the scanned image, and determined an appropriate action.

Data Analysis

Once keyed, the data from each report form were available to NASS analysts in Washington, DC, via electronic media, for computer editing and analysis. Data from each report were subjected to a detailed item-by-item computer edit. The edit performed comprehensive checks for consistency and reasonableness, corrected erroneous or inconsistent data; supplied missing data based on similar farms,

and assigned farm classification codes necessary for tabulating the data.

Prior to publication, tabulated totals were reviewed by statisticians to identify inconsistencies and potential coverage problems. Comparisons were made with previous census data, as well as other available data. Tallies of all selected data items for various sets of criteria which included, but were not limited to, geographic levels, farm types, and sales levels were reviewed. When necessary, data inconsistencies were resolved.

DISCLOSURE REVIEW

After tabulation and review of the aggregates, a comprehensive disclosure review was conducted. NASS is obligated to withhold, under Title 7, U.S. Code, any total that would reveal an individual's information or allow it to be closely estimated by the public. Farm counts are not considered sensitive and are not subject to disclosure. Cell suppression will be used to protect the cells that are determined to be sensitive to a disclosure of information.

Based on agency standards, data cells were determined to be sensitive to a disclosure of information if they failed either of two rules. First, the threshold rule failed if the data cell contained less than three operations. For example, if only one farmer produced hogs on the island, NASS could not publish the island total for hog inventory without disclosing the individuals' information. Second, the dominance rule failed if the distribution of the data within the cell allowed a data user to estimate any respondent's data too closely. A (p)-percent rule will be used to determine dominance. Under this rule, if the two largest contributing farms' values to the county total are subtracted from the estimated total, the remainder must exceed a specified (p)-percent of the largest contributed value. If the remainder fails to exceed the specified percentage, the value is not published. For example, if there are many farmers producing hogs on the island and some of them were large enough to dominate the cell total, NASS could not publish the county total for hog inventory without risking disclosing an individual respondent's data. In both of these situations, the data were suppressed and a "(D)" was placed in the cell in the census publication table. These data cells are referred to as primary suppressions.

Since most items were summed to marginal totals, primary suppressions within these summation relationships were protected by ensuring that there were additional suppressions within the linear relationship that provided adequate protection for the primary. A detailed computer routine selected additional data cells for suppression to ensure all primary suppressions are properly protected in all linear relationships in all tables. These data cells are referred to as complementary suppressions. These cells are not themselves sensitive to a disclosure of information, but were suppressed to protect other primary suppressions. A "(D)" was also placed in the cell of the census publication table to indicate a complementary suppression. A data user cannot determine whether a cell with a (D) represents a primary or complementary suppression.

NASS analysts reviewed all complementary suppressions to ensure no cells had been withheld that were vital to the data users. In instances where complimentary suppressions were deemed critically important to the Island, analysts requested an override and a different complement cell was chosen.

MEASURED ERRORS IN THE CENSUS PROCESS

Uncertainty is introduced into the data in compiling the list of farm operators, in NASS' data collection procedures, in data editing and processing, and in compiling the final data. Additionally, NASS uses statistical procedures to both measure errors in the various processes and in making adjustments for those errors in the final data.

Variability in Census Estimates due to Statistical Adjustment

In conducting the 2018 Guam Census of Agriculture, efforts were initiated to measure error associated with the adjustments for farm operations that were on the list of farm operators, but did not respond to the census report form. This error measurement was developed from the standard error of the estimates at the island level, where appropriate, and were expressed as coefficients of variation (CVs) at the island level. Coefficients of variation are displayed in the Quick Stats database.

Coefficient of variation is a measure of the relative amount of error associated with a sample estimate. Specifically, it is the standard error of a point estimate divided by that estimate, generally multiplied times 100 so that it can be reported as a percentage. This relative measure allows the reliability of a range of estimates to be compared. For example, the standard error is often larger for large population estimates than for small population estimates, but the large population estimates may have a smaller CV, indicating a more reliable estimate. Every estimate for the 2018 Guam Census of Agriculture has a corresponding CV published with it. NASS has identified the following index to use when evaluating coefficient of variation for the 2018 Guam Census of Agriculture.

- **Low Reliability Estimate.** Coefficient of Variation (CV) 30 percent or higher. Caution should be used when using this estimate in any form. Please consult NASS for more information or guidance.
- **Medium Reliability Estimate.** Coefficient of Variation (CV) between 15 percent and 29.9 percent.
- **High Reliability Estimate.** Coefficient of Variation (CV) less than 15 percent.

NONMEASURED ERRORS IN THE CENSUS PROCESS

As noted in the previous section, sampling errors can be introduced from the nonresponse adjustment procedure. This error is measureable. However, nonsampling errors are imbedded in the census process that cannot be directly measured as part of the design of the census but must be contained to ensure an accurate count. Extensive efforts were made to compile a complete and accurate list of farmers for the census, to design an understandable report form with clear instructions, to train enumerators on how to ask the questions and record the answers on the report form, and to minimize processing errors through the use of quality control measures. The weight adjustment and tabulation processes recognize the presence of nonsampling errors; however, it is assumed that these errors are small and that, in total, the net effect is zero. In other words, the positive errors cancel the negative errors.

Respondent and Enumerator Error

Incorrect or incomplete responses to the census report form or to the questions posed by an enumerator can introduce error into the census data. Steps were taken in the design and execution of the census of agriculture to reduce reporting errors. Poor instructions and ambiguous definitions lead to misreporting. Respondents may not remember accurately, may estimate responses, or enumerators may record an item in the wrong cell. To reduce reporting and recording errors, detailed instructions for completing the report form were provided to each enumerator, and questions were phrased as clearly as

possible. In addition, each respondent's answers were checked for completeness and consistency by the complex edit and imputation system.

Item Nonresponse

All item nonresponse actions provide another opportunity to introduce measurement errors. Regardless of whether it was previously reported data, administrative data, the nearest neighbor algorithm, the fully conditional specification method, or manually imputed by an analyst, some risk exists that the imputed value does not equal the actual value.

Appendix B.

General Explanation and Census of Agriculture Report Form

DEVELOPMENT OF THE CENSUS REPORT FORM

Prior to each agriculture census, the content of all census report forms is reviewed to eliminate inquiries no longer needed and to identify new items necessary to meet user needs, so that published data better describes the agricultural situation in Guam. Data requests are solicited from farm organizations, land-grant colleges and universities, State and Federal agencies, State departments of agriculture, agribusinesses, and other users. Each user is asked to identify and justify its specific data needs.

The report form for the 2018 Census of Agriculture for Guam was prepared by NASS, in cooperation with an inter-agency working group that include members of the University of Guam, College of Natural and Applied Sciences, the Cooperative Extension and Outreach, the Guam Department of Agriculture, and other data users. While similar to the report form used in 2007, changes were made to reflect changes in Guam's agriculture. A sample copy of the report form is included in this appendix.

DATA CHANGES

Following are descriptions of the report form changes.

Added items include:

- Section 3, “Vegetables and Melons” - “Winged beans”, and “Pepino Melons”, as response options.
- Section 4, “Fruit, Nuts, and Nursery Crops” - “Coffee” and “Dragon Fruits”, as response options.
- Section 9, “Aquaculture” – “Catfish”, “Milkfish”, “Shrimp”, “Tilapia” and “Other Aquaculture products”, as response options.

- Section 13, “Practices” – To report computer use, internet access, and type of access utilized for the farm business.

DEFINITIONS AND EXPLANATIONS

The following definitions provide a detailed description of specific terms and phrases used in this publication. Report form section number references refer to the Guam Census of Agriculture report form, 18-A1(GU). Many of the definitions are the same as those used in earlier censuses.

Crops. The report form contained individual inquiries for crops commonly grown and space to write in those less frequently produced. The information requested for 2018 included acres of crops harvested and pounds harvested for sale.

The units of measure for reporting quantities of some crops have varied from one census to another. The aim has been to permit reporting in the units of measure currently in use. The quantities harvested for each crop are expressed in the units of measure given on the 2018 report form.

Root crops - The land area from which individual root crops were harvested for sale was obtained in acres and tenths of acres. When two or more crops were harvested from the same land, the area was to be reported for each separate crop or planting. Total quantities of each crop harvested for sale were also reported.

Vegetables and melons - Land area for individual crops and the quantity harvested for sale for each crop were collected.

Fruits, nuts, and nursery crops - The total number of acres planted in bearing and nonbearing fruit and nut trees and plants was collected. For individual fruit or nut crops, data on the number of bearing and

nonbearing trees and plants, and the quantity harvested for sale, were reported. For nursery crops, the land area harvested, both square feet under cover and acres in the open, were collected, along with the value of sales.

Equipment. The following types of equipment on the place at time of enumeration regardless of ownership, were reported if they were operable:

Automobiles - This includes all vehicles used primarily as passenger cars.

Mototrucks - This includes pickup trucks and truck-trailer combinations.

Tillers of all kinds - This includes all types of tillers used to prepare soil for planting.

Tractors - This includes all wheel and track-laying (crawler) tractors and garden tractors.

Expenses. The 2018 report form contained questions on seven types of farm expenses incurred between January 1 and December 31, 2018, whether made by the farm operator, his/her landlord, or both. A farm operator who rented part of his/her land to others reported only the expenses on the land he/she operated.

Feed purchased for livestock, poultry, and fish - Expenses for feed for livestock, poultry, and fish include total cash payments made for pasture used, salt concentrates, mineral supplements, grain, hay, mill feeds, and any other items purchased for feeding livestock, poultry, and fish on the place. Expenses made for the grinding and mixing of feed and the estimated cost of items furnished to the operator by a landlord or others are also included. Payments made by a tenant to a landlord for feed grown on the tenant's farm are excluded.

Machine hire and customwork - Expenses for machine hire and customwork relate to tractor hire, plowing, and spraying. Any amount spent for the labor involved is considered to be part of the expense. The costs of hauling, trucking, or exchange work without pay are omitted.

Purchases of fertilizers and manure - These expenses include the total amount spent for manure and commercial fertilizers of all kinds for use on the farm.

Purchases of insecticides, fungicides, and herbicides - This item relates to total cash expenses for all chemicals, sprays, dusts, etc., used to control weeds, pests, insects, or disease on crops.

Purchases of livestock, poultry, and fish - This item includes all cash expenses for livestock, poultry, and fish purchased for the place. The cost of livestock and poultry bought and resold within 30 days is not included.

Seed cost - These expenses include all seed purchased for planting, as well as seedlings.

Wages and salaries paid to employees or hired farm workers - Expenses for hired farm labor include total cash payments made to family members and others for farm labor. Payments to persons supplied by a contractor or a cooperative organization and paid directly by them or by the person in charge are also included.

Farm operator. The term "operator" designates a person who operates a farm, either by doing the work himself/herself or by directly supervising the work. The operator may be the owner, a member of the owner's household, a hired manager, or a tenant, renter, or sharecropper. If the operator rents land to others or has land worked on shares by others, he/she is considered the operator only if the land is retained for his/her own operation. In the case of partnership, only one partner is counted as an operator. By definition, the number of operators is the same as the number of farms.

Farms or operators reporting. Figures for "farms reporting" or "operators reporting" represent the number of farms or operators reporting the specified item. The difference between the total number of farms and the number of farms reporting a particular item represents the number of farms not having that item.

Fish and Other Aquaculture. Includes catfish, milkfish, shrimp, tilapia, and other aquaculture products.

Land in farms. The land in farms was determined from the answers to questions 1 through 4 in section 1 of the report form (see appendix B). The amounts of land reported as owned and reported as rented from others were added together, and the amount of land reported as rented to others was subtracted from that sum. The result represents "land in farms."

Land owned. This includes all land that the operator or his/her spouse held under title, purchased contract, homestead law, or as heir or trustee of an undivided estate at the time of enumeration.

Land rented from others. This includes not only land the operator rented or leased from others, but also land worked on shares for others or land occupied rent free.

Land rented to others. This includes all land that the operator rented to others and all land assigned to others on shares or rent free. For the most part, land rented to others represents agricultural land, but it also includes land rented for residential or other purposes. The tenant is considered to be the operator of land leased, rented, or worked on shares, even though his/her landlord may supervise the operations. The landlord is considered to be the operator of only that portion of the land not assigned to tenants.

Land use. Land in farms at the time of enumeration is categorized according to the way it was used between January 1 and December 31, 2018. The land is counted only once, even though it may have had more than one use during the year.

Cropland harvested - This refers to all land from which any crop was harvested. It also includes land in field crops that were grazed when mature or almost mature, and land in nonbearing fruit or nut trees and plants. Land from which two or more crops were harvested and which was also used for other purposes, either before or after the crops were harvested, was to be reported as cropland harvested without regard to the other uses.

Other cropland - This includes all cropland on the place that was used for pasture, and cropland on the place that was not used for crops or pasture. It includes land on which there was total crop failure due to hurricane, flood, drought, insects, fire, or other

causes; cropland lying idle; and cropland planted with soil improvement grasses or other cover crops planted for improvement. It does not include land so hilly, rocky, or wet that the cost of improving it for cultivation would be more than the operator could pay. It does not include land in roads, streams, or swamps.

Pasture or grazing land - This refers to all land used for pasture or grazing, except cropland. It includes all woodland where livestock pastured or grazed. It does not include cropland, even though cattle or other livestock may have been grazed on it.

Woodland - This includes all land that is covered in woods or forests. It does not include woodland pasture.

Other land - This refers to all land not included in the other land use classifications, such as house and other building lots, lanes, roads, ditches, and land area of ponds and wasteland.

Livestock and poultry. Inventory data for livestock and poultry relate to the number on hand at the time of enumeration. All livestock and poultry were to be enumerated on the place where they were at the time of enumeration regardless of who owned them. Livestock on unfenced land were to be reported as being on the place identified as the headquarters of the person who had control over them.

Operator characteristics. Data were obtained to classify the operators according to the following seven characteristics:

Age of operator - Operators were classified by age into six groups. The average age was obtained by dividing the sum of the ages of all operators reporting by the number reporting.

Main occupation - If the operator devoted 50 percent or more of his/her work time to agricultural activities, his/her main occupation was considered to be agriculture, otherwise his/her occupation was considered to be nonagricultural.

Race of operator - The race, or national origin, of the operator was collected for the first time in 1993. Respondents were asked to choose between

Chamorro, Chinese, Filipino, Japanese, White, or Other to describe their race or national origin.

Under 35 years	35 to 44 years
45 to 54 years	55 to 64 years
65 years and over	

Residence of operator - Operators were classified by residence according to whether or not they lived on the farms operated. Where all the land was rented from others or worked on shares for others, the dwelling was considered to be on the farm operated provided the dwelling he/she occupied was included in the rental agreement. In such cases, the dwelling was not necessarily on the land being operated. Similarly, an operator who did not live on the land being cultivated or grazed, but who had some agricultural operations (other than a home garden) at his/her dwelling, was considered to be living on the farm.

Farms by size. All farms were classified by size on the basis of the total land area established in each farm. According to the census definition, a farm is essentially an operating unit, not an ownership tract. All land operated or managed by one person or partnership represents one farm. In the case of tenants, the land assigned to each tenant is considered a separate farm, even though the landlord may consider the entire landholding to be one unit rather than several separate units.

Sex of operator - Operators are classified as male or female.

Farms by tenure of operator. In the 2018 census, all farms were classified by tenure of operator on the basis of data reported for land owned, rented from others, worked on shares for others, and managed for others. The same classification has been used since 1964. During processing operations, each report form was coded to indicate whether the operator was a full owner, part owner, or tenant.

Work off farm - The extent to which operators rely on nonfarm sources for part of their income is indicated by the number of days worked off the farm during the year. Work off the farm was defined to include work on someone else's farm for pay as well as all types of nonfarm jobs, businesses, and professions whether the work was done on the farm premises or elsewhere. Exchange work was not included.

Full owners - Operate only land they own

Part owners - Operate land they own and also land they rent from others

Years on present farm - Operators were classified by years on present farm into four groups. These data were based on the question asking the year the operator began operation of the present farm or any part of it.

Tenants - Rent from others or work the land they operate on shares for others

Value of products sold. Data for value of products sold were obtained for each group of crops or main type of livestock sold from the farm. Data were obtained for sales of field and forage crops, vegetables, fruits and nuts, nursery crops, poultry and poultry products, cattle and calves, hogs and pigs, fish and other aquaculture products, other livestock and livestock products and chicken eggs.

Farms by value of agricultural products sold. All farms were classified on the basis of the total value of agricultural products sold. The total was obtained by adding the reported values of all products sold from the farm. The value of livestock, milk, poultry and eggs, fish, vegetables, fruits and nuts, all field crops, ornamental plants, and all other crops was obtained from the operator at the time of enumeration. The computer edit classified the value of agricultural products sold into one of the following groups:

Less than \$1,200	\$1,200 to \$2,499
\$2,500 to \$4,999	\$5,000 to \$7,499
\$7,500 to \$9,999	\$10,000 or more

Farms by age of operator. Enumerators entered the operator's age, as of his/her last birthday, on the report form. The computer edit classified the operator's age into one of the following age groups:

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0226. The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

**2018
CENSUS OF AGRICULTURE**



GUAM



U.S. DEPARTMENT OF AGRICULTURE

NATIONAL AGRICULTURAL STATISTICS SERVICE

Part A - QUESTIONNAIRE IDENTIFICATION (NASS USE ONLY)

FARM SERIAL NUMBER

Part B - OPERATOR'S NAME AND ADDRESS OR PHYSICAL LOCATION

9810 Operation name

9811 Person name

9812 Address 1

9813 Address 2

0035	0036	0037	0038	0039	9814 City	9815 State	9816 Zip Code

NOTICE: Response to this inquiry is required by law (Title 7, U.S. Code). The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both if he or she willfully discloses ANY identifiable information about you or your operation. Response is required.

SECTION 1 LAND IN AGRICULTURE

	None	Whole acres	Tenths
1. How many acres do you own?	0040 <input type="checkbox"/>		/10
2. How many acres do you RENT FROM OTHERS? Include acres with or without a government land permit or acres that are furnished to you in connection with your living quarters by the government	0042 <input type="checkbox"/>		/10
3. How many acres do you rent TO OTHERS? (DO NOT include land used by U.S. military services.)	0044 <input type="checkbox"/>		/10
4. TOTAL ACRES IN "THIS PLACE" - ADD acres owned (question 1) and acres rented FROM OTHERS (question 2), then SUBTRACT acres rented TO OTHERS (question 3) and enter the result in this space	0045 <input type="checkbox"/>		/10

5. How many unpaid and paid farm hands (including the operator and family members) worked on this place in 2018?

Total farm hands
0051

- a. Of the unpaid farm hands (including the operator and unpaid family workers), how many worked -
- b. Of the paid farm hands (hired workers and paid members of the operator's family), how many worked -

150 days or more?	25 to 149 days?	Less than 25 days?
0052	0053	0054
0055	0056	0057

6. What type of operating organization does this place have?

- 0058 {
- 1 Individual
 - 2 Partnership
 - 3 Corporation (DO NOT include cooperatives)
 - 4 Other (Cooperative, estate, trust, etc.)

CONTINUE ON PAGE 2

PENALTY FOR FAILURE TO REPORT

21188016

SECTION 2 ROOT CROPS

Did you harvest any ROOT CROPS FOR SALE in 2018?

0002 1 Yes - Complete this section 2 No - Go to Section 3

- | | | |
|---------------------------------------|------|--------------------------|
| | None | |
| 1. Cassava (tapioca) | 0070 | <input type="checkbox"/> |
| 2. Gado | 0076 | <input type="checkbox"/> |
| 3. Ginger | 0078 | <input type="checkbox"/> |
| 4. Sweet potatoes | 0086 | <input type="checkbox"/> |
| 5. Taro | 0090 | <input type="checkbox"/> |
| 6. Yams | 0092 | <input type="checkbox"/> |
| 7. Other root crops – Specify C | 0094 | <input type="checkbox"/> |

0096

How many acres were harvested in 2018?			How many pounds were harvested in 2018?
Whole acres	Tenths		
	/10	0071	
	/10	0077	
	/10	0079	
	/10	0087	
	/10	0091	
	/10	0093	
	/10	0095	

SECTION 3 VEGETABLES AND MELONS

Did you harvest any VEGETABLES or MELONS FOR SALE in 2018?

0003 1 Yes - Complete this section 2 No - Go to Section 4

- | | | |
|--|------|--------------------------|
| | None | |
| 1. Alfalfa and/or bean sprouts | | <input type="checkbox"/> |
| 2. Beans, winged | 0114 | <input type="checkbox"/> |
| 3. Beans, yard-long | 0102 | <input type="checkbox"/> |
| 4. Beans, all other varieties | 0104 | <input type="checkbox"/> |
| 5. Bittermelons | 0106 | <input type="checkbox"/> |
| 6. Cabbage, Chinese | 0108 | <input type="checkbox"/> |
| 7. Cabbage, head | 0110 | <input type="checkbox"/> |
| 8. Cantaloupes | 0112 | <input type="checkbox"/> |
| 9. Corn | 0118 | <input type="checkbox"/> |
| 10. Cucumbers | 0120 | <input type="checkbox"/> |
| 11. Eggplant | 0122 | <input type="checkbox"/> |
| 12. Muskmelons | 0128 | <input type="checkbox"/> |
| 13. Okra | 0130 | <input type="checkbox"/> |
| 14. Onions, green | 0132 | <input type="checkbox"/> |
| 15. Pepino melons | 0144 | <input type="checkbox"/> |
| 16. Peppers, hot | 0134 | <input type="checkbox"/> |
| 17. Peppers, sweet | 0136 | <input type="checkbox"/> |
| 18. Pumpkins and squash | 0138 | <input type="checkbox"/> |
| 19. Radishes | 0140 | <input type="checkbox"/> |
| 20. Tomatoes (Include both standard and cherry tomatoes) | 0146 | <input type="checkbox"/> |
| 21. Watermelons | 0148 | <input type="checkbox"/> |
| 22. Other vegetables and melons – Specify C | 0150 | <input type="checkbox"/> |

0143

How many acres were harvested in 2018?			How many pounds were harvested in 2018?
Whole acres	Tenths		
		0101	
	/10	0115	
	/10	0103	
	/10	0105	
	/10	0107	
	/10	0109	
	/10	0111	
	/10	0113	
	/10	0119	
	/10	0121	
	/10	0123	
	/10	0129	
	/10	0131	
	/10	0133	
	/10	0145	
	/10	0135	
	/10	0137	
	/10	0139	
	/10	0141	
	/10	0147	
	/10	0149	
	/10	0151	

SECTION 4 FRUITS, NUTS, AND NURSERY CROPS

Were any FRUITS, NUTS, or NURSERY CROPS grown or harvested FOR SALE in 2018?

0004 1 Yes - Complete this section 2 No - Go to Section 5

Whole acres	Tenths
	/10

How much land is in bearing and nonbearing fruit and nut trees (plants)? 0159

	None	How many trees or plants are not of bearing age?	How many trees or plants are of bearing age?	How many pounds were harvested in 2018?
1. Avocados	0160 <input type="checkbox"/>		0161	0162
2. Bananas	0163 <input type="checkbox"/>		0164	0165
3. Betelnuts	0166 <input type="checkbox"/>		0167	0168
4. Breadfruits	0169 <input type="checkbox"/>		0170	0171
5. Coconuts	0172 <input type="checkbox"/>		0173	0174
6. Coffee	0152 <input type="checkbox"/>		0153	0154
7. Dragon Fruit	0196 <input type="checkbox"/>		0197	0198
8. Grapefruit	0175 <input type="checkbox"/>		0176	0177
9. Guavas	0178 <input type="checkbox"/>		0179	0180
10. Lemons and limes	0181 <input type="checkbox"/>		0182	0183
11. Mangoes	0184 <input type="checkbox"/>		0185	0186
12. Oranges	0187 <input type="checkbox"/>		0188	0189
13. Papayas	0190 <input type="checkbox"/>		0191	0192
14. Pineapples	0193 <input type="checkbox"/>		0194	0195
15. Soursops	0199 <input type="checkbox"/>		0200	0201
16. Starfruits	0202 <input type="checkbox"/>		0203	0204
17. Sweetsops	0205 <input type="checkbox"/>		0206	0207
18. Tangerines	0208 <input type="checkbox"/>		0209	0210
19. Other fruits, nuts, and tree crops - Specify C ...	0211 <input type="checkbox"/>		0212	0213

0214

	None	Square feet under cover	Acres in the open		Value of sales in 2018	
		0218	Whole acres	Tenths	0220	
20. Nursery crops (including ornamental plants) ..	<input type="checkbox"/>			/10	\$	.00

SECTION 5 LAND USE

Land is to be reported in **ONLY ONE CATEGORY**. If two or more uses were made of the same land, report in the **FIRST** category that applies.

	None	Whole acres	Tenths
1. Cropland harvested – Report the number of acres on which crops were grown and harvested	0231 <input type="checkbox"/>		/10
2. Other cropland – Include cropland pasture, crop failure, idle and fallow cropland, and cropland used for soil improvement.	0232 <input type="checkbox"/>		/10
3. Pasture or grazing land – Include woodland pasture. (DO NOT include cropland pasture.)	0233 <input type="checkbox"/>		/10
4. Woodland (DO NOT include woodland pasture.)	0234 <input type="checkbox"/>		/10
5. All other land – Include house lots, barn lots, lanes, roads, ditches, ponds, wasteland, etc.	0235 <input type="checkbox"/>		/10
6. TOTAL LAND – Add entries in questions 1 through 5. This total should equal the entry in section 1, question 4	0236 <input type="checkbox"/>		/10

SECTION 6 IRRIGATION

Was Any LAND in this place **IRRIGATED** at any time during 2018? Irrigated land is all land watered by any artificial or controlled means: sprinklers, furrows or ditches, spreader dikes, etc. Include supplemental, partial, and pre-plant irrigation.

⁰⁰⁰⁶ 1 **Yes** - Complete this section 2 **No** - Go to Section 7

	None	Whole acres	Tenths
1. How many acres were irrigated from a PRIVATE SYSTEM (wells, rivers, brooks, etc.)?	0240 <input type="checkbox"/>		/10
2. How many acres were irrigated from a PUBLIC SYSTEM?	0241 <input type="checkbox"/>		/10
3. If water from a public system was used, which rate was charged for the water?			
⁰²⁴⁵ 1 <input type="checkbox"/> Agricultural rate 2 <input type="checkbox"/> Residential rate			
4. Major source of water used for irrigation:			
⁰²⁴⁷ 1 <input type="checkbox"/> Well or cistern 3 <input type="checkbox"/> Lake or private pond 5 <input type="checkbox"/> Public utility			
2 <input type="checkbox"/> River or stream 4 <input type="checkbox"/> Canal or irrigation district 6 <input type="checkbox"/> Other – <i>Specify</i> ⁰²⁴⁸ <input type="text"/>			

SECTION 7 LIVESTOCK

Do you or anyone else have any LIVESTOCK (excluding poultry and fish) on this place or were any sold from this place in 2018?

0007 1 Yes - Complete this section 2 No - Go to Section 8

	None	How many are on this place today?	How many were sold in 2018?
1. Carabaos of all ages	0250 <input type="checkbox"/>		0251
2. Cattle and calves of all ages (Total of "a" and "b" below)	0252 <input type="checkbox"/>		0253
Of this total, how many -			
		Are on this place today?	Were sold in 2018?
a. Milk cows	0262		0263
b. All other cattle and calves	0264		0265
3. Hogs and pigs of all ages	0266 <input type="checkbox"/>		0267
4. Goats and kids of all ages	0274 <input type="checkbox"/>		0275
5. Horses, mules, and colts of all ages	0276 <input type="checkbox"/>		0277
6. Other livestock - Specify <input type="text"/>	0282 <input type="checkbox"/>		0278
		Quarts sold	Gross value of sales
7. Quantity and value of milk sold in 2018	0280		0281 \$ <input type="text"/> .00

SECTION 8 POULTRY

Do you or anyone else have any POULTRY on this place or were any sold from this place in 2018?

0008 1 Yes - Complete this section 2 No - Go to Section 9

	None	How many are on this place today?	How many were sold in 2018?
1. Chicken hens 4 months old and over (Total of "a" and "b" below) ...	0292 <input type="checkbox"/>		0293
Of this total, how many -			
		Are on this place today?	Were sold in 2018?
a. Commercial layers	0294		0295
b. Other chicken hens	0296		0297
2. Chickens less than 4 months old	0300 <input type="checkbox"/>		0301
3. Roosters and pullets	0302 <input type="checkbox"/>		0303
4. Fighting roosters	0304 <input type="checkbox"/>		0305
5. Ducks	0306 <input type="checkbox"/>		0307
6. Pigeons	0308 <input type="checkbox"/>		0309
7. Other (geese, turkeys, etc.) - Specify <input type="text"/>	0298 <input type="checkbox"/>		0310
		Dozens sold	Gross value of sales
8. Quantity and value of chicken eggs sold in 2018	0312		0313 \$ <input type="text"/> .00

SECTION 9 AQUACULTURE

Did you or anyone else raise any FISH or AQUACULTURE PRODUCTS (shrimp, etc.) for sale?

0009 1 Yes - Complete this section 2 No - Go to Section 10

- | | | |
|---|------|--------|
| 1. How many in-ground ponds did you use? | 0320 | Number |
| 2. How many above-ground tanks did you use? | 0321 | |
| 3. Enter the total of aquaculture products sold or moved from this operation during 2018. | | |

Aquaculture Type	None	Total Pounds Sold or Moved	Total Number Sold or Moved
Catfish	<input type="checkbox"/>	0314	0315
Milkfish	<input type="checkbox"/>	0316	0317
Shrimp	<input type="checkbox"/>	0318	0319
Tilapia	<input type="checkbox"/>	0325	0326
Other aquaculture products, <i>Specify</i> 0327	<input type="checkbox"/>	0328	0329

SECTION 10 VALUE OF SALES

What was the MARKET VALUE of the following AGRICULTURAL PRODUCTS SOLD from this place in 2018, before taxes and expenses?

		None	Dollars only	
1. Root crops	0330	<input type="checkbox"/>	\$.00
2. Vegetables and melons	0331	<input type="checkbox"/>	\$.00
3. Fruits and nuts	0332	<input type="checkbox"/>	\$.00
4. Nursery crops, including ornamentals	0333	<input type="checkbox"/>	\$.00
5. Cattle and calves - Include carabaos	0334	<input type="checkbox"/>	\$.00
6. Hogs and pigs	0335	<input type="checkbox"/>	\$.00
7. Poultry - chickens, roosters, pullets, ducks, pigeons, etc.	0336	<input type="checkbox"/>	\$.00
8. Eggs, except chicken eggs, and other poultry products	0337	<input type="checkbox"/>	\$.00
9. Fish and other aquaculture products	0323	<input type="checkbox"/>	\$.00
10. Other livestock and livestock products - goats, horses, mules, goats' milk, etc.	0338	<input type="checkbox"/>	\$.00
0339 <input style="width: 50px;" type="text"/>				
<i>Specify</i>				

SECTION 11 PRODUCTION EXPENSES

How much were your EXPENDITURES for each of the following in 2018?

		None	Dollars only	
1. Machine hire and customwork	0341	<input type="checkbox"/>	\$.00
2. Wages and salaries paid to employees or hired farm workers (DO NOT include housework or contract construction work.) Include cash payments only ..	0342	<input type="checkbox"/>	\$.00
3. Feed purchased for livestock, poultry, and fish - Include cost of grain, feed, concentrates, and roughages; also amount paid for grinding and mixing feed	0343	<input type="checkbox"/>	\$.00
4. Insecticides, fungicides, and herbicides	0344	<input type="checkbox"/>	\$.00
5. Fertilizers and manure purchased	0345	<input type="checkbox"/>	\$.00
6. Livestock, poultry, and fish purchased	0346	<input type="checkbox"/>	\$.00
7. Seed cost - Include seedlings purchased	0347	<input type="checkbox"/>	\$.00

SECTION 12 EQUIPMENT

Which of the following EQUIPMENT are used on this place? Include all specified equipment on this place today, regardless of ownership, provided it is in operating condition.

	None	Number
1. Tractors of all kinds.....	0350 <input type="checkbox"/>	
2. Motortrucks	0351 <input type="checkbox"/>	
3. Automobiles	0352 <input type="checkbox"/>	
4. Tillers of all kinds	0353 <input type="checkbox"/>	

SECTION 13 PRACTICES

1. At any time during 2018, did this operation –

a. Use a computer for the farm business?..... 0375 1 Yes 2 No

b. Have Internet access?

0376 1 Yes – Access to the Internet was through (check all that apply)

0377 1 <input type="checkbox"/> Dial-up	3 <input type="checkbox"/> Cable modem	5 <input type="checkbox"/> Mobile broadband plan for a computer or a cell phone	7 <input type="checkbox"/> Broadband over power lines
2 <input type="checkbox"/> DSL	4 <input type="checkbox"/> Fiber-optic	6 <input type="checkbox"/> Satellite	8 <input type="checkbox"/> Other, specify _C

0378

2 No

SECTION 14 OPERATOR CHARACTERISTICS

The following questions are about the CHARACTERISTICS of the FARM OPERATOR.

1. Do you (operator) live on this place (the acres entered in section 1, question 4)?

0360 1 Yes 2 No

2. In what YEAR did you (operator) begin to operate any part of this place?..... 0361

3. How old were you (operator) on your last birthday?..... 0362

4. At which occupation did you (operator) spend the majority (50 percent or more) of your work time in 2018? .. 0363

1 <input type="checkbox"/> Farming or ranching	
2 <input type="checkbox"/> Other	

5. OFF-FARM WORK – How many days did you (operator) work at least 4 hours per day off this place in 2018? Include work at a nonfarm job, business, or on someone else's farm. (Exclude exchange farm work.) 0364

1 <input type="checkbox"/> None	4 <input type="checkbox"/> 100 - 149 days
2 <input type="checkbox"/> 1 - 49 days	5 <input type="checkbox"/> 150 - 199 days
3 <input type="checkbox"/> 50 - 99 days	6 <input type="checkbox"/> 200 days or more

6. RACE/NATIONAL ORIGIN of operator 0365

1 <input type="checkbox"/> Chamorro	5 <input type="checkbox"/> White
2 <input type="checkbox"/> Chinese	6 <input type="checkbox"/> Other – Specify _C
3 <input type="checkbox"/> Filipino	0366 <input type="text"/>
4 <input type="checkbox"/> Japanese	

7. SEX of operator

0367 1 Male 2 Female

SECTION 15

ENUMERATOR'S RECORD (To be completed by the census enumerator)

1. Who furnished the information in this report? 0370

}	1 <input type="checkbox"/> Operator	4 <input type="checkbox"/> Hired laborer
	2 <input type="checkbox"/> Landlord	5 <input type="checkbox"/> Other – <i>Specify</i> C
	3 <input type="checkbox"/> Spouse or other family member	0371 <input style="width: 100px; height: 20px;" type="text"/>

2. **REMARKS** – Make any remarks needed in regard to the place, the owner or operator, the crops cultivated, or the livestock on this place.

3. RESIDENCE OF OPERATOR	a. ED 0980	b. Village 0981
	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
4. LOCATION OF LAND	a. ED 0982	b. ED number 0983
	<input style="width: 100%; height: 20px;" type="text"/>	<input style="width: 100%; height: 20px;" type="text"/>
5. CERTIFIED BY	Enumerator's signature 0984	Date 0985
	<input style="width: 100%; height: 20px;" type="text"/>	/ /2019
6. CHECKED BY	Enumerator's signature 0986	Date 0987
	<input style="width: 100%; height: 20px;" type="text"/>	/ /2019

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