APPENDIX A. General Explanation

GENERAL INFORMATION

The following definitions and explanations relate to items that are considered to be inadequately described in the tables. Most of the definitions are from the instructions given to enumerators. For an exact wording of the questions and instructions on the report form, see the facsimile in appendix B.

In the tables, data for land in farms, land use, fruit and nut trees, and livestock and poultry on hand represent the situation existing at the time of enumeration of each farm. The enumeration for the 1978 Census of Agriculture began in April 1978; the 1974 census in January 1975; and the 1969 census in January 1970. All other data, such as that relating to hectares, production, sales, hired workers, and expenses are for the calendar years 1977, 1974, and 1969 respectively.

FARM OPERATOR

The term “operator” designates a person who operates a farm, either by doing the work himself or herself or by directly supervising the work. The operator may be the owner, a member of the owner’s household, a tenant or renter, the manager, or the person in charge of an institutional farm. By definition, the number of operators is the same as the number of farms.

FARMS OR OPERATORS REPORTING

Figures for “farms” represent the number of farms for which the specified item was reported. The difference between the total number of farms and the number of farms reporting an item represents the number of farms not producing that item, provided a correct report was received for all farms.

LAND

Land in farms—The land in farms was determined from the answers to questions 1 through 7 in section 2 of the agriculture report form (see appendix B). The amounts of land reported as owned, rented from others, used under permit, or occupied without permit, or furnished by the government were added together, and the amount of land reported as rented to others was subtracted from that sum. The result represents “Land in farms.” Although the area designated land in farms consists primarily of agricultural land—i.e., land used for crops, pasture, or grazing—it also included areas of land not actually under cultivation nor used for pasture or grazing. For example, woodland and wasteland owned or rented from others was included as land in farms unless the report indicated it was being held for nonagricultural purposes as recreational or for timber, etc.

Land owned—This item includes all land held by the operator or his spouse under title, purchase contract, homestead law, or as heir or trustee of an undivided estate at the time of enumeration. However, land used by the U.S. military services was excluded even though owned by the operator.

Land rented to others—This item includes all land the operator rented or leased to others and all land assigned to others on shares or rent free during the past year. For the most part, the land rented to others represents agricultural land, but it may also include 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 the 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 rented from others—This item includes not only land that the operator rented or leased from others, but also land worked on shares for others and land occupied rent free.

Land occupied by permit—Rights to use land owned or controlled by the Government of Guam are in the form of permits rather than lease or rental arrangements. Accordingly, this item includes all land for which the operator had a Government of Guam permit.

Land occupied without permit—This item includes all land occupied by the operator as a “borrower” or “nonpermittee,” without ownership rights to the land, or without any kind of permit, lease, or rental agreement.

Land furnished by Government—This item includes all land that the Government of Guam furnished to the operator in connection with his or her living quarters.

LAND USE

Land in farms is categorized according to the way it was being used on enumeration day. The land uses described in the following paragraphs are mutually exclusive in that each hectare of land is counted only once, even though it may have had more than one use during the year.

Cropland used for crops—This item includes all land planted in crops at the time of enumeration. Land was to be reported only once, even if two or more crops were planted on it. Land in crops includes (1) land in bearing and nonbearing fruit and nut trees or plants or any other tree crops; (2) land that had partial, but not total, crop failure; and (3) land in home gardens.
Cropland used for pasture—This item includes all cropland on the place that was used only for pasture. Land planted in crops, even though the crops were not to be harvested, was not to be included here.

Cropland not used for crops or pasture—This item includes cropland on the place that was not used for crops or pasture. 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. Nor does it include land in roads, streams, or swamps. It does include land on which there was total crop failure due to flood, drought, insects, fire, or other causes; cropland lying idle; and cropland planted with soil improvement grasses, or other cover crops planted for the purpose of improvement.

Pastureland used for pasture or grazing—This item includes land used for grazing livestock at the time of enumeration. It does not include cropland, even though cattle or other livestock may have been grazed on it.

Pastureland not used for pasture or grazing—This pastureland refers to all land suitable for pasture or grazing that was not being used for grazing livestock at the time of enumeration. It includes land that, in the opinion of the operator, could have supported enough plant growth, either native or planted for grazing, provided the clearing and grazing of the land would not seriously damage it.

All other land—This item includes all land not qualifying as either cropland or pastureland as defined above. It includes land in house lots, barn lots, ponds, ditches, swamps, steep slopes, roads, brushland, wasteland, and forest areas.

**TYPE OF HOLDING**

Agriculture operations are classified on the basis of whether they are producing mainly for home consumption, or mainly for sale. Holdings producing principally for sale are further classified by type of agricultural production.

Holdings with production mainly for home consumption—This type applies to holdings from which 50 percent or more of the agricultural output of the holding is consumed by the holder's household.

Holdings with production mainly for sale—This type applies to holdings where 50 percent or more of the agricultural output is for sale. Holdings producing mainly for sale are further classified according to their most important activity.

Vegetable holding—is one on which 50 percent or more of the value of sales was from the sale of vegetables.

Field crop holding—is one on which 50 percent or more of the value of sales was from the sale of field crops.

Fruit and nut holding—is one on which 50 percent or more of the value of sales was from the sale of fruits and nuts.

Livestock holding—is one on which 50 percent of the value of sales was from the sale of livestock and livestock products, except dairy products.

Poultry holding—is one on which 50 percent or more of the value of sales was from the sale of poultry and poultry products.

Mixed holding—is one on which none of the above items accounts for 50 percent or more of the value of sales.

Other holding—is one that does not belong to any of the previous groups.

**CROPS HARVESTED**

The report form contained individual inquiries for crops commonly grown and space to write in those less frequently produced. The information requested in 1978 includes hectares of each crop harvested, pounds harvested and sold, and value of sales.

Vegetables and field crops—The total quantity of each vegetable and field crop harvested, the quantity sold, and value of sales during 1977 were to have been reported.

When two or more crops, or two or more plantings of the same crop were harvested from the same land during the year, the area was to be reported separately for each crop or planting.

Fruits and nuts—For fruits grown on farms, information was obtained on the total quantity harvested, the quantity sold, and value of sales during the year. Data were also collected separately for the number of trees or plants, both bearing and nonbearing, that were on the place on enumeration day. For breadfruits, betelnuts, coconuts, guavas, soursops, starfruits, and other wild or cultivated fruits, nuts, or crops, the reported data represent total quantities harvested or gathered during the year by all members of the operator's household, both from land on the farm and other land.

Data for nursery and ornamental plants, flowering trees and plants, and shrubs were included in 1978 for the first time. Data for this question reflect the number of plants on hand at time of enumeration. Plants sold and value of sales were for calendar year 1977.

**LIVESTOCK, POULTRY, AND FISH**

Data for livestock and poultry show the number on hand at time of enumeration and quantity sold during 1977. All livestock and poultry on the place were enumerated at the time of the enumeration regardless of ownership.

Sales data were collected for all livestock and poultry sold from the place during 1977, as well as dozens of eggs and quarts of milk sold.

Data for pounds of fish sold and value of sales are for calendar year 1977. Data for fish were first collected in 1974.

Cattle and Calves—This category includes "milk cows" that were on the place on the day of enumeration and were milked at any
time during 1977. "All others" refers to cattle and calves other than milk cows. Livestock sales data are for the calendar year 1977. No sales of milk were reported for this time period.

SELECTED EXPENSES

Information was obtained for six major categories of farm expenses incurred during 1977:

Machine hire and customwork—This item pertains to farm-related expenses for tractor hire, plowing, spraying, hauling, etc.

Wages and salaries paid for farm workers—This item pertains to cash payments for agriculture work. Expenses incurred from housework or contract construction work were not to be included.

Purchases of insecticides, fungicides, etc.—This item includes money spent for chemicals, sprays, dusts, etc., used for the control of weeds, pests, insects, diseases, etc. for all crops, livestock, and poultry.

Purchases of feed for livestock and poultry—This item includes money spent for the purchase of feed for livestock and poultry.

Purchases of fertilizers and manure—This item covers payments for commercial fertilizers, fertilizing materials, and manure.

Purchases of livestock and poultry—This item covers money spent for the purchase of livestock and poultry.

EQUIPMENT AND FACILITIES USED

Equipment—The following types of equipment on the place at time of enumeration, regardless of ownership, were reported so long as they were operable.

Tractors—include all wheel and tracklaying (crawler) tractors, garden tractors, and homemade tractors.

Motortrucks—include pickup trucks and truck-trailer combinations, and jeeps and station wagons, if used primarily as trucks.

Automobiles—include jeeps and station wagons used primarily as passenger cars.

Facilities—The presence or absence of electricity and/or piped running water on the place was reported.

Electricity—covers electrical power anywhere on the place including the dwelling of the operator.

Piped running water—covers water in pipelines by a pressure system or by gravity flow from natural or artificial sources. Water from a hand pump was not considered to be piped running water.

OPERATOR CHARACTERISTICS

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

Year began operating present farm—Enumerators were instructed to obtain the year an operator began to operate the farm, i.e., the first year the operator took continuous charge of the present farm or any part of it.

Main occupation—This question was asked to determine whether the principal occupation of the operator was agricultural or nonagricultural. 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.

Work off farm—Data for work off farm have been collected since 1969. Off-farm work was enumerated to provide information on the extent of part-time farming in Guam. Operators reporting off-farm work in 1977 varied from those who worked full time for the military installations to those who supplemented their income with odd or spare-time jobs. Only work by the operator for pay was to be reported. Days worked off the place were to include work at another farm or a nonfarm business, such as a store or repair shop; or at a profession such as doctor, lawyer, or teacher. Exchange work was not to be reported.

FARM CLASSIFICATIONS

This report presents detailed data for farms classified by size of farm and tenure of operator.

Farms by size—Farms were classified by size on the basis of the total land area established in each one. 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 case of share-tenants, the land assigned to each share-tenant is considered a separate farm, even though the landlord may consider his entire landholding to be one unit rather than several separate units.

Farms by tenure of operator—Farms were classified by tenure of operator on the basis of information reported for land owned, rented from others, operated under a government permit, operated without a permit (nonpermittee), or furnished by the Government of Guam in connection with the operator's living quarters. During the processing operations, each report form was coded to indicate whether the operator was a full owner, part owner, tenant, permittee, nonpermittee, or other operator.
Full owners—operate only land owned or land owned plus land operated under a permit, without a permit, or in connection with living quarters furnished by the Government of Guam.

Part owners—operate land owned plus land rented from others. They may also operate land under a permit, without a permit, or furnished by the Government of Guam in connection with their living quarters.

Tenants—operate only land rented from others or land rented plus land under a permit, without a permit, or furnished by the Government of Guam in connection with their living quarters.

Permittees—operate land under a permit from the Government of Guam for all the land operated, or they may operate some of the land under a permit and the remainder of the land without a permit.

Nonpermittees—operate "borrowed" land. They do not own or rent the land, operate the land under a permit, or use the land under any arrangement with the Government of Guam.

Others—operate land that does not meet the criteria of the foregoing groups. All the land they operate is furnished by the Government of Guam in connection with living quarters, or part is operated without a permit and part is furnished by the Government of Guam in connection with living quarters.
### APPENDIX B. Report Form

**1978 CENSUS OF AGRICULTURE**

**GUAM**

**FARM SERIAL NUMBER**
From A2, column (6)

**CENSUS USE ONLY**

<table>
<thead>
<tr>
<th>Farm Serial Number</th>
<th>035</th>
<th>036</th>
<th>037</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**IMPORTANT:** Fill this questionnaire if any member of the household harvested (or gathered) any crops or vegetables during 1978, or has any livestock or 15 or more poultry.

#### Section 1 OPERATOR

1. What is your (the operator's) name?  

2. What is your (the operator's) mailing address? (Give address where correspondence is received.)

#### Section 2 LAND IN AGRICULTURE

1. How many hectares do you own?  

2. How many hectares do you rent from others?  

3. For how many hectares do you have a government land permit?  

4. How many hectares do you occupy without a land permit?  

5. How many hectares are furnished to you, in connection with your living quarters, by the government?  

6. How many hectares do you rent to others? (Do not include land used by U.S. military services.)

7. TOTAL AREA IN THIS PLACE (ADD the entries in items 1, 2, 3, 4, and 5, then SUBTRACT the entry in item 6.)

8. Is the farm located on a hard surface (all weather) road?  

   1. Yes  
   2. No – About how many miles is it to the nearest hard surface (all weather) road?  

9. What percent of the farm operation is financed by each of the following sources?  

   a. Operator  
   b. Private  
   c. Commercial  
   d. Government  
   e. Other – Specify

10. How many unpaid and paid farm hands (including the operator and his family) worked on this place in 1977?  

   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 operator's family), how many worked?  

11. Is this holding producing mainly for home consumption or sale?  

   1. Home consumption - Go to section 3  
   2. Sale - Ask item 12

12. If producing mainly for sale, is it one of the following?  

   1. Vegetable holding  
   2. Field crop holding  
   3. Fruit and nut holding  
   4. Dairy holding  
   5. Livestock holding  
   6. Poultry holding  
   7. Mixed holding  
   8. Other – Specify
## Section 3: Crops Harvested in 1977

### Were any of these Vegetables and Field Crops harvested in 1977?

- **1. Bittermelons**
- **2. Cantaloupes**
- **3. Cassava (tapioca)**
- **4. Gado**
- **5. Muskmelons and pepinos**
- **6. Sweetpotatoes**
- **7. Taro**
- **8. Watermelons**
- **9. Yams**
- **10. Chinese cabbage**
- **11. Corn**
- **12. Cucumbers**
- **13. Eggplant**
- **14. Green beans**
- **15. Green onions**
- **16. Head cabbage**
- **17. Peppers**
- **18. Pumpkins and squash**
- **19. Radishes**
- **20. Tomatoes**
- **21. Other vegetables and field crops – Specify**

**Number of Hectares harvested (a)**

<table>
<thead>
<tr>
<th>Hectares</th>
<th>Area</th>
</tr>
</thead>
</table>

- **22. Avocados**
- **23. Bananas**
- **24. Betelnuts**
- **25. Breadfruits**
- **26. Coconuts**
- **27. Grapefruits**
- **28. Guavas**
- **29. Lemons-Limes**
- **30. Mangos**
- **31. Oranges**
- **32. Papayas**
- **33. Pineapples**
- **34. Soursops**
- **35. Star Fruits**
- **36. Sweetsops**
- **37. Tangerines**
- **38. Other fruits, nuts, and tree crops – Specify**

### Were any of these Fruits, Nuts, and Tree crops harvested or gathered by you or your family in 1977?

- **39. Nursery and Ornamental plants, flowering trees and plants, shrubs, etc; on the place in the last 12 months**

**Number of Hectares harvested (a)**

<table>
<thead>
<tr>
<th>Hectares</th>
<th>Area</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Number of plants on the place (a)</th>
<th>Number of plants sold (b)</th>
<th>What was the value of sales in 1977 (c)</th>
</tr>
</thead>
</table>
### Section 4 - Land Use

Of the total hectares on this place (Section 2, item 7) -

<table>
<thead>
<tr>
<th>Number of hectares</th>
<th>On how much of this land are crops or livestock being raised for sale?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hectares</td>
<td>Ares</td>
</tr>
<tr>
<td>236</td>
<td></td>
</tr>
<tr>
<td>238</td>
<td></td>
</tr>
<tr>
<td>240</td>
<td></td>
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<td>246</td>
<td></td>
</tr>
<tr>
<td>248</td>
<td></td>
</tr>
</tbody>
</table>

1. How many hectares of land are in crops? ...............
2. How much cropland is used for pasture? ...............
3. How much cropland is not used for crops or pasture? .......
4. How much pastureland is used for pasture or grazing? .......
5. How much pastureland is not used for pasture or grazing? .......
6. How many hectares are in other land? ...............
7. TOTAL LAND (Add entries in items 1 through 6.) .......

The total in col. (a) should be equal to the entry in section 2, item 7.

### Section 5 - Livestock and Poultry

Do you or anyone else have any of the following livestock and poultry on this place or were any sold from this place in 1977?

- **Carabaos of all ages**
- **Total cattle and calves of all ages** (Must equal sum of a and b below.)
  - **Milk cows**
  - **All other cattle and calves**
- **Hogs and pigs of all ages**
- **Goats and kids of all ages**
- **Horses and colts of all ages**
- **Chicken hens 4 months old and over** (Must equal sum of a and b below.)
  - **Commercial layers**
  - **Other chicken hens**
- **Chickens less than 4 months old**
- **Roosters and pullets**
- **Other poultry**
  - **Ducks**
  - **Geese**
  - **Guineas**
  - **Pigeons**
  - **Other - Specify**
- **How many dozens of chicken eggs were sold during 1977?**
- **How many quarts of milk were sold during 1977?**

### Section 6 - Fishery

What was the total pounds of fish harvested during 1977?

<table>
<thead>
<tr>
<th>Pounds sold</th>
<th>What was the value of sales in 1977?</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a)</td>
<td>(b)</td>
</tr>
<tr>
<td>305</td>
<td>306</td>
</tr>
<tr>
<td>307</td>
<td>308</td>
</tr>
</tbody>
</table>
### Section 7 > SELECTED EXPENDITURES IN 1977

How much did you spend for each of the following in 1977?

1. Machine hire and customwork

2. Wages and salaries paid to employees or hired farm workers (Do not include housework or contract construction work. Include cash payments only.)

3. Feed purchased for livestock and poultry (Include cost of grain, feed, concentrates, and roughages; also amount paid for grinding and mixing feed.)

4. Insecticides, fungicides, and herbicides

5. Fertilizers and manure purchased

6. Livestock and poultry purchased

### Section 8 > EQUIPMENT AND FACILITIES USED ON THE PLACE IN 1977

1. How many of the following are on this place? (Include all specified equipment on this place today, regardless of ownership, provided it is in operating condition.)

   a. Tractor (of all kinds)

   b. Motortruck

   c. Automobile

2. Do you have the following on this place?

   a. Electricity

   b. Piped running water

### Section 9 > OPERATOR CHARACTERISTICS

The following questions are about the FARM OPERATOR.

1. Do you live on this place?

2. In what year did you begin to operate this place?

3. How old were you on your last birthday?

4. What is your main occupation?

5. OFF FARM WORK - How many days did the operator work 4 hours or more off this place in 1977? (Include work at a nonfarm job, business, or on someone else's farm. Exclude exchange farm work)

### Section 10 > ENUMERATOR'S RECORD (To be filled by the Census enumerator)

1. Who furnished the information in this report?

   a. Operator

   b. Wife or member of the operator's family

   c. Landlord

   d. Hire laborer

   e. Other

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

4. Location of land

5. Certified by

   a. Enumerator's signature

   b. Village

6. Checked by

   a. Supervisor's signature

   b. ED number