

COOK ISLANDS
MINISTRY OF AGRICULTURE AND STATISTICS OFFICE
Rarotonga

2000 CENSUS OF AGRICULTURE AND FISHERIES

Confidential

The information is being collected under the Statistics Act 1966 and will be kept strictly confidential and will be used for statistical purposes only.

GEOGRAPHIC IDENTIFICATION AND OTHER RELEVANT INFORMATION

| | | |
|------------------|----------------------|----------------------------------|
| District: | <input type="text"/> | Head of Household _____ |
| Enumeration Area | <input type="text"/> | Enumerator _____ |
| Household Number | <input type="text"/> | Date of Interview ____/____/2000 |

SECTION I – LEVEL OF AGRICULTURAL ACTIVITY OF THE HOUSEHOLD (during the last 12 months)

(1) Did you or any member of your household grow garden crops, coconut trees, papaya trees or other tree crops during the last twelve months? (Circle "1" for Yes; otherwise circle "2". Then enter the code in the box provided.)

_____ 1 YES 2 NO → Go to Sections IV, XI and End Interview

↓

(2) Did you have more than 1/8 acre (23 m x 23 m) of land under garden crops or more than 10 coconut trees or more than 10 papaya trees or more than 10 other tree crops during the last twelve months? (Circle "1" for Yes; otherwise circle "2". Then enter the code in the box provided.)

_____ 1 YES 2 NO → Go to Sections III, IV, V and XI

↓

(3) Did you sell any vegetables, fruits, copra or other agricultural produce during the last twelve months? (Circle "1" for Yes, otherwise circle "2". Then enter the code in the box provided.)

_____ 1 YES 2 NO → Go to Section II

↓

(4) Did you produce vegetables or fruit crops primarily for sale/export during the last twelve months? (Circle "1" for Yes, otherwise circle "2". Then enter the code in the box provided.)

1 YES 2 NO

===== >>> ===== >>> ===== >>> Go to Section II

SECTION II – LIST OF AGRICULTURAL HOLDINGS (that the household was engaged in during the last twelve (12) months)

List the different **agricultural holdings** that the household is engaged in: (sole operation, family or other group operation – each combination forms a different holding). Check for parcels adjacent to the house, fallow land and parcels with abandoned or semi-abandoned crops.

| Holding Number | Name(s) of Operator(s)* | Total Area (In acres) | Number of Separate Parcels | Location (District) | |
|----------------|-------------------------|-----------------------|----------------------------|---------------------|-----|
| | | | | Code | |
| (1) | (2) | (3) | (4) | (5) | (6) |
| | | | | | |
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| | | | | | |

* Write the name of the household head or the operator in the case of individual household operation or write the names of individual members if partnership or group operation – Circle the respondent to be used for each holding if more than one operator.

Skip Section III =====>>> =====>>> =====>>> Go to Section IV

SECTION III – CROPS CURRENTLY GROWING AND/OR PLANTED AND/OR HARVESTED (during the last twelve months)

List the crops currently growing and/or planted and/or harvested during the last twelve months by type. Estimate the area of each crop in square meters or the number of trees/plants.

| Crop(s) Currently Growing | | Area (Square meters) | Number of Plants/ Trees | Crop(s) Planted and/or Harvested | | Area (Square meters) | Number of Plants/ Trees |
|---------------------------|------|----------------------|-------------------------|----------------------------------|------|----------------------|-------------------------|
| Name of Crop(s) | Code | | | Name of Crop(s) | Code | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| | | | | | | | |
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SECTION IV – LIVESTOCK (as of day of visit/enumeration)

Do you or your household has any livestock kept as of day of visit/enumeration? (Circle "1" for Yes, otherwise circle "2", then enter the code in the box provided. For Q1, Section I with a "No" answer, go to Section XI.)

1 YES → Enter the number of livestock by type in column 3. 2 NO → Go to Section V if applicable

| Type of Livestock | Code | Number | Type of Livestock | Code | Number |
|-----------------------|------|--------|----------------------|------|--------|
| (1) | (2) | (3) | (1) | (2) | (3) |
| Cattle | 10 | | Goats | 40 | |
| Of w/c how many Cows | 11 | | Of w/c how many Does | 41 | |
| Horses | 20 | | Chickens | 50 | |
| Of w/c how many Mares | 21 | | Other Livestock | 60 | |
| Pigs | 30 | | | | |
| Of w/c how many Sows | 31 | | | | |

SECTION V – AVERAGE CONSUMPTION

Does your household consume coconut? (Circle "1" for Yes and "2" for No.) If Yes, what is the average daily or weekly consumption?

| Crop | Code | Does consume coconut? | | Unit | Average Consumption (Choose one only) | |
|-------------------------------|------|-----------------------|--------|------|---------------------------------------|--------|
| | | | | | Daily | Weekly |
| (1) | (2) | (3) | | (4) | (5) | (6) |
| Coconut for human consumption | 151 | 1 – Yes | 2 – No | Nut | | |
| Coconut for feeding animals | 152 | 1 – Yes | 2 – No | Nut | | |

For households with an answer of "Yes" in Q1, Section I and "No" in Q2, Section I, proceed to ask Section XI- Fisheries. Otherwise, proceed to the next section.

SECTION VI – HOUSEHOLD COMPOSITION (as of day of visit/enumeration)

| Age Group | Male | Female | Total |
|-----------------------|------|--------|-------|
| (1) | (2) | (3) | (4) |
| Under 15 years old | | | |
| 15 – 64 years old | | | |
| 65 years old and over | | | |
| Total | | | |

SECTION VII – PROPORTION OF HOUSEHOLD INCOME FROM AGRICULTURE (during the last twelve months)

(1) What was the proportion of your household's total income (in cash or in kind) usually derived from agricultural activities during the last twelve months? (Note that "in kind" means agricultural products that were produced and consumed by the household for the last twelve months or may be, the wages received in terms of agricultural products by any member employed in own holding or other household's holding. Circle one code and enter in the box provided.)

- 1 About ¼ 3 About ½ 5 All
 2 About 1/3 4 About ¾ 6 None

SECTION VIII – LOANS BY THE HOUSEHOLD FOR AGRICULTURE PURPOSES (during the last five years)

(1) Did you avail any loan for your household's agricultural activities in the last five years? (Circle "1" for Yes or "2" for No. Then enter the code in the box provided?)

- 1 Yes 2 No → Go to Section IX

(2) What was your main source of loan that you use for your household's agricultural activities in the last five years? (Circle the code for the answer and enter it in the box provided.)

- 1 Development Bank 2 Other Sources 9 Not Stated

USE THIS SPACE FOR REMARKS/COMPUTATION

SECTION IX – EQUIPMENT USED (during the last 12 months)

Did you use any equipment in your household's agricultural activities during the last twelve months? (Circle "1" for Yes or "2" for No. Enter the code in the box provided.)

1 Yes

2 No → Go to Section X

| Type of Equipment Used | Code | Number Owned (In operational condition) | Hired 1 – Yes / 2 – No | Borrowed 1 – Yes / 2 – No |
|---------------------------------|------|--|---------------------------|------------------------------|
| (1) | (2) | (3) | (4) | (5) |
| Digging spade | 01 | | | |
| Digging fork | 02 | | | |
| Shovel | 03 | | | |
| Bush knife | 04 | | | |
| Axe | 05 | | | |
| Plough | 06 | | | |
| Rotovator | 07 | | | |
| Slasher | 08 | | | |
| Weed eater | 09 | | | |
| Chainsaw | 10 | | | |
| Rotary hoe | 11 | | | |
| Mist blower | 12 | | | |
| Water pump | 13 | | | |
| Tractor | 14 | | | |
| Manual sprayer | 15 | | | |
| Motorized sprayer | 16 | | | |
| Copra dryer | 17 | | | |
| Pick-up or truck or any vehicle | 18 | | | |
| Other types (specify) | 19 | | | |
| | | | | |
| | | | | |
| | | | | |

SECTION X – FERTILIZERS, AGRICULTURAL CHEMICALS, IMPROVED VARIETIES & SELECTED AGRICULTURAL ACTIVITIES (during the last twelve months)

(1) Did you or your household use/apply any of the following in any of the crops grown during the last twelve months? (Circle "1" for Yes or "2" for No, then enter the code in the box provided for each item.)

- a) Inorganic fertilizers? 1 Yes 2
- b) Organic fertilizers such as compost, animal manure, etc.? 1 Yes 2
- c) Agricultural chemicals, i.e, pesticides and herbicides? 1 Yes 2

(2) Did you or your household use improved varieties for the following crops during the last twelve months? (Circle "1" for Yes or "2" for No, then enter the code in the box provided for each item.)

- a) Taro? 1 Yes 2
- b) Cassava? 1 Yes 2
- c) Papaya? 1 Yes 2
- d) Vegetables like cabbage, lettuce and tomato? 1 Yes 2

(3) Did you or your household engage in any of the following selected agricultural activities during the last twelve months? (Circle "1" for Yes or "2" for No, then enter the code in the box provided for each item.)

- a) Bee keeping for honey production? 1 Yes 2
- b) Chicken raising for commercial purposes? (If Yes, use Livestock/Poultry Form) 1 Yes 2
- c) Pig raising for commercial purposes? (If Yes, use Livestock/Poultry Form) 1 Yes 2
- d) Goat raising for commercial purposes? (If Yes, use Livestock/Poultry Form) 1 Yes 2

SECTION XI – FISHERIES (during the last twelve months)

(1) Did you or any member of your household engage as operator in any of the following fishing activities anytime during the last twelve months? (Circle "1" for Yes or "2" for No and enter the code in the box provided).

- a) Capture fishing/Collecting sea products? 1 Yes, answer Questions 2-7 2 No, see no
- b) Pearl farming/culture? 1 Yes, use Pearl Farming Form 2 No, see no

(Note: If Q1, Section I is "2" or if Q1 is "1" & Q2 is "2" of Section 1 and the answers to both activities are No, end interview. Otherwise use other forms.)

(2) What was the main purpose of your household fishing activities? (Circle the answer and enter in the box provided.)

- 1 Home consumption only
- 2 Mainly for home consumption but with occasional selling
- 3 Mainly for sale

(3) Details of the Fishing Activities:

| Forms of Fishing | Code | Location | Average Number of Fishing Trips | | Average hours per fishing trip |
|------------------|------|----------|---------------------------------|-----------|--------------------------------|
| | | | Per Week | Per Month | |
| (1) | (2) | (3) | (4) | (5) | (6) |
| | | | | | |
| | | | | | |
| | | | | | |

- Forms of Fishing: Location:
- 1 Gill and other net fishing 4 Hook and line fishing 7 Spear-gun fishing 1 Lagoon 3 Outside reef
- 2 Vertical long lining 5 Trolling 8 Collecting/Gleaning seashells & other sea products 2 Reef 4 Freshwater like stream
- 3 Drop lining 6 Deep-bottom fishing 9 Other forms (specify)

(4) Did your household use boat(s) in its fishing activities? (Circle "1" for Yes or "2" for No and enter in the box provided.)

- 1 Yes → Ask the details below 2 No → Go to the next question

| Line No. | Type of Boat | Length (in m) | Engine (in HP) | Line No. | Type of Boat | Length (in m) | Engine (in HP) |
|----------|--------------|---------------|----------------|----------|--------------|---------------|----------------|
| (1) | (2) | (3) | (4) | (1) | (2) | (3) | (4) |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Type of Boat: 1 With motor 2 Without motor

(5) How much of the fish or other sea product that your household caught/collected/gleaned, was sold during the last month? (Circle the answer and enter in the box provided.)

- 1 About ¼ 3 About ½ 5 All
- 2 About 1/3 4 About ¾ 6 None

(6) How much of the fish or other sea product caught/collected/gleaned was consumed by your household during the last month? (Circle the answer and enter in the box provided.)

- 1 About ¼ 3 About ½ 5 All
- 2 About 1/3 4 About ¾ 6 None

(7) How many members of your household are normally engaged in fishing? (Enter the number of household members in column 3 and the average number of hours spent in fishing per day per person in column 4.)

| Sex | Code | Number of Persons | Average Number of Hours Spent in Fishing Per Day Per Person |
|--------|------|-------------------|---|
| (1) | (2) | (3) | (4) |
| Male | 1 | | |
| Female | 2 | | |
| Total | | | |

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GEOGRAPHIC IDENTIFICATION AND OTHER RELEVANT INFORMATION

| | | | |
|----------------------------|-----------------------------|---------------------------------------|-------------------------|
| Census District: | <input type="text"/> | Location of the Holding: | |
| Enumeration Area: | <input type="text"/> | Census District: | <input type="text"/> |
| Household Number: | <input type="text"/> | Enumeration Area: | <input type="text"/> |
| Holding Number: | of <input type="text"/> | No. of Hhlds. Operating this Holding: | <input type="text"/> |
| Number of Parcel: In Use | <input type="text"/> | Total Area of Holding: | <input type="text"/> |
| | Fallow <input type="text"/> | | WHOLE NUMBER / FRACTION |
| Name of Operator(s): _____ | | | |

SECTION H1. PARCEL DETAILS (during the last 12 months) Complete one line for each parcel.

| Parcel Number | Location | | Area (Choose one only) | | Land Tenure | Land Use | No. of Years Used/Fallow |
|---------------|------------------|------|------------------------|---------------|-------------|----------|--------------------------|
| | Name of District | Code | Acres | Square Meters | | | |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

- | | |
|---|--|
| Codes for Land Tenure: 1 Crown land 2 European land 3 Customary land 4 Freehold-leased land 5 Freehold-licensed land 6 Occupation right land 7 Long occupation right land 9 Not stated | Code for Land Use: 1 Under tree crops 2 Under other crops 3 Under mixed crops 4 Under fallow 5 Under virgin bush 6 Under livestock 7 Under non-agriculture use 9 Not stated/Unknown |
|---|--|

SECTION H2. SCATTERED PLANTS/TREES on the holding, not in the parcels (for the last 12 mos.)

| Crop Grown | Code | Number of Plants/Trees | Crop Grown | Code | Number of Plants/Trees |
|------------|------|------------------------|------------|------|------------------------|
| (1) | (2) | (3) | (1) | (2) | (3) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SECTION H3. LABOR INPUTS (persons 15 years old and over working on the holding during the last month)

| Line No. | Sex (Code) | Status (Code) | Age | Type (Code) | Ave. Hours Per Week | Wages/Month (In NZ\$) | Benefits Received (Encircle Code/s) | | | Other Paid Job (Enter Code) |
|----------|------------|---------------|-----|-------------|---------------------|-----------------------|-------------------------------------|---|---|-----------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | | (9) |
| 1. Optr. | | | | | | | 1 | 2 | 3 | |
| | | | | | | | 1 | 2 | 3 | |
| | | | | | | | 1 | 2 | 3 | |
| | | | | | | | 1 | 2 | 3 | |

- | | | | | |
|---------------------------------------|--|--|---|--|
| Sex: 1 - Male 2 - Female | Status: 0 - Household member 1 - Non-household member | Type: 1 - Paid 2 - Unpaid | Benefits Received: 1 - Free or subsidized housing 2 - Free meals 3 - Other benefits | Other Paid Job: 1 - Full time 2 - Part time 3 - None |
|---------------------------------------|--|--|---|--|

Livestock Form

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| | | | |
|-------------------|--|--|-------------------------------------|
| Census District: | | | Head of Household: _____ |
| Enumeration Area: | | | Enumerator: _____ |
| Household Number: | | | Date of Interview: _____/_____/2000 |

(1) Type of livestock raised during the last twelve months: *(Circle the type of livestock raised and enter the code in the box provided.)*

- 1 Pig 2 Goat 3 Chicken 4 Cattle

(2) Type of operation during the last twelve months: *(Circle the appropriate code and enter it in the box provided.)*

- 1 Mainly commercial 3 Mainly subsistence
 2 Semi-commercial 9 Not stated

(3) Nature of Disposal for Slaughtered Livestock:

| Kind of Livestock | Number of Disposed Livestock <i>(during last 12 months)</i> | | | | | |
|-------------------|---|----------|-------------|------|-------|----------------------|
| | Code | Home Use | Feast/Gifts | Sold | Total | Sales Revenue (NZ\$) |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

(4) Nature of Disposal for Live Livestock:

| Kind of Livestock | Number of Disposed Livestock <i>(during last 12 months)</i> | | | | |
|-------------------|---|-------------|------|-------|----------------------|
| | Code | Feast/Gifts | Sold | Total | Sales Revenue (NZ\$) |
| (1) | (2) | (4) | (5) | (6) | (7) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Code for the Livestock:

- | | | | | |
|--------------------|----------|----------|-----------------------|-----------|
| 11 Weaners (Pig) | 13 Sows | 21 Goats | 31 Chicken (broilers) | 41 Cattle |
| 12 Fatteners (Pig) | 14 Boars | 22 Does | 32 Chicken (layers) | 42 Cows |

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GEOGRAPHIC IDENTIFICATION AND OTHER RELEVANT INFORMATION

Census District:

| | |
|--|--|
| | |
| | |

 Enumeration Area:

| | |
|--|--|
| | |
| | |

 Household Number:

| | |
|--|--|
| | |
| | |

 Pearl Farm Number:

| | |
|--|--|
| | |
| | |

Location of the Pearl Farm:
 Census District:

| | |
|--|--|
| | |
| | |

 Enumeration Area:

| | |
|--|--|
| | |
| | |

Name of Operator(s): _____

SECTION PF1 – Cultivation Information (during the last 12 months)

(4) How many farm lines do you own in the farm? (Enter the answer in the boxes provided)

| | | |
|--|--|--|
| | | |
|--|--|--|

(5) What is the length of each farm line? (Enter the length in meters and in whole numbers in the boxes provided.)

| | | | |
|--|--|--|--|
| | | | |
|--|--|--|--|

(3) How many spat collector lines do you own? (Enter the answer in the box provided.)

| | | |
|--|--|--|
| | | |
|--|--|--|

(4) What is the length in meters of each spat collector? (Enter the answer in whole numbers in the boxes provided.)

| | | |
|--|--|--|
| | | |
|--|--|--|

(5) How many of the following types of farm shells do you have? (Report the number of farm shells for each type of farm shell reported by the household and place it in the boxes provided.)

| | | | | | | |
|---|--------------------------|--|--|--|--|--|
| 1 | Seeded shells | <table border="1" style="display: inline-table;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> | | | | |
| | | | | | | |
| 2 | Drilled un-seeded shells | <table border="1" style="display: inline-table;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> | | | | |
| | | | | | | |
| 3 | Other shells | <table border="1" style="display: inline-table;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> | | | | |
| | | | | | | |

SECTION PF2 – LABOR INPUTS (during the last month)

| Line No. | Sex (Code) | Status (Code) | Age | Type (Code) | Ave. Hours Per Week | Wages/Month (In NZ\$) | Benefits Received (Encircle Code) | | | Other Paid Job (Enter Code) |
|----------|------------|---------------|-----|-------------|---------------------|-----------------------|-----------------------------------|---|---|-----------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | | (9) |
| 1. Optr. | | | | | | | 1 | 2 | 3 | |
| | | | | | | | 1 | 2 | 3 | |
| | | | | | | | 1 | 2 | 3 | |
| | | | | | | | 1 | 2 | 3 | |
| | | | | | | | 1 | 2 | 3 | |

| | | | | | | |
|--------------------------------|---|---------------------------------|--|--------------------|---|----------|
| Sex: 1 – Male 2 – Female | Status: 0 – Household member 1 – Non-household member | Type: 1 – Paid 2 – Unpaid | Benefits Received: 1 – Free or subsidized housing 2 – Free meals | 3 – Other benefits | Other Paid Job: 1 – Full time 2 – Part time | 3 – None |
|--------------------------------|---|---------------------------------|--|--------------------|---|----------|

Section PF3 – Boats and Other Equipment Used (during the last twelve months)

(1) Did you use boats in your household's pearl farm operation during the last 12 months? (Circle "1" for Yes or "2" for No and enter the answer in the box provided.)

1 Yes

2 No → Go to the Question (3)

(2) Using the boats, how many trips per week did your household do in the pearl farm? (Enter the number in the boxes provided.)

(3) Did you use equipment and facilities in your household's pearl farm operation? (Circle "1" for Yes or "2" for No and enter the answer in the boxes provided.)

1 Yes → Ask the details below

2 No → Go to the Section PF4

(4) Details of Equipment and Facilities Used During the Last Twelve Months

| Type of Equipment and Facilities Used | Code | Total Number Used | Number Owned (In operational condition) | Hired? 1 – Yes 2 – No | Borrowed? 1 – Yes 2 – No |
|---------------------------------------|------|-------------------|---|-----------------------|--------------------------|
| (1) | (2) | (3) | (4) | (5) | (6) |
| Scuba tanks | 01 | | | | |
| Scuba compressor | 02 | | | | |
| Hooka dive compressor | 03 | | | | |
| Regulator | 04 | | | | |
| Set of snorkeling gear | 05 | | | | |
| Generator | 06 | | | | |
| Electric drill | 07 | | | | |
| Vehicles | 08 | | | | |
| Motorized boats | 09 | | | | |
| Seeding houses/platforms | 10 | | | | |
| Other Equipment/Facilities | 11 | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Section PF4 – Other Relevant Information

(1) Of the total farm shells, how many shells would you like to have seeded in the ff:

a) 3 years from now? (Enter the answer in the boxes provided.)

b) 5 years from now? (Enter the answer in the boxes provided.)

(2) What was the proportion of your household's total income (in cash or in kind) usually derived from pearl farming during the last twelve months? (Note that "in kind" means the oysters taken from the farm and consumed by the households for the last twelve months or may be, the wages received by any members employed in the pearl farm or other household's pearl farm. Circle one code and enter in the box provided.)

1 About ¼

3 About ½

5 All

2 About 1/3

4 About ¾

6 None

(3) Did you avail any loan for your household's pearl farm in the last five years? (Circle "1" for Yes or "2" for No. Then enter the code in the box provided?)

1 Yes

2 No → End Interview

(4) What was your main source of loan that you use for your household's pearl farm in the last five years? (Circle the code for the answer and enter it in the box provided.)

2 Development Bank

2 Other Sources

9 Not Stated