

Ministry of Agriculture and Irrigation  
SETTLEMENT AND LAND RECORDS DEPARTMENT  
MYANMAR CENSUS OF AGRICULTURE  
2003  
LISTING OF HOUSEHOLDS

### Geographic Identification:

State/ Division

District:

Township:

Village Tract/Ward.

Village/Block:

## Listing Particulars

Name of Enumerators:

Date Started ..... Date Finished .....

Name of Supervisor:

Signature of Supervisor:

[illegible]

FORM 2003MAC-2

Union of Myanmar  
Ministry of Agriculture and Irrigation  
Settlement and Land Records Department  
**MYANMAR CENSUS OF AGRICULTURE 2003**  
**AGRICULTURAL HOLDING QUESTIONNAIRE**

**Geographic Location**

1. State/Division
2. District
3. Township
4. Village tract/Ward
5. Village/Block
6. Household Serial Number
7. Holding Control Number


**A-1 Identification of the Holding**

- 1 Name of Holder .....
- 2 Name of Household Head.....
- 3 Name of Respondent.....
- 4 Relationship to Holder.....
- 5 Name of Manager (For Judicial Holder).....
- Address.....

**A-2 Legal Status of Holder**

- 1 Private (Household)
- 2 Cooperate with other Household
- 3 Company/Organization]
- 4 Cooperative
- 5 Government
- 6 Others, specify.....

	1
	2
	3
	4
	5
	6

**A-3 General Characteristics of the Holders Household**

List all members of the household starting with the household head, spouse, unmarried children from the eldest to the youngest, married children and their family, relatives of spouse, other relatives and other unrelated persons who are members of the household. Enter or encircle the codes in the appropriate columns.

Line No	name of Household Members	Relationship to Head CODE	AGE	Sex		5 years & over	Marital status (Code)	Did work at any time from April 1, 2002 to March 31, 2003?				If Yes in column 11, what is the members' activity status			
				Male				Female		Yes	No	(9)			
				M	F			Grade (Code)	1			2	3	4	
(1)	(2)	(3)	(4)	1	2	(6)	(7)	1	2	1	2	3	4		
1		Head 1		1	2			1	2	1	2	3	4		
2				1	2			1	2	1	2	3	4		
3				1	2			1	2	1	2	3	4		
4				1	2			1	2	1	2	3	4		
5				1	2			1	2	1	2	3	4		
6				1	2			1	2	1	2	3	4		
7				1	2			1	2	1	2	3	4		
8				1	2			1	2	1	2	3	4		
9				1	2			1	2	1	2	3	4		
10				1	2			1	2	1	2	3	4		
11				1	2			1	2	1	2	3	4		
12				1	2			1	2	1	2	3	4		
13				1	2			1	2	1	2	3	4		
14				1	2			1	2	1	2	3	4		
15				1	2			1	2	1	2	3	4		

**Relationship to Head**

- 1 Head
- 2 Spouse
- 3 Son/Daughter
- 4 Son/Daughter\_in\_Law
- 5 Grandchildren
- 6 Parent/parent-in-law
- 7 Other relatives
- 8 Others

**Education Codes**

- 0 Never attended school
- 1 Kindergarten/ Religious
- 2 Grade 1-4 (Primary level)
- 3 Grade 5-8 (Middle level)
- 4 Grade 9-10 (High School)
- 5 Grade 10 graduate
- 6 Collage undergraduate
- 7 Collage graduate/Diploma

**Marital Status**

- 1 Never married/ Single
- 2 Married
- 3 Widowed
- 4 Divorced/ sperated
- 5 Others, specify

**Activity Status**

- 1 Worked on own agricultural holding
- 2 Worked on other agricultural holding
- 3 Engaged in fishing/ fish culture(aquature)
- 4 Work in non-agricultural industry

Goto Page 2

List all parcels that comprise this holding and indicate the location, area in acres and the land use classification of the parcel. Report area in two decimal places.

Total areas of Holding:\_\_\_\_\_

[illegible]

Specify the Permanent trees found under in the holding and indicate whether compact plantation like orchard or scattered in the different parcels comprising the holding.  
Enter the number of Productive trees only in the Column(5) and (6). Non-productive trees are excluded(too young or too old to bear fruits).

[illegible]

Refer to Coding Sheet for codes of other crops

For each parcel, indicate all annual crops planted by cropping season to show the intensity of land use.

[illegible]

### 3. Mix-Crop

**Continues to Page-2**

## FORM 2003MAC-2

## A-7 LIVESTOCK AND POULTRY

## A-7.1. Current Stock and Disposals in the last 12 months

Which of the following animals and fowls are kept in the holding at the time of visit? Indicate the number under each category. If livestock and poultry raising is mainly for SALE, accomplish Form 2003 MAC-3 Commercial Livestock and Poultry Questionnaire

Kind of Livestock	Presence		Total	No. of Animals						* Annual Disposal
	Y	N		Under 1 Year old		1 to < 3 yrs old		3 yrs & over		
				M	F	M	F	M	F	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. Draught Cattle	1	2								
2. Dairy cattle	1	2								
3. Draught Buffalo	1	2								
4. Dairy Buffaloes	1	2								
5. Horses	1	2								
6. Mules	1	2								
7. Donkeys	1	2								
8. Elephant	1	2								
Small Livestock			Total	under 2 months	2 to < 6 Months		6 months & over			
9. Sheep	1	2								
10. Goat	1	2								
11. Pigs	1	2								
Poultry			Total	* Annual Disposal						
12. Chickens	1	2								* Report only those that were consumed by the household and sold for consumption. Exclude those sold as draught animals.
13. Ducks	1	2								
14. Quails	1	2								
15. Other poultry	1	2								

\* Report only those that were consumed by the household and sold for consumption. Exclude those sold as draught animals.

## A-7.2 Sale of Livestock, Dairy and Poultry Products:

Is this holding engaged in the sale of the following animals/ poultry products ? ( Encircle appropriate response)

Name of Product	Sell ?		If yes, how often ?				Volume/ Quantity	Unit of Measure	Remarks
	Yes	No	Daily	Weekly	Monthly	Seldom			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. Milk	1	2	1	2	3	4		Viss	
2. Chicken eggs	1	2	1	2	3	4		Nos	
3. Ducks eggs	1	2	1	2	3	4		Nos	
4. Quail eggs	1	2	1	2	3	4		Nos	
5. Others	1	2	1	2	3	4			

## A-8 AGRICULTURAL BUILDINGS, TOOLS, MACHINERY AND EQUIPMENT

## A-8.1 Agricultural Buildings

Indicate below if there are agricultural buildings in the holding and estimate the area in sq.ft. Inquire if occupied at the time of visit.

Type of Building (Non-residential)	Presence		Area (Sq.ft)	Occupied ?	
	Y	N		Y	N
(1)	(2)	(3)	(4)	(5)	(6)
1. Livestock ( Animals) Shed	1	2		1	2
2. Storage shed	2	3		1	2
3. Poultry house	3	4		1	2
4. Other, specify	4	5		1	2

## A - 8.2 Tools, Farm Machinery and Equipment

Which of the following farm machinery and equipment were used on the holding during the reference year? Specify the number and ownership of the farm machinery, tools/equipment and transport.

Specify the number and ownership of the farm machinery, tools/equipment and transport.																	
Tools/ Equipment	Used		Owned Quantity	Hired		Tools/ Equipment	Used		Owned Quantity	Hired		Tools/ Equipment	Used		Owned Quantity	Hired	
	Y	N		Govt.	Others		Y	N		Govt.	Others		Y	N		Govt.	Others
(1)	(2)	(3)	(4)	(5)	(1)	(2)	(3)	(4)	(5)	(1)	(2)	(3)	(4)	(5)			
1. Plough	1	2			8. Rake	1	2			15. Huller	1	2					
2. Rotary Harrow	1	2			9. Roller	1	2			16. Tractor	1	2					
3. Other Harrow	1	2			10. Sprayer	1	2			17. Bullock cart	1	2					
4. Intercultivator	1	2			11. Harvester	1	2			18. Trolley	1	2					
5. Hoe	1	2			12. Thresher	1	2			19. Motor Boat	1	2					
6. Sickle	1	2			13. Water Pump	1	2			20. Motor Cycle	1	2					
7. Fork	1	2			14. Power Tiller	1	2			21. Bicycle	1	2					

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# 9 EMPLOYMENT, FARM PRACTICES AND OTHER INFORMATION ON THE HOLDING

## A - 9.1 Hired Labour (Includes exchanged labour)

Did this Holding hire outside labor in the operation of the holding at any time during the reference year?

- 1 Y → goto A-9.2  
2 N → goto A-9.3

A - 9.2 If Yes indicate the total number of hired employees/labors by sex and type of employment

Sex	Type of employment				
	Total	Full-time	Part-time	Seasonal	Occasional
(1)	(2)	(3)	(4)	(5)	(6)
Male					
Female					
Total					

## A.9-3 Purpose of Production

Encircle below the main purpose of production.

- Mainly for home consumption 1  
Mainly for sale 2

(Mainly means more than half of production of the holding)

## A.9-4 Main source of income of the Household

(Encircle the code of income of the household)

- 1 Agricultural holding  
2 Non-agricultural family-operated business/enterprise, except fishing  
3 Wage/salary from agricultural sector  
4 wage/salary from non-agricultural sector, except fishing  
5 Fishing on or off farm/aquaculture  
6 Others, specify

## A.9-5 Improved Farm Practices

Encircle which farming practices are normally carried out of the holding:

Farm Practices	Utilization		Area in Acres
	Y	N	
(1)	(2)	(3)	
1. Irrigation from own well?	1	2	
2. Irrigation direct from creek	1	2	
3. Irrigation from private Dam/canal	1	2	
4. Irrigation water from Government	1	2	
5. Pesticide	1	2	
6. Organic fertilizer	1	2	
7. Inorganic or chemical fertilizer	1	2	
8. Seeds of High yielding Variety (HYV)	1	2	
9. Contour farming?	1	2	
10. Weeding of crops fields?	1	2	
11. Building of dike to preserve water/prevent flood	1	2	

A.9-6 Environmental Problems Encountered during the reference in Year, April 1 2002 to March 31, 2003.

Problems	Presence		Name of Crop Affected			When occurred (Cropping season)
	Y	N	Name	Code	Acres	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. Pest infestation	1	2				1 2 3
2. Disease infestation	1	2				1 2 3
3. Incidence of flooding	1	2				1 2 3
4. Flood recurring every year?	1	2				1 2 3
5. Experienced dry spell?	1	2				1 2 3
6. Other, specify	1	2				1 2 3

cropping season- 1. 2002APR-JUL, 2. AUG-2002-NOV, 3. DEC-2003MAR

## A - 9.7 Farm Activity and Time Spent working on the Holding

Write the Line No. (LN) and the name of the household member who responded "YES" (Code 1) in Col. 8 and with a response of "Code 1" in column 9 or "No" in column 10 into lines 1 and 2 in the columns heading below (Col. 3-10) as there are members. Then ask the activities what they do on the holding during the reference period.

Activity on the Holding and Time spent on the holding	Enter Line No. (LN) first name of household member on 1st and 2nd line. Under each member encircle code 1 for yes if engaged in the activity on the holding. Otherwise encircle 2 for No.															
	LN		LN		LN		LN		LN		LN		LN		LN	
(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)								
Activity	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N	Y	N
Land Preparation	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Planting/transplanting	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Care of Crops*	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Harvesting/picking/drying	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Care of animals/poultry	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Processing/packaging	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Threshing	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Selling produce	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Prepare & serve meals to non-	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
0 Fishing on the holding	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1 Other, Specify	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
Time Spent Working on the holding (Encircle appropriate code)																
1 Full Time worked every day at least half day	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
2 Part Time worked every day but few hours only	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
3 Seasonal worked only on Certain operations	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
4 Occasional worked Only when needed	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2

END

UNION OF MYANMAR  
Ministry of Agriculture and Irrigation  
SETTLEMENT AND LAND RECORDS DEPARTMENT

MYANMAR CENSUS OF AGRICULTURE 2003  
AQUACULTURE HOLDING QUESTIONNAIRE

Sheet 1 of 1 Sheet

Enumeration Particulars:

Name of Enumerator:.....

Date Enumerated:.....

Name of Supervisor:.....

Signature of Supervisor:.....

INSTRUCTION: This questionnaire shall be accomplished only if there is an operator of aquaculture holding as screened in FORM 2003MAC-5 LISTING OF HOUSEHOLDS or if the holding is found on the list of Special Holding.

D.1 IDENTIFICATION OF THE HOLDING

1. State/Division.....
2. District.....
3. Township.....
4. Village Tract/Ward .....
5. Village/Block.....
6. Household Serial Number (HSN).....
7. Holding Control Number (HCN).....


8. Name of Aquaculture Operator:.....
9. Relationship to Head:..... Code:.....
10. Sex of Operator: (Encircle code) 1 Male 2 Female
11. Name of Manager, if juridical holder:.....

Address:.....

D.1.1 Is this aquaculture activity part of an agricultural holding? 1 Yes 2 No

1. If Yes, what is the Holding Control Number (HCN) ? .....

2. If No, is this aquaculture activity operated independently by a member of the household? 1 Yes 2 No

D.2 AQUACULTURE ACTIVITIES

D.2.1 Production Facility:

Production Facility Type	Unit s	Total Area of production Units	Type of water used 1 Fresh 2 Brackish 3 Seawater	Principal species cultured (Enter code)	Stocked with fingerlings? 1 Yes 2 No	Fed? 1 Yes 2 No	Is any sold? 1 Yes 2 No	Location of Production Facility (Township, village)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Hatchery/Nursery	sq ft				1 2	1 2	1 2	
2					1 2	1 2	1 2	
3					1 2	1 2	1 2	
4					1 2	1 2	1 2	

Other production facilities reported in sq. ft. are: pond, pen, cage, cement tank. Paddy field is in acres.

C.2.2 Machinery/Equipment used: Encircle code

Machinery/Equipment	Yes	No
1. Generator	1	2
2. Water Pump	1	2
3. Aerator	1	2
4. Feed Mixer/Mill/Extruder	1	2
5. Vehicle/tractor used mainly for aquaculture	1	2

Code for column 5 (Principal species Cultured:

1 Catfish	9 Frog
2 Snakehead	10 Turtle/turtle
3 Common Carp	11 Sea Bass
4 Tilapia	12 Crab
5 Indian/Chinese Carp	13 Aquatic plants
6 Shrimp	14 Eel
7 Prawn	15 Other, specify
8 Silver Barb	

D.3 AGRICULTURAL CROPS AROUND THE AQUACULTURE HOLDING

Instruction: This section shall be accomplished only if the aquaculture holding is not operated by a household who has an agricultural holding (which includes Commercial Livestock/Poultry Holding). Refer to D.1.1 above. Only households that responded No (Code 2) are to be asked the following questions.

1. Are there some crops planted within the aquaculture holding? 1 Yes, go to Item 2 below.

2 No → End of interview.

2. List down below the crops found on the holding. List first annual crops then permanent crops. (Refer to coding sheet for the codes of annual and permanent crops)

Name of Crop	Crop Code	Area Planted	No. of Productive Trees	Name of Crops	Crop Code	Area Planted	No. of Productive Trees
(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)



UNION OF MYANMAR  
Ministry of Agriculture and Irrigation  
SETTLEMENT AND LAND RECORDS DEPARTMENT

MYANMAR CENSUS OF AGRICULTURE 2003  
COMMERCIAL LIVESTOCK and POULTRY QUESTIONNAIRE  
(Mainly for Sale)

## Enumeration Particulars:

Name of Enumerator:.....

Date enumerated:.....

Name of Supervisor:.....

Signature of Supervisor: .....

## INSTRUCTION:

This questionnaire shall be accomplished if in FORM 2003MAC-1 LIST OF HOUSEHOLDS an operator of a commercial livestock/poultry holding was listed or a household agricultural holding whose livestock and poultry production is mainly for sale.

## B.1 IDENTIFICATION OF THE HOLDING

1. State/Division.....

2. District.....

3. Township.....

4. Village Tract/Ward .....

5. Village/Block .....

6. Household Serial Number (HSN).....

7. Holding Control Number (HCN).....


8. Name of Operator.....

9. Relationship to Head.....

10. Sex of Operator: (Encircle code) 1 M 2 F

11. For juridical holder, Name of Manager: .....

12. Address.....

## Encircle code of response.

13. Is this commercial livestock/poultry holding part of the agricultural household holding? 1 Yes, Go to 13.1  
2 No, Go to 13.2

13.1 If Yes, is the operator of this activity (livestock and poultry) the same as the holder of the agricultural holding? 1 Yes 2 No

13.2 If No, is this independently managed from any agricultural holding? 1 Yes, Go to ..... 2 No

## B.2 LIVESTOCK AND POULTRY

## B.2.1 Livestock:

Which of the following animals and fowls are kept in the holding at the time of visit? Indicate the number under each category.

Kind Livestock (1)	Presence		Breed* Enter Code (4)	Number of Animals								Annual Disposal (12)
	Yes (2)	No (3)		Total (5)	< 1 year old		1 to <3 yrs		3 yrs & over			
					Male (6)	Female (7)	Male (8)	Female (9)	Male (10)	Female (11)		
1. Draught Cattle	1	2										
2. Dairy cattle	1	2										
3. Draught Buffaloes	1	2										
4. Dairy Buffaloes	1	2										
5. Horses	1	2										
6. Mules	1	2										
7. Donkeys	1	2										
8. Other, specify	1	2										
Small Livestock			Total		< 2 months		2 to < 6 mos.		6 mos. & over		Annual Disposal	
9. Sheep	1	2										
10. Goat	1	2										
11. Pigs	1	2										
12. Others.....	1	2										

\*Breeds of Cattle:

Code

- 1 Friesian hybrid  
2 Jersey hybrid  
3 Red Sindhi hybrid

Code

- 4 Thari (local breed)  
5 Shweni (local breed)  
6 Pya Seini (local breed)

\*Breed for Buffalo:

Code

- 1 Swamp buffalo  
2 Murrah buffalo

(Instruction: The layers, broilers and semi-broiler have different ages for the same stage of growth. Be sure to refer to the number of weeks by type of chicken, specifically L for layers, B for broilers and S for semi-broiler for the different columns.)

Kind of Poultry	Presence		Number of fowls/birds			
	Yes	No	Starter L 0-6 wks B 0-2 wks S 0-4 wks	Grower L 7-18 wks B 2-5 wks S 4-8 wks	Pullets-18-24wks Finisher: B 5-7 wks S 8-12 wks	Layers 24-65 Weeks
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Chicken:	1	2				
a. Layers (L)	1	2				
b. Broilers (B)	1	2				
c. Semi-broiler (S)	1	2				
Ducks	1	2				
Quails	1	2				
Pigeon	1	2				
Other poultry	1	2				

Is this holding engaged in the sale of the following dairy/poultry products? (Encircle appropriate response)

Name of Product	Sell?		If yes, how often?				Volume/ Quantity	Unit of Measure	Remarks
	Yes	No	Daily	Weekly	Every 2 Months	Seldom			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Milk	1	2	1	2	3	4		Viss	
Chicken eggs	1	2	1	2	3	4		Pieces	
Ducks eggs	1	2	1	2	3	4		Pieces	
Quail eggs	1	2	1	2	3	4		Pieces	
Chicken	1	2	1	2	3	4		Bird	
Quails	1	2	1	2	3	4		Bird	
Other	1	2	1	2	3	4			

1. Are there some crops planted within the Livestock and Poultry Holding? 1- Yes, Go to Item 2 below.  
2- No → End of interview

2. List down below the crops found on the holding. List first all annual crops then permanent crops. (Refer to coding sheet for the codes of annual and permanent crops.)

[illegible]



UNION OF MYANMAR  
Ministry of Agriculture and Irrigation  
SETTLEMENT AND LAND RECORDS DEPARTMENT

MYANMAR CENSUS OF AGRICULTURE 2003  
HOUSEHOLD FISHING QUESTIONNAIRE

## Geographic Identification:

District.....

Township.....

Village tract/Ward.....

Village/Block.....

Household Serial Number (HSN).....

Holding Control Number (HCN).....


INSTRUCTION: Accomplish this questionnaire only if there is a member of the household who fished or collected fish/aquatic plants/animals, as listed in FORM 2003 MAC-1 LISTING OF HOUSEHOLDS engaged in fishing on-farm or off-farm. It is possible that C.1 and C.2 may be answered positively by two or members of the households. Consolidate their responses in the table in C.4. If a member of the household operates a fish pond or engages in fish culture, Form 2003-MAC-5 should be accomplished.

- C.1 Did any member of the household engage in fishing on the agricultural holding? 1 Yes, Go to C.4  
2 No, Go to C.2.
- C.2 Did any member of the household with agricultural holding engage in fishing off-farm? 1 Yes, Go to C.4  
2 No, Go to C.3
- C.3 Did any member of the households without agricultural holding engage in fishing off-farm? 1 Yes, Go to C.4  
2 No → END

C.4 If Yes in any of the above questions, accomplish the table below.

Fishing Location	Code	Who among household members fish/collect fish or aquatic plants?				Type of Gears Used (Enter Code)	Main Purpose of Production 1 for Sale 2 for Home consumption (Enter code)
		Member 10 years old and over		Member under 10 years old			
		Male	Female	Male	Female		
(1)	(2)	(4)	(5)	(4)	(5)	(6)	(7)
Paddy fields	1						
Rivers	2						
Canal/stream	3						
Lake/Pond	4						
Mangrove creek	5						
Sea/close to shore	6						
Others, specify	7						

## Codes for Column 6

## Fishing Gears:

- 1 Hand/No gears
- 2 Cast net
- 3 Rod
- 4 Small trap
- 5 Lift net/push net
- 6 Gill net
- 7 Large fixed trap
- 8 Others, specify

Is a boat used for fishing? 1 Yes → How many? Number: Powered \_\_\_\_\_ Not Powered \_\_\_\_\_  
2 No → END