

MYANMAR - Agricultural Census 2003 - Main Results

Number and area of holdings

	Number of holdings	Total area (ha)
Total	3 464 769	8 721 115

Number and area of holdings by size of total area of holdings

Size classes	Number of holdings	Total area (ha)
Total number of holdings	3 464 769	8 721 115
Holdings with land	3 453 850	8 721 115
Holdings without land	10 919	—
Less than 0.4 ha	513 221	62 767
0.4 and under 1.2 ha	799 292	601 695
1.2 and under 2.0 ha	648 637	995 200
2.0 and under 4.0 ha	819 160	2 292 655
4.0 and under 8.1 ha	509 875	2 780 771
8.1 and under 20.2 ha	157 188	1 775 512
20.2 ha and over	6 477	212 515

Fragmentation of holdings

	Number of holdings	
Total holdings with parcels	3 453 850	—
Holdings with:		
1 parcel	653 150	—
2 to 3 parcels	2 611 172	—
4 to 5 parcels	166 256	—
6 to 9 parcels	23 094	—
10 parcels and over	178	—

Legal status (*)

	Number of holdings	
Total number of household holdings	3 453 850	—
Holdings operated by:		
One household	3 443 985	—
More than one household	9 865	—
Institutional holdings	10 919	—

(*) Institutional holdings were excluded from the census and enumerated with special holdings separately.

Holders by sex and age

	Number of holders	
Total	3 464 769	—
Male	2 945 101	—
Under 25 years of age	68 915	—
25 to 34	501 551	—
35 to 44	907 091	—
45 to 54	822 272	—
55 to 64	426 156	—
65 year and over	219 116	—
Female	519 668	—
Under 25 years of age	19 020	—
25 to 34	68 960	—
35 to 44	115 938	—
45 to 54	147 014	—
55 to 64	103 362	—
65 year and over	65 374	—

Holder's household members by sex and age		
		Number of persons
Total		17 464 398
Male		8 538 239
Under 15 years of age		2 285 740
15 to 24		1 904 492
25 to 64		3 922 101
65 and over		425906
Female		8 926 159
Under 15 years of age		2 344 444
15 to 24		1 903 118
25 to 64		4 202 937
65 and over		475 660

Employment		
		Number of holdings
Hired labour		
Total number of holdings		3 464 769
Of which:		
Reporting hired labour		2 251 892

Land use			
		Number of holdings	Total area (Ha)
Total land		3 453 850	8 721 115
Cropland		—	8 518 656
Arable land		3 034 218	8 029 644
Land under temporary crops		2 978 104	7 965 232
Land temporarily fallow		77 655	64 412
Land under permanent crops		689 411	489 012
All other land		3 130 933	202 459
Total area irrigated		—	1 460 415

Irrigation facilities			
Holdings irrigated by:		Holdings reporting	Area irrigated (Ha)
Private wells		113 636	79 800
River/Creek		301 747	575 447
Private dam/canal		83 667	138 510
Government dam/canal		263 035	666 658

Temporary crops (<i>All cropping seasons</i>) (*)		
		Area sown (ha)
Blackgram	—	674 126
Chick peas	—	184 403
Greengram	—	533 441
Groundnuts	—	472 870
Maize (for seed)	—	185 126
Pigeon peas	—	384 006
Rice	—	5 513 597
Sesame	—	1 432 411
Sugarcane	—	108 934
Sunflower	—	146 296

(*) Excluding area of Special Holdings

Permanent crops			
			Area in compact plantation (ha)
	Bananas	—	26 398
	Betel nut	—	39 831
	Cashew nuts	—	80 183
	Coconuts	—	32 900
	Danyin	—	9 029
	Dhani	—	18 581
	Mangoes	—	20 771
	Oranges	—	8 273
	Rubber	—	75 691
	Tea	—	40 646

Livestock			
			Number of head
	Large livestock (Cattle and Buffaloes both draught and dairy, Horses, Mules, Asses)	—	7 513 305
	Small livestock (Sheep, Goats, Pigs)	—	2 383 520
	Poultry (Chickens, Ducks, Quails, Peak-geese)	—	25 687 023

Fishing activities on farm			
		Holdings reporting	
	Fishing activities	97 667	—

Aquaculture activities on farm			
		Holdings reporting	
	Aquaculture activities	4 917	—

Machinery		
Holdings reporting use of:	Number of holdings	Number of units
Intercultivators, total	397 643	487 866
Owned by the holder	—	404 449
Owned by Government	—	3 958
Owned by others	—	79 459
Sprayers	890 184	—
Tractors	137 267	155 831
Owned by the holder	—	36 747
Owned by Government	—	12 690
Owned by others	—	106 394
Harvesters	22 490	—
Threshers/Straw cutters	268 825	—
Water pumps	330 657	356 333
Owned by the holder	—	201 434
Owned by Government	—	4 213
Owned by others	—	150 686
Power tillers	308 552	327 384
Owned by the holder	—	104 222
Owned by Government	—	3 936
Owned by others	—	219 226
Hullers	1 606 613	1 737 040
Owned by the holder	—	76 429
Owned by Government	—	5 262
Owned by others	—	1 655 349

Fertilizers / Pesticides		
	Holdings reporting use	
Organic Fertilizers	1 848 773	—
Inorganic Fertilizers	1 635 800	—
Pesticides	883 341	—
Weeding of field crops	464 658	—

MYANMAR – Agricultural Census 2003 - Explanatory Notes

Historical outline:

The Union of Myanmar participated in the World Census of Agriculture in 1953-54 (*under the former country-name of "The Union of Burma"*), but the coverage of that census was limited to 200 village tracts in the neighbourhood of 252 towns. A nationwide Sample Census of Agriculture was conducted in 1993. The last Census of Agriculture (MAC 2003), to which data here presented refer, was conducted in Myanmar in 2003.

Organization:

The census operation was led by the Settlement and Land Records Department (SLRD) of the Ministry of Agriculture and Irrigation (MOAI). A National Census Steering Committee (NCSC), having representations from stakeholder Departments was constituted to oversee the preparatory phase of the census. A Technical Census Committee (TCC) met regularly to discuss the progress and to decide on technical issues. FAO experts and consultants provided technical assistance under a project. A total of 6,428 enumerators were involved in field operations.

Enumeration period:

Listing of all holdings: 16 March to 15 August 2003
Census enumeration: 1 October to 15 November 2003.

Reference date:

Data refer either to the agricultural year 2002-03 (1 April 2002 to 31 March 2003) or to the enumeration day, depending on the nature of data items.

Scope:

The census was carried out with an extended scope to cover fishing, aquaculture and commercial livestock activities, though the data on these special holdings was kept technically separate from those on agricultural holding.

Definitions:

An agricultural holding is the economic unit of agricultural production under single management, comprising all livestock kept and all land used wholly or partly for agricultural production purposes, regardless to title, legal form or size. For the purpose of agricultural census, an agricultural holding should be engaged in raising of crops in at least 0.10 acres (about 400 square meters) of land or raising at least 2 head of large livestock or 4 head of small livestock or a combination of the two, or at least 30 head of chickens or ducks, regardless of the area of land. The homelot of the holder, regardless of its location, and the activities performed therein were considered part of the holding. In addition to an agricultural holding, a household could operate **special holding(s)** which included:

Household Fishing holding: a household whose member(s) engaged in fishing during the census reference year.

Household Aquaculture holding: a household engaged in culture of fish, other aquatic animals or plants and owning a fishpond or any kind of aquaculture production facility during the reference year.

Commercial livestock and poultry holding: a holding operated by either a household or an establishment whose livestock and poultry products are mainly for sale.

Coverage:

Geographically, the MCA 2003 covered the entire country comprising 9 States and 8 Divisions. However, out of 324 townships only 283 townships were covered. Some townships were covered only to the extent of coverage of specialized holdings. Excluded areas were either highly urbanized or were facing security problem.

Frame:

A complete listing of holdings in all townships of the country, except highly urbanized area, was carried out by the SLRD field personnel. The list of holdings thus prepared was supplemented by lists of aquaculture installations and commercial livestock and poultry holdings, provided by the Department of Livestock and Veterinary, and the Department of Fisheries.

Methods:

Sketched village maps which indicated relative location of household, holdings and names of heads of households, prepared in 2002 by the SLRD surveyors served as the basis for planning of field operations. A pilot census was conducted by the SLRD in December 2002. Training was targeted at different level of census functionaries and covered census enumeration, procedures for manual data editing, and post-enumeration survey. Complete enumeration of all holdings was carried out during the census. The questionnaire for listing of household contained questions to identify agricultural holdings

and special holdings. For main census enumeration, separate questionnaires were used for agricultural holdings and operations relating to Commercial Livestock and Poultry, Household Fishing and Aquaculture. Agricultural Census Data Processing System (ACDDP) was developed using Visual Basic programming and CsPro 2.4 software. The system had the capability to monitor arrival of the questionnaires, check completeness of enumeration, data editing, generating output tables and editing them. Data processing was handled in five zonal centres. To satisfy the urgent needs of data, an advance tabulation based on 20% sample village tracts (674,331 questionnaires) was done to publish an advance report.

Data source:

Advance Report on Myanmar Census of Agriculture 2003, Settlement and Land Records Department, Ministry of Agriculture and Irrigation, Government of the Union of Myanmar (September 2005)

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