

TANZANIA - Agricultural Census 2002 - 2003 - Main results

Small Holdings Sector

Number and area of holdings (*rural households involved in agriculture*)

	Number of holdings	Total area (ha)
Total	4 901 837	11 997 071 (*)
Tanzania Mainland	4 805 315	11 885 132
Zanzibar	96 522	111 939

(*) Includes 153 224 ha of "Land rented to others", of which 152 902 ha in Tanzania Mainland and 322 ha in Zanzibar.

Land use

	Number of holdings	Area (ha)
Total land	4 901 837	11 997 071
Agricultural land	—	9 890 638
Land under crops	—	9 521 592
Land under temporary crops	—	6 545 987
Of which: irrigated	—	168 430
Land temporarily fallow	539 989	682 758
Land under permanent crops	—	1 295 050
L. under temp.+ perm. crops	—	997 797
Land under meadows/pastures	197 701	369 046
Wood or forest land	153 749	298 475
All other land	—	1 807 958
Of which:		
Usable land	—	258 503
Usable but uncultivated	1 025 848	1 396 231

Irrigation, area, source, methods

	Holdings reporting	Area irrigated (ha)
Holdings practicing irrigation	385 213	168 430
Source of water:		
River	187 429	—
Lake	6 211	—
Dam	19 039	—
Well	56 864	—
Borehole	3 471	—
Canal	105 844	—
Pipe water	6 355	—
Method of obtaining water:		
Gravity	225 189	—
Hand bucket	148 353	—
Hand pump	3 300	—
Motor pump	3 844	—
Other	4 527	—
Method of irrigation		
Flood	216 124	—
Sprinkler	6 710	—
Water hose	5 443	—
Bucket/watering can	156 936	—

Temporary crops (*)		
Maize		
Number of holdings reporting	4 521 380	
Area planted (ha)	3 465 173	
Of which irrigated	55 856	
Production (MT)	2 617 115	
Paddy Rice		
Number of holdings reporting	911 093	
Area planted (ha)	642 451	
Of which irrigated	51 693	
Production (MT)	604 977	
Sorghum		
Number of holdings reporting	701 803	
Area planted (ha)	450 170	
Of which irrigated	2 147	
Production (MT)	216 435	
Bulrush Millet		
Number of holdings reporting	161 805	
Area planted (ha)	124 522	
Of which irrigated	575	
Production (MT)	39 364	
Finger millet		
Number of holdings reporting	183 156	
Area planted (ha)	83 485	
Of which irrigated	66	
Production (MT)	55 314	
Wheat		
Number of holdings reporting	65 298	
Area planted (ha)	31 224	
Of which irrigated	—	
Production (MT)	23 521	
Barley		
Number of holdings reporting	1 903	
Area planted (ha)	1 046	
Of which irrigated	—	
Production (MT)	1 165	
Cassava		
Number of holdings reporting	462 791	
Area planted (ha)	865 834	
Of which irrigated	29 091	
Production (MT)	2 102 838	
Sweet potatoes		
Number of holdings reporting	577 110	
Area planted (ha)	140 698	
Of which irrigated	1 320	
Production (MT)	216 478	
Irish potatoes		
Number of holdings reporting	151 225	
Area planted (ha)	51 290	
Of which irrigated	3 198	
Production (MT)	144 396	
Yams		
Number of holdings reporting	19 646	
Area planted (ha)	5 156	
Of which irrigated	126	
Production (MT)	7 623	
Cocoyam		
Number of holdings reporting	40 860	
Area planted (ha)	8 110	
Of which irrigated	134	
Production (MT)	12 857	
Beans		
Number of holdings reporting	2 092 658	
Area planted (ha)	745 941	
Of which irrigated	18 391	
Production (MT)	333 312	
Chick peas		
Number of holdings reporting	43 608	
Area planted (ha)	63 027	
Of which irrigated	93	
Production (MT)	29 885	

(continued)

(*) Data on holdings refer to Tanzania Mainland only.

Temporary crops (*) (cont'd)			
Cow peas			
Number of holdings reporting		280 589	—
Area planted (ha)		76 645	—
Of which irrigated		—	—
Production (MT)		17 672	—
Bambarra nuts			
Number of holdings reporting		111 033	—
Area planted (ha)		24 779	—
Of which irrigated		206	—
Production (MT)		9 773	—
Field peas			
Number of holdings reporting		36 695	—
Area planted (ha)		10 720	—
Of which irrigated		630	—
Production (MT)		8 497	—
Green Gram			
Number of holdings reporting		65 929	—
Area planted (ha)		19 461	—
Of which irrigated		41	—
Production (MT)		5 008	—
Mung beans			
Number of holdings reporting		2 312	—
Area planted (ha)		1 054	—
Of which irrigated		85	—
Production (MT)		835	—
Groundnuts			
Number of holdings reporting		873 472	—
Area planted (ha)		349 042	—
Of which irrigated		1 311	—
Production (MT)		160 257	—
Sunflower			
Number of holdings reporting		205 823	—
Area planted (ha)		115 583	—
Of which irrigated		874	—
Production (MT)		55 070	—
Simsim			
Number of holdings reporting		139 129	—
Area planted (ha)		68 015	—
Of which irrigated		110	—
Production (MT)		23 669	—
Soybeans			
Number of holdings reporting		4 582	—
Area planted (ha)		1 819	—
Of which irrigated		6	—
Production (MT)		634	—
Castor seed			
Number of holdings reporting		1 015	—
Area planted (ha)		251	—
Of which irrigated		13	—
Production (MT)		667	—
Okra			
Number of holdings reporting		1 042	—
Area planted (ha)		1 263	—
Of which irrigated		354	—
Production (MT)		1 774	—
Radish			
Number of holdings reporting		14	—
Area planted (ha)		1 450	—
Of which irrigated		10	—
Production (MT)		1 050	—
Turmeric			
Number of holdings reporting		—	—
Area planted (ha)		53	—
Of which irrigated		—	—
Production (MT)		52	—
Bitter Aubergine			
Number of holdings reporting		1 008	—
Area planted (ha)		727	—
Of which irrigated		134	—
Production (MT)		1 390	—

(continued)

(*) Data on holdings refer to Tanzania Mainland only.

Temporary crops (*) (cont'd)

Garlic			
Number of holdings reporting	132		
Area planted (ha)	27		
Of which irrigated	—		
Production (MT)	—		
Onions			
Number of holdings reporting	39 920		
Area planted (ha)	10 802		
Of which irrigated	6 190		
Production (MT)	36 087		
Ginger			
Number of holdings reporting	2 584		
Area planted (ha)	770		
Of which irrigated	381		
Production (MT)	1 801		
Cabbages			
Number of holdings reporting	49 534		
Area planted (ha)	8 679		
Of which irrigated	5 994		
Production (MT)	41 495		
Tomatoes			
Number of holdings reporting	134 663		
Area planted (ha)	31 913		
Of which irrigated	18 514		
Production (MT)	129 577		
Spinach			
Number of holdings reporting	17 066		
Area planted (ha)	1 947		
Of which irrigated	1 213		
Production (MT)	3 598		
Carrots			
Number of holdings reporting	4 649		
Area planted (ha)	1 428		
Of which irrigated	454		
Production (MT)	4 133		
Chillies			
Number of holdings reporting	—		
Area planted (ha)	2 425		
Of which irrigated	1 608		
Production (MT)	6 433		
Amaranthus			
Number of holdings reporting	32 761		
Area planted (ha)	4 377		
Of which irrigated	2 753		
Production (MT)	9 195		
Pumpkins			
Number of holdings reporting	21 655		
Area planted (ha)	3 223		
Of which irrigated	329		
Production (MT)	5 737		
Cucumber			
Number of holdings reporting	5 518		
Area planted (ha)	1 266		
Of which irrigated	518		
Production (MT)	3 877		
Egg plant			
Number of holdings reporting	5 417		
Area planted (ha)	1 851		
Of which irrigated	514		
Production (MT)	3 057		
Water melons			
Number of holdings reporting	4 728		
Area planted (ha)	1 842		
Of which irrigated	1 304		
Production (MT)	5 390		

(continued)
(*) Data on holdings refer to Tanzania Mainland only.

Temporary crops (*) (cont'd)

Cauliflowers			
Number of holdings reporting		681	—
Area planted (ha)		215	—
Of which irrigated		42	—
Production (MT)		91	—
Seaweed			
Number of holdings reporting		655	—
Area planted (ha)		2 936	—
Of which irrigated		—	—
Production (MT)		5 903	—
Cotton			
Number of holdings reporting		288 366	—
Area planted (ha)		337 058	—
Of which irrigated		2 324	—
Production (MT)		181 073	—
Sugarcane (Tanzania mainland)			
Number of holdings reporting		50 607	—
Area planted (ha)		21 262	—
Area harvested		20 567	—
Production (MT)		404 694	—
Pigeon peas			
Number of holdings reporting		154 499	—
Area planted (ha)		89 274	—
Area harvested		69 454	—
Production (MT)		26 615	—
Tobacco			
Number of holdings reporting		72 598	—
Area planted (ha)		57 438	—
Of which irrigated		2 106	—
Production (MT)		49 300	—
Pyrethrum			
Number of holdings reporting		2 556	—
Area planted (ha)		992	—
Of which irrigated		—	—
Production (MT)		536	—

(*) Data on holdings refer to Tanzania Mainland only.

Permanent crops

Cashew nuts

Tanzania Mainland		
Holdings reporting		269 500
Area planted		414 518
Area harvested (ha)		258 337
Production (MT)		81 845
Zanzibar		
Holdings reporting		28
Area planted		1
Area harvested (ha)		1
Production (MT)		6

Bananas

Tanzania Mainland		
Holdings reporting		672 118
Area planted		306 103
Area harvested (ha)		192 039
Production (MT)		2 205 673
Zanzibar		
Holdings reporting		56 917
Area planted		13 573
Area harvested (ha)		10 703
Production (MT)		43 792

Coffee

Tanzania Mainland		
Holdings reporting		425 162
Area planted		180 649
Area harvested (ha)		136 894
Production (MT)		211 798

Mangoes

Tanzania Mainland		
Holdings reporting		212 231
Area planted		97 442
Area harvested (ha)		31 888
Production (MT)		336 028
Zanzibar		
Holdings reporting		12 819
Area planted		1 734
Area harvested (ha)		1 372
Production (MT)		6 546

Coconut

Tanzania Mainland		
Holdings reporting		94 172
Area planted		61 563
Area harvested (ha)		38 122
Production (MT)		102 458
Zanzibar		
Holdings reporting		22 012
Area planted		6 750
Area harvested (ha)		4 512
Production (MT)		13 938

Oranges

Tanzania Mainland		
Holdings reporting		99 029
Area planted		39 930
Area harvested (ha)		21 707
Production (MT)		186 695
Zanzibar		
Holdings reporting		10 384
Area planted		1 712
Area harvested (ha)		1 355
Production (MT)		8 283

(continued)

Permanent crops (cont'd)
Sisal

Tanzania Mainland

Holdings reporting	1 666	—
Area planted	5 861	—
Area harvested (ha)	130	—
Production (MT)	116	—

Oil palm

Tanzania Mainland

Holdings reporting	44 966	—
Area planted	17 338	—
Area harvested (ha)	15 757	—
Production (MT)	51 109	—

Tea

Tanzania Mainland

Holdings reporting	15 256	—
Area planted	7 340	—
Area harvested (ha)	6 273	—
Production (MT)	31 677	—

Avocados	28 691	13 417
Black pepper	1 630	1 532
Cinnamon	320	168
Cloves	1 176	847
Cocoa	25 400	16 994
Durian	116	12
Grapefruit	1 000	916
Grapes	864	385
Guavas	8 808	10 217
Jack fruit	6 307	14 795
Kapok	164	81
Limes/Lemons	4 260	6 092
Malay apples	389	243
Mandarines/Tangerines	3 090	5 970
Papaya	17 602	14 991
Pineapples	10 157	12 870
Pomelos	135	3 328
Rambutan	272	33
Rubber	613	298
Soursop	622	1 354
Star fruit	6 307	967
Tamarind	162	83
Wattle	9 419	993

Livestock

	Holdings reporting	Number of head/units
Cattle		
Holdings reporting cattle, total	1 272 375	16 999 793
1 to 5 head	630 121	—
6 - 10	265 218	—
11 - 20	204 637	—
20 - 30	71 801	—
31 - 40	31 010	—
41 - 50	18 346	—
51 - 100	35 407	—
101 - 150	6 405	—
151 and over	9 430	—
Calves		
Male	—	1 699 485
Female	—	2 047 617
Steers	—	2 499 585
Heifers	—	2 996 525
Bulls	—	1 835 800
Cows	—	5 920 781
Sheep		
Holdings reporting sheep, total	496 022	4 017 608
1 to 4 head	269 665	—
5 - 9	132 063	—
10 - 19	62 944	—
20 - 29	14 548	—
30 - 39	5 335	—
40 and over	11 467	—
Lambs, total	—	1 004 711
Male	—	489 362
Female	—	515 349
Rams	—	602 938
She sheep	—	448 269
Castrated sheep	—	1 961 690
Goats		
Holdings reporting goats, total	1 376 181	11 808 851
1 to 4 head	601 871	—
5 - 9	420 585	—
10 - 19	235 364	—
20 - 29	67 731	—
30 - 39	23 024	—
40 and over	27 606	—
Kids, total	—	3 178 624
Male	—	1 500 561
Female	—	1 678 063
Billy goats	—	1 761 017
She goats	—	834 785
Castrated goats	—	6 034 425
Pigs		
Holdings reporting pigs, total	342 385	1 129 758
1 to 4 head	285 823	—
5 - 9	39 398	—
10 - 19	14 181	—
20 - 29	1 342	—
30 - 39	549	—
40 and over	1 092	—
Piglets, total	—	500 531
Male	—	179 415
Female	—	321 116
Boars	—	162 474
Sows/gilts	—	392 228
Castrated males	—	74 525

(continued)

Livestock (cont'd)		
	Holdings reporting	Number of head/units
Donkeys	—	310 402
Chickens	2 992 145	34 371 037
Ducks	—	1 362 216
Turkeys	—	213 545
Rabbits	—	534 151
Fish farming (Aquaculture)		
Holdings by system of fish farming:		
Natural pond	1 217	—
Dug-out pond	16 427	—
Natural lake	40	—
Water reservoir	251	—
Other	100	—
Number of fish harvested	—	2 679 724

Use of fertilizers and pesticides		
	Holdings reporting use	
Fertilizers		
Chemical fertilizers	552 953	—
Farmyard manure	1 255 312	—
Compost	281 678	—
Pesticides/Fungicides	794 372	—
Herbicides	76 201	—

Machinery/Equipment

	Number	
Hand hoes		
Owned by the holder	16 487 022	
Holdings Using	4 747 642	
Sprayers hand-operated		
Owned by the holder	418 416	
Holdings Using	686 270	
Oxen for draught purposes		
Owned by the holder	2 379 163	
Holdings Using	1 144 099	
Ploughs animal-drawn		
Owned by the holder	739 249	
Holdings Using	1 103 765	
Seeders animal-drawn		
Owned by the holder	11 108	
Holdings Using	10 717	
Carts animal-drawn		
Owned by the holder	123 392	
Holdings Using	232 059	
Tractors		
Owned by the holder	18 694	
Holdings Using	132 058	
Ploughs tractor-operated		
Owned by the holder	14 219	
Holdings Using	112 218	
Harrows tractor-operated		
Owned by the holder	5 905	
Holdings Using	15 770	
Threshers/Shellers		
Owned by the holder	36 436	
Holdings Using	71 872	

Tanzania – Agricultural Census 2002- 03 – Explanatory Notes

Historical outline:

Agricultural censuses were carried out in Tanzania in 1950 and 1960. The first agricultural census of Republic of Tanzania was carried out in 1971-72. The second agricultural census was conducted in 1993/94 for household and livestock data, and in 1994/95 for crop area and production. Livestock censuses were also conducted in 1971, 1978, 1984. The censuses of 1978 and 1984 were complete enumeration while those of 1971 and 1993-94 were sample censuses. The third agricultural census (National Sample Census of Agriculture) of Tanzania, covering both crops and livestock, was carried out for 2003/04. In addition to the agricultural censuses, the Central Bureau of Statistics and the Ministry of Agriculture also carry out a number of agricultural sample surveys. The Census of 2002-03 received financial support from European Union, DFID, and JICA., and technical support from FAO.

Organization:

The Statistics Act 2002 empowers the National Bureau of Statistics (NBS) to collect and publish specified Statistics. The agricultural census 2002 was conducted by NBS in collaboration with the sector ministries and the Office of the Chief Government Statistician of in Zanzibar. At central level the Planning Group, comprising staff from NBS and Ministry of Agriculture and Food Security (MAFS), oversaw the operational aspects of the census. At regional level field offices of NBS and MAFS jointly implemented the census activities. At the district level the supervisor from the Presidents Office, Regional Administration and Local Government (PORALG) managed the field work of enumerators coming from PORALG. In addition, there were a technical working group and a technical committee working at the national level.

Enumeration period:

The data collection for the 2002-03 Census was carried out during January to March 2004.

Reference date:

Crop cultivation referred to agricultural year 2002-03 (October 2002 to September 2003). The livestock count was as on 1 October 2003. Addition/deletion to livestock was reckoned during the agricultural year 2002-03.

Definitions:

Agricultural holding (farm): This is an economic unit of agricultural production under single management. It consists of all land and livestock kept for agricultural production without regard to title. For the purpose of the Census, the agricultural holdings were restricted to those meeting one of the following conditions:

- Having or operated at least 25 sq. metres of arable land;
- Owning or keeping at least one head of cattle or five goats/sheep/pigs or fifty chickens/ducks/ turkeys, during the reference year.

Small Scale farm/ Small holder household: Should have between 25 sq. metres and 20 ha of land under production, and/or between 1 to 50 head of cattle, and/or between 5 and 100 heads of goats/sheep/pigs, and/or between 50 and 1000 chickens/ducks/ turkeys/rabbits.

Scope:

Apart from usual census data items, the data was also collected on household sources of income and activities, input use, storage, processing, marketing, agro-forestry, on-farm investment, agricultural credit, erosion control and extension services. Community level data covering access to infrastructure was also collected.

Coverage:

The census excluded urban districts. The sample covered all the districts (except 2 urban districts) in 21 regions of Mainland. In Zanzibar also all, except one urban district, were covered.

Frame:

The villages/enumeration areas (EAs) were drawn from National Master Sample (NMS) developed by NBS to serve as a national framework for household based surveys in the country.

Methods:

While all the 1,254 large scale farms were completely enumerated, the census was conducted on sampling basis for small farms. In both Mainland and Zanzibar a stratified two stage sampling design was used. Villages and EAs, being the primary sampling units (PSU) were selected with a probability proportional to the number of villages in each district. In the second stage, 15 households were selected from the list of farming households in village/EA using systematic random sampling. Listing of farming households was carried out using Village Listing Forms. Separate questionnaires were

used to collect data from small farms, large farm and the communities. Questionnaires were designed to minimize the coding errors and also to facilitate the use of scanning and Intelligent Character Recognition (ICR) technologies. Manual scrutiny of the questionnaires for completeness, existence of identification and legibility ensured successful use of this technology. Besides training of enumerators and supervisors, extensive Information, Education and Communication (IEC) Campaign was carried out using a variety of media and communication material.

Data source:

National Sample Census of Agriculture 2003-04 (Volume II and III), June 2006, published by National Bureau of Statistics in collaboration with other concerned ministries and departments.

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