

Figure K.1.2-2 Total Land

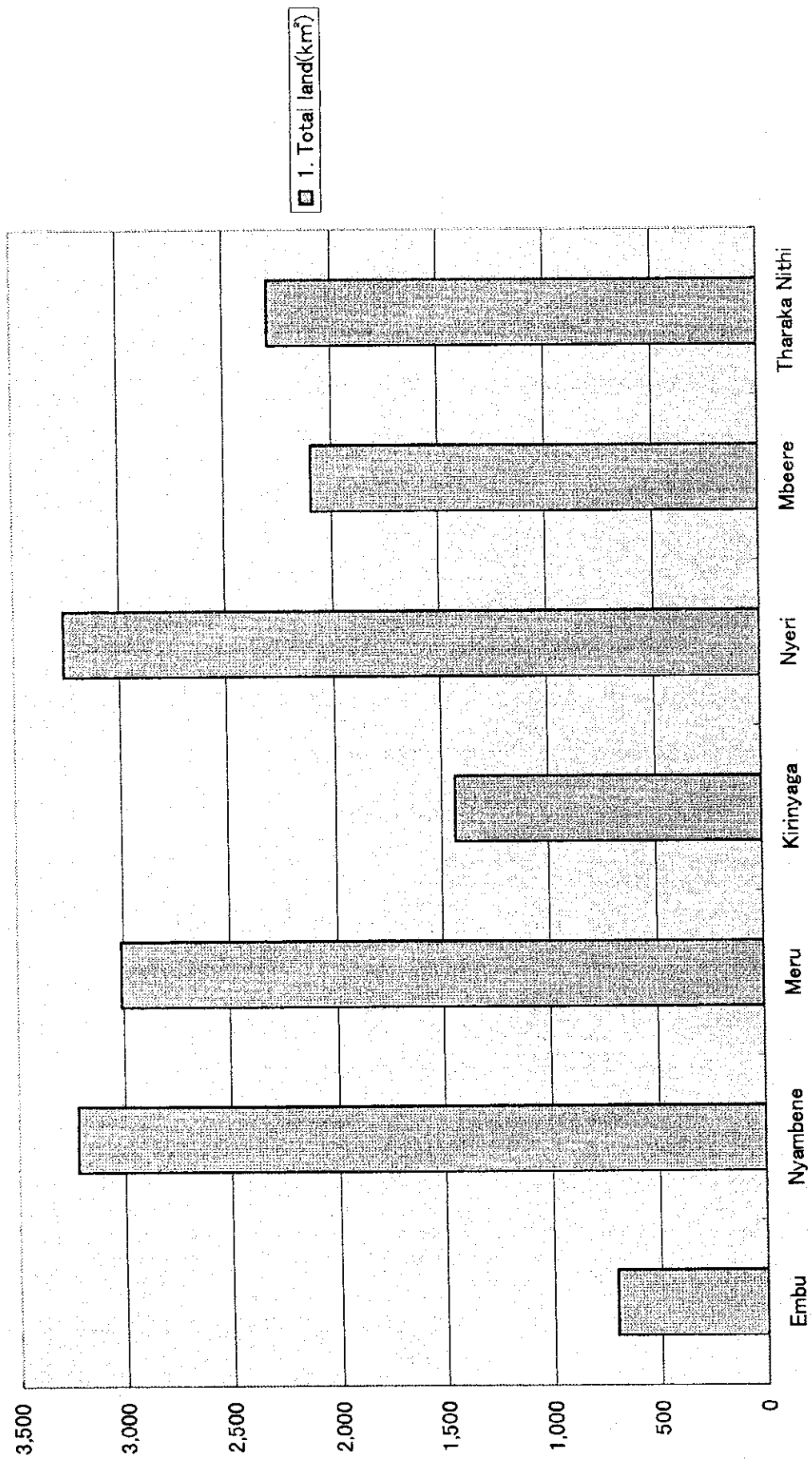


Figure K.1.1.2-3 Cultivable Land

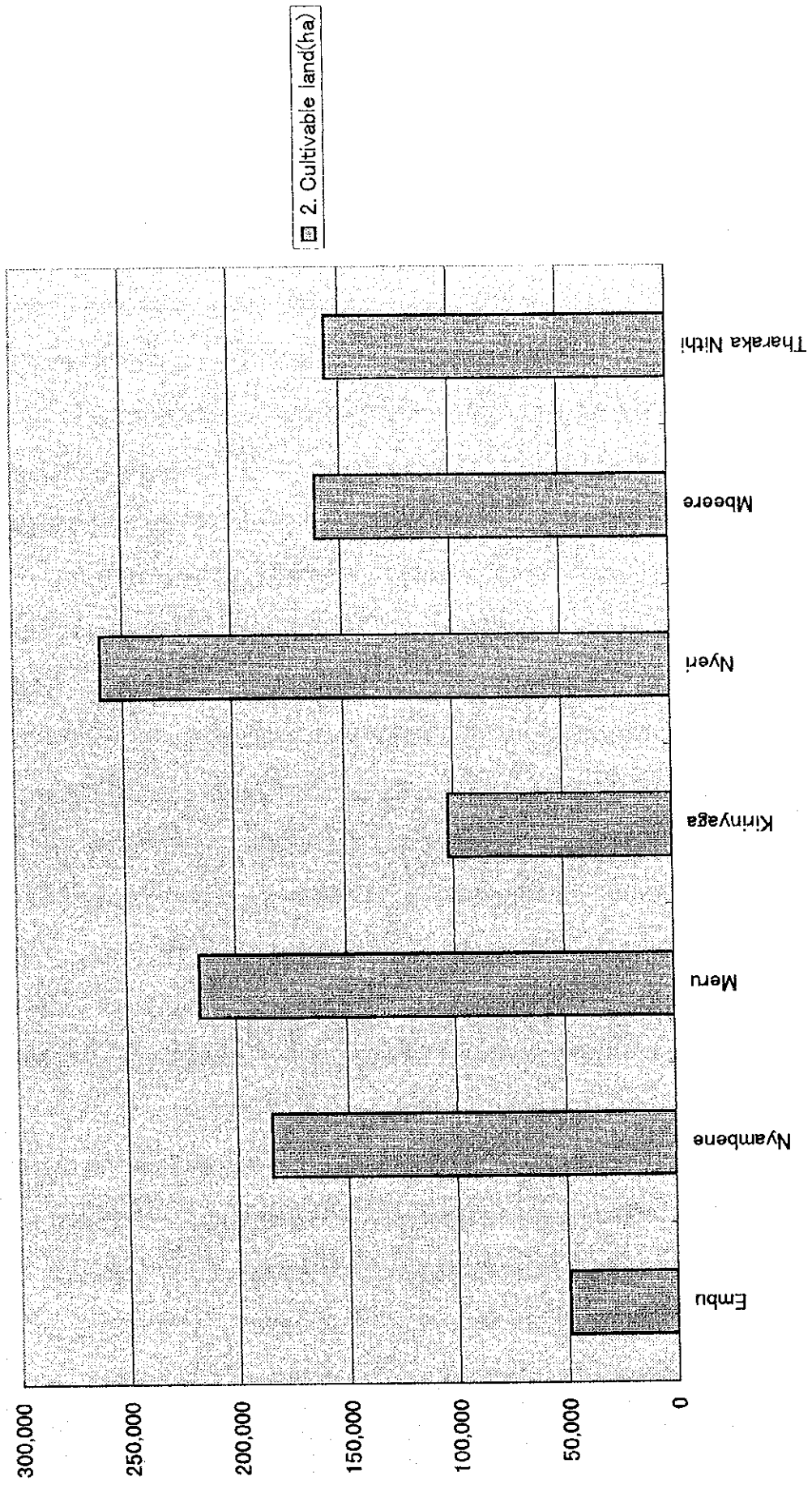


Figure K.1.2-4 Irrigable Area

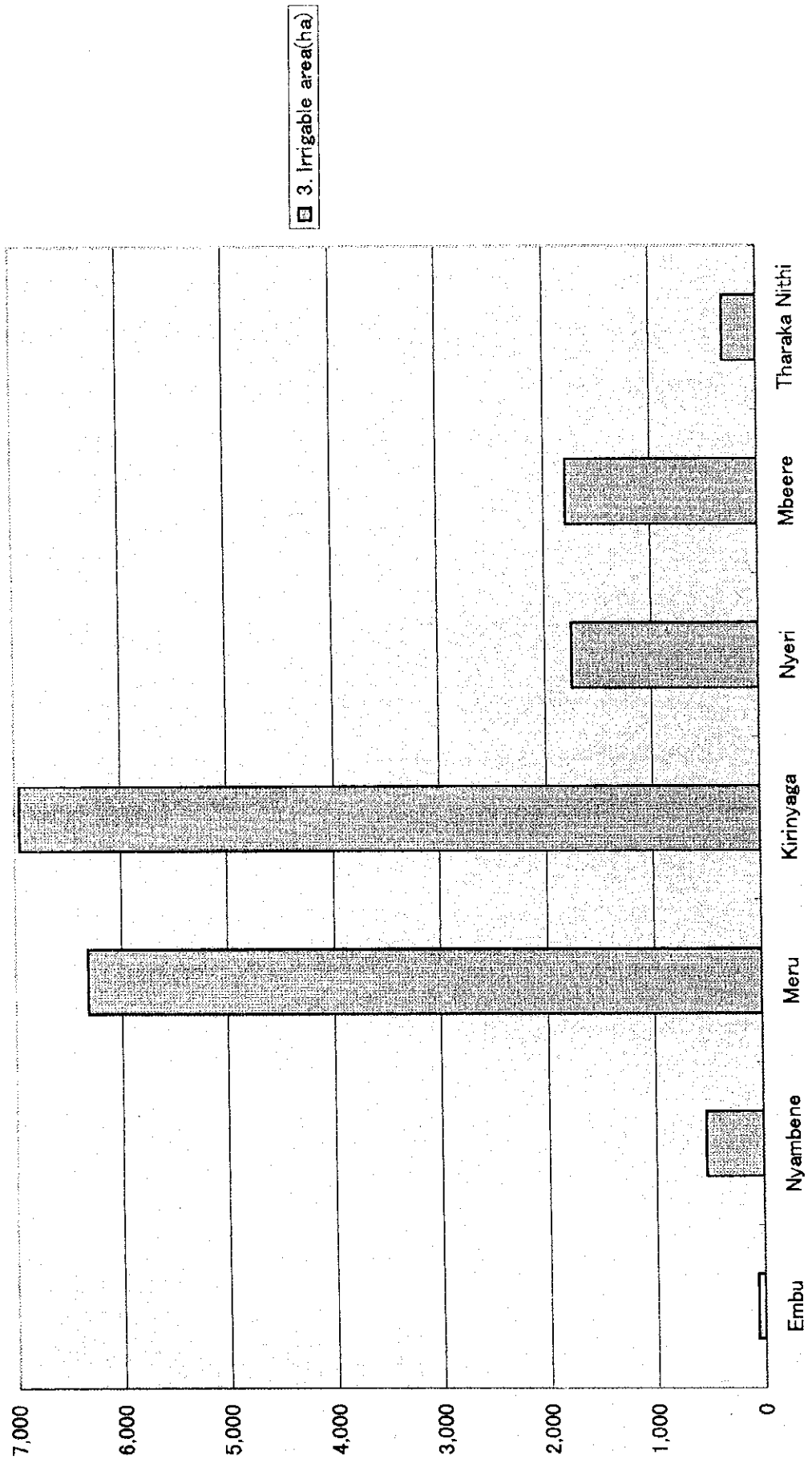


Figure K.1.2-5 Cultivable Land per Capita

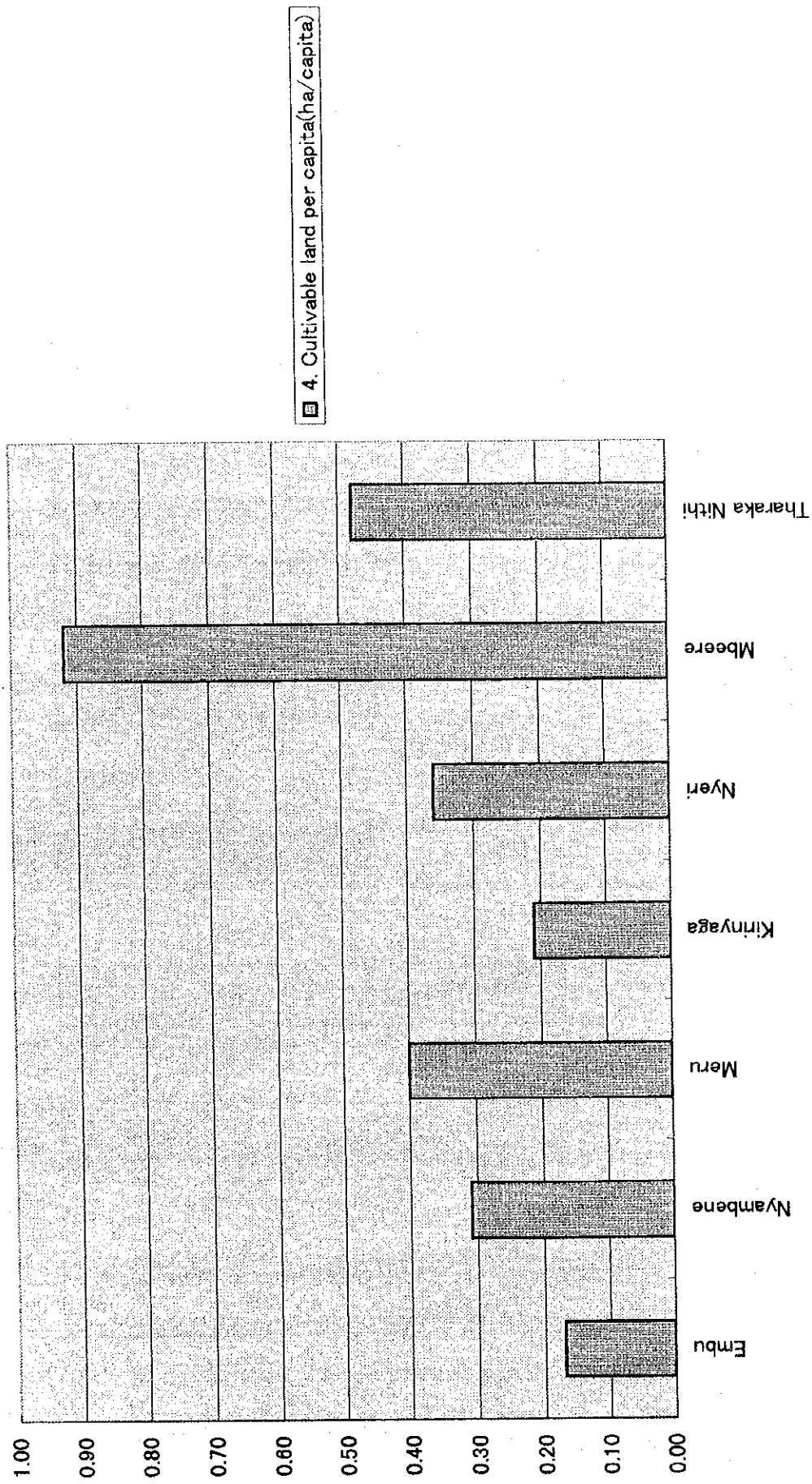


Figure K.1.1.2-6 Total Planted Area

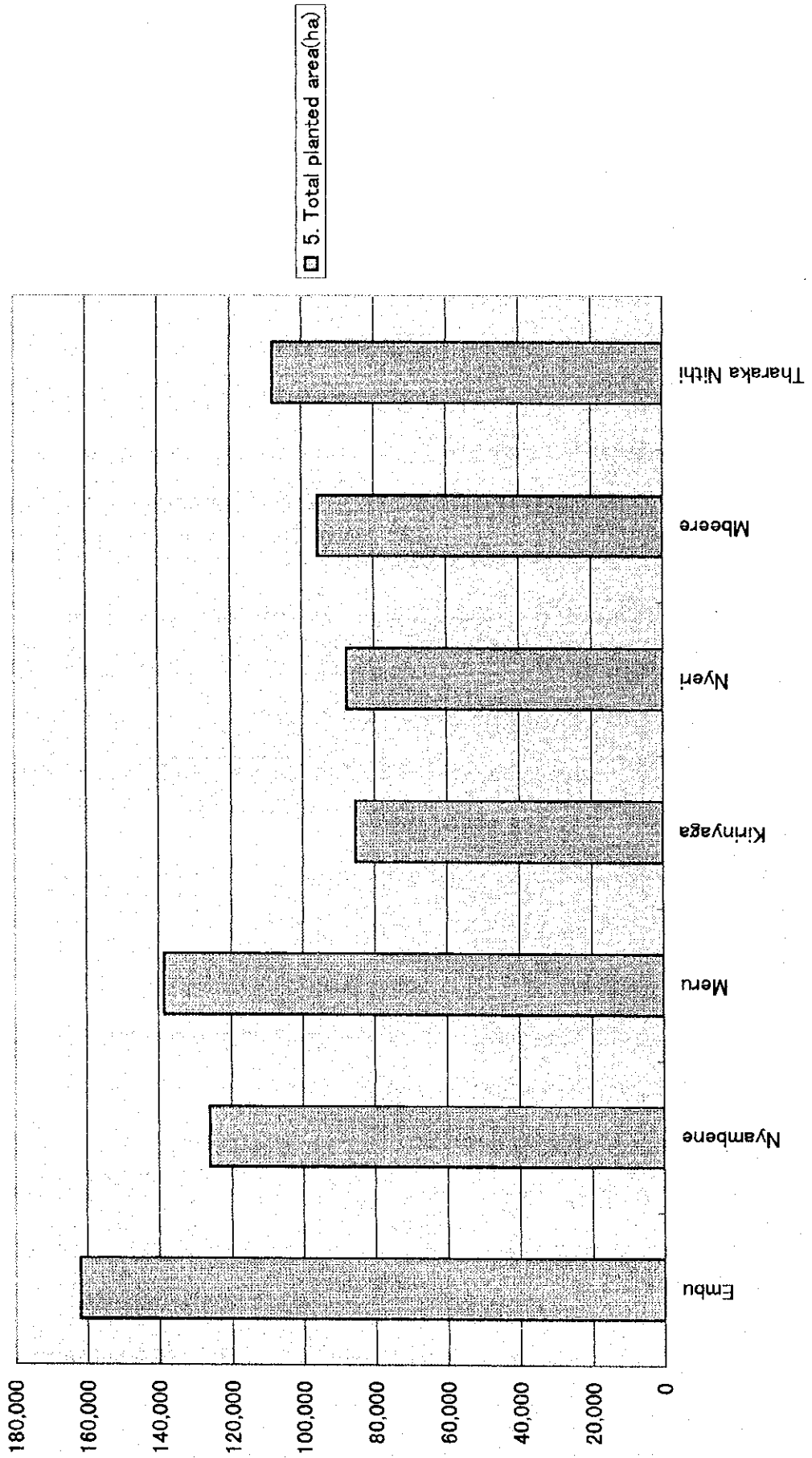


Figure K.1.2-7 Population

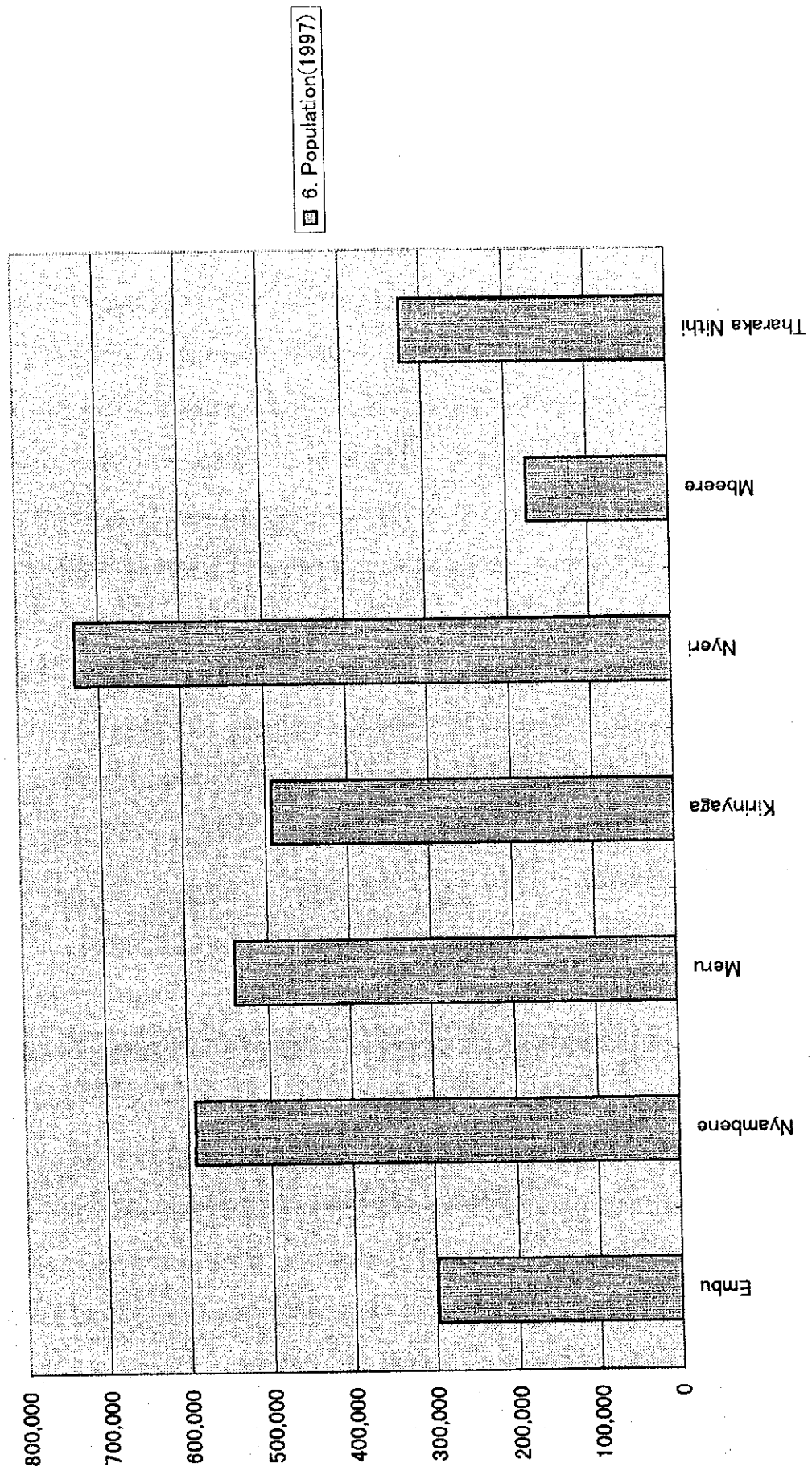


Figure K.1.2-8 Population Aged 15 to 50 Years

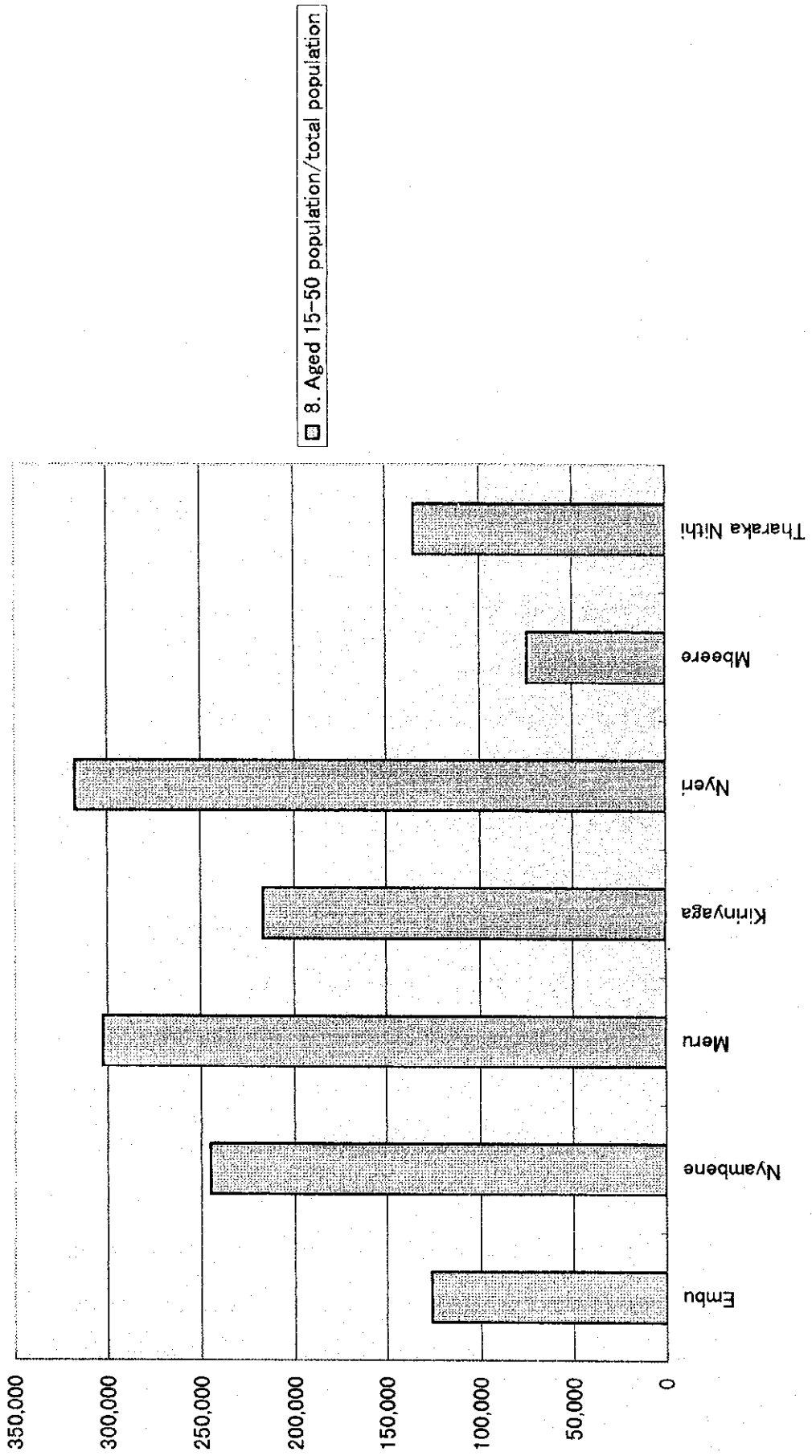


Figure K.1.1.2-9 Population Density

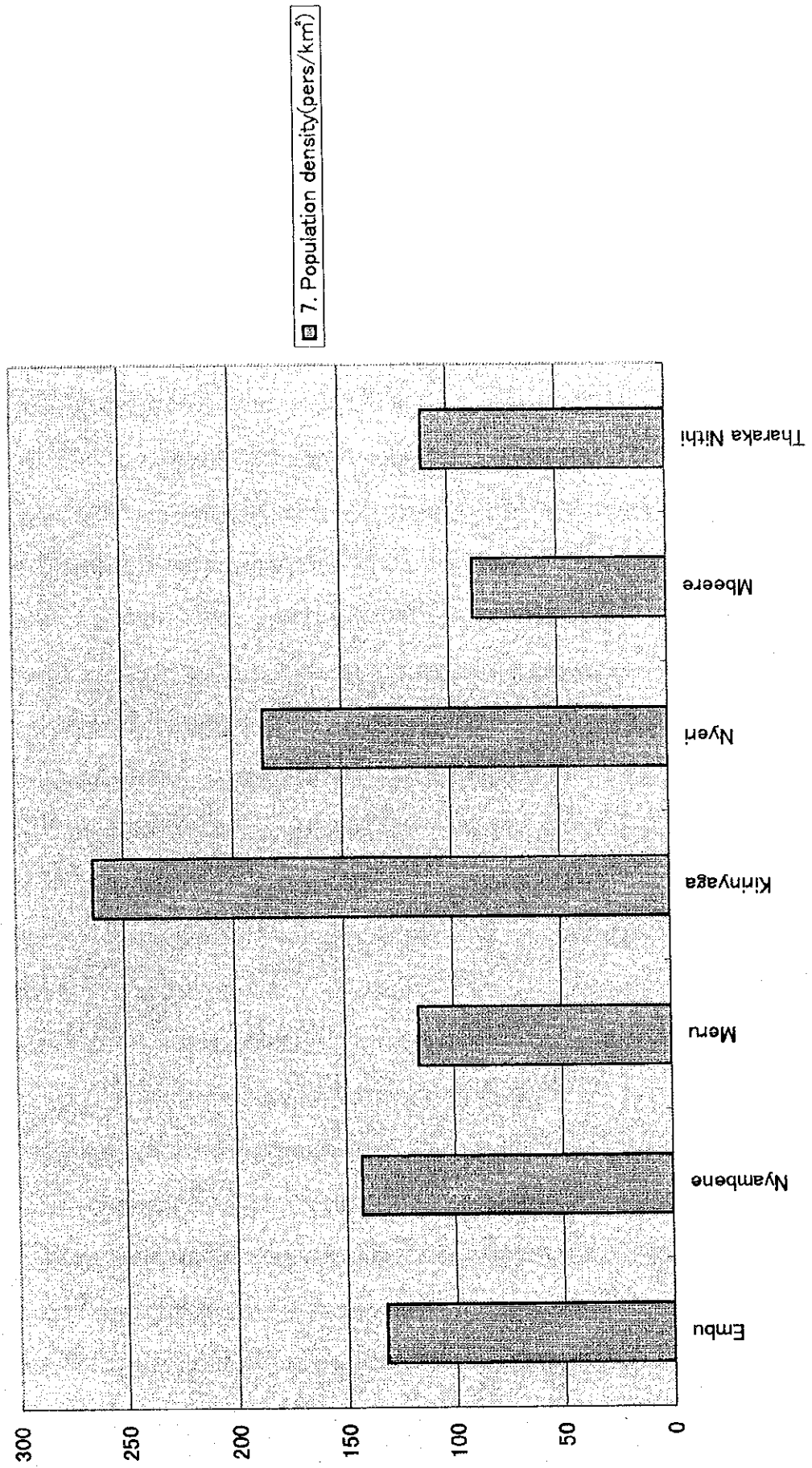


Figure K.1.1.2-10 Total Agricultural Income of District

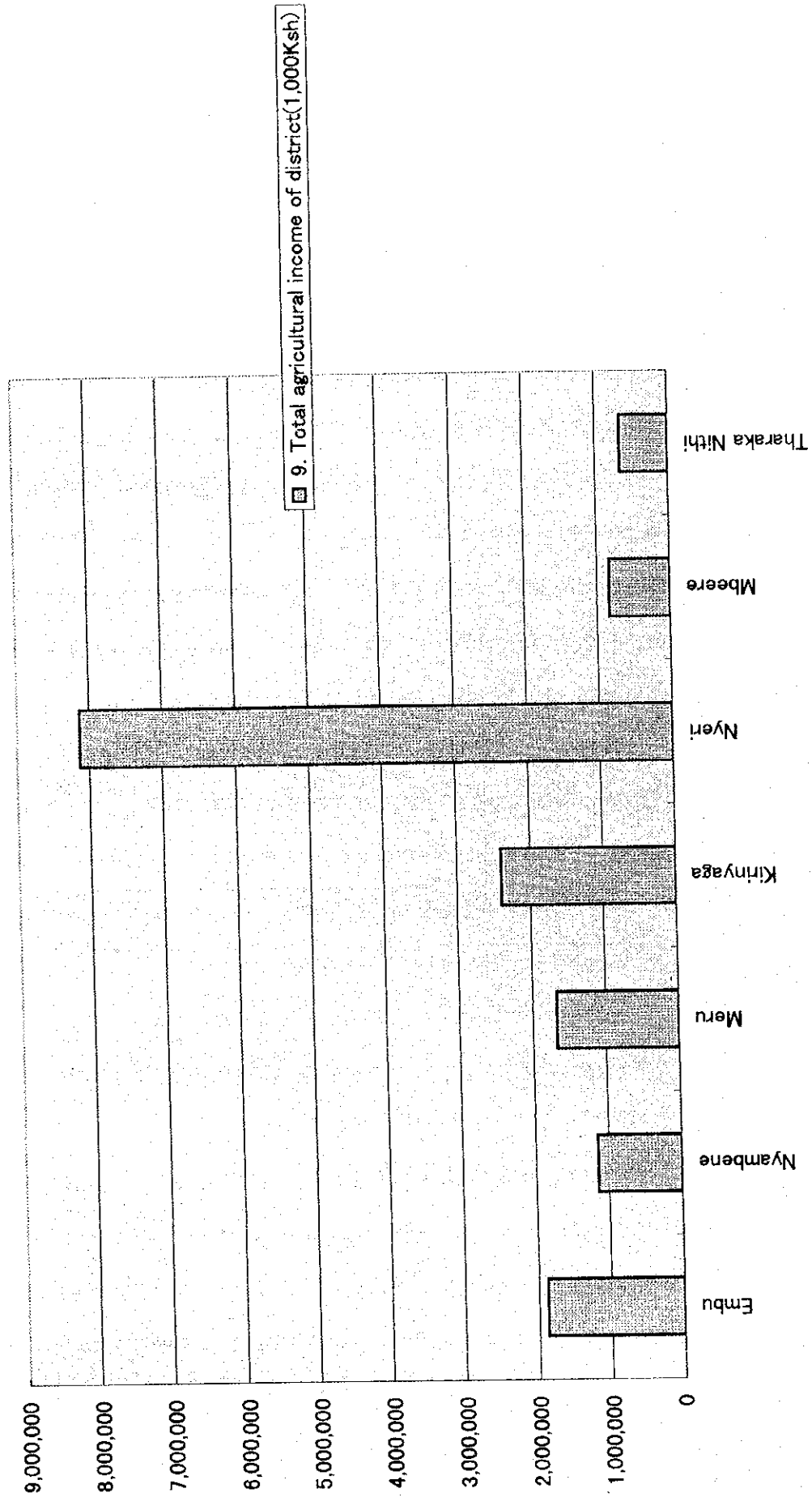


Figure K.1.2-11 Crop Income

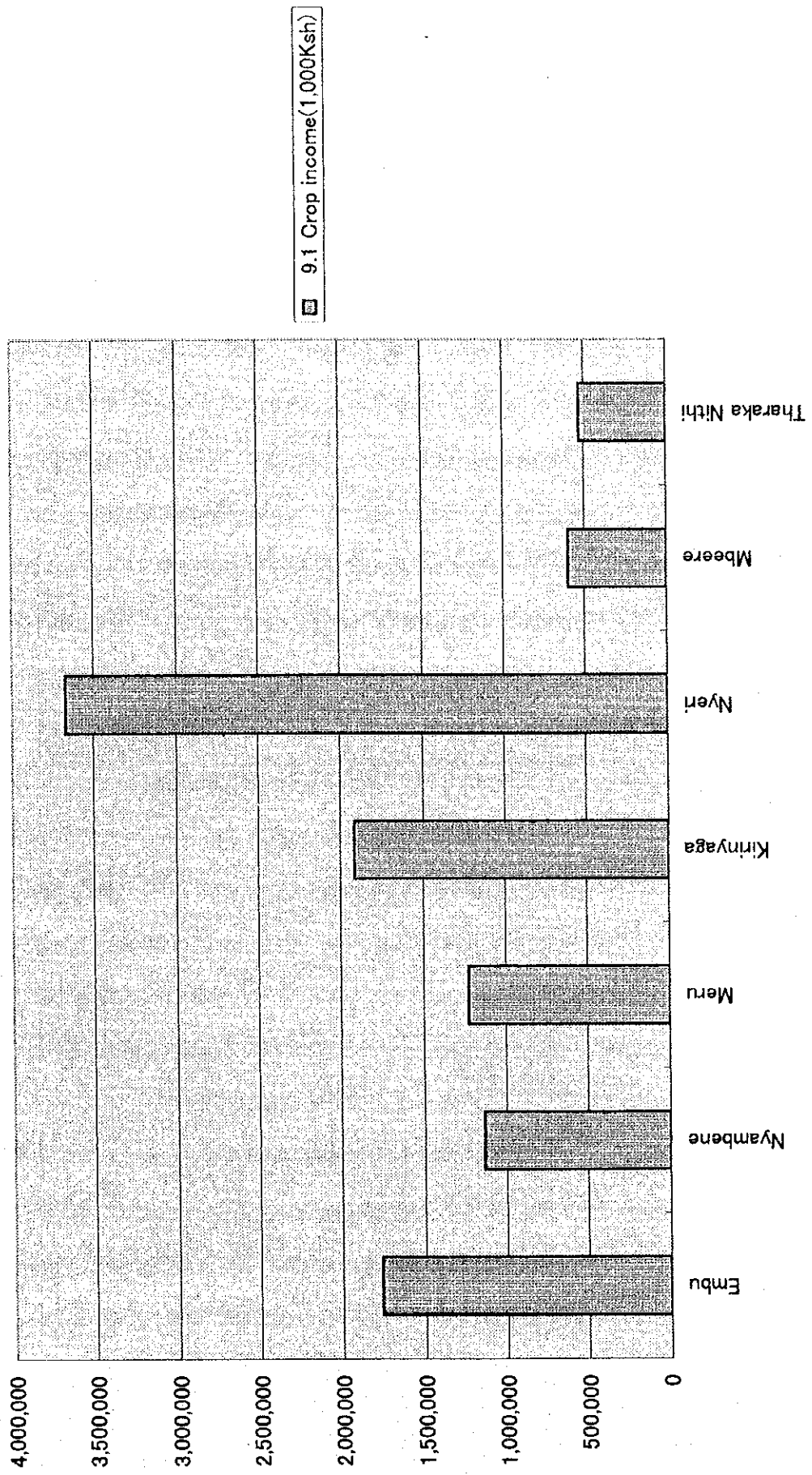


Figure K.1.1.2-12 Livestock Income

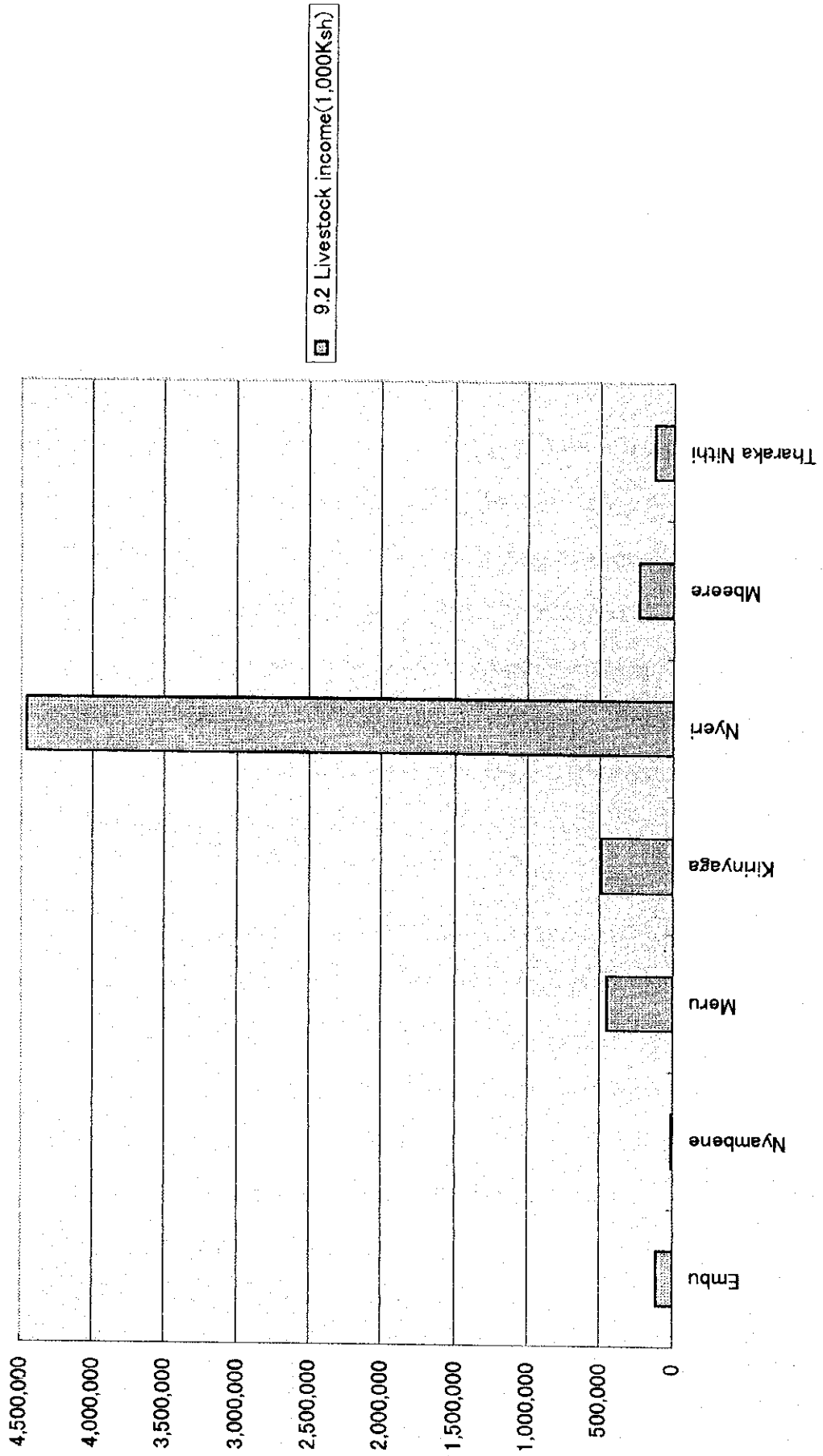


Figure K.1.1.2-13 Agricultural Income per Capita

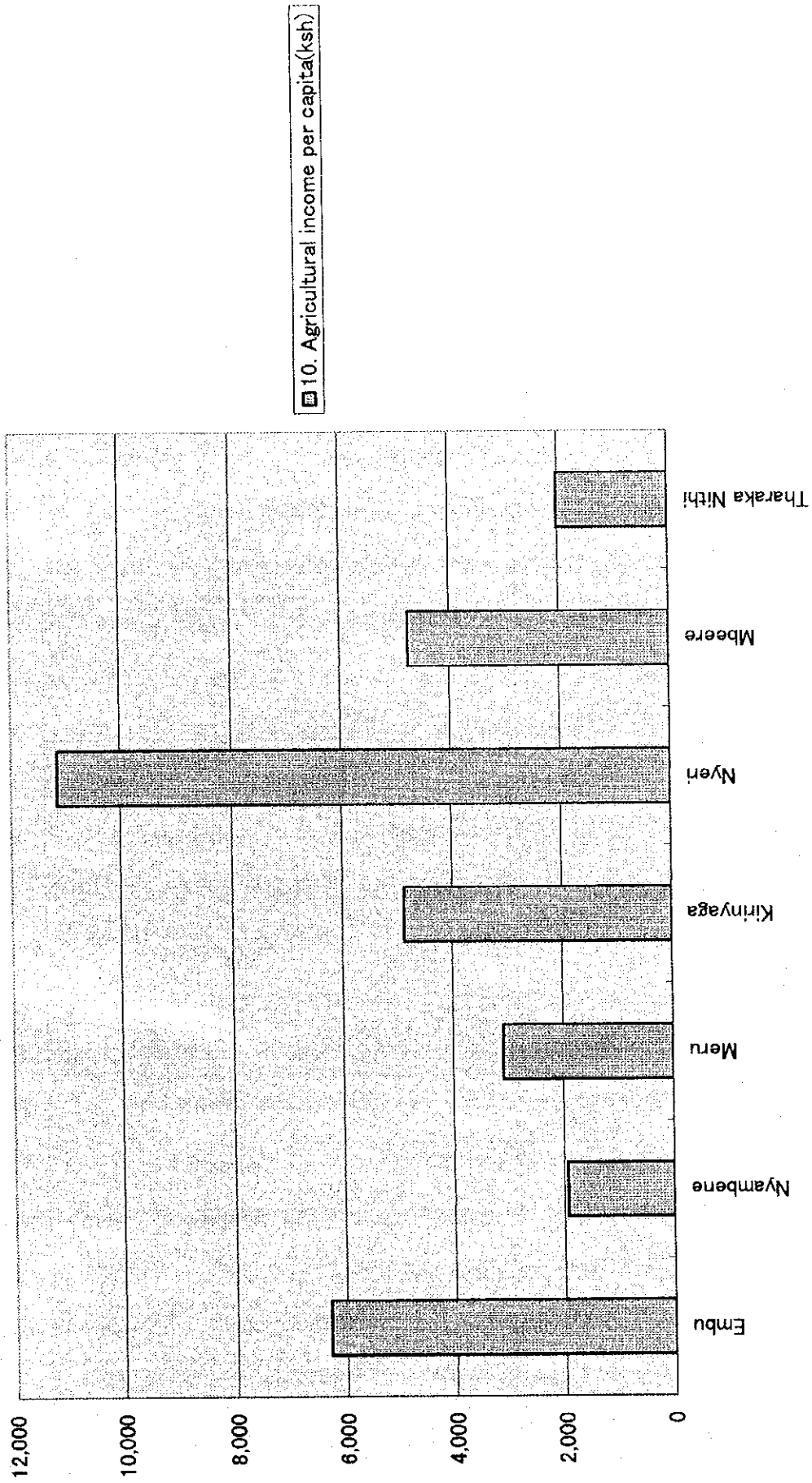


Figure K.1.2-14 Planted Area with Export-Oriented Horticultural Crops

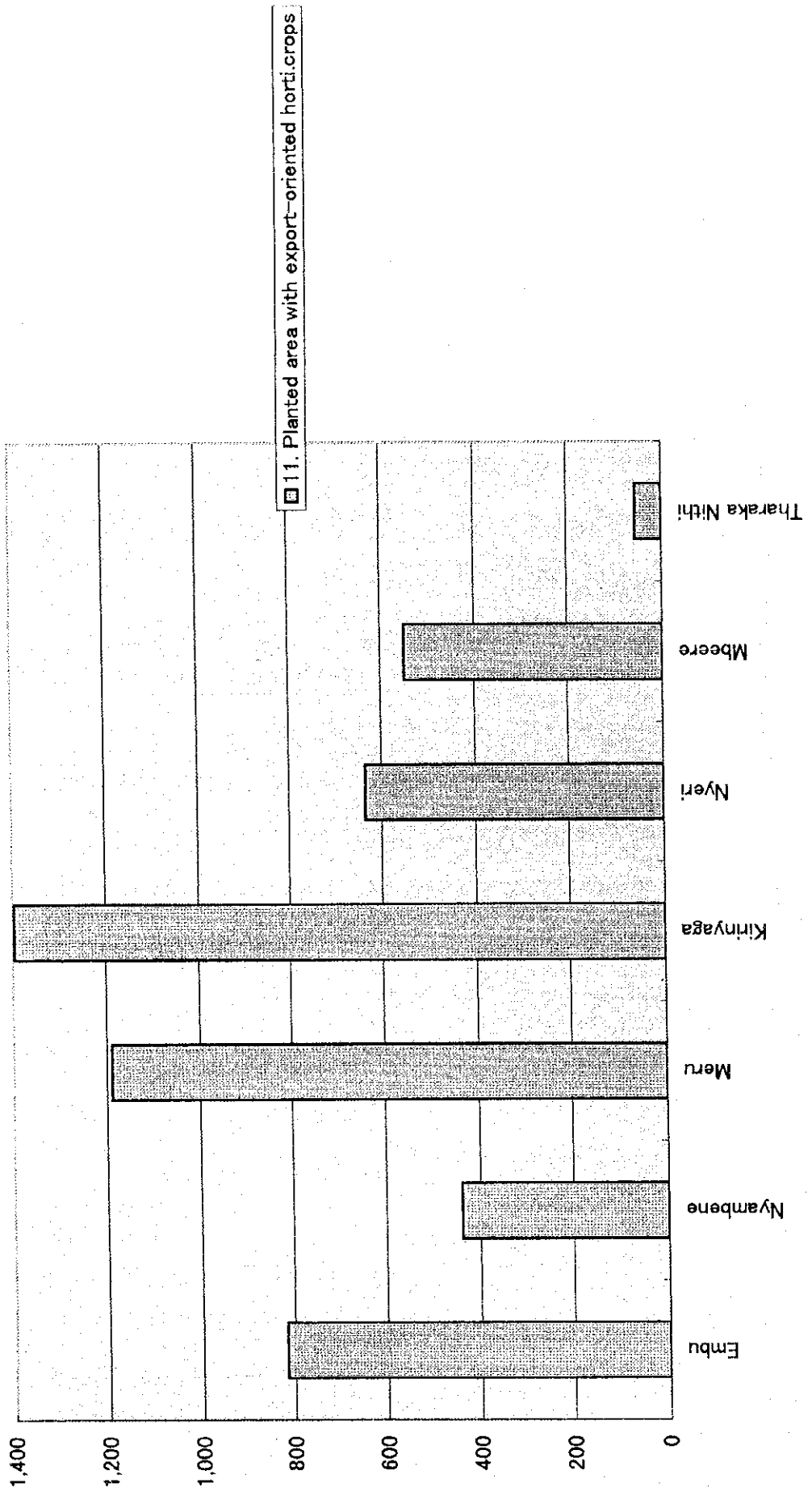
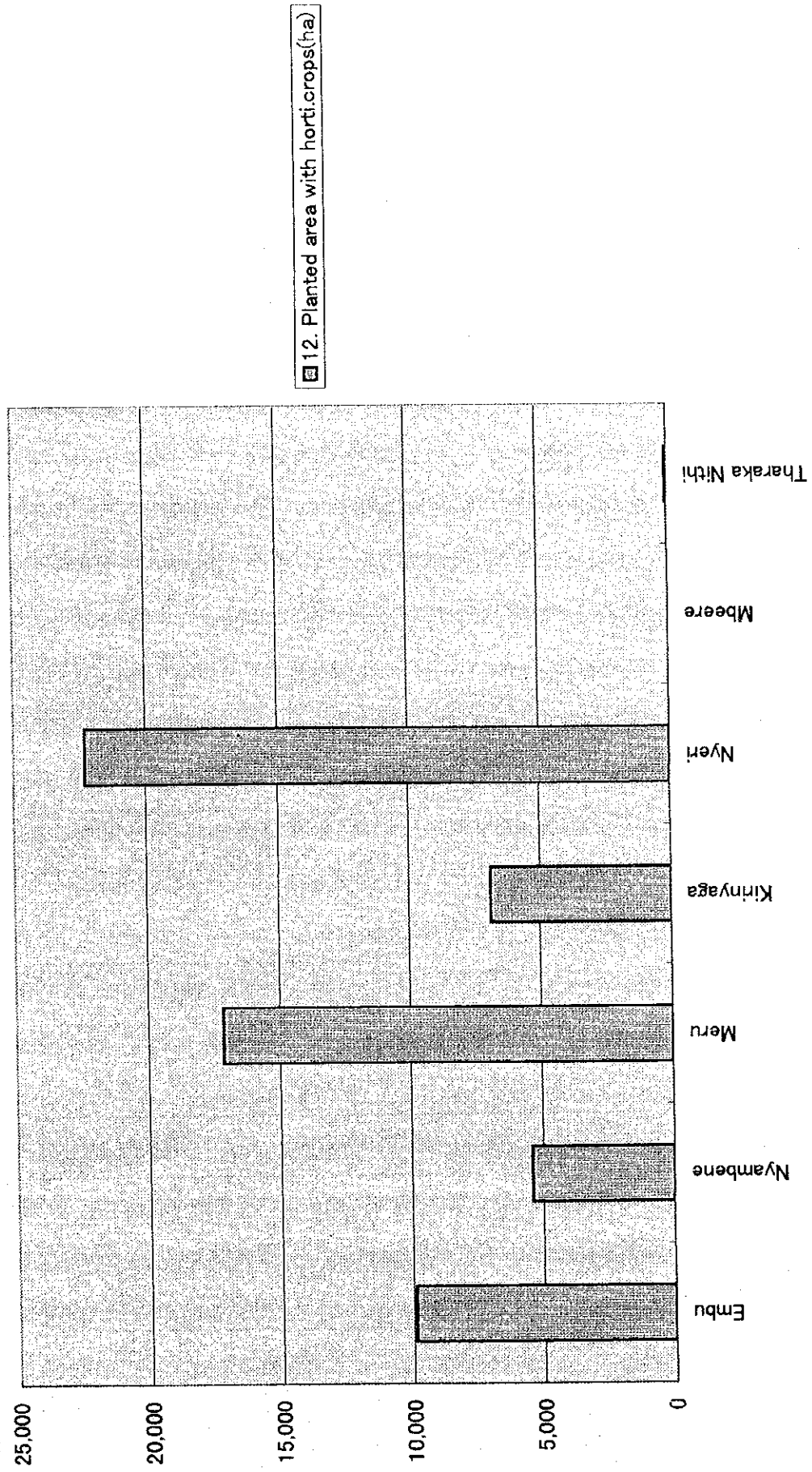


Figure K.1.2-15 Planted Area with Horticultural Crops



Note. Horticultural crops cover export-oriented crops, potatoes, bananas, and other fruits and other vegetables.

Figure K.1.1.2-16 Maize Production

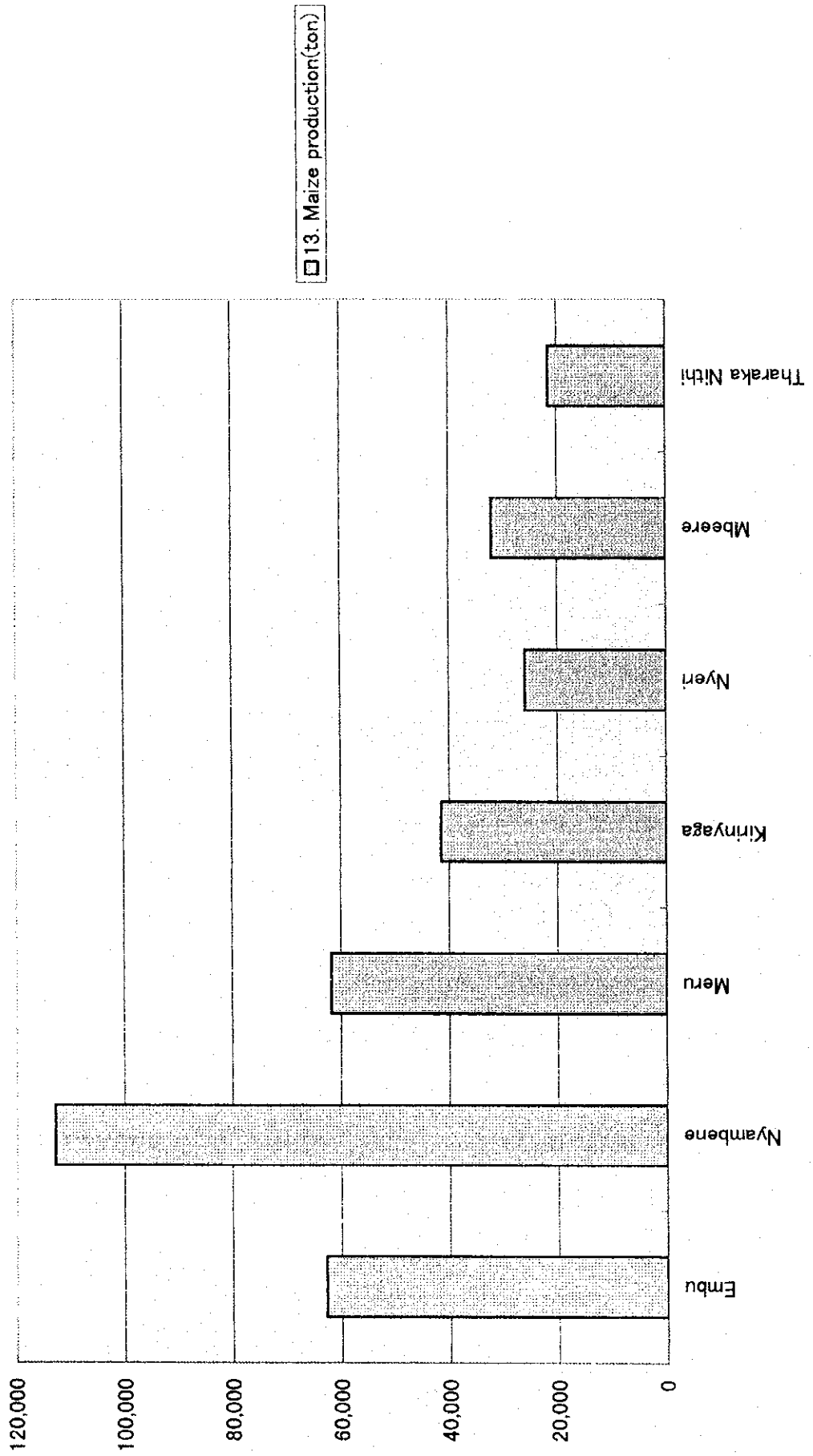


Figure K.1.2-17 Number of Farm Households

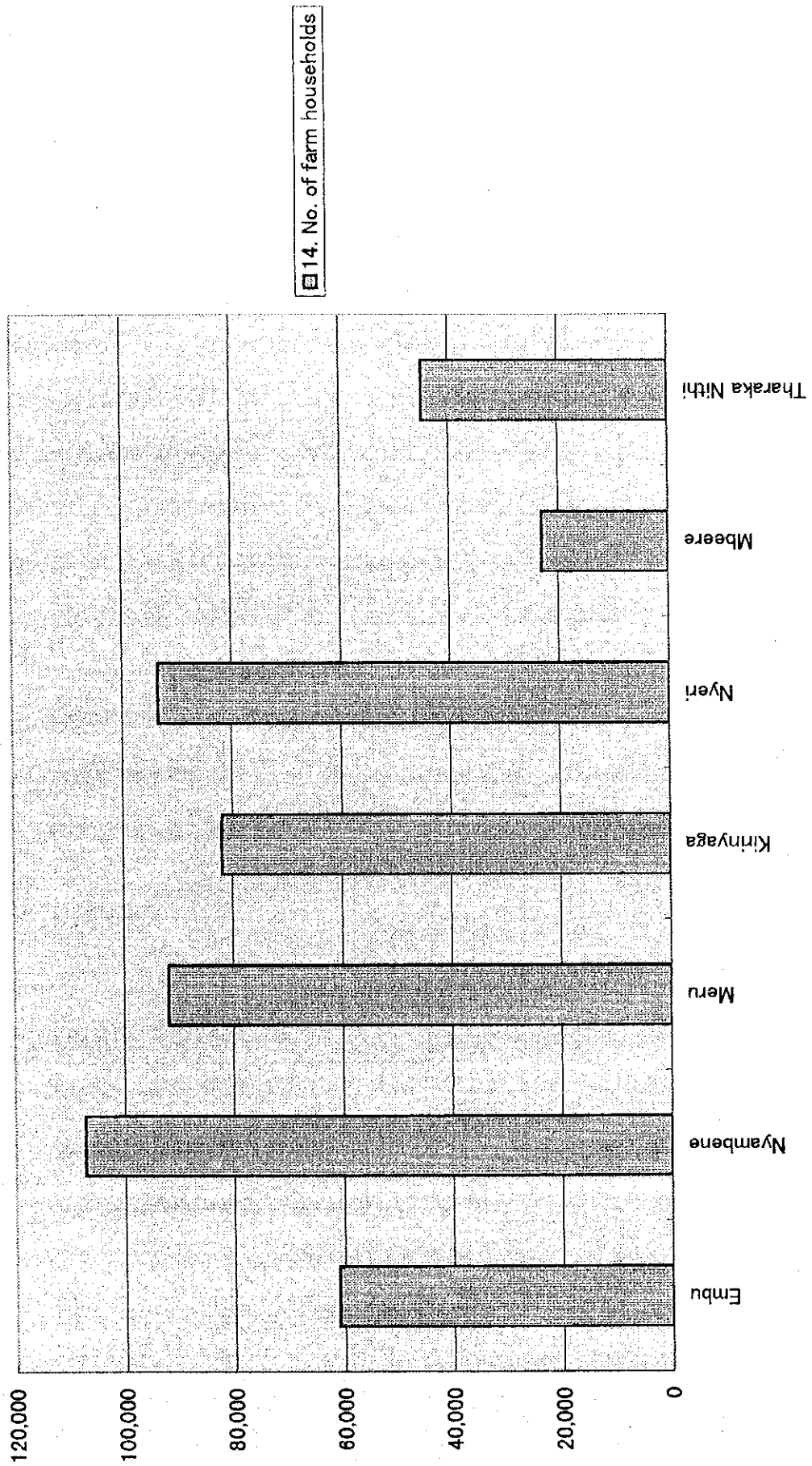


Figure K.1.2-18 Farm Size per Farm Household

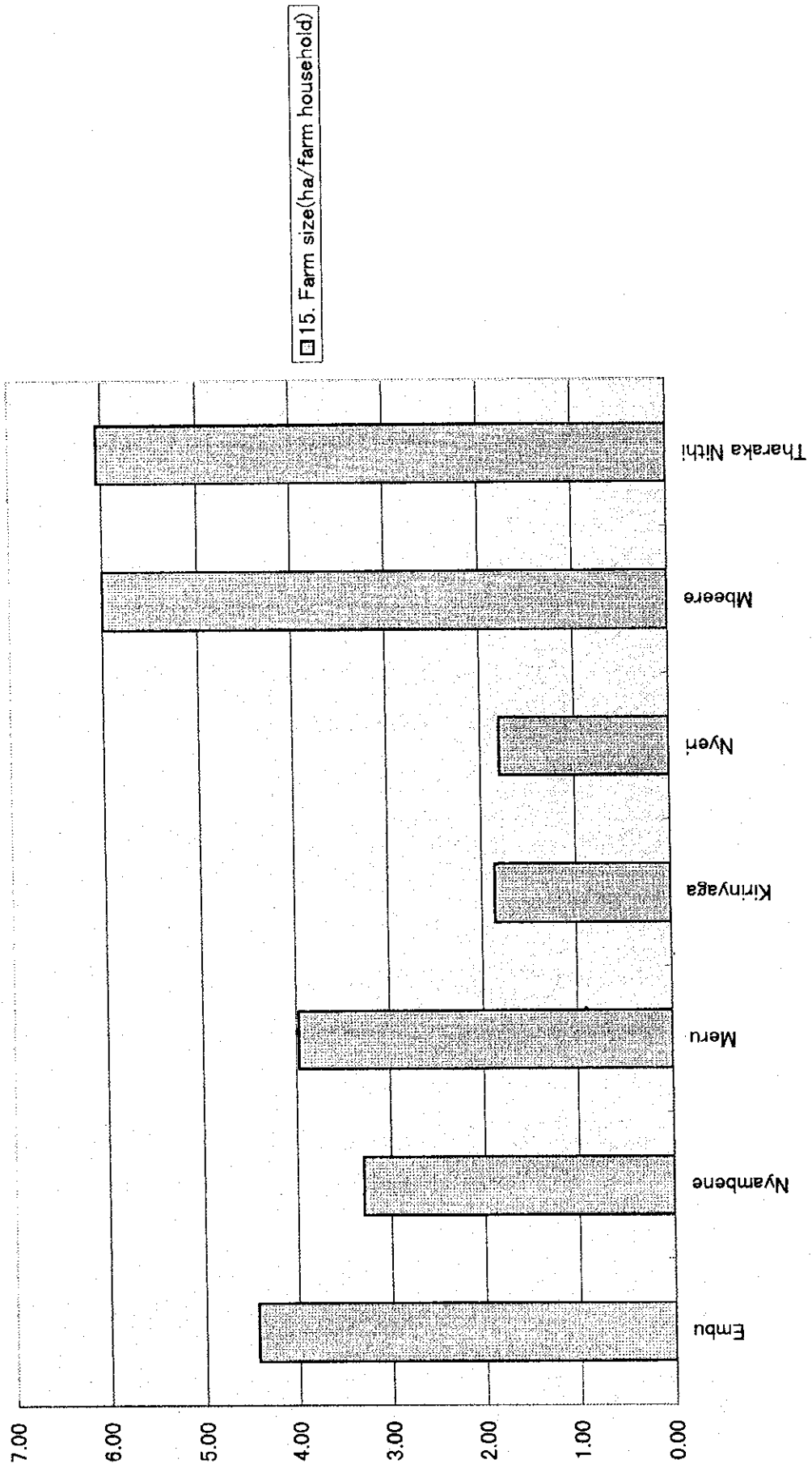


Figure K.1.2-19 Family Size

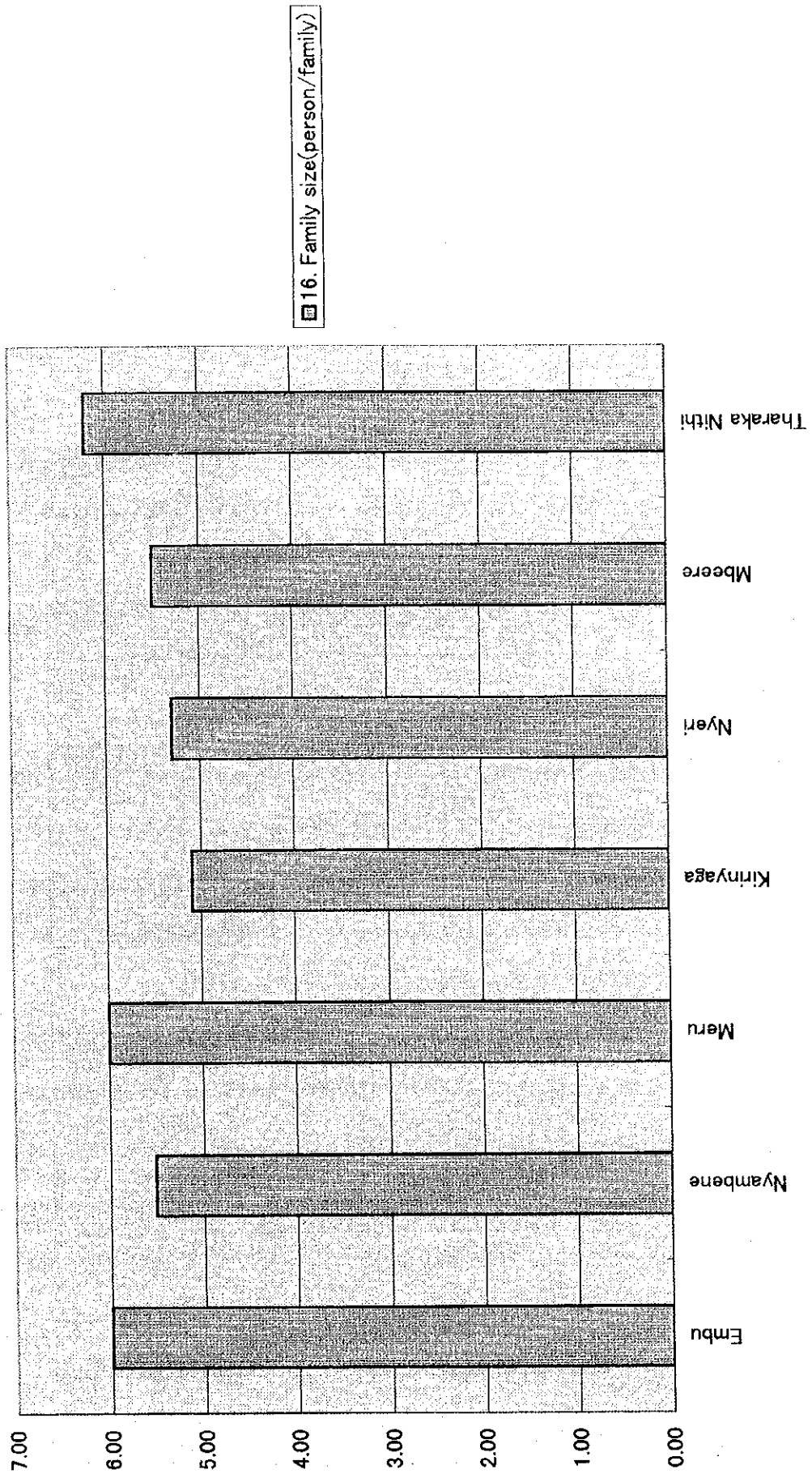


Figure K.1.1.2-20 Maize Available per Capita

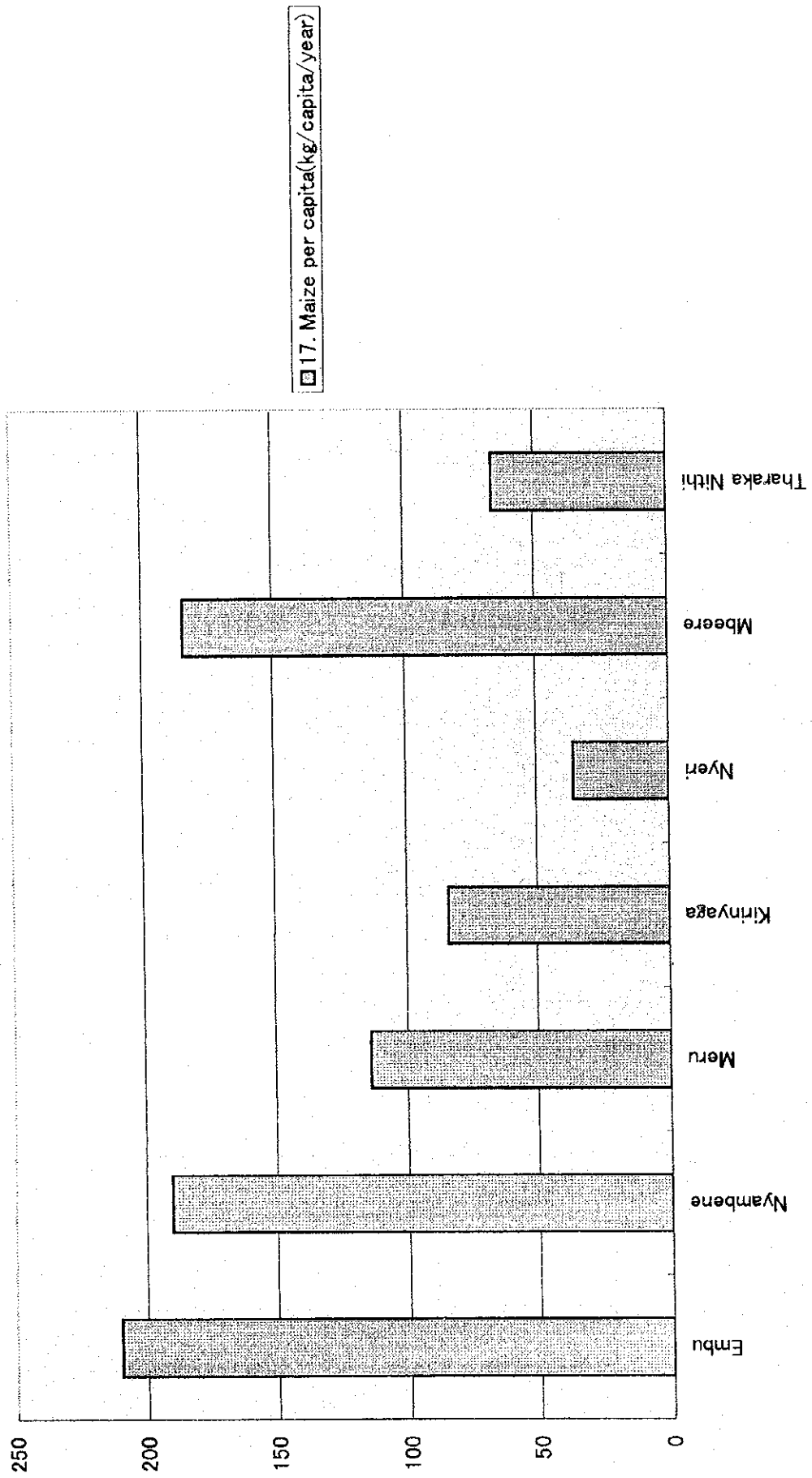


Figure K.1.2-21 Ratio of Female Headed Household

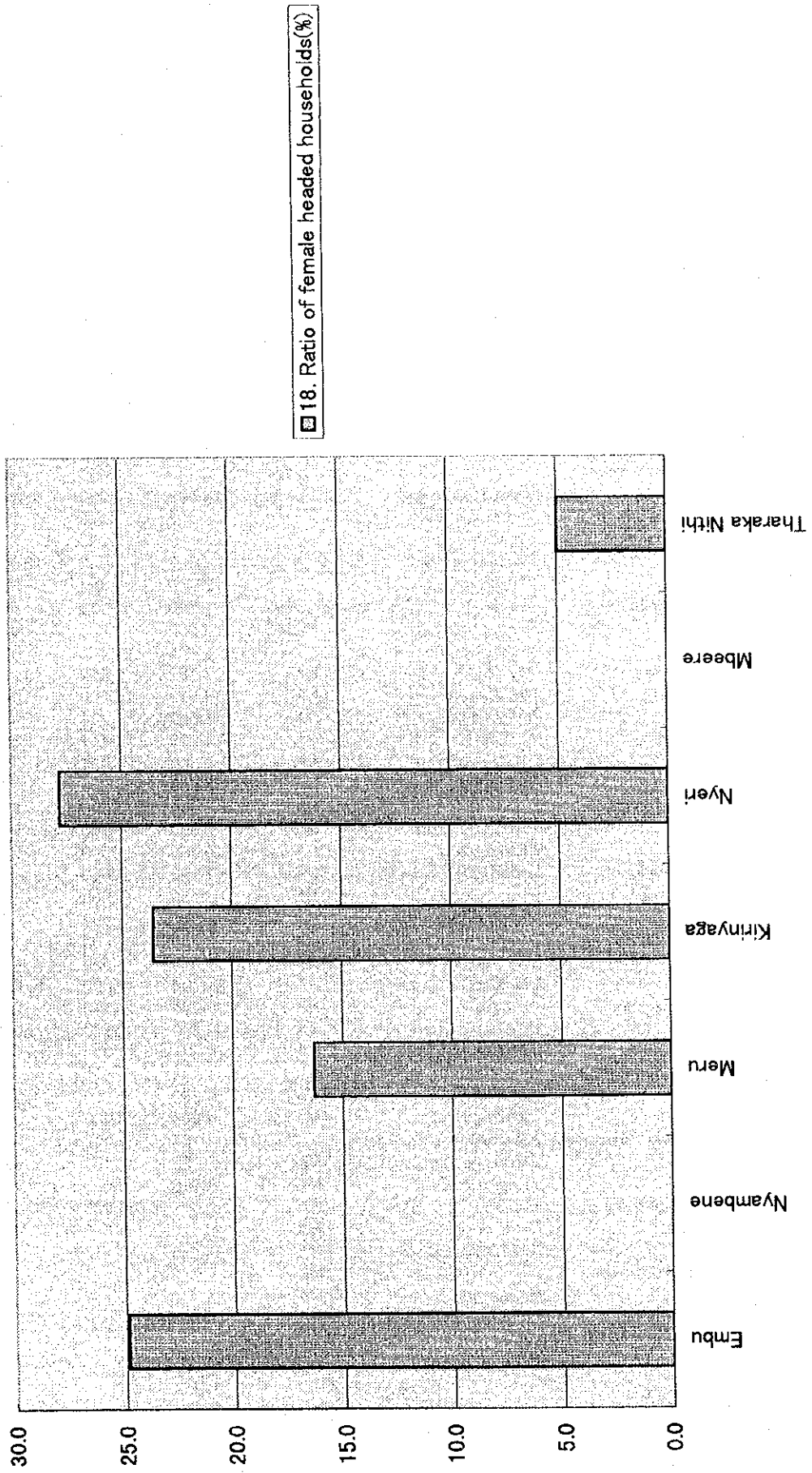


Table K.1.2-25 Crop Production in Tharaka Nithi

	Description	1992	1993	1994	1995
Maize	Area(ha)	164,200	102,500	24,000	341,320
	Production(ton)	12,555	20,500	2,400	23,680
	Yield(kg/ha)	76.5	200.0	100.0	69.4
Millet	Area(ha)	12,969	15,000	16,231	10,400
	Production(bags)	86,000	99,000	113,500	69,800
	Yield(bags/ha)	6.6	6.6	7.0	6.7
Sorghum	Area(ha)	4,814	10,100	5,468	7295
	Production(bags)	32,300	48,700	38,300	43030
	Yield(bags/ha)	6.7	4.8	7.0	5.9
Beans	Area(ha)	60,800	-	13,512	10,975
	Production(bags)	13,512	-	60,800	50,900
	Yield(bags/ha)	0.2	-	4.5	4.6
Cow Peas	Area(ha)	9,300	4,130	4,130	4,340
	Production(bags)	2,705	12,400	12,400	22,530
	Yield(bags/ha)	0.3	3.0	3.0	5.2
Pigeon Peas	Area(ha)	2,890	18,800	4,130	4,350
	Production(bags)	12,800	13,670	18,600	18,900
	Yield(bags/ha)	4.4	4130.0	4.5	4.3
Green Grams	Area(ha)	4,764	6,150	6,837	5,400
	Production(bags)	17,800	24,000	34,200	31,260
	Yield(bags/ha)	3.7	3.9	5.0	5.8
Bananas	Area(ha)	-	-	865	870
	Production(ton)	-	-	7,785	10,400
	Yield(ton/ha)	-	650.0	9.0	12.0
Dolicos	Area(ha)	492	1,740	523	682
	Production(bags)	1,950	4,200	865	870
	Yield(bags/ha)	4.0	2.4	2.4	1.7
Coffee	Area(ha)	NA	9,252	9,252	9,252
	Production(ton)	NA	14,520	16,600	27,700
	Yield(kg/ha)	NA	1,569	1,794	2,994
Tea	Area(ha)	NA	1,325	1,407	1,594
	Production(ton)	NA	4,300	4,000	-
	Yield(kg/ha)	NA	3,245	2,843	-
Cotton	Area(ha)	NA	5,000	15,000	1,892
	Production(ton)	NA	2,000	4,500	946
	Yield(kg/ha)	NA	400	300	500
Tobacco	Area(ha)	NA	120	540	-
	Production(ton)	NA	60	265	-
	Yield(kg/ha)	NA	500	491	-
Tomatoes	Area(ha)	NA	50	55	65
	Production(ton)	NA	575	550	650
	Yield(kg/ha)	NA	11,500	10,000	10,000
Brassicas	Area(ha)	NA	175	176	205
	Production(ton)	NA	2,200	2,100	2,050
	Yield(kg/ha)	NA	12,571	11,932	10,000
French Beans	Area(ha)	NA	58	25	1
	Production(ton)	NA	232	100	4
	Yield(kg/ha)	NA	4,000	4,000	4,000
Asian Vegetables	Area(ha)	NA	34	28	138
	Production(ton)	NA	125	101	650
	Yield(kg/ha)	NA	3,676	3,607	4,710
Macadamia	Trees	NA	-	50,822	50,822
	Production(ton)	NA	-	610	610
	Yield(kg/tree)	NA	-	12	12
Meru Herbs	Area(ha)	NA	-	4	28
	Production(ton)	NA	-	2	26
	Yield(kg/ha)	NA	-	500	929

Source: District Development Plan 1997-2001, Tharaka Nithi

Table K.1.1.2-26 Crop Production in Embu

	1991			1992			1993			1994			1995		
	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)
Maize	19,319	36,706	1,900	20,564	26,733	1,300	21,280	29,792	1,400	22,360	34,881	1,560	21,440	35,376	1,650
Sorghum	733	550	750	879	284	300	800	320	400	900	450	500	740	444	600
Millet	865	260	301	249	149	598	743	149	201	490	196	400	535	428	800
Beans	11,948	5,974	500	9,989	5,993	600	10,220	5,110	500	11,428	6,857	600	11,880	7,128	600
Cow Peas	983	393	400	1,000	400	400	1,022	256	250	1,097	439	400	1,216	730	600
Pigeon Peas	635	381	600	-	-	-	556	389	700	907	544	400	572	308	538
Green Grams	714	286	401	500	200	400	700	280	400	735	294	400	654	412	630
Cassava	188	2,068	11,000	297	5,049	17,000	288	2,680	10,000	340	3,400	10,000	358	3,222	9,000
Sweet Potatoes	224	1,705	7,612	297	535	1,801	368	2,208	6,000	368	3,379	9,182	438	3,504	8,000
Yams	300	3,000	10,000	300	3,000	10,000	40	160	400	40	280	7,000	50	350	7,000
Potatoes	1,551	9,150	5,899	-	-	-	1,680	11,760	7,000	1,920	15,200	7,000	2,120	15,940	7,519
Arrow Roots	52	416	8,000	72	820	11,389	78	413	5,295	81	648	8,000	71	497	7,000
Sunflower	10	-	-	205	-	-	20	27	1,350	40	53	1,325	100	100	1,000
S. Beans	0.5	-	-	0.5	-	-	1	0.5	500	2	1	500	5	3	600
Castor	100	-	-	100	-	-	50	250	5,000	150	600	4,000	150	600	4,000
Groundnuts	3	-	-	2	-	-	0	-	-	1	0.2	200	-	1	200
Simsim	-	-	-	1	-	-	-	-	-	0	-	-	-	-	-
Coffee	8,771	26,000	2,964	8,774	25,000	2,849	8,770	24,000	2,737	8,781	22,000	2,505	8,791	40,000	4,550
Tea	2,958	22,585	7,628	3,003	21,696	7,225	3,020	25,855	8,561	3,219	21,830	6,782	3,413	30,033	8,800

Source: District Development Plan 1997-2001, Embu

Table K.1.1.2-27 Crop Production in Mbeere

	1991			1992			1993			1994			1995		
	Area (ha)	Production (ton)	Yield (kg/ha)	Area (ha)	Production (ton)	Yield (kg/ha)	Area (ha)	Production (ton)	Yield (kg/ha)	Area (ha)	Production (ton)	Yield (kg/ha)	Area (ha)	Production (ton)	Yield (kg/ha)
Maize	28,978	26,080	900	30,846	15,423	500	31,920	15,950	500	33,540	20,124	800	32,160	32,160	1,000
Sorghum	6,594	8,572	1,300	7,913	2,374	300	16,500	9,900	600	16,800	11,760	700	16,660	10,518	631
Millet	7,791	3,896	500	2,242	2,242	1,000	6,892	1,338	200	4,410	2,646	600	4,815	3,852	800
Beans	17,922	16,130	900	14,983	14,983	1,000	15,330	7,665	500	17,142	13,714	800	17,820	14,256	800
Cow Peas	7,861	6,289	800	8,035	6,428	800	8,178	2,045	250	8,773	5,264	600	9,734	8,460	869
Pigeon Peas	4,442	3,554	800	-	-	-	3,894	3,505	900	6,353	5,082	800	4,578	2,473	540
Chick Peas	-	-	-	3,200	1,728	540	5,800	3,132	540	6,600	4,446	674	-	2,079	-
Green Grams	7,864	4,718	600	5,600	3,360	600	4,300	1,720	400	4,615	2,769	600	5,766	3,633	630
Cassava	282	3,102	11,000	446	7,582	17,000	402	4,020	10,000	510	5,100	10,000	537	4,833	9,000
Sweet Potatoes	337	2,493	7,398	446	803	1,800	552	3,312	6,000	562	5,159	9,180	657	5,256	8,000
Yams	316	3,160	10,000	316	3,160	10,000	35	140	4,000	40	320	8,000	55	385	7,000
Potatoes	388	2,307	5,946	-	-	-	420	2,940	7,000	480	4,800	10,000	550	2,750	5,000
Arrow Roots	34	272	8,000	48	552	-	52	276	5,308	54	432	8,000	60	420	7,000
Sunflower	10	-	-	5	-	-	20	27	-	55	74	1,345	100	100	1,000
Castor	100	-	-	150	-	-	200	1,000	-	250	1,150	4,600	300	1,800	6,000
Cotton	1,400	NA	-	1,300	-	-	1,750	-	-	1,395	NA	-	800	NA	-
Tobacco	NA	-	-	-	-	-	700	955	1,364	1,000	657	657	900	630	700

Source: District Development Plan 1997-2001, Mbeere

Table K.1.2-28 Crop Production in Meru

Crops	1991			1992			1993			1994			1995		
	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)
Wheat	18,000	32,650	1,814	15,500	36,250	2,339	8,900	8,811	990	12,292	27,657	2,250	13,300	35,910	2,700
Barley	2,300	4,600	2,000	4,960	8,928	1,800	1,400	1,638	1,170	2,800	1,760	529	3,305	8,924	2,700
Sunflower	90	45	500	98	39	398	208	104	500	1,254	673	537	1,468	876	598
Castor	174	230	1,322	240	315	1,313	81	53	654	15	8	533	5	3	600
Cotton	4,620	1,920	415	1,405	452	322	2,567	1,904	742	2,715	1,357	500	2,824	1,412	500
Tea	2,828	28,280	10,000	2,848	28,480	10,000	2,998	26,610	8,876	3,018	26,226	8,680	3,043	41,728	13,713
Pyrethrum	71	32	451	18	6	333	72	72	1,000	60	53	883	62	31	500
Tobacco	570	85	149	565	90	159	400	254	635	314	185	589	1,865	776	416
Coffee	14,428	77,856	5,396	14,248	73,770	5,178	17,497	26,912	1,538	17,447	38,963	2,291	17,795	38,747	2,177
Maize	21,100	20,536	973	26,500	25,486	962	34,245	36,985	1,080	34,610	59,668	1,724	34,300	61,740	1,800
Sorghum	36	19	528	10	800	80,000	4,160	2,246	540	3,365	1,817	540	4,160	2,620	630
Millet	93	558	6,000	50	500	10,000	2,411	868	360	1,460	780	534	815	513	629
Beans	10,300	12,319	1,196	25,500	14,191	557	29,372	18,504	630	45,013	23,409	520	33,850	30,465	900
Cowpeas	142	192	1,352	132	58	439	139	75	540	715	380	531	844	345	536
Pigeon Peas	908	627	691	880	593	674	730	394	540	1,575	845	537	781	576	738
Black Beans	330	188	570	170	107	629	549	1,043	1,900	1,257	678	539	611	440	720
Potatoes	8,175	160,050	19,578	11,200	149,000	13,304	9,432	74,736	7,924	14,222	112,491	79,108	13,369	133,690	10,000
Cassava	137	748	5,460	118	956	8,102	33	255	7,727	156	1,560	10,000	338	2,704	8,000
Yams	113	1,125	9,956	170	1,772	10,424	335	400	1,194	266	1,596	6,000	350	2,800	9,000
S.Potatoes	112	895	7,991	138	792	5,739	200	1,400	7,000	290	1,400	4,828	262	2,620	10,000
Arrow Roots	115	121	1,052	1,225	1,136	927	94	658	7,000	94	658	7,000	337	2,696	8,000
Groundnuts	80	480	6,000	192	730	3,802	120	1,440	12,000	1,452	1,887	1,300	1,756	2,107	1,200
Soybeans	80	71	888	30	67	2,233	360	288	800	90	90	1,000	5	12	2,400
Bananas	268	2,680	10,000	278	2,780	10,000	535	5,350	10,000	641	7,692	12,000	650	8,450	13,000
Citrus	512	8,980	17,539	420	4,225	10,060	400	3,200	8,000	401	2,807	7,000	400	2,400	6,000
Pawpaw	95	825	8,684	105	975	9,286	119	1,190	10,000	160	1,600	10,000	165	1,650	10,000
Mangoes	122	1,536	12,590	134	1,588	11,851	141	1,833	13,000	202	1,616	8,000	213	1,917	9,000
Passion Fruits	40	260	6,500	50	350	7,000	55	275	5,000	108	648	6,000	88	528	6,000
Avocado	204	1,580	7,745	235	2,748	11,694	236	3,540	15,000	286	4,575	15,997	288	4,608	16,000
Cabbage	325	3,365	10,354	250	2,445	9,780	271	1,626	6,000	519	5,190	10,000	400	4,000	10,000
Carrots	74	444	6,000	70	440	6,286	92	368	4,000	86	344	4,000	109	545	5,000
Tomatoes	204	1,164	5,706	212	1,300	6,132	112	1,680	15,000	284	1,989	7,004	300	2,400	8,000
Kales	158	854	5,405	138	754	5,464	112	224	2,000	139	278	2,000	123	246	2,000
Onions	45	334	7,422	35	245	7,000	159	636	4,000	254	1,270	5,000	200	1,600	8,000
French Beans	390	1,720	4,410	400	1,420	3,550	705	2,939	4,254	600	1,495	2,492	400	800	2,000
Garlic	35	30	857	30	25	833	175	70	400	18	72	4,000	98	686	7,000
Pineapples	-	-	-	-	-	-	2	6	3,000	2	6	3,000	2	6	3,000
Dudhi	-	-	-	-	-	-	11	45	4,091	15	54	3,600	18	162	9,000
Karela	-	-	-	-	-	-	50	198	3,960	78	287	3,679	87	609	7,000
Chillies	-	-	-	-	-	-	29	116	4,000	31	218	7,032	54	216	4,000
Eggplants	-	-	-	-	-	-	70	214	3,057	70	462	6,600	37	296	8,000
Valarie	-	-	-	-	-	-	178	714	4,011	15	76	5,067	12	48	4,000
Okra	-	-	-	-	-	-	60	240	4,000	60	516	8,600	43	366	8,512
Snowpeas	-	-	-	-	-	-	100	30	300	150	58	373	180	360	2,000

Source: District Development Plan 1997-2001, Meru

Table K.1.2-29 Crop Production in Nyeri

	1991		1992		1993		1994		1995						
	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)			
Maize	21,704	28,215	1,300	21,851	25,991	1,200	23,599	16,519	700	226,396	271,675	1,200	24,149	26,564	1,100
Beans	17,514	12,290	700	21,085	10,543	500	23,107	9,243	400	23,335	9,334	400	28,118	14,059	500
Potatoes	10,453	79,443	7,600	12,485	96,135	7,700	16,114	95,073	5,900	16,544	81,066	4,900	16,605	66,420	4,000
Cabbages	1,153	14,758	12,800	1,360	18,098	13,300	1,870	33,660	18,000	2,366	40,222	17,000	2,107	42,140	20,000
Tomatoes	609	7,917	13,000	520	6,240	12,000	590	8,024	13,600	908	13,075	14,400	957	14,738	15,400
Carrots	476	6,236	13,100	788	8,195	10,400	537	6,014	11,200	471	6,735	14,300	293	11,600	11,600
Onions	377	3,355	8,900	334	2,672	8,000	517	4,653	9,000	521	4,481	8,600	423	3,553	8,400
Coffee	12,826	22,664	1,767	11,903	20,247	1,701	11,903	20,176	1,695	11,903	20,176	1,695	-	-	2,124
Tea	5,813	27,670	4,760	5,891	28,041	4,760	6,098	25,581	4,195	6,176	19,510	3,159	-	-	3,159

Source: District Development Plan 1997-2001, Nyeri

Table K.1.2-30 Crop Production in Kirinyaga

	1991		1992		1993		1994		1995			
	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)	Area(ha)	Prod.(ton)	Yield(kg/ha)
Maize	25,988	21,960	22,260	25,112	25,596	25,000	34,588	19,984	40,681	41,465	1,620	1,620
Beans	27,333	25,642	21,115	25,276	25,731	14,291	9,815	3,801	11,374	11,579	450	450
Potatoes	1,188	980	1,241	1,088	1,675	1,571	5,292	4,466	5,876	11,725	7,000	7,000
Bananas	1,345	5,400	3,599	5,401	7,000	1,140	1,250	1,320	1,360	13,200	13,644	10,032
Tea	5,989	5,254	4,000	4,000	10,000	5,254	4,850	4,938	5,038	5,395	-	-
Coffee	1,415	1,415	1,450	1,423	1,612	47,083	54,296	34,120	63,630	36,053	22,365	22,365
Paddy	33,274	38,372	23,531	44,715	5,820	5,756	5,800	5,846	5,820	29,230	29,100	29,100
Horticulture	28,258	27,840	26,100	29,230	29,100	4,909	4,800	4,500	5,000	5,000	25,696	25,696
Oil Crops	25,996	21,966	22,210	25,112	25,696	25,000	34,588	19,984	40,681	41,465	1,614	1,614
Sorghum	27,233	26,987	21,115	25,276	25,731	14,291	9,815	3,800	11,374	11,579	450	450
	525	364	180	450	170	300	165	225	170	NA	NA	NA
	221	59	101	92	NA	737	358	449	541	-	-	-

Source: District Development Plan 1997-2001, Kirinyaga

Table K.1.2-31 Crop Production in Nyambene

	Description	1993	1994	1995
Maize	Area(ha)	29,740	33,871	50,100
	Production(bags)	297,000	474,200	1,252,500
	Yield(bags/ha)	10.0	14.0	25.0
Sorghum	Area(ha)	3,130	3,922	5,000
	Production(bags)	31,300	35,320	50,000
	Yield(bags/ha)	10.0	9.0	10.0
Millet	Area(ha)	5,620	4,641	4,500
	Production(bags)	56,200	37,200	45,000
	Yield(bags/ha)	10.0	8.0	10.0
Beans	Area(ha)	28,230	26,127	38,400
	Production(bags)	282,000	209,000	384,000
	Yield(bags/ha)	10.0	8.0	10.0
Dolicos	Area(ha)	2,050	1,757	2,500
	Production(bags)	24,000	15,000	15,000
	Yield(bags/ha)	11.7	8.5	6.0
Green Grams	Area(ha)	3,580	1,008	3,000
	Production(bags)	24,000	8,000	24,000
	Yield(bags/ha)	6.7	7.9	8.0
Pigeon Peas	Area(ha)	4,724	3,445	4,900
	Production(bags)	57,000	34,400	58,000
	Yield(bags/ha)	12.1	10.0	11.8
Cow Peas	Area(ha)	1,150	1,316	1,920
	Production(bags)	6,900	11,800	17,100
	Yield(bags/ha)	6.0	9.0	8.9
Cassava	Area(ha)	365	472	782
	Production(ton)	3,650	4,200	14,000
	Yield(ton/ha)	10.0	8.9	17.9
Sweet Potatoes	Area(ha)	200	569	997
	Production(ton)	3,800	9,600	19,900
	Yield(ton/ha)	19.0	16.9	20.0
Cotton	Area(ha)	3,722	500	2,500
	Production(ton)	1,100	150	1,000
	Yield(ton/ha)	0.3	0.3	0.4
Coffee	Area(ha)	7,362	7,362	7,362
	Production(ton)	6,700	9,600	8,400
	Yield(kg/ha)	910.1	1304.0	1141.0
Tea	Area(ha)	3,082	3,182	3,249
	Production(ton)	16,300	15,700	22,000
	Yield(ton/ha)	5.3	4.9	6.8
Miraa	Area(ha)	4,600	4,700	4,800
	Production(ton)	9,200	9,400	9,800
	Yield(ton/ha)	2.0	2.0	2.0

Source: District Development Plan 1997-2001, Nyambene

Table K.1.2-32 Farm Input Utilization

	Farm Input Utilization						(unit.%)	
	Compost	Chemical Fertilizer	Herbicides, Pesticides	Agri-Machinery	Hired Labour	Agri-Credit	Manufactured Feeds	Livestock Disinfectants
Coast								
Kilifi	-	0	2	1	17	6	-	1
Kwale	3	-	0	1	11	-	-	4
Taita-Taveta	4	0	2	-	6	0	-	10
Eastern								
Machakos	22	9	6	-	8	2	-	15
Kitui	15	2	6	2	5	-	-	5
Meru	3	21	23	0	4	-	-	8
Embu	25	26	9	2	13	2	-	8
Central								
Nyeri	36	55	34	-	8	1	-	25
Muranga	22	50	20	0	13	2	-	15
Kirinyaga	10	34	52	3	6	-	-	3
Kilambu	42	42	22	2	13	0	-	22
Nyandarua	38	43	2	4	11	1	-	32
Rift Valley								
Nakuru	9	30	3	5	7	2	-	26
Nandi	3	35	-	19	26	-	-	20
Kericho	1	24	2	14	11	0	-	26
Uasin-Gishu	17	59	1	33	21	4	-	58
Trans-Nzola	1	42	2	2	12	3	-	22
Nyanza								
South Nyanza	7	14	2	-	16	2	-	-
Kisii	7	25	4	2	12	-	-	22
Kisumu	3	3	6	8	19	5	-	4
Siaya	16	0	2	-	20	1	-	5
Western								
Kakamega	17	24	1	1	22	3	-	5
Bungoma	18	42	3	8	11	2	-	28
Busia	9	6	3	-	8	0	-	3
Average	14	26	8	5	13	2	-	14

Source: Economic Survey 1989

Table K.1.2-33 Food Availability Analysis in Nyambene

	Year	Production (1,000 bags)	Requirement (1,000 bags)	Surplus/Deficit (1,000 bags)
Maize	1993	297	782	-485
	1994	474	807	-333
	1995	1253	833	420
Sorghum	1993	31	44	-13
	1994	32	121	-89
	1995	50	132	-82
Millet	1993	10	44	-34
	1994	9	121	-112
	1995	10	132	-122
Dolikos	1993	12	19	-7
	1994	11	20	-9
	1995	21	20	1
Beans	1993	28	19	9
	1994	21	20	1
	1995	38	20	18
Green grams	1993	3	19	-16
	1994	8	20	-12
	1995	18	20	-2
Pigeon Peas	1993	57	19	38
	1994	34	20	14
	1995	58	20	38
Milk(1,000)	1993	11	48	-37
	1994	11	49	-38
	1995	12	51	-39
Cowpeas	1993	7	19	-12
	1994	12	20	-8
	1995	17	20	-3

Source: District Development Plan 1997-2001, Nyambene

Table K.1.2-34 Food Availability Analysis in Kirinyaga

	Year	Requirement (ton)	Production (ton)	Surplus/Deficit (ton)
Maize	1991	54,498	12,130	-42,368
	1992	56,308	34,588	-21,720
	1993	54,240	19,984	-34,256
	1994	55,894	48,943	-6,951
	1995	57,960	41,465	-16,495
Beans	1991	4,996	14,291	9,295
	1992	5,162	9,815	4,653
	1993	4,972	3,800	-1,172
	1994	5,224	11,374	6,150
	1995	5,313	11,579	6,266
Rice	1991	1,135	28,258	27,123
	1992	1,173	27,840	26,667
	1993	1,130	26,100	24,970
	1994	1,165	29,230	28,065
	1995	1,208	29,100	27,892
Bananas	1991	6,857	5,994	-863
	1992	7,085	5,000	-2,085
	1993	6,825	5,200	-1,625
	1994	7,033	13,200	6,167
	1995	7,293	13,640	6,347

Source: District Development Plan 1997-2001, Kirinyaga

Table K.1.2-35 Existing Industries by District

Tharaka Nithi (1996)		Nyeri (1996)	
Posho Mills	27	Coffee Factories	4
Bakery	2	Tea factories	3
Saw Mills	5	Milk Processing	2
Jiko Moulding	8	Match Box Manuf.	1
Coffee Factories	56	Furniture Works	1
Cotton Ginmery	1	Vegetable Processir	1
Honey Processing	1	Grain Mill	2
Herbal Processing	1	Cheese Making	1
Total	101	Saw Mill	1
Source: District Development Plan 1997-2001, Tharaka Nithi		Soap Products	1
		Mineral Water	1
		Othes	5
		Total	23

Table K.1.2-36 Cooperative Society (1996)

	Numer
Embu	50
Nyanbene	NA
Kirinyaga	48
Meru	66
Nyeri	53
Mbeere	very few
Tharaka Nithi	29
Source: District Develeopement Plan 1997-2001 in each district	

Table K.1.2-37 Ability of Adult Literacy Level

	Ability to Read and Write		
	Yes		Literacy Rate(%)
	Male(%)	Female(%)	
Nairobi	95.9	90.2	93.1
1. Central Province			
Kiambu	94.1	91.8	92.9
Kirinyaga	94.4	85.9	89.6
Muranga	94.7	84.2	89.1
Nyandarua	95.7	87.2	90.9
Nyeri	94.7	87.9	90.8
Sub-Total	94.6	87.9	90.9
2. Coastal Province			
Kilifi	76.9	35.0	54.3
Kwale	66.5	38.1	51.3
Lamu	83.5	51.7	66.8
Mombasa	92.7	80.6	87.1
Taita-Taveta	85.4	71.2	78.0
Tana River	62.6	34.7	47.2
Sub-Total	80.0	51.6	65.4
3. Eastern Province			
Embu	88.3	77.0	82.0
Isiolo	62.7	44.5	53.6
Kitui	76.1	58.2	66.2
Machakos	84.8	67.1	75.7
Marshabit	24.9	12.7	18.5
Meru	83.7	72.0	77.4
Makueni	84.4	69.6	77.0
Tharaka Nithi	95.0	86.0	90.5
Sub-Total	81.5	66.8	73.8
4. North Eastern Province			
Garissa	28.3	22.3	25.5
Manbera	47.6	17.5	32.9
Wajir	20.2	4.9	12.2
Sub-Total	32.6	15.1	23.9
5. Nyanza Province			
Kisii	88.5	66.5	77.2
Kisumu	85.9	66.4	75.6
Siaya	78.7	51.7	62.7
Homa Bay	77.8	57.0	65.7
Migori	82.3	57.2	68.5
Nyamira	81.4	69.6	75.4
Sub-Total	83.1	61.0	71.0
6. Rift Valley Province			
Baringo	80.7	72.3	76.7
E. Marakwet	77.9	69.7	73.8
Kajiado	64.6	50.8	57.8
Kericho	81.1	64.0	72.3
Laikipia	87.4	78.6	82.7
Nakuru	84.9	70.3	77.7
Nandi	82.4	68.4	75.3
Narok	55.2	48.0	51.3
Bomet	84.0	62.9	73.8
Samburu	28.3	15.3	21.9
Trans-Nzoia	87.4	68.9	78.6
Turkana	41.5	17.3	29.1
Uasin Gishu	84.0	77.3	80.5
West Pokot	53.5	35.5	44.4
Sub-Total	76.9	62.9	69.8
7. Western Province			
Bungoma	89.9	72.1	81.2
Busia	81.6	53.2	65.7
Kakamega	84.9	67.5	75.6
Vihiga	86.7	77.7	81.6
Sub-Total	86.4	68.8	77.0
Rural	79.8	63.2	71.0
Urban	95.1	87.4	91.3
Total	82.8	67.3	74.8

Source: Welfare Monitoring Survey II, May 1996

Table K.1.2-38 Percentage Distribution of Household Members Who Never Attended School by Reason

Number (persons)	Too Young	Child Helping at Home	School Expense too High	No School in Neighbourhood	No Room in School	Sick or Disabled	No Interest	Traditional Cultural Values		
								Others	Others	
Whole Country	4,756,950	20.0	11.6	10.3	4.2	0.2	1.6	18.5	30.2	3.4
Nairobi	91,475	18.1	7.1	8.0	-	-	6.8	8.4	45.6	5.9
Central	235,760	35.7	7.8	7.4	1.5	0.2	1.5	13.1	29.4	3.3
Coast	603,621	20.6	13.2	13.8	2.9	0.1	1.0	13.7	31.8	2.8
Eastern	800,039	20.5	8.1	10.1	3.1	0.2	1.2	9.9	43.1	3.8
North eastern	412,443	8.7	25.6	4.5	10.2	0.2	0.6	31.5	17.0	1.6
Nyanza	874,841	22.2	12.8	9.3	3.6	0.5	2.4	23.0	23.0	3.2
Rift Valley	1,291,041	18.9	9.6	6.8	5.1	0.0	1.3	19.6	35.0	3.6
Western	44,728	19.6	9.3	24.9	3.1	-	2.3	21.6	14.5	4.6
Kirinyaga	35,262	38.4	11.4	6.8	1.3	-	-	15.9	25.3	0.9
Nyeri	44,967	40.4	3.8	9.5	0.8	-	0.7	8.2	33.4	3.1
Embu	50,909	24.3	13.1	17.9	7.7	0.9	1.3	13.4	16.7	4.6
Meru	151,261	37.7	4.0	8.3	0.3	-	2.3	8.5	35.1	3.7
Tharaka Nithi	28,220	38.2	15.0	1.8	3.0	-	4.7	4.4	26.0	7.0

Source: Welfare Monitoring Survey II 1996

Table K.1.2-39 Percentage Distribution of Population in the Agriculture, Forestry and Fishery Sector, by Age Group and Gender

	Agriculture		Forestry		Fishery		
	Male	Female	Male	Female	Male	Female	
Kirinyaga	50,364	27.6	76,815	42.2	316	0.2	0.0
Nyeri	61,644	20.5	133,384	44.4	1,768	0.6	982
Embu	46,938	25.9	80,675	44.4	0.0	0.0	351
Meru	141,335	33.8	197,121	47.1	3,843	0.9	110
Tharaka Nithi	51,409	35.6	68,546	47.4	869	0.6	0.0
Source: Welfare Monitoring Survey II 1996							1,642

Table K.1.2-40 Ranking of the First Seven Major Problems Identifying by Communities by District

Mombasa District			Taita Taveta District		
	Number	%		Number	%
1. Water	54	25.8	1. Famine/drought	70	38.4
2. Unemployment	29	13.9	2. Water	49	26.9
3. Squatters/ No land	21	10.1	3. Lack of health facilities	9	4.9
4. Poor shelter	15	7.2	4. Lack of schools	8	4.4
5. Drought/famine	13	6.2	5. Poor shelter	7	3.8
6. Low income/ lack of school fees	10	4.8	6. Low income/ lack of school fees	7	3.8
7. Crime/insecurity	10	4.8	7. Unemployment	6	3.3

Makueni District			Nyeri District		
	Number	%		Number	%
1. Famine/drought	70	35.2	1. Water	45	22.3
2. Water	49	24.6	2. Famine/drought	33	16.4
3. Poor communication	22	11.1	3. Squatters/No land	24	11.9
4. Squatters/No land	14	7.0	4. Poor communication	22	10.9
5. Unemployment	9	4.5	5. Unemployment	22	10.9
6. Lack of education	7	3.5	6. Poor shelter	7	3.5
7. Low income/ lack of school fees	6	3.0	7. Poverty	6	3.0

Kajiado District			Nakuru District		
	Number	%		Number	%
1. Famine/drought	86	43.6	1. Water	86	42.8
2. Water	76	38.6	2. Unemployment	17	8.5
3. Unemployment	17	8.5	3. Famine/drought	14	7.0
4. Crime/insecurity	12	6.0	4. Low income/ lack of school fees	13	6.5
5. Poor shelter	9	4.5	5. Crime/insecurity	12	6.0
6. Lack of schools	7	3.6	6. Poor shelter	9	4.5
7. Diseases	5	2.5	7. Poor communication	8	4.0

Kisumu District		
	Number	%
1. Famine/drought	44	21.0
2. Water	38	18.1
3. Low income/ lack of schools	19	9.0
4. Unemployment	17	8.1
5. Lack of health facilities	11	5.2
6. Poor shelter	10	4.8
7. Crime /insecurity	9	4.3

* - Percentages do not add up to 100 because only 7 out of 32 problems are presented.
Source. Economic Survey 1997

Table K.1.2-41 Percentage Distribution of Households with Access to Safe Water and Main Water Sources at Present (unit:%)

	Access to Safe Water	Main Water Source										
		Piped Water	River	Lake/Pond & Dam	Roof Catchment	Protected Spring	Unprotected Spring	Protected Well	Unprotected Well	Borehole	Others	
Nairobi	96.2	95.6	2.6	-	-	-	-	-	0.5	-	-	1.2
Central	45.5	36.2	35.3	0.9	3.8	1.8	5.3	3.7	3.2	7.0	2.7	
Kiambu	43.6	34.5	32.9	0.6	2.8	0.7	2.8	5.7	2.5	16.4	1.1	
Kirinyaga	30.4	25.3	55.0	-	-	0.5	1.8	4.6	0.4	1.2	11.3	
Muranga	39.9	29.7	37.1	-	2.7	6.0	12.6	1.6	7.4	1.5	1.5	
Nyandarua	56.1	39.0	20.8	6.7	9.1	1.1	4.8	6.9	3.6	6.9	1.1	
Nyeri	59.9	52.7	32.1	0.3	6.4	-	3.1	0.8	0.9	1.2	2.6	
Coast	59.2	56.2	11.6	12.4	0.1	0.3	0.7	2.5	5.2	8.6	2.2	
Kilifi	57.4	55.2	9.2	11.6	-	-	-	2.2	12.1	9.8	-	
Kwale	22.5	20.5	5.6	44.1	0.6	-	-	1.4	3.7	24.0	-	
Lamu	60.8	19.2	-	2.0	-	3.3	0.6	38.2	24.4	-	12.2	
Mombasa	94.3	94.3	-	-	-	-	-	-	-	1.1	4.6	
Taita-taveta	55.4	54.3	31.6	-	-	1.1	5.8	-	0.4	6.7	-	
Tana River	23.0	19.6	63.2	6.1	-	0.8	-	2.7	1.3	-	6.4	
Eastern	35.1	29.3	37.4	4.6	0.5	2.1	8.1	3.2	9.2	4.0	1.4	
Embu	45.6	40.8	20.4	9.1	1.0	3.1	5.9	0.6	10.3	8.3	0.3	
Isiolo	55.4	50.5	41.0	-	0.9	0.9	1.3	3.0	0.9	0.6	0.8	
Kitui	16.9	5.3	68.5	8.5	0.3	1.2	0.5	10.1	3.2	0.9	1.5	
Machakos	29.4	23.2	34.1	3.3	0.3	4.2	0.9	1.6	9.3	9.6	3.4	
Marsabit	38.1	22.3	0.5	16.3	-	0.3	5.2	15.5	15.8	21.5	2.6	
Meru	62.5	59.8	14.9	0.3	0.2	2.1	15.6	0.4	6.7	-	-	
Makueni	16.7	14.9	54.7	5.6	1.3	0.5	9.4	0.0	11.5	1.2	1.1	
Tharaka Nithi	32.2	26.6	38.2	-	-	1.9	3.9	3.7	23.3	1.5	0.8	
North Eastern	16.9	12.7	13.5	33.8	-	0.7	3.9	3.4	15.7	13.9	2.3	
Garissa	31.8	29.7	10.9	25.3	-	1.6	9.9	0.6	9.3	6.4	6.3	
Mandera	8.2	6.5	28.5	38.0	-	-	1.5	1.7	14.1	9.6	0.2	
Wajir	9.4	1.0	2.8	38.6	-	0.5	-	8.0	23.7	25.5	-	
Nyanza	28.1	9.2	24.8	10.2	3.0	10.1	22.2	5.8	9.3	5.1	0.3	
Kisii	31.5	3.3	17.7	-	1.1	25.4	49.6	1.7	1	-	0.2	
Kisumu	42.7	31.1	37.6	2.7	0.5	0.6	3.7	10.4	6.8	5.4	1.1	
Siaya	29.7	1.5	7.1	27.5	3.6	16.8	13.7	7.8	10.2	11.8	-	
Homa Bay	18.8	8.0	33.5	22.0	7.9	-	3.6	2.8	15	7.3	-	
Migori	5.5	2.5	44.0	2.6	2.5	0.4	24.8	-	21.5	1.2	0.5	
Nyamira	39.0	4.5	3.6	-	1.0	19.5	52.5	14.9	0.9	3.1	-	
Rift Valley	41.6	25.0	32.4	4.1	7.0	2.6	9.9	6.9	6.1	3.9	1.9	
Kajiado	63.1	60.1	11.4	6.8	0.5	2.1	1.3	0.4	5.7	9.8	1.8	
Kericho	32.0	15.7	57.4	1.0	3.4	5.6	3.9	7.2	1.9	3.1	0.8	
Laikipia	29.0	26.4	33.8	18.6	1.8	-	2.3	0.8	15.7	0.3	0.4	
Nakuru	71.4	44.8	21.1	2.4	21.9	0.7	0.8	4.0	0.5	3.1	0.6	
Nandi	32.5	18.4	28.4	-	1.2	8.8	31.0	4.1	3.6	4.3	0.3	
Narok	24.9	10.5	38.4	12.7	4.2	5.7	15.1	4.6	3.3	1.0	4.6	
Bomet	28.3	13.1	23.6	6.8	11.7	1.5	30.3	2.0	3.1	1.3	6.6	
Baringo	22.8	8.1	51.2	9.2	9.4	4.6	13.5	0.7	0.6	1.8	0.8	
Elgeyo-Marakwet	21.0	12.0	58.0	-	-	0.7	16.6	8.3	1.2	2.4	0.8	
Samburu	38.0	37.1	30.5	5.9	0.9	-	5.0	-	10.6	5.4	4.5	
Trans-Nzoia	24.9	14.5	28.1	0.8	1.1	0.3	4.6	9.0	20.8	14.7	6.0	
Turkana	46.8	34.6	7.9	0.5	0.0	3.0	2.4	9.2	29.8	12.5	-	
Uasin-Gishu	57.8	23.1	21.2	0.3	0.2	0.5	2.9	34.0	16.3	0.6	0.9	
West Pokot	6.0	3.5	63.1	0.2	0.6	1.7	28.7	-	-	1.3	0.6	
Western	42.9	14.0	9.1	0.0	4.3	14.1	17.0	10.6	9.4	18.1	3.5	
Bungoma	41.9	26.6	7.8	-	0.4	9.6	14.1	5.4	3.8	23.6	8.8	
Busia	27.1	3.8	5.6	0.3	0.2	13.9	17.6	9.2	9.5	39.5	0.4	
Kakamega	60.5	13.2	8.2	-	4.8	11.8	25.4	10.6	8.8	15.1	2.0	
Vihiga	60.1	7.3	15.0	-	11.2	23.9	5.2	18.1	17.4	-	2.0	
Rural	32.5	17.3	30.5	6.6	3.9	5.6	12.6	5.8	8.2	7.7	1.9	
Urban	93.3	90.2	3.1	0.0	0.3	0.4	0.7	2.3	0.7	0.7	1.4	
Total	44.9	32.1	24.9	5.3	3.2	4.5	10.2	5.1	8.7	6.3	1.8	

Source: Welfare Monitoring Survey II 1996

Table K.1.2-42 Percentage Distribution of Households by Time Taken to Collect Water in Wet Seasons by District

	(unit:%)							
	less than 5 min.	6-15 min.	16-30 min.	31-45 min.	46-60 min.	61-90 min.	91-120 min.	above 121 min.
Nairobi	84.8	13.1	2.1	-	-	-	-	-
Central	43.8	17.1	29.0	4.2	3.3	1.2	0.9	0.4
Kiambu	44.1	15.3	30.7	1.1	2.5	2.2	2.6	1.3
Kirinyaga	28.4	20.3	36.2	7.2	7.6	0.3	-	-
Muranga	38.2	19.7	35.1	4.3	1.7	1.1	-	-
Nyandarua	52.2	15.5	23.4	3.6	4.4	0.6	0.3	-
Nyeri	55.6	15.8	16.6	8.0	3.6	0.4	-	-
Coast	38.1	22.5	24.6	3.7	7.0	0.6	2.5	0.9
Kilifi	25.9	28.3	24.3	8.7	7.7	0.4	3.6	1.1
Kwale	16.9	29.7	42.8	3.4	6.7	0.5	-	-
Lamu	50.6	22.0	14.2	2.7	4.9	4.9	0.6	-
Mombasa	69.8	10.6	13.6	-	2.4	-	3.5	-
Taita-taveta	28.1	31.2	25.6	3.6	10.4	1.1	-	-
Tana River	21.6	14.5	25.2	0.5	21.3	1.2	6.4	9.2
Eastern	19.8	23.7	30.1	6.6	12.4	1.9	3.8	1.6
Embu	39.9	17.4	29.2	4.3	6.5	0.3	1.5	0.8
Isiolo	45.2	14.2	24.4	1.9	9.4	4.0	0.9	-
Kitui	12.4	18.8	36.6	7.0	18.0	1.7	3.4	2.2
Machakos	21.0	30.8	25.8	9.3	8.5	1.6	2.4	0.5
Marsabit	7.4	3.0	43.8	8.4	12.6	0.1	11.5	13.3
Meru	22.4	25.7	26.1	8.4	10.8	0.5	4.9	1.1
Makueni	14.3	25.4	28.0	3.4	15.5	4.7	6.5	2.0
Tharaka Nithi	11.3	24.4	41.4	2.9	16.3	3.7	-	-
North Eastern	15.8	13.9	29.0	4.7	11.3	1.8	4.2	19.2
Garissa	33.6	7.3	35.6	3.2	6.3	4.8	1.4	7.8
Mandera	8.8	16.6	25.2	3.8	24.5	-	4.1	17.1
Wajir	3.9	18.3	25.9	7.1	4.6	0.4	7.2	32.7
Nyanza	22.8	25.1	34.6	7.1	7.3	2.3	0.5	0.1
Kisii	11.6	24.1	41.8	6.5	8.2	7.1	0.6	-
Kisumu	44.3	27.5	17.6	7.2	3.2	0.2	-	-
Siaya	12.6	23.5	40.2	6.4	13.9	2.2	0.9	0.3
Homa Bay	28.5	24.6	28.4	8.0	8.5	1.5	0.5	-
Migori	22.6	28.5	40.1	5.4	2.8	-	-	0.5
Nyamira	11.5	21.7	47.1	10.0	6.5	2.0	1.3	-
Rift Valley	31.6	23.9	29.2	4.7	7.0	1.8	1.4	0.4
Kajiado	34.3	19.2	25.5	4.3	9.6	2.0	2.2	2.9
Kericho	31.4	30.2	24.7	2.4	7.6	-	3.7	-
Laikipia	24.8	23.0	35.4	10.7	6.0	0.3	-	-
Nakuru	53.4	21.4	18.9	1.2	2.5	2.6	-	-
Nandi	24.0	41.2	29.5	2.3	3.1	-	-	-
Narok	22.2	11.7	37.3	8.7	14.9	3.7	1.6	-
Bomet	34.3	11.7	36.3	5.6	6.8	0.8	4.6	-
Baringo	22.5	21.8	36.6	9.1	7.2	-	2.9	-
Elgeyo-Marakwet	15.9	26.6	43.3	3.7	8.2	1.0	0.9	0.5
Samburu	4.8	16.4	28.7	7.8	34.3	7.4	0.7	-
Trans-Nzoia	30.0	37.5	25.3	2.4	4.0	0.7	-	-
Turkana	11.6	21.1	39.5	6.8	10.8	7.8	2.3	0.2
Uasin-Gishu	32.2	22.9	29.2	7.2	5.5	1.9	0.6	0.6
West Pokot	6.6	23.7	40.8	8.9	9.1	4.1	3.7	3.0
Western	19.8	25.9	37.3	7.7	6.1	2.2	0.9	0.1
Bungoma	13.8	28.0	35.6	12.7	7.2	1.1	1.8	-
Busia	8.2	20.9	44.9	8.2	15.2	1.0	1.2	0.4
Kakamega	24.8	29.6	37.8	4.0	3.3	0.8	-	-
Vihiga	28.1	20.3	32.6	7.8	2.8	7.3	1.1	-
Rural	22.8	23.8	34.0	6.4	8.2	2.0	1.8	1.1
Urban	77.0	15.0	5.8	0.3	1.0	0.1	0.5	0.2
Total	33.9	22.0	28.2	5.1	6.8	1.6	1.5	0.9

Source: Welfare Monitoring Survey II 1996

Table K.1.2-43 Percentage Distribution of Households by Time Taken to Collect Water in Dry Seasons by District

	(unit%)							
	less than 5 min.	6-15 min.	16-30 min.	31-45 min.	46-60 min.	61-90 min.	91-120 min.	above 121 min.
Nairobi	83.2	10.8	5.4	-	0.6	-	-	-
Central	34.8	18.0	34.1	5.2	4.6	1.6	0.8	0.9
Kiambu	37.0	14.9	35.2	2.5	3.3	2.2	2.4	2.6
Kirinyaga	26.2	22.0	36.7	8.6	6.2	0.4	-	-
Muranga	27.2	21.0	44.3	4.1	3.2	0.3	-	-
Nyandarua	40.8	15.1	24.9	4.3	8.6	6.3	-	-
Nyeri	42.6	18.6	22.9	9.9	5.6	0.4	-	-
Coast	33.4	17.1	17.5	6.0	8.3	1.1	6.4	10.2
Kilifi	21.3	19.1	19.0	4.1	8.2	1.1	8.1	19.0
Kwale	13.6	21.2	17.1	3.9	10.8	0.7	12.3	20.5
Lamu	48.8	20.1	14.3	1.8	5.8	8.6	0.6	-
Mombasa	61.6	8.8	12.3	11.2	2.2	0.4	3.5	-
Taita-taveta	26.6	27.5	27.6	5.0	12.3	1.1	-	-
Tana River	20.8	12.7	18.7	0.5	23.1	1.2	10.6	12.3
Eastern	13.8	19.8	21.5	6.0	14.6	5.1	8.6	10.6
Embu	33.1	14.7	22.8	5.5	9.2	1.7	6.0	7.1
Isiolo	41.8	17.6	23.1	3.2	9.4	4.0	0.9	-
Kitui	4.0	5.4	16.8	8.1	24.8	5.4	19.3	16.3
Machakos	15.8	28.1	20.8	6.3	14.1	9.1	3.7	2.1
Marsabit	2.5	6.0	11.8	1.0	17.1	-	15.7	45.8
Meru	18.8	24.4	18.9	5.1	9.5	2.6	8.7	12.0
Makueni	4.3	23.0	23.1	8.0	11.7	7.3	8.0	14.7
Tharaka Nithi	9.7	25.3	39.7	2.9	18.7	3.7	-	-
North Eastern	17.7	8.6	18.4	6.3	8.2	3.0	4.7	33.1
Garissa	34.0	7.5	26.8	4.4	10.0	6.1	2.4	8.9
Mandera	14.5	6.6	10.5	7.3	10.5	0.3	6.3	44.0
Wajir	3.9	11.5	17.0	7.5	4.4	2.3	5.5	47.9
Nyanza	16.5	21.3	29.5	8.3	10.2	4.5	3.8	6.0
Kisii	12.0	19.7	33.5	8.5	12.9	12.7	0.6	-
Kisumu	38.8	23.2	21.6	10.0	3.5	1.8	0.9	0.2
Siaya	9.9	17.2	33.1	8.1	13.3	2.7	4.1	11.6
Homa Bay	13.8	22.4	29.8	6.5	8.8	-	8.4	10.3
Migori	7.8	28.2	28.6	5.6	7.2	7.1	5.8	9.8
Nyamira	12.5	16.4	30.4	12.0	18.6	2.1	3.5	4.5
Rift Valley	22.5	20.3	28.3	4.9	10.9	4.0	4.6	4.5
Kajiado	32.2	15.0	23.2	5.3	10.5	2.5	5.6	5.7
Kericho	27.0	23.6	24.9	3.2	12.2	0.9	3.3	4.9
Laikipia	21.5	19.8	33.9	10.9	11.8	2.2	-	-
Nakuru	27.4	16.9	27.2	0.9	5.0	3.2	9.3	9.9
Nandi	22.6	41.4	29.2	3.0	3.8	0.0	-	-
Narok	14.5	5.3	30.4	10.1	20.1	8.0	5.2	6.4
Bomet	20.8	8.2	34.9	6.8	19.1	2.6	6.0	1.6
Baringo	7.5	9.4	30.1	9.5	20.8	8.8	8.9	5.0
Elgeyo-Marakwet	13.7	27.6	38.1	2.8	11.8	2.0	2.9	1.2
Samburu	5.1	15.1	22.4	7.4	38.9	9.6	1.5	-
Trans-Nzoia	29.2	38.5	25.8	2.1	4.0	0.4	-	-
Turkana	11.0	20.8	25.8	15.9	12.0	9.9	2.4	2.2
Uasin-Gishu	32.1	21.5	22.2	4.9	5.5	8.5	2.0	3.4
West Pokot	3.3	21.3	39.1	7.1	13.5	5.1	5.3	4.8
Western	14.0	23.4	35.1	9.6	10.5	3.5	2.5	1.3
Bungoma	11.7	24.6	34.0	13.1	11.6	1.8	2.7	0.5
Busia	4.7	13.3	37.0	8.7	18.0	8.3	6.2	5.8
Kakamega	23.9	30.3	34.4	7.3	3.5	0.8	-	-
Vihiga	6.7	17.6	36.5	9.7	15.8	8.5	4.1	1.2
Rural	15.5	20.4	30.2	6.9	11.2	4.0	5.0	6.8
Urban	73.6	13.5	8.4	1.8	1.5	0.1	0.6	0.4
Total	27.4	19.0	25.8	5.9	9.2	3.2	4.1	5.5

Source: Welfare Monitoring Survey II 1996

Table K.1.2-44 Percentage Distribution of Households by Main Source of Cooking Fuel

	Firewood		Charcoal	Parafin	Gas	(unit:%)		
	Collected	Purchased				Electricity (mains)	Electricity (generator)	Others
Nairobi	3.6	2.9	12.3	65.6	9.7	6.0	-	-
Central	56.1	24.0	9.1	8.7	1.3	0.4	-	0.4
Kiambu	42.8	24.0	11.7	16.8	2.7	0.7	-	1.2
Kirinyaga	65.7	23.8	3.9	5.0	1.1	0.5	-	-
Muranga	63.8	30.1	1.6	4.6	-	-	-	-
Nyandarua	65.8	18.7	13.0	2.1	-	0.4	-	-
Nyeri	59.1	19.1	15.1	5.3	1.2	-	-	0.2
Coast	56.8	4.6	15.9	19.1	2.0	1.1	-	0.4
Kilifi	79.9	3.5	5.6	10.1	0.3	0.6	-	-
Kwale	82.3	4.7	9.5	3.6	-	-	-	-
Lamu	54.9	5.0	26.6	5.4	8.0	-	-	-
Mombasa	8.1	3.3	28.8	49.8	5.5	3.1	-	1.4
Taita-taveta	71.9	10.3	15.4	2.4	-	-	-	-
Tana River	76.2	4.4	16.3	3.0	-	-	-	-
Eastern	85.3	6.2	4.9	2.4	0.3	0.8	0.0	-
Embu	77.8	6.5	7.0	7.1	1.5	-	-	-
Isiolo	68.5	1.7	26.9	2.9	-	-	-	-
Kitui	87.1	3.5	3.6	3.7	-	2.1	-	-
Machakos	78.0	8.4	8.8	2.7	0.2	1.9	-	-
Marsabit	90.7	5.5	2.4	0.9	-	-	0.5	-
Meru	83.0	12.3	2.9	1.0	0.7	0.1	-	-
Makueni	96.2	0.4	2.6	0.8	-	-	-	-
Tharaka Nithi	96.6	2.5	0.9	-	-	-	-	-
North Eastern	76.4	8.4	10.0	2.9	0.3	1.3	0.7	0.0
Garissa	65.3	4.9	21.8	7.0	0.9	-	-	0.1
Mandera	82.3	4.7	6.5	-	-	4.3	2.2	-
Wajir	82.3	15.4	1.2	1.2	-	-	-	-
Nyanza	79.1	9.9	6.7	3.5	0.6	0.2	-	0.1
Kisii	76.6	13.7	4.5	4.1	0.9	-	-	0.2
Kisumu	62.8	10.0	19.3	6.7	0.6	0.2	-	0.5
Siaya	83.5	12.1	3.2	0.7	-	0.4	-	-
Homa Bay	85.0	6.0	4.3	4.2	0.6	-	-	-
Migori	92.2	1.8	4.1	1.3	0.6	-	-	-
Nyamira	77.0	16.9	1.8	2.8	0.8	0.8	-	-
Rift Valley	70.5	10.0	12.0	6.6	0.4	0.4	0.0	0.1
Kajiado	55.4	4.1	12.2	26.1	0.8	1.3	-	-
Kericho	88.9	7.4	3.7	-	-	-	-	-
Laikipia	70.5	7.8	17.2	3.1	0.8	0.4	-	0.2
Nakuru	46.5	19.9	20.7	12.2	0.3	0.5	-	-
Nandi	86.2	4.6	7.1	1.4	0.4	0.4	-	-
Narok	87.6	0.4	5.0	5.6	-	1.4	-	-
Bomet	91.2	6.6	1.5	0.7	-	-	-	-
Baringo	84.5	4.7	8.1	2.2	-	0.5	-	-
Elgeyo-Marakwet	94.1	1.3	1.8	1.9	0.3	0.6	-	-
Samburu	85.5	0.7	8.3	5.1	0.4	-	-	-
Trans-Nzoia	65.1	13.3	10.5	10.2	0.9	-	-	-
Turkana	83.5	4.8	9.1	-	-	-	1.5	1.0
Uasin-Gishu	39.8	22.6	29.2	7.0	1.1	0.3	-	-
West Pokot	89.7	1.1	7.1	0.6	-	-	-	1.5
Western	83.4	6.8	5.4	3.6	0.3	0.4	-	0.1
Bungoma	80.0	3.9	7.7	7.3	0.7	0.3	-	-
Busia	92.7	1.6	3.7	1.1	-	0.4	-	0.5
Kakamega	84.9	3.0	7.7	4.1	0.3	-	-	-
Vihiga	77.8	21.1	-	-	-	1.1	-	-
Rural	82.0	11.5	3.8	2.2	0.2	0.3	0.0	0.1
Urban	5.4	3.5	30.3	49.7	6.8	4.0	0.1	0.2
Total	66.4	9.8	9.2	11.9	1.5	1.0	0.0	0.2

Source: Welfare Monitoring Survey II 1996

Table K.1.2-45 Percentage Distribution of Households by Time Taken to Collect Firewood by District

(unit:%)

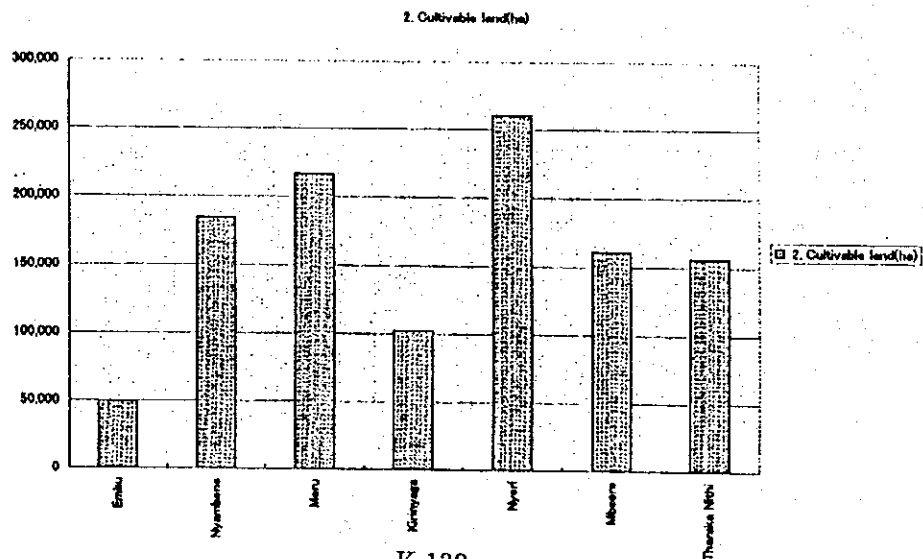
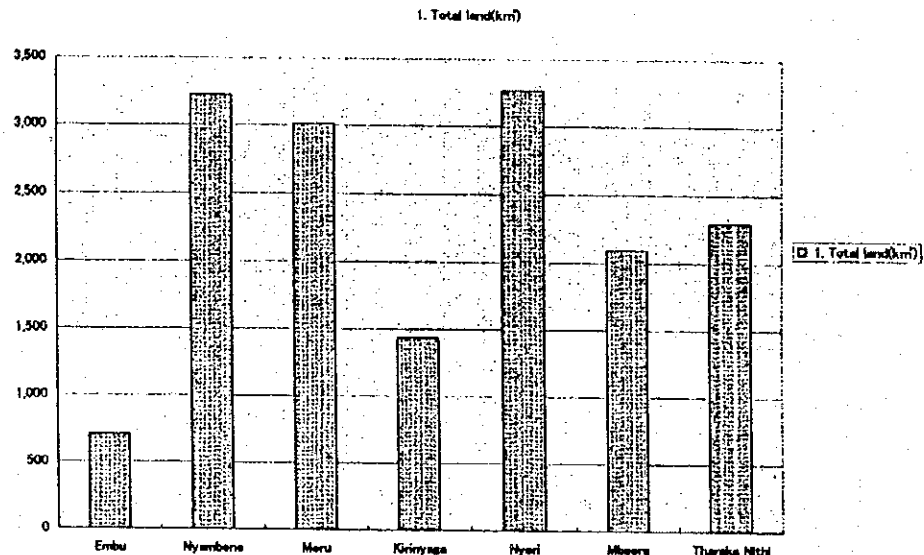
	less than 5 min.	6-15 min.	16-30 min.	31-45 min.	46-60 min.	61-90 min.	91-120 min.	above 120 min.
Nairobi	92.8	1.2	1.3	-	2.7	-	0.7	1.2
Central	26.8	9.7	22.2	5.6	15.9	2.3	7.4	10.0
Kiambu	35.5	5.4	18.9	6.0	11.0	1.0	8.8	13.3
Kirinyaga	21.0	8.0	34.1	2.9	17.3	2.2	8.7	5.6
Muranga	19.8	19.4	25.6	3.3	13.8	1.9	6.7	9.7
Nyandarua	22.9	9.0	16.7	6.4	21.5	2.9	6.3	14.3
Nyeri	25.4	6.9	18.9	9.3	23.4	5.0	5.7	5.5
Coast	40.7	6.9	17.1	5.8	12.3	2.9	5.6	8.7
Kilifi	15.7	15.4	26.6	10.4	16.4	2.4	3.5	9.5
Kwale	16.1	2.3	29.7	12.3	21.6	5.8	9.6	2.5
Lamu	43.1	8.7	15.7	2.6	10.8	0.5	10.2	8.3
Mombasa	90.9	1.2	3.1	-	2.0	0.7	-	2.0
Taita-taveta	25.5	11.7	14.9	3.1	16.7	5.9	11.4	10.8
Tana River	19.7	-	6.9	-	5.9	1.1	14.5	51.9
Eastern	12.3	10.3	23.4	7.1	19.1	6.2	11.6	10.1
Embu	19.2	12.2	23.5	8.7	19.3	1.1	8.5	7.3
Isiolo	31.2	2.0	10.7	5.5	11.5	6.7	9.0	23.4
Kitui	14.7	10.0	35.7	8.1	15.4	2.1	8.0	6.0
Machakos	17.4	15.3	13.8	6.6	15.1	10.2	16.9	4.7
Marsabit	7.4	3.2	27.7	4.3	17.1	0.9	13.9	25.6
Meru	9.9	12.1	18.0	4.5	16.7	6.2	13.5	19.0
Makueni	5.5	4.6	22.4	12.0	30.4	10.8	8.0	6.3
Tharaka Nithi	2.2	6.6	37.8	3.7	25.6	4.4	10.6	9.1
North Eastern	22.6	21.2	15.7	3.0	10.9	5.5	8.9	12.2
Garissa	36.2	7.1	16.9	3.3	10.1	11.2	5.5	9.7
Mandera	18.3	34.2	18.5	2.4	18.0	1.2	5.2	6.1
Wajir	12.6	23.7	1.7	3.3	7.0	3.6	15.7	20.4
Nyanza	22.4	10.9	24.1	10.5	15.4	4.0	7.8	4.8
Kisii	19.4	6.5	20.5	17.2	24.6	7.7	2.7	1.4
Kisumu	50.0	15.2	16.5	4.0	4.5	2.2	2.4	5.1
Siaya	8.5	7.6	23.5	7.9	22.5	5.3	19.5	5.1
Homa Bay	15.0	12.5	29.5	12.5	13.8	3.4	10.8	2.6
Migori	11.1	14.0	30.1	13.7	14.8	1.6	4.1	10.6
Nyamira	30.9	10.1	28.3	6.7	9.6	2.6	5.4	6.5
Rift Valley	23.6	6.7	17.7	6.2	18.3	5.0	12.2	10.3
Kajiado	44.9	6.5	12.8	1.2	15.9	0.7	7.7	10.4
Kericho	14.0	10.9	23.2	6.2	26.0	1.1	11.7	6.8
Laikipia	19.8	5.0	27.4	15.7	22.2	2.1	3.6	4.1
Nakuru	41.7	2.5	15.0	5.0	8.6	2.1	8.9	16.1
Nandi	9.7	2.5	11.8	5.7	25.4	10.0	19.8	15.2
Narok	11.1	20.7	12.8	4.6	27.8	15.5	3.6	3.9
Bomet	5.1	1.7	31.4	14.2	19.2	7.3	11.0	10.0
Baringo	18.7	12.2	29.6	12.6	12.6	3.0	9.4	1.9
Elgeyo-Marakwet	5.1	1.4	14.1	5.1	26.1	6.0	26.5	15.8
Samburu	14.6	0.4	5.8	7.8	10.9	1.8	42.4	16.3
Trans-Nzoia	26.0	10.8	13.5	1.4	24.1	5.7	13.4	5.2
Turkana	11.3	18.4	7.8	8.8	19.2	8.0	6.3	20.1
Uasin-Gishu	40.0	0.9	15.3	3.8	11.7	4.9	15.9	7.6
West Pokot	6.5	9.4	25.2	5.5	23.8	5.8	13.8	9.9
Western	12.7	7.2	24.7	10.5	22.0	5.0	10.7	7.2
Bungoma	15.5	13.1	31.4	10.8	16.6	5.4	5.6	1.5
Busia	5.2	3.8	11.1	9.4	36.6	5.9	17.8	10.2
Kakamega	14.5	6.4	27.9	12.2	19.1	2.7	7.7	9.6
Vihiga	11.8	3.9	21.3	7.9	22.6	8.0	16.7	7.8
Rural	12.9	10.0	23.7	8.5	19.4	5.0	10.9	9.5
Urban	90.9	1.5	2.6	0.2	2.2	0.1	0.7	1.8
Total	28.8	8.3	19.4	6.8	15.9	4.0	8.8	8.0

Source: Welfare Monitoring Survey II 1996

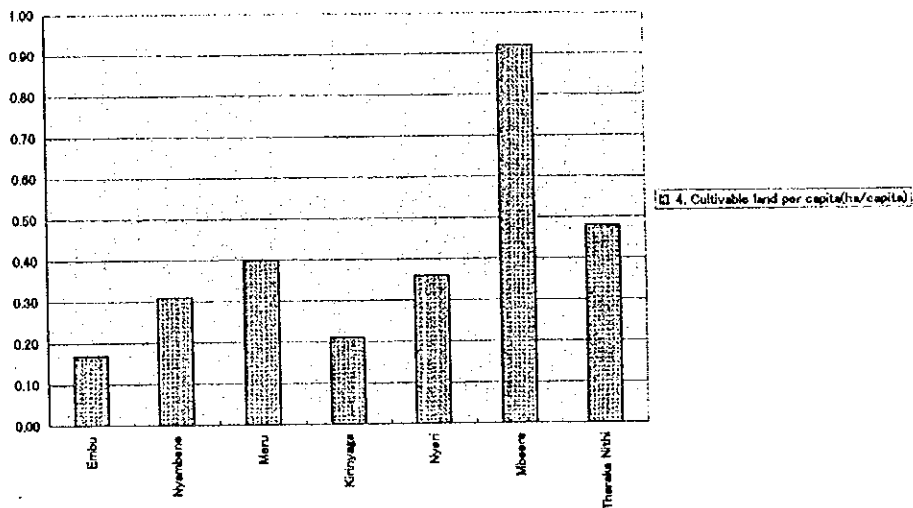
Table K.1.2-46 Agricultural Characteristics of the Seven Districts

	Embu	Nyambene	Meru	Kirinyaga	Nyeri	Mbeere	Tharaka Nithi
1. Total land(km ²)	708	3,224	3,012	1,437	3,266	2,097	2,295
2. Cultivable land(ha)	49,600	184,200	216,500	102,500	260,550	161,029	156,100
3. Irrigable area(ha)	85	536	6,319	6,955	1,747	1,791	315
4. Cultivable land per capita(ha/capita)	0.17	0.31	0.40	0.21	0.36	0.92	0.48
5. Total planted area(ha)	161,987	126,129	138,337	85,366	87,822	95,492	108,150
6. Population(1997)	298,342	591,760	540,166	492,942	729,595	175,219	325,770
7. Population density(pers/km ²)	132	143	116	264	186	89	112
8. Aged 15-50 population/total population	126,411	245,246	302,614	216,883	317,111	74,243	135,025
9. Total agricultural income of district(1,000Ksh)	1,874,533	1,146,166	1,671,685	2,400,135	8,133,400	832,400	659,329
9.1 Crop income(1,000Ksh)	1,759,900	1,134,457	1,224,913	1,912,520	3,674,000	599,900	528,663
9.2 Livestock income(1,000Ksh)	114,633	11,711	446,772	487,615	4,459,400	232,500	130,666
10. Agricultural income per capita(ksh)	6,283	1,937	3,095	4,869	11,148	4,751	2,024
11. Planted area with export-oriented horti.crops	817	440	1,189	1,396	635	550	56
12. Planted area with horti.crops(ha)	9,906	5,421	17,192	6,910	22,306	0	58
13. Maize production(ton)	62,712	112,725	61,740	41,465	26,028	32,160	21,600
14. No. of farm households	61,014	107,200	92,000	82,012	93,543	22,996	45,000
15. Farm size(ha/farm household)	4.44	3.30	3.97	1.86	1.80	6.00	6.05
16. Family size(person/family)	6.00	5.52	6.00	5.10	5.30	5.50	6.20
17. Maize per capita(kg/capita/year)	210	190	114	84	36	184	66
18. Ratio of female headed households(%)	24.9	NA	16.3	23.6	27.8	NA	5.0

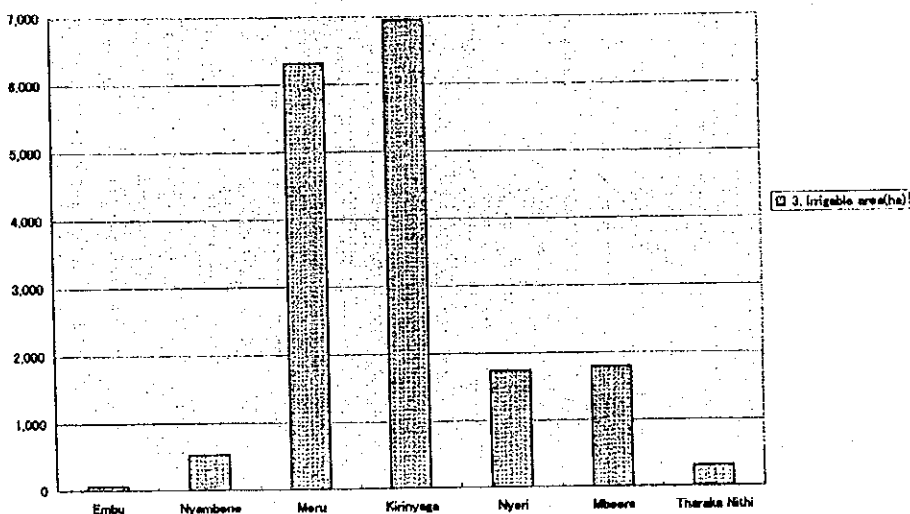
Note: Horticulture crops cover export-oriented crops, potatoes, bananas, and fruits and other vegetable'



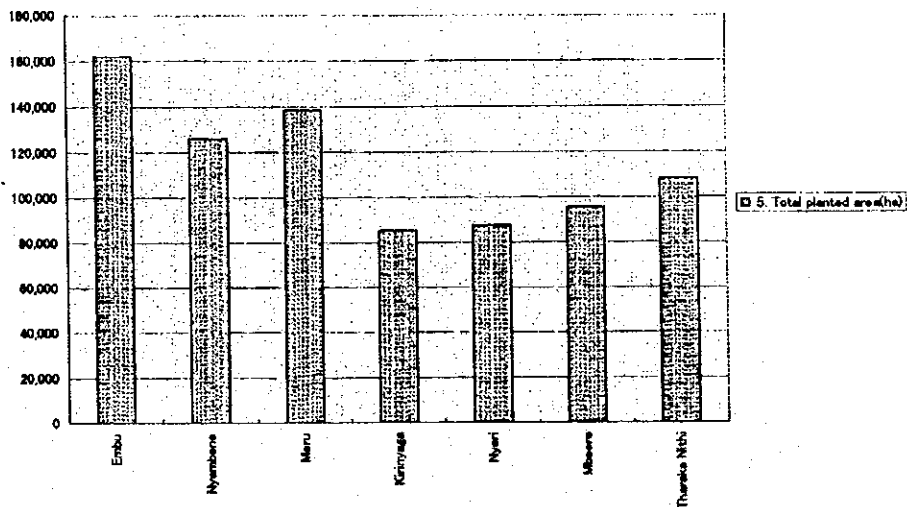
4. Cultivable land per capita (ha/capita)



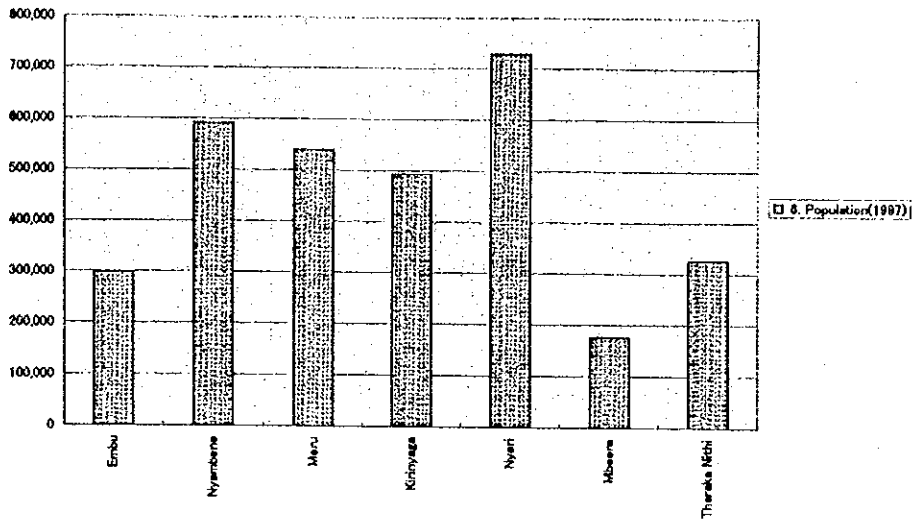
3. Irrigable area (ha)



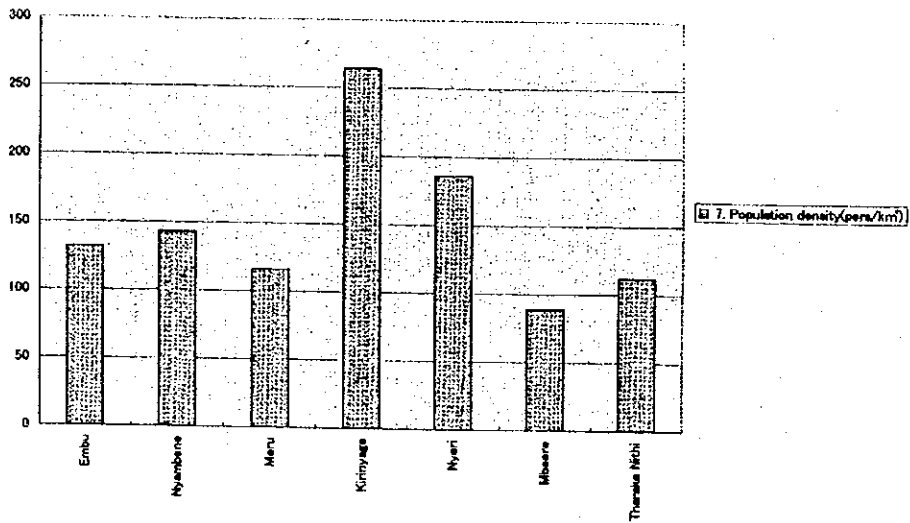
5. Total planted area (ha)



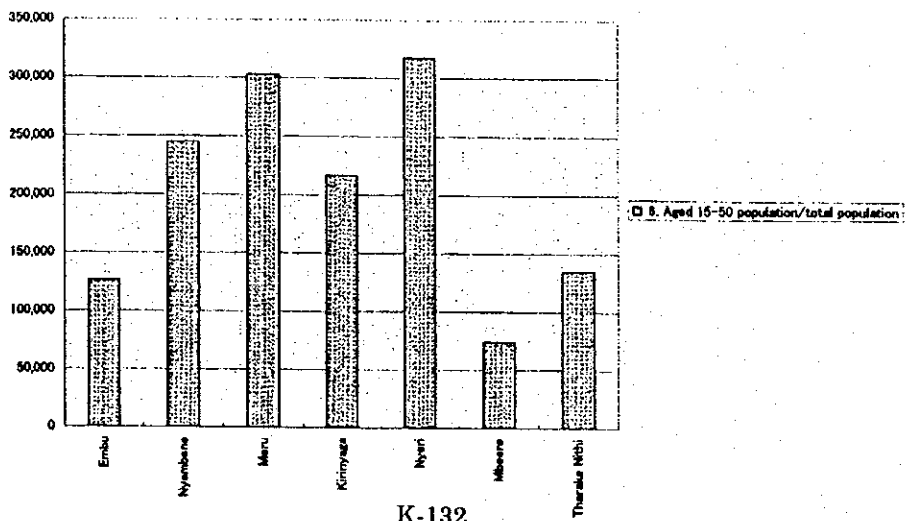
6. Population(1997)



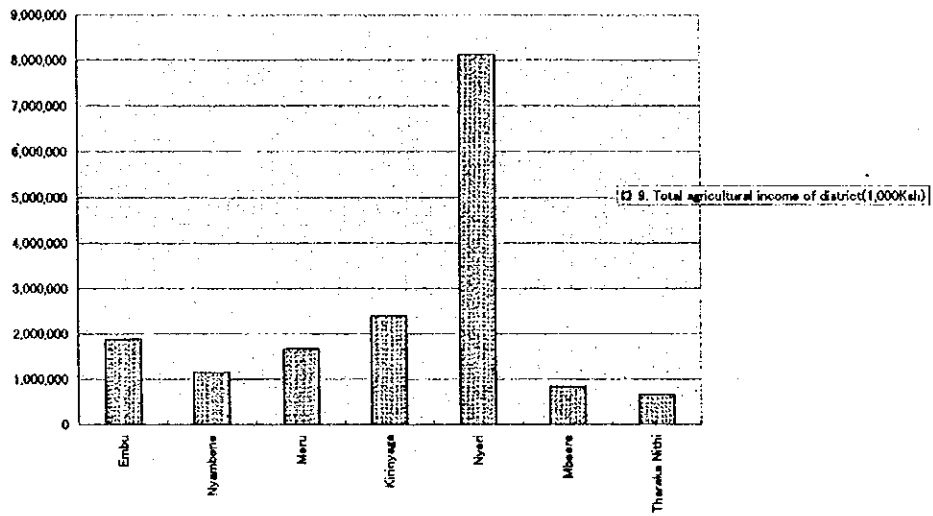
7. Population density(per/km²)



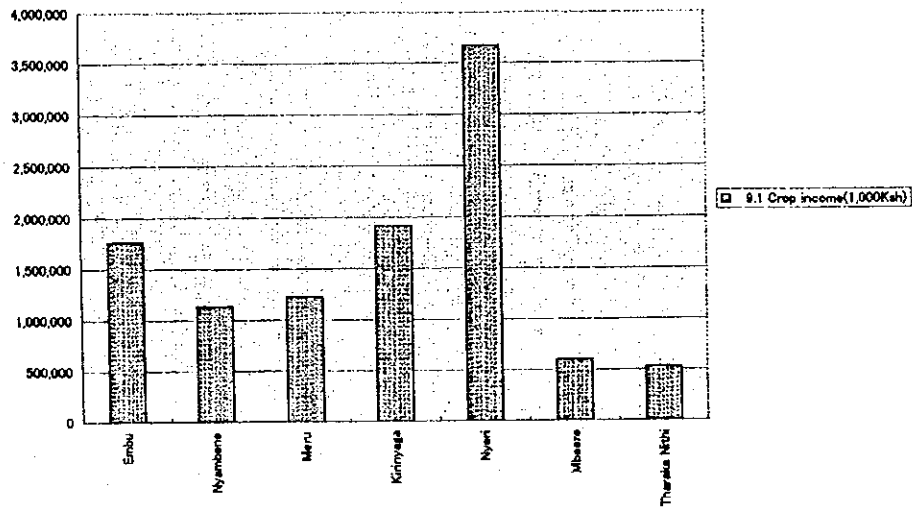
8. Aged 15-50 population/total population



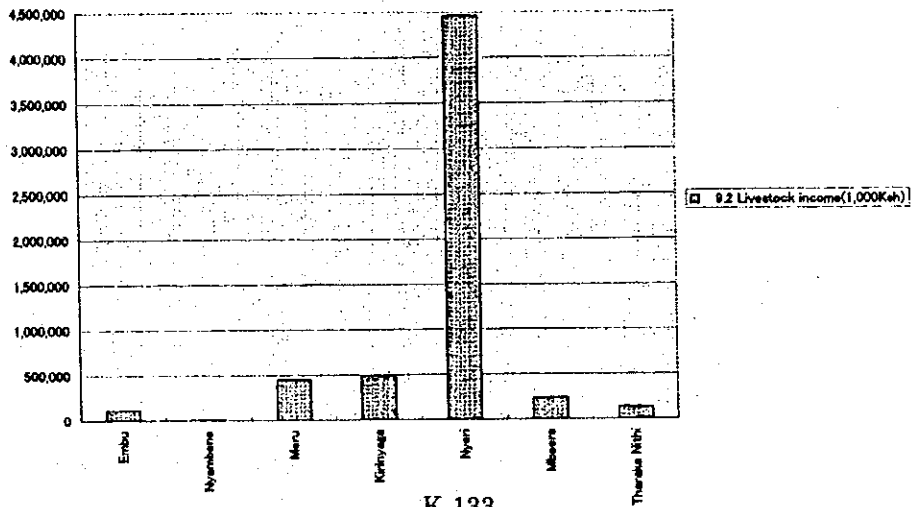
9. Total agricultural income of district(1,000Ksh)



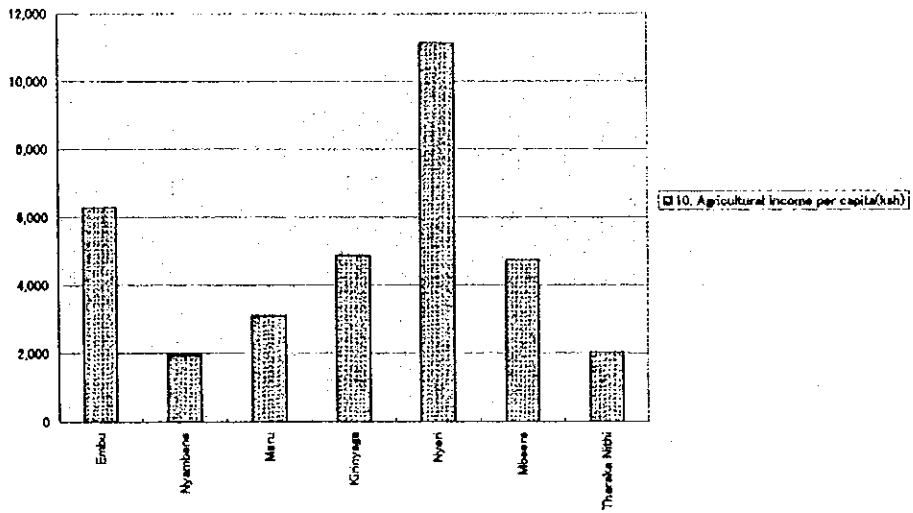
9.1 Crop income(1,000Ksh)



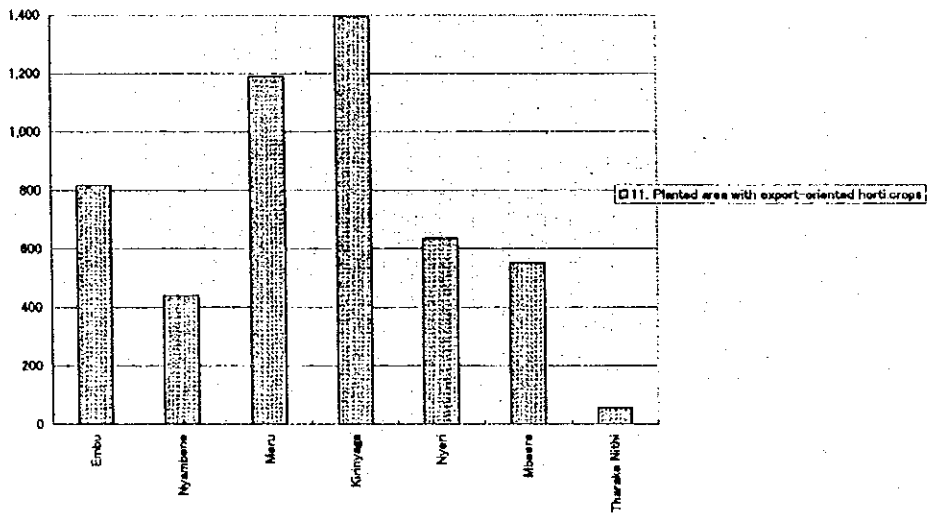
9.2 Livestock income(1,000Ksh)



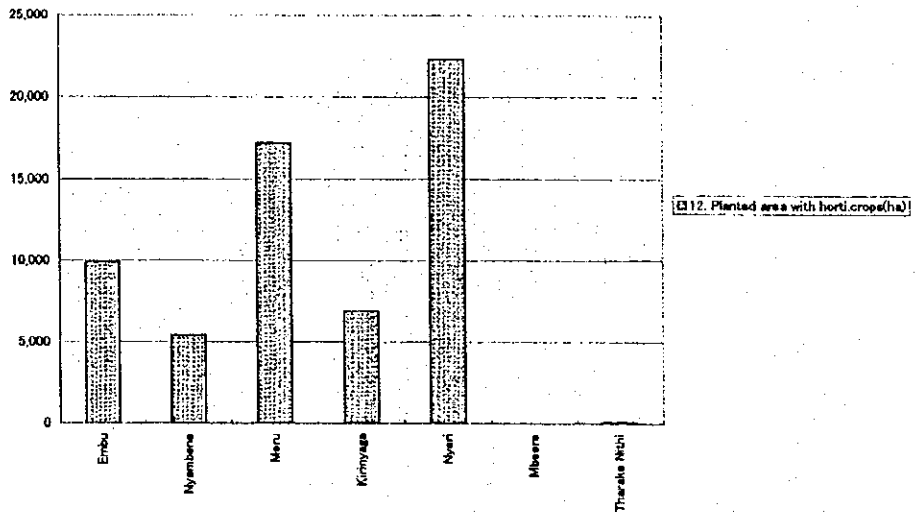
10. Agricultural income per capita(ksh)



11. Planted area with export-oriented horti.crops

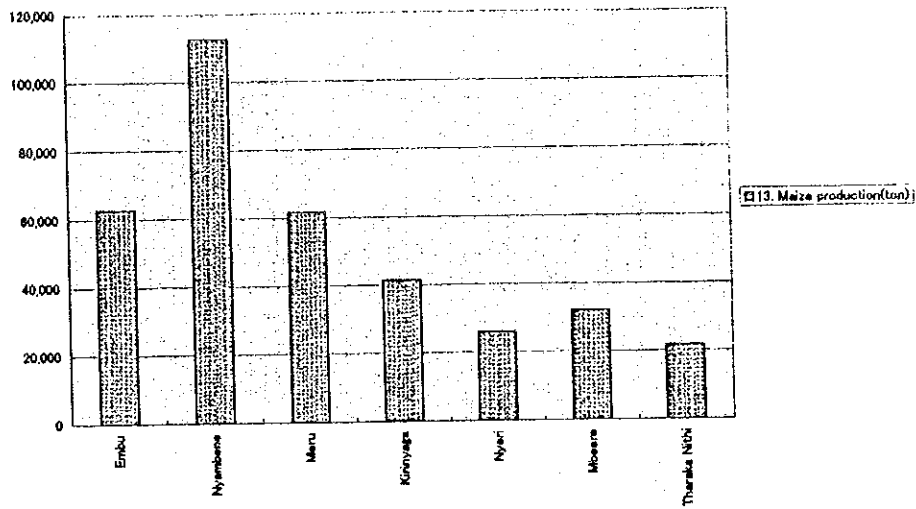


12. Planted area with horti.crops(ha)

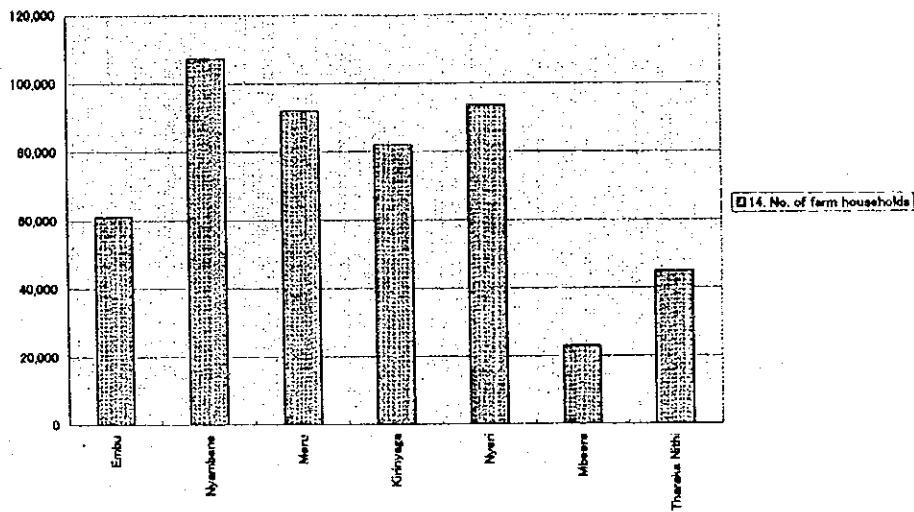


Note: Horticultural crops cover export-oriented crops, potatoes, bananas, and other fruits and other vegetables.

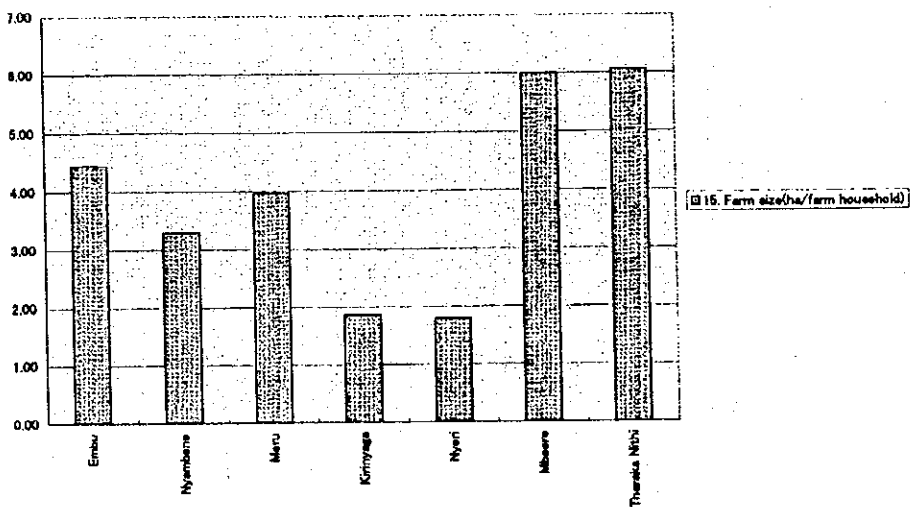
13. Maize production(ton)



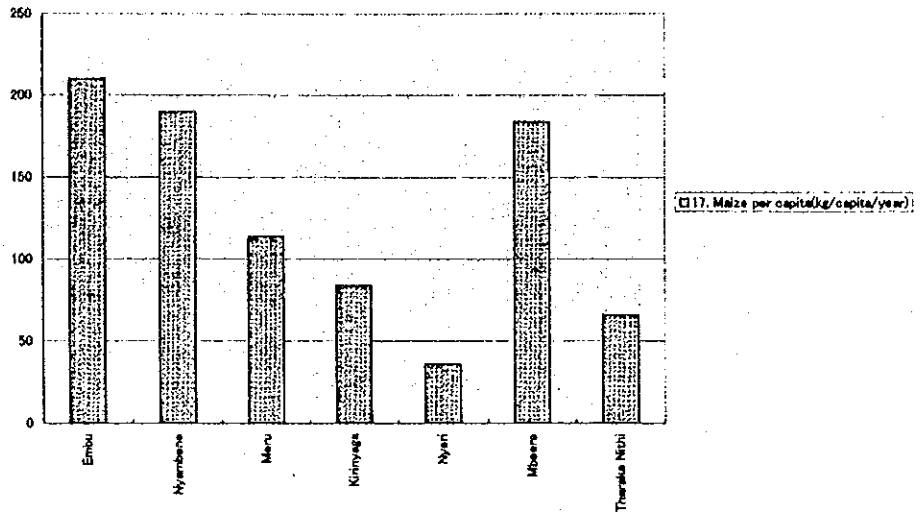
14. No. of farm households



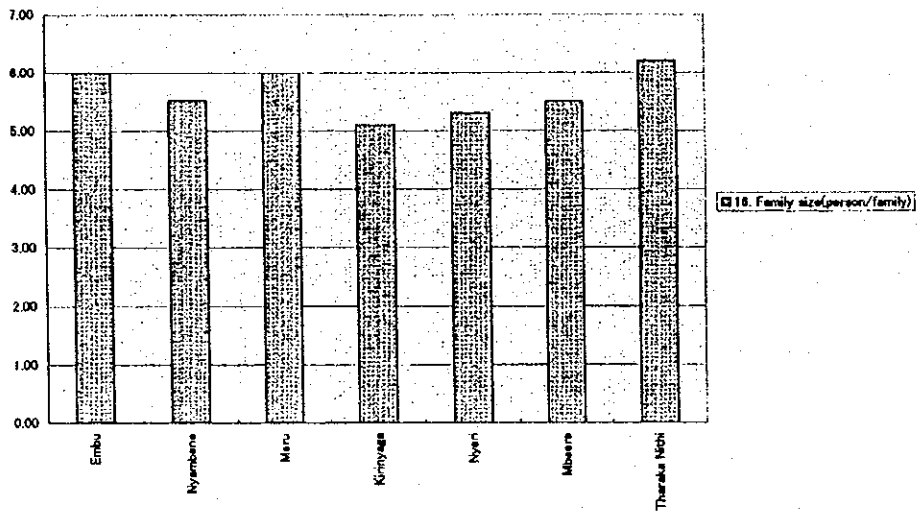
15. Farm size(ha/farm household)



17. Maize per capita(kg/capita/year)



18. Family size(person/family)



18. Ratio of female headed households(%)

