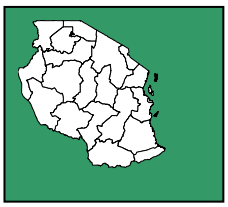
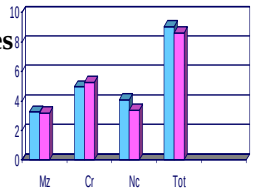


United Republic of Tanzania

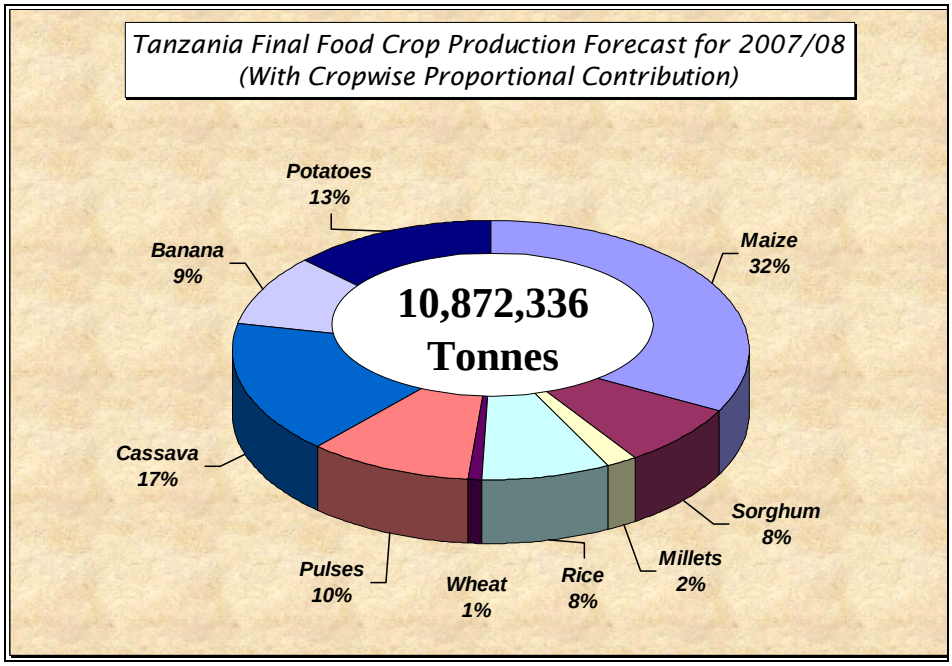
Ministry of Agriculture Food Security and Cooperatives



AGSTATS FOR FOOD SECURITY

VOLUME 1: The 2007/08 Final Food Crop Production Forecast for 2008/09 Food Security

EXECUTIVE SUMMARY



Crop Monitoring and Early Warning
Ministry of Agriculture Food and Cooperatives
P.O. Box 9192,
Tel 2865950, Fax 2865951, 2866752
E-Mail: dnfs@kilimo.go.tz
Dar es Salaam, Tanzania

Dar es Salaam **January, 2009**

Highlights

- ***The 2007/08 Final Food Crop Production Forecast amounts 10,872,336 tonnes grain equivalent and requirement for 2008/09 amounts 10,337,981 tonnes. In terms of cereals and non-cereals, a deficit status of 87% implying a shortage amounting 860,756 tonnes and a surplus status of 136% implying a surplus amounting 1,395,111 tonnes are expected respectively. In effect a net food situation involving the 2007/08 production is such that a self sufficiency ratio of 105% or a little surplus of 534,355 tonnes is achievable.***

- ***Compared to previous season, production decline has been observed in sorghum (11%), banana (4%) and pulses (3%), due to poor rains in respect of late onset and early cessation, excessive rains/floods in some bimodal areas, soil degradation and pest prevalence. Nevertheless a marginal increase of approximately 2% in total food production is notable.***

- ***An analysis of carry-over stocks (COS) shows that about 807,304 was available from three different sources viz. Private stocks (307,501 tonnes), Public stocks/ SGR (96,151 tonnes) and Farm retention (403,652 tonnes). Adding the COS to the above mentioned production surplus a total of 1,341,659 tonnes will be available over and above the amount satisfying national requirement for year 2008/09.***

- ***As cautioned earlier vide preliminary forecast report, the forecast is sensitive to vuli performance. Based on this Final forecast, the 2008 Vuli season contributed 13% only of total production (vs normal 18% national perspective) or 24% only (vs 32% bimodal area perspective), showing a draw-down impact of about 536,134 tonnes.***

- ***At sub-national level SSR analysis warns of 9 deficit regions. Furthermore, though self sufficient or surplus, further warnings are focused to 4 additional regions bearing pockets of food shortage. Excluding Dar es Salaam (which is largely non-agricultural), the 12 regions bear vulnerable population in 21 districts. The identified vulnerable areas will need to be subjected to an in-depth vulnerability assessment for necessary intervention.***

- ***Observant to current global food crisis manifested through soaring food prices, the produced food during 2007/08 should be prudently managed to avoid undesirable food shortage due to excessive trading and 'misuse' for non food purposes. Measures should be taken to improve utilization potential of a broader basket of foods including non-cereals to enhance food availability. Innovative practices such as blending of food crops should be pursued.***

Table 1: National level Crop-wise Production versus Requirement and gap/surplus analysis

Cereals	**Maize**	**Sorghum& millets**	**Rice**	**Wheat**	**Cereals**
Production	3,555,833	1,064,196	875,119	92,399	5,587,547
Requirement	4,048,633	1,507,640	693,933	198,097	6,448,303
Gap(-)/Surplus(+)	-492,800	-443,443	181,186	-105,698	-860,756
Non-cereals	**Pulses**	**Bananas**	**Cassava**	**Potatoes**	**Non-cereals**
Production	1,125,503	982,366	1,797,453	1,379,466	5,284,788
Requirement	642,838	711,692	1,776,929	758,218	3,889,677
Gap(-)/Surplus(+)	482,665	270,674	20,524	621,248	1,395,111
TOTAL	**Cereals**	**Non-cereals**			**TOTAL**
Production	5,587,547	5,284,788			10,872,336
Requirement	6,448,303	3,889,677			10,337,981
Gap(-)/Surplus(+)	**-860,756**	**1,395,111**			**534,355**

Figure 1: Tanzania Final Food Crop Production Forecast for 2007/08 (With Cropwise Proportional Contribution)

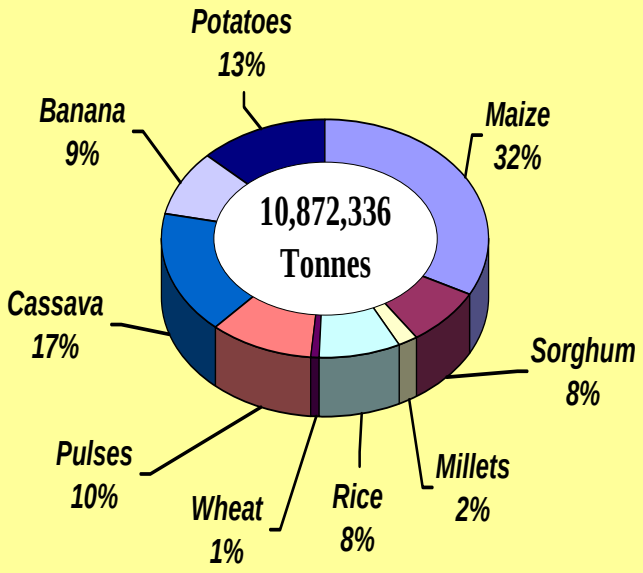


Figure 2: Carry-Over Stocks Analysis (Tonnes)

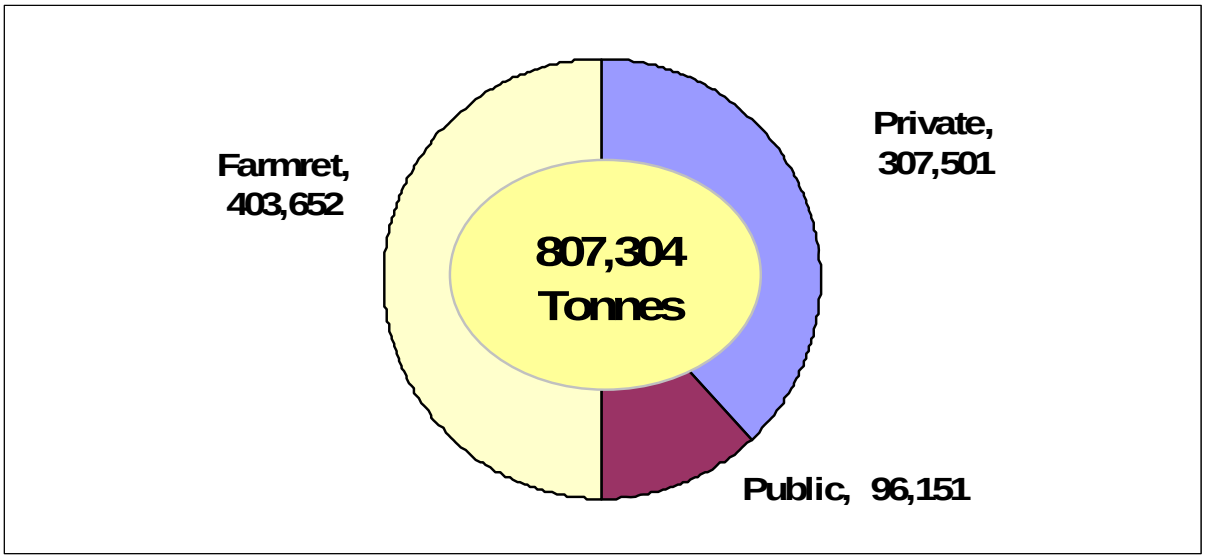
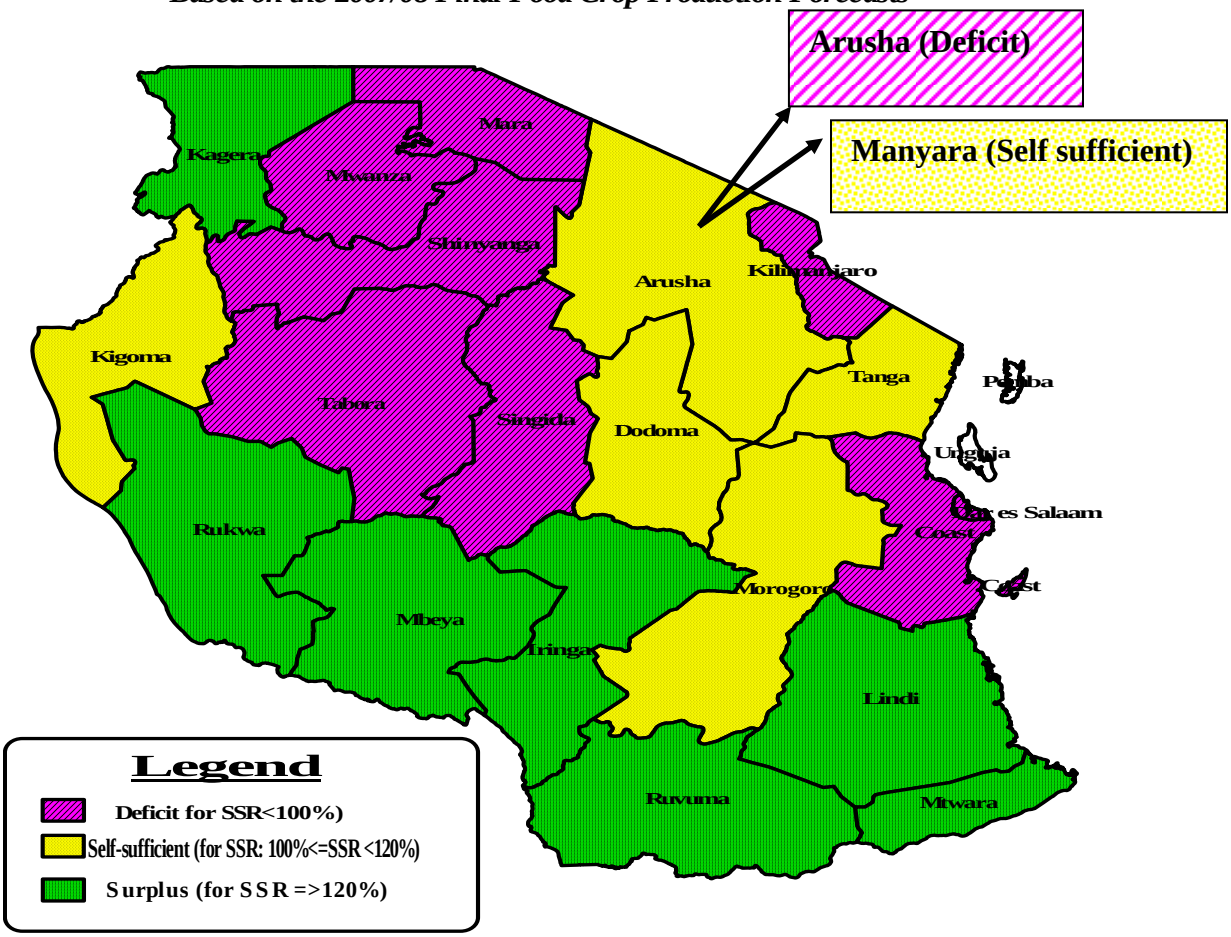


Figure 3:

Tanzania Food Supply Analysis and Self Sufficiency Ratio for 2008/09
Based on the 2007/08 Final Food Crop Production Forecasts



During the month of December, 2008 the National Food Security Division (Crop Monitoring and Early Warning) carried out a regular final food crop production forecast survey to ascertain food crop production status for 2007/08 and the corresponding availability for 2008/09.

The exercise involved finalizing the 2007/08 retrieval of data and information from the Regional Agricultural Advisors (RAAs) and the District Agricultural and Livestock Development Officers (DALDOs) partly through routine crop monitoring and early warning tools and partly through actual fielding of MAFC teams of experts to eye-witness crop performance in bimodal areas in respect of masika crop for 2007/08 as well as vuli crop for 2008/09. While the former was to establish crop production forecast for 2007/08 crop, the latter intended to rule out or in the vuli contribution to 2008/09 food availability1. Comprehensive analyses covering different retrievals were undertaken and results are presented in this report. The results concentrate on national and regional level food status with brief district level highlights of vulnerable areas.

From the analysis, it has been found that 10,872,336 tonnes of food crops will be available from farm production comprised of 5,587,547 tonnes of cereals[2] and 5,284,788 tonnes of non-cereals[3] (Table 1, Figure 1, Appendix 1 and Appendix 2) and will meet national food requirement amounting to 10,337,981 tonnes of food by 105 percent implying a 534,355 tonnes food surplus (Table 1, Appendix 2).

The 2007/08 production is exped to meet food requirement for 2008/09 by 105%, Iringa, Mtwara, Rukwa, Mbeya, Ruvuma, Kagera, Lindi, Kigoma, Manyara, Dodoma, Morogoro and Tanga where SSR=106-149%. The rest 9 regions are deficit in the order of decreasing levels of SSR=12-99% in Dar es Salaam, Kilimanjaro, Arusha, Mwanza, Shinyanga, Coast, Tabora, Singida and Mara. Furthermore, vulnerability is perceived in 21 districts in 9 regions[4] (Table 1, Figure 3, Appendix 2, Appendix 3 and Appendix 5).

This revises the preliminary forecast released in June, 2008, which indicated that about 10,782,006 tonnes of food crops would be harvested and would meet national food requirement then estimated at 10,341,859 tonnes of food by 104 percent implying a 440,146 tonnes of surplus food. According to Preliminary forecast, vulnerable areas were expected in 29 districts in 14 regions. The observed 0.8% increase in production, meagre though, has been generally attributed to weather pattern in different areas which mainly expressed a positive effect on non-cereal crops (2.4%) but a negative effect in most cereals (-0.6%) particularly maize, millets and rice (Appendix 6, Appendix 7). Furthermore, the 2008 vuli performance had a negative impact on 2008/09 food availability and locally estimated to reduce its contribution to total food down to 24% (bimodal perspective) or 13% (national perspective). Under normal circumstances, Vuli crop contributes 32% (bimodal area perspective) or 18% (national perspective) to food crop production (Appendix 4).

An analysis of Carryover stocks (COS) shows that, on the eve of new marketing year a total of 807,304 tonnes food stock was carried over into 2008/09 marketing year of which 96,151 tonnes was held in NFRA premises while 307,501 tonnes was held in private stochists and 403,652 tonnes was estimated as farm retention (Figure 2).

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2 The cereal crops covered under CMEWS include maize, sorghum, millets, rice and wheat.

3 The non-cereals include pulses, cassava, banana and potatoes

4 Four of which namely Iringa, Manyara, Morogoro and Tanga were not detected as definitely deficit.

Time series analysis shows that except for pulses, production for all crops stand above respective trend values by percentage values ranging between 1 and 17. While total food produced is 6% above trend value amounting 10.23 million tonnes, cereals and non-cereals are 9% and 3% above trend values 5,117 tonnes and 5,108 tonnes respectively. Trend values for different crops are as per Appendix 7.

Appendix 1: Tanzania Final Food Crop Production Forecast by Region - 2007/08 (as of 31/12/2008)

(Area and Production in Hectares and Tonnes Respectively, Yield in Tonnes per Hectare)

Cereals																		
Region			Maize			Sorghum			Millets			Rice			Wheat		Cereals	
	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production	Area	Production	
Arusha	137,770	0.9	123,993	16,632	0.7	11,642	3,150	1.0	3,150	51,169	1.1	56,286	21,631	1.1	23,795	230,352	218,866	Arusha
Coast	30,651	1.0	30,651	11,455	0.9	10,310				25,074	1.2	30,089				67,180	71,050	Coast
Dar es Salaam	15,128	0.7	10,589							8,056	1.1	8,862				23,184	19,451	Dar es Salaam
Dodoma	253,551	0.6	152,131	324,920	0.7	227,444	14,434	0.7	10,104	3,106	0.8	2,485				596,011	392,163	Dodoma
Iringa	341,670	1.4	478,339	28,966	1.1	31,862	1,817	1.0	1,817	9,635	1.3	12,525	7,614	1.0	7,614	389,702	532,157	Iringa
Kagera	125,259	1.3	162,836	35,205	1.0	35,205	2,423	1.0	2,423	31,384	1.0	31,384				194,271	231,848	Kagera
Kigoma	69,600	1.7	118,320	29,482	1.4	41,274	-	1.2	-	7,894	1.8	14,209				106,975	173,803	Kigoma
Kilimanjaro	185,436	0.8	148,349	8,110	1.1	8,920	11,142	1.0	11,142	26,552	1.4	37,173	4,207	1.1	4,627	235,446	210,212	Kilimanjaro
Lindi	68,609	1.1	75,470	28,364	1.0	28,364	-	1.0	-	8,012	1.5	12,018				104,985	115,852	Lindi
Manyara	216,741	1.2	260,089	12,792	1.1	14,071	12,010	1.1	13,211	16,015	1.3	20,819	46,060	1.2	55,272	303,617	363,462	Manyara
Mara	76,309	1.1	83,940	18,250	1.0	18,250	12,902	1.0	12,902	269	1.2	323				107,730	115,415	Mara
Mbeya	211,132	1.8	380,037	40,585	1.3	52,760	16,798	1.1	18,477	86,163	1.5	129,245	645	1.1	710	355,323	581,229	Mbeya
Morogoro	117,436	1.3	152,667	11,082	1.3	14,406	139	1.0	139	85,118	1.3	110,654	29	1.1	31	213,803	277,897	Morogoro
Mtwara	119,741	1.4	167,638	20,105	1.2	24,126	23	1.2	27	14,016	1.4	19,623				153,886	211,414	Mtwara
Mwanza	125,493	1.0	125,493	101,187	1.0	101,187	25,690	1.0	25,690	59,453	1.1	65,398				311,823	317,768	Mwanza
Rukwa	170,415	1.9	323,788	25,110	1.2	30,132	23,175	1.1	25,493	32,635	1.4	45,688	218	1.2	262	251,553	425,363	Rukwa
Ruvuma	219,057	1.5	328,585	25,942	1.3	33,725	15,707	1.2	18,848	1,338	1.5	2,007				262,043	383,164	Ruvuma
Shinyanga	149,990	1.3	194,987	48,636	1.1	53,500	25,574	1.0	25,574	97,005	1.1	106,705				321,205	380,766	Shinyanga
Singida	48,554	0.8	38,843	90,734	1.1	99,808	56,061	0.6	33,637	15,534	0.7	10,874				210,883	183,161	Singida
Tabora	102,699	1.2	123,239	20,215	1.2	24,258	-	1.1	-	79,862	1.9	151,737				202,776	299,235	Tabora
Tanga	63,208	1.2	75,850	142	1.0	142	177	1.0	177	6,378	1.1	7,016	87	1.0	87	69,993	83,272	Tanga
Total	2,848,449	1.2	3,555,833	897,912	1.0	861,386	221,221	0.9	202,810	664,667	1.3	875,119	80,492	1.1	92,399	4,712,741	5,587,547	Total

Non-cereals																	
			Pulses			Cassava			Banana			Potatoes		Non-cereals		Food	
	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production		Area	Production	Area	Production	
Arusha	41,023	1.0	41,023	12,601	2.2	27,722	36,799	2.3	84,638	6,908	2.2	15,197		97,331	168,580	327,683	387,445	Arusha
Coast	64,587	0.6	38,752	54,939	2.1	115,372				12,064	2.0	24,127		131,589	178,251	198,770	249,301	Coast
Dar es Salaam	67,682	0.4	27,073	13,325	2.1	27,982				9,665	1.7	16,430		90,671	71,485	113,855	90,936	Dar es Salaam
Dodoma	99,240	0.5	49,620	64,735	1.2	77,682				45,414	1.3	59,038		209,389	186,341	805,400	578,504	Dodoma
Iringa	20,088	1.1	22,097	968	2.1	2,034	11,383	2.0	22,766	58,343	2.2	128,355		90,783	175,252	480,485	707,410	Iringa
Kagera	78,600	1.2	94,320	92,538	2.6	240,599	77,890	2.5	194,725	12,302	1.9	23,374		261,330	553,017	455,601	784,866	Kagera
Kigoma	31,445	1.3	40,879	51,203	2.3	117,768	89,796	2.4	215,510	50,439	2.3	116,010		222,883	490,166	329,859	663,969	Kigoma
Kilimanjaro	7,579	0.8	6,063	3,508	2.2	7,719	41,274	2.6	107,313	9,429	2.3	21,686		61,791	142,781	297,237	352,992	Kilimanjaro
Lindi	14,529	1.2	17,435	58,823	2.3	135,294								73,352	152,729	178,337	268,580	Lindi
Manyara	21,692	1.2	26,030	10,221	2.3	23,509	4,728	2.4	11,348	7,116	2.3	16,366		43,757	77,253	347,374	440,715	Manyara
Mara	19,290	0.9	17,361	47,439	2.0	94,878	75,990	2.2	167,177	21,766	2.1	45,708		164,484	325,124	272,214	440,539	Mara
Mbeya	57,264	0.8	45,811	10,386	2.2	22,849	28,507	2.6	74,119	42,995	2.5	107,487		139,151	250,265	494,474	831,495	Mbeya
Morogoro	52,632	1.2	63,159	37,337	2.2	82,141	17,052	2.2	37,513	31,348	2.0	62,696		138,369	245,509	352,172	523,406	Morogoro
Mtwara	22,994	1.1	25,294	170,099	2.4	408,239				339	2.2	747		193,433	434,279	347,319	645,693	Mtwara
Mwanza	146,617	1.1	161,279	58,326	2.0	116,652	4,082	1.7	6,939	78,576	1.8	141,437		287,601	426,306	599,424	744,075	Mwanza
Rukwa	50,650	1.2	60,780	8,625	2.3	19,838	293	2.5	731	8,084	2.4	19,401		67,652	100,750	319,204	526,113	Rukwa
Ruvuma	79,146	1.2	94,975	21,806	2.3	50,153	527	2.3	1,212	57,113	2.2	125,648		158,591	271,988	420,634	655,152	Ruvuma
Shinyanga	124,130	0.9	111,717	33,380	1.5	50,070	11	1.4	16	107,993	1.6	172,788		265,515	334,592	586,720	715,358	Shinyanga
Singida	84,523	1.0	84,523	33,828	1.9	64,273				26,961	1.6	43,137		145,312	191,933	356,195	375,094	Singida
Tabora	14,364	1.0	14,364	29,933	2.1	62,860				71,911	2.0	143,822		116,208	221,046	318,984	520,280	Tabora
Tanga	82,949	1.0	82,949	23,724	2.1	49,821	32,422	1.8	58,359	47,330	2.0	96,013		186,425	287,141	256,417	370,413	Tanga
Total	1,181,025	1.0	1,125,503	837,746	2.1	1,797,453	420,753	2.3	982,366	706,093	2.0	1,379,466		3,145,617	5,284,788	7,858,358	10,872,336	Total

Appendix 2: Tanzania Food Supply Analysis and Self Sufficiency Ratio for 2008/09

(Based on the 2007/08 Final Food Crop Production Forecasts)

REGION	Total Cereals				Total Non-cereals				Total Food					REGION
	PROD.	REQ.	Gap/ Surplus	SSR (Cer)	PROD.	REQ.	Gap/ Surplus	SSR (Nce)	PROD.	REQ.	Gap/ Surplus	SSR (Tot)	*Deficit indicator (*)*	
Arusha	218,866	263,930	-45,065	83	168,580	159,431	9,149	106	387,445	423,361	-35,916	92	*	Arusha
Coast	71,050	155,514	-84,464	46	178,251	100,442	77,809	177	249,301	255,955	-6,655	97	*	Coast
Dar es Salaam	19,451	468,667	-449,216	4	71,485	308,323	-236,838	23	90,936	776,990	-686,054	12	*	Dar es Salaam
Dodoma	392,163	330,251	61,912	119	186,341	188,434	-2,093	99	578,504	518,685	59,819	112		Dodoma
Iringa	532,157	317,894	214,263	167	175,252	155,987	19,265	112	707,410	473,881	233,528	149		Iringa
Kagera	231,848	385,600	-153,752	60	553,017	240,627	312,391	230	784,866	626,227	158,639	125		Kagera
Kigoma	173,803	348,566	-174,764	50	490,166	216,309	273,858	227	663,969	564,875	99,094	118		Kigoma
Kilimanjaro	210,212	247,246	-37,034	85	142,781	143,496	-715	100	352,992	390,741	-37,749	90	*	Kilimanjaro
Lindi	115,852	139,389	-23,537	83	152,729	82,477	70,252	185	268,580	221,865	46,715	121		Lindi
Manyara	363,462	254,171	109,291	143	77,253	126,172	-48,919	61	440,715	380,343	60,372	116		Manyara
Mara	115,415	291,403	-175,988	40	325,124	151,433	173,691	215	440,539	442,836	-2,297	99	*	Mara
Mbeya	581,229	403,116	178,113	144	250,265	229,717	20,548	109	831,495	632,834	198,661	131		Mbeya
Morogoro	277,897	283,292	-5,395	98	245,509	200,037	45,472	123	523,406	483,328	40,077	108		Morogoro
Mtwara	211,414	343,586	-132,172	62	434,279	119,973	314,306	362	645,693	463,559	182,135	139		Mtwara
Mwanza	317,768	428,109	-110,340	74	426,306	352,180	74,126	121	744,075	780,289	-36,214	95	*	Mwanza
Rukwa	425,363	259,132	166,231	164	100,750	139,726	-38,975	72	526,113	398,857	127,256	132		Rukwa
Ruvuma	383,164	368,177	14,987	104	271,988	131,779	140,208	206	655,152	499,956	155,195	131		Ruvuma
Shinyanga	380,766	415,477	-34,711	92	334,592	333,977	615	100	715,358	749,454	-34,096	95	*	Shinyanga
Singida	183,161	251,758	-68,597	73	191,933	126,291	65,642	152	375,094	378,049	-2,955	99	*	Singida
Tabora	299,235	322,293	-23,058	93	221,046	202,606	18,439	109	520,280	524,899	-4,619	99	*	Tabora
Tanga	83,272	170,734	-87,462	49	287,141	180,262	106,879	159	370,413	350,996	19,417	106		Tanga
Tanzania	5,587,547	6,448,303	-860,756	87	5,284,788	3,889,677	1,395,111	136	10,872,336	10,337,981	534,355	105		Tanzania

Note: * General food deficit indicator

Appendix 3: Recall food situation at regional and district levels back to 2003/04

REGION	2003/04		2004/05			2005/06		2006/07		2007/08		2008/09	REGION
	Deficit regions (*)	Deficit Districts	*Deficit regions (*)*	Deficit Districts	*Deficit regions (*)*	Deficit Districts	*Deficit regions (*)*	Deficit Districts	*Deficit regions (*)*	Deficit Districts	*Deficit regions (*)*	Deficit Districts	
ARUSHA & MANYARA	*	10-Arumeru, Arusha, Mondulu, Ngorongoro, Babati, Hanang, Kiteto, Simanjiro, Mbulu, Karatu	*	4-Arumeru, Karatu, Simanjiro, Hanang	*	5-Monduli, Arumeru, Karatu Ngorongoro, Simanjiro.		3- Monduli, Ngorongoro, Longido	*	1-Monduli *(Later, 6: Ars M, Ars V, Longido, Meru, Monduli, Ngorongoro)*	*	3- Arusha, Longido, Monduli	ARUSHA
COAST	*	5-Bagamoyo, Kibaha, Kisarawe, Mafia, Rufiji	*	4-Bagamoyo, Kibaha, Kisarawe, Mafia		3-Kisarawe, Rufiji, Bagamoyo		2-Rufiji, Kisarawe		1-Rufiji *(Later, 0)*	*	1- Mafia	COAST
COAST &/DSM	*	3-Ilala, Kinondoni, Temeke	*	2-Ilala, Kinondoni	*		*	3-Kinondoni, Ilala, Temeke	*		*		DAR ES SALAAM
DODOMA	*	3-Dodoma (R) Dodoma (U), Kondoa		4- Dodoma (U), Kongwa, Kondoa, Mpwapwa	*	4-Dodoma (R), Dodoma (U), Kondoa, Kongwa	*	4-Dodoma M, Dodoma V, Kongwa , Mpwapwa					DODOMA
IRINGA		1-Iringa		3-Iringa, Kilolo, Mufindi		2-Iringa, Kilolo		5-Iringa V, Kilolo, Makete, Njombe, Ludewa				1-Njombe	IRINGA
KAGERA								1-Bukoba M					KAGERA
KIGOMA													KIGOMA
KILIMANJARO	*	2-Mwanga, Same	*	2-Same, Mwanga	*	3-Same, Rombo, Mwanga		2-Rombo, Moshi V	*	3-Same, Mwanga, Hai *(Later, 4: Hai, Mwanga, Same, Moshi V)*	*	2- Same, Rombo	KILIMANJARO
LINDI	*	4-Kilwa, Lindi, Ruangwa, Nachingwea		3-Lindi (R), Liwale, Ruangwa	*	5-Lindi, Ruangwa, Nachingwea, Kilwa, Liwale		2-Liwale, Nachingwea		2-Kilwa, Liwale *(Later, 0)*			LINDI
MANYARA								2-Simanjiro, Kiteto		2-Mbulu, Simanjiro *(Later, 5: Bbt M, Bbt V, Hanang, Mbulu, Simanjiro)*		5- Babati, Hanang, Kiteto, Mbulu, Simanjiro	MANYARA
MARA	*	1-Tarime		1-Bunda	*	3-Tarime, Bunda, Musoma					*	1- Bunda	MARA
MBEYA		1-Mbarali		1-Mbozi				3-Mbarali, Chunya, Mbozi					MBEYA
MOROGORO	*	4-Kilombero, Kilosa, Morogoro, Ulanga.						2-Kilosa, Morogoro V		*(Later, 3: Ulanga, Morogoro V, Mvomero)*		2- *Morogoro R, Mvomero*	MOROGORO
MTWARA		4-Masasi, Mtwara, Newala, Tandahimba		1-Masasi		1-Masasi							MTWARA
MWANZA	*	5-Geita, Kwimba, Misungwi, Magu, Mwanza		2-Magu, Kwimba	*	3-Kwimba, Magu, Misungwi	*	Magu, Kwimba, Misungwi, Ilemela, Nyamagana		*(Later, 1: Magu)*	*		MWANZA
RUKWA		2-Mpanda, Nkansi											RUKWA
RUVUMA		1-Tunduru											RUVUMA
SHINYANGA	*	5-Bariadi, Kahama, Bukombe, Maswa, Meatu, Shinyanga	*	7-Maswa, Kahama, Shinyanga (R), Bariadi, Shinyanga (U), Kishapu, Meatu.	*	7-Maswa, Meatu, Shinyanga Vijijini, Kishapu, Shinyanga Mjini, Bariadi, Kahama	*	7-Kishapu, Meatu, Maswa, Shinyanga M, Kahama, Bariadi, Bukombe		3-Bariadi, Kishapu, Meatu *(Later, 2: Kishapu, Meatu)*	*	2- Bariadi, Meatu	SHINYANGA
SINGIDA	*	3-Iramba, Manyoni, Singida		3-Iramba, Singida (R), Manyoni,	*	3-Iramba, Manyoni, Singida (V)	*	3-Manyoni, Singida M, Sin	*	4-Singida R, Iramba, Singida U, Manyoni *(Later, Wahadzabe ethnic group who are wholly hunters and gatherers)*	*		SINGIDA
TABORA	*	5-Igunga, Nzega, Sikonge, Tabora, Iramba			*	2-Tabora, Igunga		3- Igunga, Tabora M, Siko	*	1-Uyui *(Later, 0)*	*		TABORA
TANGA	*	4-Lushoto, Muheza, Pangani, Tanga		4-Kilindi, Handeni, Lushoto, Korogwe				3-Mkinga, Korogwe, Lushoto				4-Kilindi, Korogwe, Lushoto, Mkinga	TANGA
TOTAL	14	63	6	41	11	41	5	50	5	21 *(Prel2007: 17)*	9 (Prel2008: 14)	21 (Prel2008: 29)	TOTAL

Appendix 4: Vuli contribution to total production - Current vs Normal

REGION	Production (Tonnes)	Vuli contribution (%)- Normal Scenario	Normal-Vuli contribution (T)	Vuli contribution (%) - 2008/09	2008/09-Vuli contribution (T)
Arusha	387,445	40	154,978	29	113,228
Coast	249,301	10	24,930	7	18,214
Dar es Salaam	90,936	10	9,094	7	6,644
Dodoma	578,504		-	-	
Iringa	707,410		-	-	
Kagera	784,866	90	706,379	66	516,087
Kigoma	663,969	18	119,514	13	87,318
Kilimanjaro	352,992	35	123,547	26	90,265
Lindi	268,580		-	-	
Manyara	440,715		-	-	
Mara	440,539	45	198,242	33	144,838
Mbeya	831,495	5	41,575	4	30,375
Morogoro	523,406	15	78,511	11	57,361
Mtwara	645,693		-	-	
Mwanza	744,075	55	409,241	40	298,995
Rukwa	526,113		-	-	
Ruvuma	655,152		-	-	
Shinyanga	715,358	7	50,075	5	36,585
Singida	375,094		-	-	
Tabora	520,280		-	-	
Tanga	370,413	20	74,083	15	54,125
Bimodal-Tz	6,154,794	32	1,990,170	24	1,454,036
Total-Tz	**10,872,336**	18	**1,990,170**	13	**1,454,036**

Appendix 5: Vulnerable Areas

S/N	Region	No of Dist.	District	No. of Division	No. of Wards	No. of Villages	Vulnerable Population	Period of shortage
1	Arusha	3	Arusha	3	6	20	23,082	Jan-March 2009
			Longido	3	6	18	36,906	Jan-March 2009
			Monduli	3	4	5	4,797	Jan-March 2009
2	Kilimanjaro	2	Rombo	5	16	28	67,550	Jan-March 2009
			Same	4	6	18	22,464	Jan-March 2009
3	Tanga	4	Kilindi	4	10	30	3,738	Jan-March 2009
			Korogwe (V)	2	4	15	12,856	Feb-June 2009
			Lushoto	6	10	14	15,879	Jan-March 2009
			Mkinga	2	2	4	4,223	Jan-June 2009
4	Morogoro	2	Morogoro (V)	3	4	19	21,745	Jan-May 2009
			Mvomero	2	3	10	5,526	Jan-May 2009
5	Mara	1	Bunda	1	4	19	22,207	Jan-March 2009
6	Shinyanga	2	Bariadi	1	4	20	16,950	Jan-March 2009
			Meatu	1	3	9	1,873	Jan-March 2009
7	Manyara	5	Babati	1	4	9	3,048	Jan-May 2009
			Hanang	1	1	1	1,448	Jan-April 2009
			Kiteto	1	2	5	1,378	Jan -May 2009
			Mbulu	2	7	13	12,787	Jan-April 2009
			Simanjiro	3	3	10	8,482	Jan-April 2009
8	Iringa	1	Njombe	1	2	5	2,236	Jan-April 2009
9	Pwani	1	Mafia	2	3	8	2,855	March -April 2009
	TOTAL	21		51	104	280	292,030	

Appendix 6: Recall Preliminary Forecast Report: Tanzania Food Supply Analysis and Self Sufficiency Ratio for 2008/09

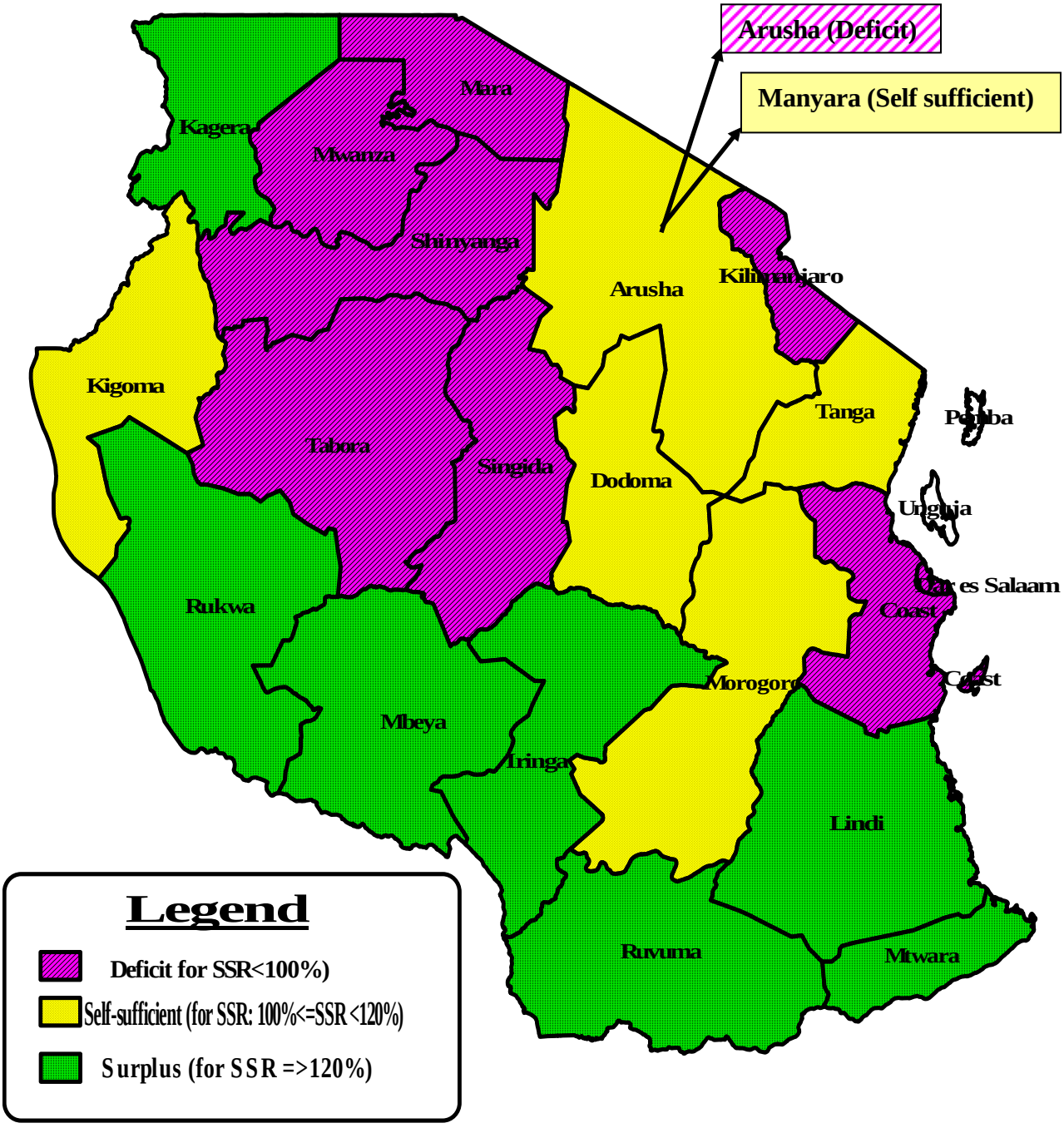
(Based on the 2007/08 Preliminary Food Crop Production Forecasts)

	Total Cereals				Total Non-cereals				Total Food					
REGION	PROD.	REQ.	Gap/ Surplus	SSR (Cer)	PROD.	REQ.	Gap/ Surplus	SSR (Nce)	PROD.	REQ.	Gap/ Surplus	SSR (Tot)	*Deficit indicator (*)*	REGION
Arusha	219,897	264,150	-44,253	83	165,132	159,361	5,772	104	385,029	423,511	-38,482	91	*	Arusha
Coast	70,691	155,395	-84,703	45	175,452	100,425	75,027	175	246,143	255,820	-9,676	96	*	Coast
Dar es Salaam	19,806	468,702	-448,897	4	69,458	308,277	-238,819	23	89,264	776,979	-687,715	11	*	Dar es Salaam
Dodoma	387,644	329,868	57,776	118	180,970	188,349	-7,379	96	568,615	518,217	50,397	110		Dodoma
Iringa	536,460	318,675	217,785	168	172,738	155,950	16,788	111	709,198	474,625	234,573	149		Iringa
Kagera	233,539	385,853	-152,314	61	541,132	240,627	300,505	225	774,670	626,480	148,190	124		Kagera
Kigoma	174,346	348,686	-174,340	50	479,169	216,239	262,930	222	653,515	564,925	88,590	116		Kigoma
Kilimanjaro	210,749	247,282	-36,533	85	140,480	143,485	-3,006	98	351,229	390,767	-39,539	90	*	Kilimanjaro
Lindi	116,220	139,465	-23,245	83	145,924	82,447	63,477	177	262,144	221,912	40,232	118		Lindi
Manyara	363,033	254,475	108,558	143	75,298	126,128	-50,830	60	438,330	380,603	57,728	115		Manyara
Mara	116,940	291,675	-174,735	40	317,260	151,403	165,856	210	434,199	443,078	-8,879	98	*	Mara
Mbeya	587,558	403,905	183,653	145	245,889	229,639	16,250	107	833,447	633,544	199,903	132		Mbeya
Morogoro	282,146	283,729	-1,583	99	239,107	199,929	39,178	120	521,254	483,658	37,596	108		Morogoro
Mtwara	213,134	343,857	-130,723	62	414,201	119,930	294,271	345	627,334	463,786	163,548	135		Mtwara
Mwanza	315,555	427,955	-112,401	74	418,707	352,180	66,527	119	734,261	780,135	-45,874	94	*	Mwanza
Rukwa	429,563	259,741	169,822	165	98,492	139,622	-41,131	71	528,055	399,364	128,691	132		Rukwa
Ruvuma	386,111	368,700	17,411	105	266,263	131,618	134,645	202	652,373	500,318	152,056	130		Ruvuma
Shinyanga	384,516	415,892	-31,376	92	327,973	333,787	-5,814	98	712,489	749,680	-37,190	95	*	Shinyanga
Singida	185,318	252,001	-66,683	74	189,794	126,147	63,646	150	375,112	378,148	-3,037	99	*	Singida
Tabora	303,975	322,722	-18,747	94	215,857	202,582	13,275	107	519,831	525,304	-5,472	99	*	Tabora
Tanga	84,298	170,885	-86,587	49	281,214	180,121	101,093	156	365,512	351,006	14,507	104		Tanga
Tanzania	**5,621,498**	**6,453,614**	**-832,116**	**87**	**5,160,508**	**3,888,245**	**1,272,262**	**133**	**10,782,006**	**10,341,859**	**440,146**	**104**		**Tanzania**

Note: * General food deficit indicator

Appendix 7: Time Series Analysis of Major Food Crops in Tanzania, 1986/87 - 2007/08

(Thousand Tonnes)

Year	Maize	Sorghum	Millets	Rice	Wheat	Cereals	Pulses	Cassava	Bananas	Potatoes	Non-cereals	Total	Year
2007/08	3,556	861	203	875	92	5,588	1,126	1,797	982	1,379	5,285	10,872	2007/08
Prel2008	3,594	837	208	897	86	5,621	1,111	1,717	971	1,361	5,161	10,782	Prel2008
2006/07(t-1)	3,302	971	194	872	83	5,422	1,156	1,733	1,028	1,322	5,238	10,660	2006/07(t-1)
21yaverage (1986/87-2006/07)	2,580	713	169	537	80	4,079	565	1,682	795	627	3,669	7,748	19yaverage (1986/87-2006/07)
5yaverage (2003/2004-2006/07)	3,085	789	211	781	90	4,864	993	1,778	980	1,131	4,882	10,028	5yaverage (2003/2004-2006/07)
TrVt (1992/93-2006/07)	3,241	738	200	846	92	5,117	1,124	1,733	965	1,285	5,108	10,226	TrVt (1992/93-2006/07)
%age change from 21y-aver.	38	21	20	63	15	37	99	7	24	120	44	40	%age change from 19y-aver.
%age change from 5y-aver.	15	9	-4	12	2	15	13	1	0	22	8	8	%age change from 5y-aver.
%age change from TrVt	10	17	1	3	1	9	0	4	2	7	3	6	%age change from TrVt
%age change from Prel2008	-1.1	2.9	-2.3	-2.4	7.0	-0.6	1.3	4.7	1.2	1.3	2.4	0.8	%age change from Prel2008
%age change from year t-1	8	-11	5	0	12	3	-3	4	-4	4	1	2	%age change from year t-1

Tanzania Food Supply Analysis and Self Sufficiency Ratio for 2008/09
Based on the 2007/08 Final Food Crop Production Forecasts