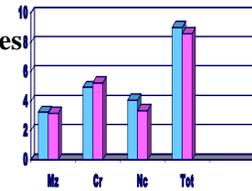
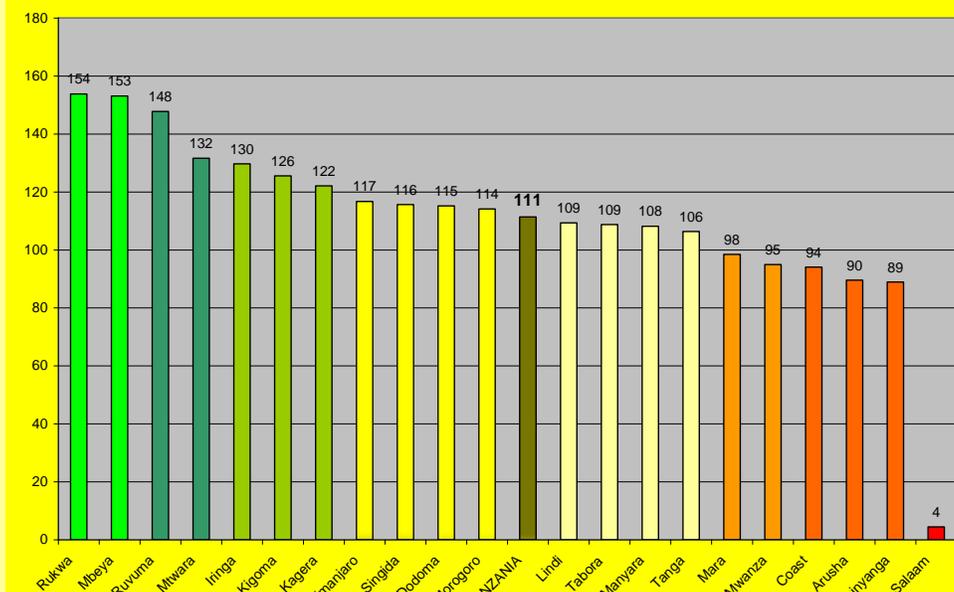


United Republic of Tanzania
Ministry of Agriculture Food Security and Cooperatives



AGSTATS FOR FOOD SECURITY

VOLUME 1: The 2010/11 Preliminary Food Crop Production Forecast for 2011/12 Food Security



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

Main Highlights

- ◆ ***The 2010/11 Preliminary Food Crop Production Forecast amounts 12,810,818 tonnes grain equivalent and requirement for 2011/12 amounts 11,499,414 tonnes. In terms of cereals and non-cereals, a self sufficiency status¹ of 94% implying a sizeable deficit amounting 413,739 tonnes and a surplus status of 140% implying a surplus amounting 1,725,143 tonnes are respectively achievable. In effect, a net food situation involving the 2010/11 production is such that a self sufficiency ratio of 111% or a food surplus amounting 1,311,404 tonnes is attainable².***
- ◆ ***Compared to previous season, production increase of 4% has been observed in total due to fairly good rains³ in respect of timely onset and a fairly appropriate distribution experienced over most unimodal regions. Even then, a substantial decrease of approximately 8% is notable in cereals. The positive non-cereal and negative cereal change amidst the prevailing climate change regime is worth further enquiry.***
- ◆ ***An analysis of carryover stocks (COS) shows that, on the eve of new marketing year 2011/12 (i.e. the midnight of 1/06/11) a total of 787,908 tonnes food stock was carried over into 2011/12 marketing year of which 189,966 tonnes was held in NFRA (National Food Reserve Agency) warehouses while 203,988 tonnes was held by private stockists and 393,954 tonnes was estimated as farm retention. Added to the 1,311,404 tonnes preliminary forecast of food surplus arrived at as above, the total food available, over and above national requirement is 2,099,312 tonnes.***
- ◆ ***Stability in this forecast will depend on 2011/12 vuli performance which continues to negatively stagger around 60%. Though without quantification, the performance over the 2010/11 masika season whose effect on flowering and grain-filling stages towards maturity in bimodal areas is normally significant, may also negatively imply a draw-down in the indicated harvestable tonnage. It is notable; therefore, that the forecast is sensitive to vuli performance and the remaining part of masika beyond 31/05/11 beyond the deadline of data valid for this report. These are the two areas which are likely to affect the production figure at the final forecast in November, 2011. The draw-down in the case of vuli may rise to the tune of 450,000 tonnes cognizant of recent experiences⁴!***
- ◆ ***At sub-national level SSR analysis warns of 6 deficit regions⁵. Furthermore, though self sufficient or surplus, further warnings are focused to 10 additional regions bearing pockets of food shortage. Indicative of farming sector performance, a total of 16***

¹ The status measured by a self-sufficiency ratio (SSR), which indicates the ability of farmers, given production decision and marketing business environment, to manage and feed local population as well as meet other requirements of the same. SSR is expressed in percentage terms whereby <100% = deficit, 100-<120% = Self sufficient and 120+ = surplus.

² The situation is relatively worse than last season when the SSR of 112% and a food surplus of 1,410,245 tonnes were predicted during preliminary forecast.

³ The increase is relatively less than last season when 19% was observed during Preliminary Forecast.

⁴ Our recent experiences are often based on 10 years background.

⁵ More deficit regions evidence worse situation than last season when only 2 regions were identified at Preliminary forecast and 4 at final forecast.

regions send out worrying signals to local authorities that a total of 56 LGAs may bear vulnerable population over the coming marketing year. The identified vulnerable areas will need to be subjected to an in-depth vulnerability assessment for intervention preparedness in case.

- ◆ *In view of the increased number of deficit regions and vulnerable areas and since there is an alarming cereal gap in the country (413,439 tonnes) food crop exportation will have to be temporarily halted for 6 months so that the government will have an ample time to closely follow-up on the food situation in the country.*

The Forecast

During the months of May-June, 2011 the National Food Security Division (Crop Monitoring and Early Warning) carried out a regular preliminary food crop production forecast survey to ascertain food crop harvest status for 2010/11 and the corresponding availability for 2010/11. Interest was to determine the preliminary status concluded through capturing the effect of factors affecting crop production that ruled over the growth stages from seed germination to maturity.

The exercise involved collection of the 2010/11 data and information from all the districts of mainland Tanzania in collaboration with Regional Agricultural Advisors (RAAs) and the District Agricultural and Livestock Development Officers (DALDOs). The process made use of regular tools that facilitate the routine retrieval system while monitoring field crop performance as well as market performance in respect of food availability and price signaling for early warning for food security. Accordingly and appropriately, production forecast was made for 2010/11 crop season and food security forecast was made for 2011/12 marketing year. The retrieval tools used focused at 1. Management based Snap-short information, 2. Crop target implementation status, 3. In-field crop phenological assessment, 4. Pest prevalence assessment, 5. Market Food Availability assessment 6. Rainfall availability assessment and 7. Vulnerability detection assessment.

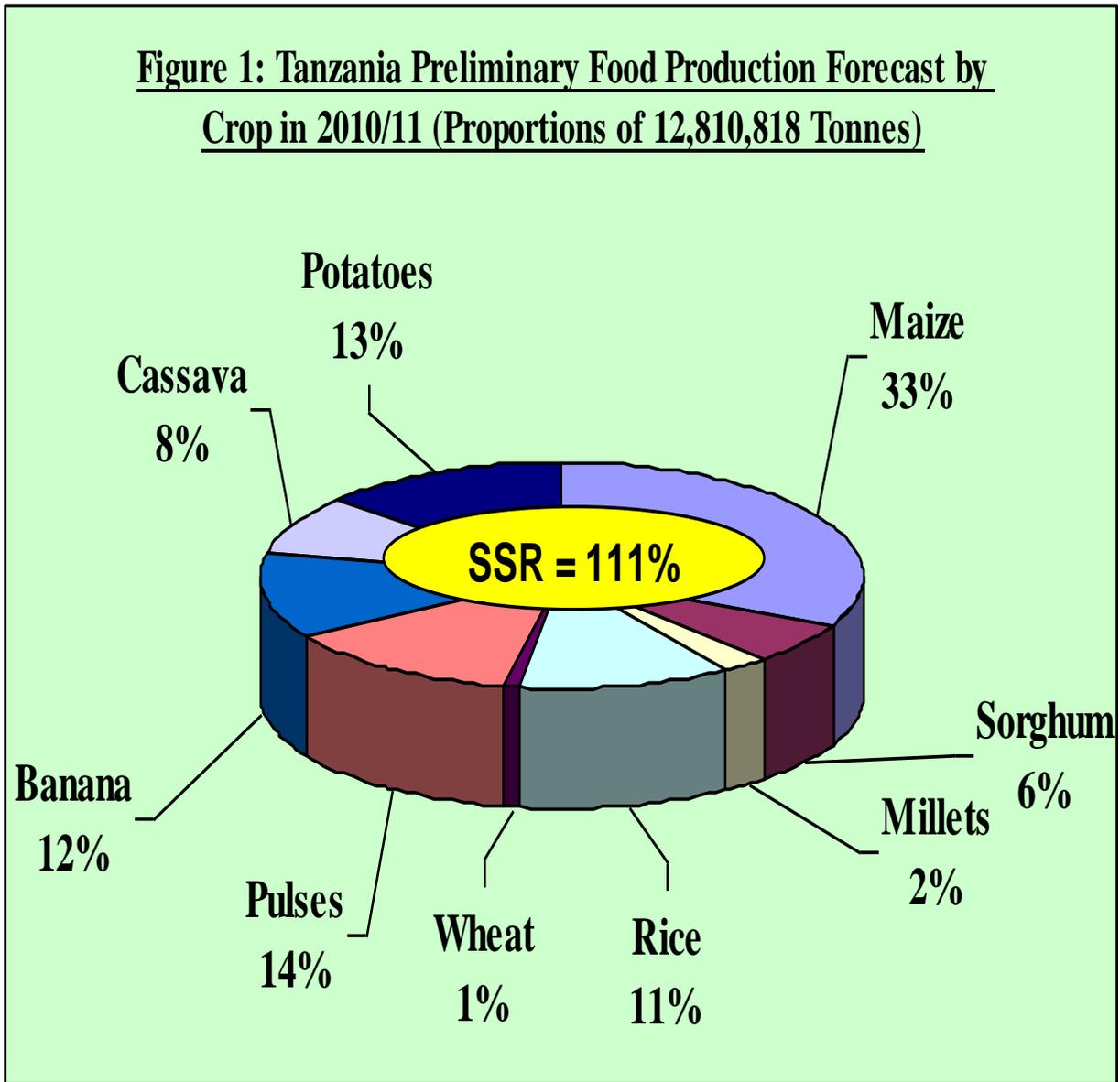
An analysis covering these retrieval areas was undertaken and results are subject matter of this report presented in different volumes. The results concentrate on national and regional level food status with main highlights of regions and districts bearing vulnerable areas. For clarity purposes, we are pleased to note that *WRS1*⁶ and *TSA*⁷ have also been critically analysed and results are also part of this

⁶ WRS1 is a weekly retrieval system tool that captures district level targets vs. implementation of area planted and expected production in 12 main food crops as compiled by DALDOs.

⁷ TSA is an analytical procedure that assesses snapshot stories summarising food crop performance, WRS1-5 and cash crop performance as recorded by field level experts and concludes with field level perception of expected food

presentation as Volume 2 and Volume 3 respectively banking on field intimacy involving MAFC experts and field teams at regional as well as at district levels.

From the analysis, it has been found that **12,810,818** tonnes of food crops will be available from farm production comprised of **6,786,605** tonnes of cereals⁸ and **6,024,217** tonnes of non-cereals⁹ (Table 1, Figure 1, Appendix 1 and Appendix 2) and will meet national food requirement amounting **11,499,414** tonnes of food by 111 percent implying a **1,311,404** tonnes of surplus food (Table 1, Appendix 2).



situation. This analysis offers a good debate ground linking between SSR and the local level expectations of food security situation appropriate for data dissemination seminars.

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

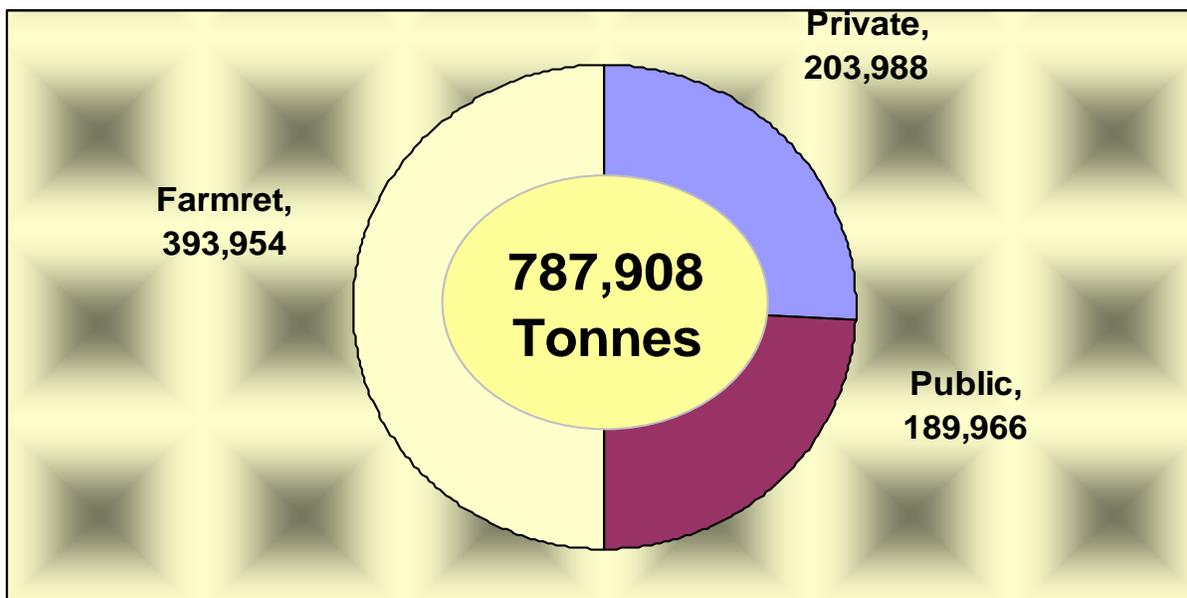
9 The non-cereals include pulses, cassava, banana and potatoes

Table 1: The 2010/11 Preliminary Food Crop Production versus 2011/12 Requirement, Gap/Surplus Analysis and Self sufficiency Ratios at national level

Cereals	Production (Tonnes)	6,786,602
	Requirement (Tonnes)	7,200,341
	Gap/Surplus (Tonnes)	-413,739
	SSR - Cereals (%)	94
Non-cereals	Production (Tonnes)	6,024,217
	Requirement (Tonnes)	4,299,073
	Gap/Surplus (Tonnes)	1,725,143
	SSR - Non-cereals (%)	140
Total Food	Production (Tonnes)	12,810,818
	Requirement (Tonnes)	11,499,414
	Gap/Surplus (Tonnes)	1,311,404
	SSR - Total (%)	111

An analysis of Carryover stocks (COS) shows that, on the eve of new marketing year a total of 787,908 tonnes food stock was carried over into 2011/12 marketing year of which 189,966 tonnes was held in NFRA premises while 203,988 tonnes was held by private stockists and 393,954 tonnes was estimated as farm retention (Figure 2).

Figure 2: Carry-Over Stocks Analysis 31st May, 2011 (Tonnes)



Added to the **1,311,404** tonnes preliminary forecast of food surplus arrived at as above, the total food available, over and above national requirement is 2,099,312 tonnes.

Time series analysis shows that, compared to previous season, production increase of 4% is expected in total (81% in wheat, 40% in potatoes, 34% in pulses, 7% in banana and 7% in cassava) probably attributed to fairly good rains in respect of timely onset and a fairly appropriate distribution experienced in the areas growing these crops. Even then, a decrease of approximately 8% is notable in cereals (16% in millets, 15% in rice and 8% in maize, the national staple) (See Appendix 7).

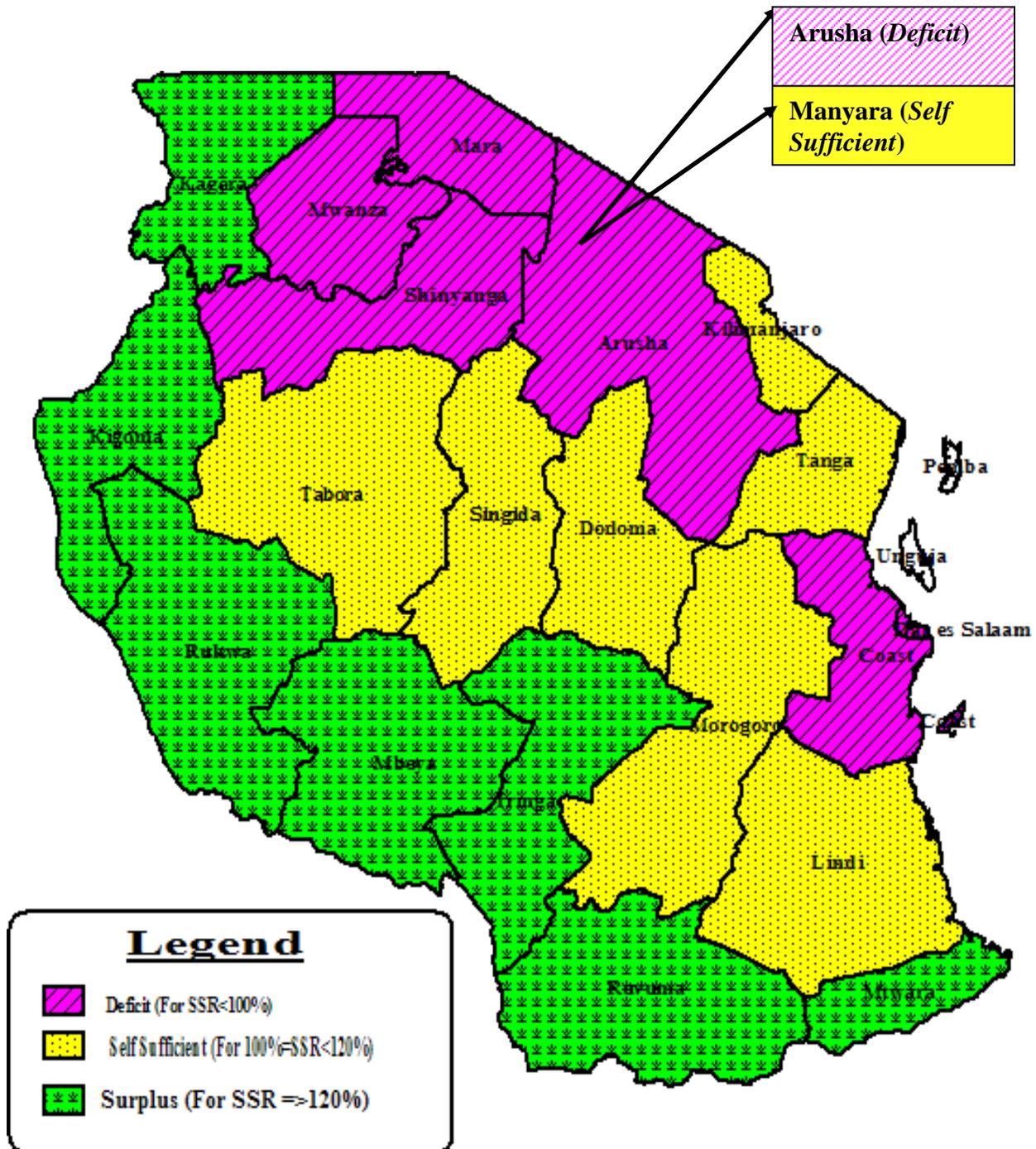
Compared to trend values computed from 1992/93-2009/10¹⁰, all food crop categories fall below whereby total tonnage falls below by 5%, cereals by 2% and non-cereals by 8%. Consistently, all non-cereals except for pulses stand below the trend line by 10% (potatoes) – 13% (cassava) while all cereals except for maize stand positive by 3% (rice) – 17% (wheat). Trend values and other measures of time series analysis for different crops are as per Appendix 7.

At sub-national level, the 2010/11 production is expected to meet food requirement for 2011/12 marketing year in 15 regions while deficit status is detected in 6 regions namely (with SSR levels in brackets) Dar es Salaam (4%), Shinyanga

¹⁰ a reasonable period of reliable food crop statistics

(89%), Arusha (90%), Coast (94%), Mwanza (95%) and Mara (98%). The 15 regions are categorized into 8 self sufficient regions with SSR level of 106%-117% and 7 surplus regions with SSR levels of 122%-154% (Figure 3, Appendix 2).

**Figure 3: Total Food Supply Forecast for the 2011/12 Marketing Year
(Based on 2010/11 Preliminary Food Crop Production Forecasts)**



Vulnerability

An analysis of monthly routine retrieval system (RRS1) and management based snapshot information (TSA), vulnerable hotspots have been detected in 56 districts in 16 regions including both the 6 definitely deficit regions, 6 self sufficient regions and 4 surplus regions. Vulnerability ranks highest in Shinyanga, Arusha and Mwanza where over one third of all detected vulnerable districts are located followed an intermixture of 7 self sufficient cum deficit regions of Kilimanjaro, Manyara, Mara, Tabora, Dar es Salaam, Singida, Coast and Dodoma and finally the bottom lying bit of 5 mainly surplus regions composed of Iringa, Kagera, Mbeya, Mtwara and Tanga. Categorically, the deficit regions bear 30 districts while self sufficient regions bear 19 districts and the surplus regions bear 7 districts with vulnerable areas.

Recommendations

- ◆ From above, a total of 56 districts in 16 regions are identified as containing vulnerable areas and will need to be subjected to an in-depth vulnerability assessment for necessary intervention by Government.
- ◆ In view of the increased number of deficit regions and vulnerable areas and since there is an alarming cereal gap in the country (413,439 tonnes) food crop exportation will have to be temporarily halted for 6 months so that the government will have an ample time to closely follow-up on the food situation in the country.

*Appendix 1: Tanzania Preliminary Food Crop Production Forecast by Region - 2010/11 (as of 31/05/2011)
(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	121,452	0.9	109,307	38,963	0.9	35,067	11,755	1.0	11,755	106,891	1.1	117,580	17,405	1.1	19,146	296,466	292,855
Coast	134,079	0.4	53,632	79,311	0.6	47,587	-	-	-	262,005	0.9	235,804	-	-	-	475,395	337,023
Dar es Salaam	2,191	0.3	657	2	0.5	1	1	0.5	1	2,402	0.9	2,162	-	-	-	4,596	2,821
Dodoma	102,829	0.9	92,546	175,518	1.2	210,622	81,352	0.9	73,217	10,741	1.1	11,815	-	-	-	370,440	388,200
Iringa	256,540	1.4	359,157	8,854	1.0	8,854	2,560	0.8	2,048	10,924	1.1	12,016	40,791	1.1	44,870	319,669	426,945
Kagera	131,870	1.4	184,619	23,616	1.2	28,339	15,118	1.1	16,630	6,785	1.1	7,464	-	-	-	177,390	237,052
Kigoma	198,627	1.6	317,803	18,148	1.1	19,963	6,075	1.1	6,682	47,208	1.6	75,533	-	-	-	270,058	419,981
Kilimanjaro	67,794	0.9	61,015	2,460	1.0	2,460	1,076	1.0	1,076	13,333	1.1	14,666	9,883	1.1	10,871	94,546	90,088
Lindi	77,237	0.5	38,618	58,738	0.8	46,990	19,852	1.0	19,852	17,184	1.0	17,184	-	-	-	173,011	122,645
Manyara	185,839	1.3	241,591	7,809	1.0	7,809	3,380	1.0	3,380	2,455	1.0	2,455	21,912	1.1	24,103	221,396	279,339
Mara	42,874	1.5	64,311	41,516	1.2	49,819	16,676	1.0	16,676	1,607	1.4	2,249	-	-	-	102,672	133,055
Mbeya	330,746	1.9	628,418	35,406	1.2	42,487	17,056	1.1	18,761	54,127	2.1	113,666	5,910	1.2	7,092	443,245	810,425
Morogoro	172,085	1.6	275,337	8,495	1.1	9,345	5,406	0.9	4,866	114,364	1.4	160,109	145	0.5	73	300,496	449,729
Mtwara	211,346	0.5	105,673	55,488	0.9	49,939	22,338	1.1	24,572	59,708	1.1	65,678	-	-	-	348,880	245,862
Mwanza	147,548	1.2	177,058	17,784	1.2	21,341	6,494	1.1	7,143	86,164	1.6	137,863	-	-	-	257,991	343,405
Rukwa	165,411	2.0	330,822	45,614	1.0	45,614	20,781	1.2	24,938	63,753	1.7	108,380	11,476	0.5	5,738	307,035	515,492
Ruvuma	118,668	1.9	225,470	10,342	1.2	12,411	4,567	1.2	5,480	41,484	1.3	53,929	-	-	-	175,061	297,290
Shinyanga	223,117	0.8	178,493	53,649	1.0	53,649	21,585	1.0	21,585	74,020	1.5	111,029	-	-	-	372,370	364,757
Singida	129,559	0.6	77,735	63,430	1.0	63,430	43,291	0.8	34,633	5,812	0.7	4,069	-	-	-	242,092	179,867
Tabora	280,021	1.1	308,023	33,279	1.1	36,607	14,454	1.0	14,454	99,853	1.4	139,794	-	-	-	427,608	498,880
Tanga	194,877	1.5	292,316	10,739	0.8	8,592	3,285	1.1	3,613	38,005	1.2	45,606	766	1.0	766	247,672	350,892
Total	3,294,713	1.3	4,122,602	789,164	1.0	800,926	317,102	1.0	311,362	1,118,824	1.3	1,439,054	108,287	1.0	112,658	5,628,091	6,786,602
Non-cereals																	
Region	Pulses			Cassava			Banana			Potatoes			Non-cereals			Food	
	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production	Area	Production	Area	Production	
Arusha	58,319	1.1	61,235	1,260	2.3	2,897	35,338	2.0	70,676	1,248	2.0	2,495	96,164	137,303	392,630	430,158	
Coast	204,338	0.6	122,603	155,389	2.1	326,317	-	-	-	44,422	1.8	79,959	404,149	528,879	879,544	865,902	
Dar es Salaam	537	0.4	215	2,364	2.0	4,729	-	-	-	2,577	1.5	3,865	5,478	8,808	10,074	11,629	
Dodoma	153,982	0.9	138,584	28,601	2.1	60,062	-	-	-	28,482	1.9	54,116	211,065	252,762	581,505	640,962	
Iringa	38,327	1.0	38,327	846	2.2	1,861	464	1.7	789	66,269	2.2	145,792	105,907	186,770	425,576	613,715	
Kagera	73,693	1.2	84,747	83,030	2.4	199,273	108,753	2.4	261,007	23,541	2.3	54,144	289,017	599,171	466,407	836,223	
Kigoma	118,990	1.1	124,939	16,727	2.2	36,799	124,935	1.7	212,390	35,261	2.1	74,049	295,913	448,177	565,971	868,159	
Kilimanjaro	45,301	1.1	49,831	3,124	2.3	7,184	79,914	2.1	167,820	69,904	2.1	146,799	198,243	371,634	292,789	461,722	
Lindi	51,693	0.7	36,185	37,422	2.5	93,555	-	-	-	-	-	-	89,115	129,740	262,126	252,385	
Manyara	137,499	1.1	144,374	196	2.1	412	4,559	2.0	9,118	3,212	2.0	6,423	145,466	160,327	366,862	439,666	
Mara	29,468	1.0	27,994	47,871	2.2	105,315	47,578	2.0	95,157	28,496	2.1	59,842	153,413	288,309	256,086	421,364	
Mbeya	46,001	1.3	59,801	6,917	2.4	16,602	32,528	2.3	74,814	74,252	2.2	163,354	159,697	314,570	602,942	1,124,995	
Morogoro	53,271	1.0	53,271	32,693	2.1	68,655	27,752	1.5	41,627	29,663	2.1	62,293	143,379	225,847	443,875	675,575	
Mtwara	95,005	0.8	76,004	52,494	2.6	136,485	-	-	-	914	1.7	1,554	148,413	214,043	497,293	459,905	
Mwanza	161,418	1.2	185,631	76,605	2.1	160,871	6,056	2.0	12,112	115,266	2.1	242,058	359,345	600,672	617,336	944,077	
Rukwa	66,277	1.1	72,905	13,007	2.6	33,819	10,115	2.1	21,242	24,036	2.2	52,879	113,435	180,844	420,470	696,336	
Ruvuma	87,452	1.2	104,943	19,068	2.3	43,856	929	1.6	1,487	55,759	2.2	122,669	163,208	272,954	338,269	570,244	
Shinyanga	103,680	1.1	114,048	54,985	2.0	109,970	67	1.1	73	174,486	1.5	261,729	333,218	485,820	705,588	850,577	
Singida	152,932	0.8	122,346	42,168	1.5	63,253	-	-	-	34,304	1.3	44,595	229,405	230,194	471,497	410,060	
Tabora	44,548	1.0	42,321	34,738	0.8	27,791	-	-	-	76,404	1.6	122,247	155,691	192,358	583,299	691,238	
Tanga	25,034	1.0	23,783	28,619	2.4	68,685	53,089	1.5	79,634	11,467	2.0	22,934	118,209	195,035	365,881	545,927	
Total	1,747,766	1.0	1,684,086	738,125	2.1	1,568,390	532,077	2.0	1,047,945	899,962	1.9	1,723,795	3,917,929	6,024,217	9,546,020	12,810,818	

Appendix 2: Tanzania Food Supply Analysis and Self Sufficiency Ratio for 2011/12

(Based on the 2010/11 Preliminary Food Crop Production Forecasts)

REGION	Total Cereals				Total Non-cereals				Total Food				Deficit indicator (%)	REGION
	Production	Requirement	Gap/Surplus	SSR (Cer)	Production	Requirement	Gap/Surplus	SSR (Nce)	Production	Requirement	Gap/Surplus	SSR (Tot)		
Rukwa	515,492	296,576	218,915	174	180,844	166,180	24,664	116	696,336	452,757	243,579	154	Rukwa	
Mbeya	810,425	486,810	323,615	166	314,570	247,923	66,647	127	1,124,995	734,733	390,262	153	Mbeya	
Ruvuma	297,290	243,660	53,630	122	272,954	142,301	130,654	192	570,244	385,960	184,284	148	Ruvuma	
Mtwara	245,862	218,274	27,589	113	214,043	131,188	82,855	163	459,905	349,462	110,444	132	Mtwara	
Iringa	426,945	308,562	118,383	138	186,770	164,689	22,081	113	613,715	473,251	140,464	130	Iringa	
Kigoma	419,981	434,056	-14,074	97	448,177	257,584	190,593	174	868,159	691,640	176,519	126	Kigoma	
Kagera	237,052	422,706	-185,654	56	599,171	262,202	336,968	229	836,223	684,908	151,314	122	Kagera	
Kilimanjaro	90,088	240,674	-150,586	37	371,634	154,899	216,735	240	461,722	395,572	66,150	117	Kilimanjaro	
Singida	179,867	216,072	-36,205	83	230,194	138,491	91,702	166	410,060	354,563	55,497	116	Singida	
Dodoma	388,200	346,020	42,180	112	252,762	210,437	42,325	120	640,962	556,456	84,505	115	Dodoma	
Morogoro	449,729	377,124	72,605	119	225,847	214,763	11,084	105	675,575	591,887	83,689	114	Morogoro	
TANZANIA	6,786,602	7,200,341	-413,739	94	6,024,217	4,299,073	1,725,143	140	12,810,818	11,499,414	1,311,404	111	TANZANIA	
Lindi	122,645	143,059	-20,414	86	129,740	87,814	41,926	148	252,385	230,873	21,511	109	Lindi	
Tabora	498,880	407,400	91,479	122	192,358	228,345	-35,987	84	691,238	635,745	55,493	109	Tabora	
Manyara	279,339	253,496	25,843	110	160,327	152,927	7,401	105	439,666	406,423	33,243	108	Manyara	
Tanga	350,892	329,332	21,560	107	195,035	183,888	11,147	106	545,927	513,220	32,708	106	Tanga	
Mara	133,055	263,956	-130,901	50	288,309	164,155	124,153	176	421,364	428,111	-6,747	98	*	Mara
Mwanza	343,405	605,867	-262,462	57	600,672	388,475	212,196	155	944,077	994,342	-50,265	95	*	Mwanza
Coast	337,023	560,411	-223,388	60	528,879	359,956	168,923	147	865,902	920,367	-54,465	94	*	Coast
Arusha	292,855	299,071	-6,216	98	137,303	181,256	-43,953	76	430,158	480,327	-50,169	90	*	Arusha
Shinyanga	364,757	588,613	-223,857	62	485,820	367,803	118,018	132	850,577	956,416	-105,839	89	*	Shinyanga
Dar es Salaam	2,821	158,603	-155,783	2	8,808	103,797	-94,989	8	11,629	262,400	-250,771	4	*	Dar es Salaam

Appendix 3: Recall food situation at regional and district levels - Five Years Back (2010/11 back to 2006/07)

REGION	2006/07		2007/08		2008/09		2009/10		2010/11			2011/12			REGION
	Deficit regions (*)	Deficit Districts	Deficit regions (*)	Deficit Districts	Deficit regions (*)	Deficit Districts	Deficit regions (*)	Deficit Districts	Deficit regions (*)	Deficit Districts (No.)	Deficit Districts	Deficit regions (*)	Deficit Districts (No.)	Deficit Districts (List)	
ARUSHA		3- Monduli, Ngorongoro, Longido	*	1-Monduli (Later, 6: Ars M, Ars V, Longido, Meru, Monduli, Ngorongoro)	*	3- Arusha, Longido, Monduli	*	5-Longido, Monduli, Arusha, Ngorongoro, Meru	*	6	Ngorongoro, Meru, Longido, Karatu, Monduli, Arusha DC	*	7	Karatu, Monduli, Meru, Ngorongoro, Longido, Arusha CC, Arusha DC	ARUSHA
COAST		2-Rufiji, Kisarawe		1-Rufiji (Later, 0)	*	1- Mafia	*	4-Kisarawe, Bagamoyo, Kibaha (V), Mafia				*	2	Mafia, Rufiji	COAST
DAR ES SALAAM	*	3-Kinondoni, Ilala, Temeke	*		*		*		*			*	3	Temeke, Ilala, Kinondoni	DAR ES SALAAM
DODOMA	*	4-Dodoma M, Dodoma V, Kongwa, Mporapwa					*	5-Bahi, Chawino, Kondo, Kongwa, Mporapwa	*	5	Mporapwa, Kongwa, Chawino, Bahi, Dodoma M		2	Dom M, Bahi	DODOMA
IRINGA		5-Iringa V, Kilolo, Makete, Njombe, Ludewa				1-Njombe		2-Iringa (V), Kilolo		1	Iringa (R)		2	Iringa V, Iringa M	IRINGA
KAGERA		1-Bakoba M											2	Muleba, Chato	KAGERA
KIGOMA															KIGOMA
KILIMANJARO		2-Rombo, Moshi V	*	3-Same, Mvanga, Hai (Later, 4: Hai, Mvanga, Same, Moshi V)	*	2- Same, Rombo	*	6-Same, Rombo, Mvanga, Sika, Hai, Moshi		2	Same, Mvanga		5	Mvanga, Moshi DC, Sika, Rombo, Same	KILIMANJARO
LINDI		2-Livale, Nachingwea		2-Kilwa, Livale (Later, 0)				4-Lindi(V), Ruangwa, Nachingwea, Kilwa		2	Lindi, Livale				LINDI
MANYARA		2-Simajiro, Kiteto		2-Mbulu, Simajiro (Later, 5: Bht M, Bht V, Hanang, Mbulu, Simajiro)		5- Babati, Hanang, Kiteto, Mbulu, Simajiro	*	5-Simajiro, Kiteto, Babati V, Mbulu, Hanang	*	2	Simajiro, Kiteto		4	Mbulu, Simajiro, Babati DC, Kiteto	MANYARA
MARA					*	1- Bunda	*	3-Rorya, Bunda, Musoma (V)		5	Rorya, Musoma M, Musoma (R), Bunda na Tarime	*	4	Bunda, Rorya, Musoma M, Musoma V	MARA
MBEYA		3-Mbarali, Chunya, Mbozi						1-Mbarali					2	Chunya, Mbarali	MBEYA
MOROGORO		2-Kilosa, Morogoro V		(Later, 3: Ulanga, Morogoro V, Mvomero)		2- Morogoro R, Mvomero		3-Ulanga, Morogoro V, Kilosa		2	Mvomero, Morogoro (R)				MOROGORO
MTWARA								2-Nanyumbu, Masasi		2	Mtwara (R), Masasi		1	Masasi	MTWARA
MWANZA	*	Magu, Kwimba, Misungwi, Itemela, Nyamagana		(Later, 1: Magu)	*		*	4-Magu, Misungwi, Kwimba, Ukerewe		1	Magu	*	6	Magu, Kwimba, Misungwi, Itemela, Nyamagana, Ukerewe	MWANZA
RUKWA															RUKWA
RUVUMA								1-Tunduru							RUVUMA
SHINYANGA	*	7-Kishapu, Meatu, Maswa, Shinyanga M, Kahama, Bariadi, Bukombe		3-Bariadi, Kishapu, Meatu (Later, 2: Kishapu, Meatu)	*	2- Bariadi, Meatu	*	6-Maswa, Shinyanga(M), Kishapu, Kahama, Shinyanga(V), Meatu		6	Shinyanga (R), Meatu, Kahama, Shinyanga (M), Kishapu, Maswa.	*	8	Bariadi, Kishapu, Meatu, Maswa, Kahama, Shinyanga M, Shinyanga V, Bukombe	SHINYANGA
SINGIDA	*	3-Manyoni, Singida M, Singida V		4-Singida R, Iramba, Singida U, Manyoni (Later, Wahadzabe ethnic group who are wholly hunters and gatherers)	*		*	2-Iramba, Manyoni		1	Manyoni		3	Manyoni, Iramba, Singida	SINGIDA
TABORA		3- Igunga, Tabora M, Sikonge	*		*	1-Uyui (Later, 0)		2-Uyui, Igunga		1	Nzega		4	Nzega, Igunga, Tabora M, Uyui	TABORA
TANGA		3-Mkinga, Korogwe, Lushoto				4-Kilindi, Korogwe, Lushoto, Mkinga		6-Kilindi, Haandeni, Pangani, Korogwe V, Lushoto, Mkinga					1	Tanga J (Later indicated not Tanga Jiji but Mkinga)	TANGA
TOTAL	5	50	5	21 (Pre2007: 17)	9 (Pre2008: 14)	21 (Pre2008: 29)	10	57 districts (Pre2009: 61)	4	36	36 districts (Pre2010: 22)	6	56	56	TOTAL

Appendix 4: Vuli contribution to 2010/11 total production - Normal and Current					
REGION	2009/10 Production (T)	Normal Vuli contribution (%)	Normal-Vuli contribution (T)	Current-Vuli contribution (%)	Current-Vuli contribution (T)
Arusha	430,158	40	172,063	32	138,725
Coast	865,902	10	86,590	8	69,813
Dar es Salaam	11,629	10	1,163	8	938
Dodoma	640,962				
Iringa	613,715				
Kagera	836,223	90	752,600	73	606,782
Kigoma	868,159				
Kilimanjaro	461,722	35	161,603	28	130,292
Lindi	252,385				
Manyara	439,666				
Mara	421,364	45	189,614	36	152,876
Mbeya	1,124,995	5	56,250	4	45,351
Morogoro	675,575	15	101,336	12	81,702
Mtwara	459,905				
Mwanza	944,077	55	519,242	44	418,638
Rukwa	696,336				
Ruvuma	570,244				
Shinyanga	850,577	7	59,540	6	48,004
Singida	410,060		-	-	
Tabora	691,238		-	-	
Tanga	545,927	20	109,185	16	88,030
Bimodal-Tz	8,036,307	27	2,209,187	22	1,781,151
Total-Tz	12,810,818	17	2,209,187	14	1,781,151

Appendix 5: Vulnerable Areas (Prel2011/12)

S/N	REGION	Regional Status (based on SSR analysis)	Districts (No.)	Districts in list (Ranked according to Extents of Severity)
1	SHINYANGA	*	8	Bariadi, Kishapu, Meatu, Maswa, Kahama, Shinyanga M, Shinyanga V, Bukombe
2	ARUSHA	*	7	Karatu, Monduli, Meru, Ngorongoro, Longido, Arusha CC, Arusha DC
3	MWANZA	*	6	Magu, Kwimba, Misungwi, Ilemela, Nyamagana, Ukerewe
4	KILIMANJARO		5	Mwanga, Moshi DC, Siha, Rombo, Same
5	MANYARA		4	Mbulu, Simanjiro, Babati DC, Kiteto
6	MARA	*	4	Bunda, Rorya, Musoma M, Musoma V
7	TABORA		4	Nzega, Igunga, Tabora M, Uyui
8	DAR ES SALAAM	*	3	Temeke, Ilala, Kinondoni
9	SINGIDA		3	Manyoni, Iramba, Singida
10	COAST	*	2	Mafia, Rufiji
11	DODOMA		2	Dom M, Bahi
12	IRINGA		2	Iringa V, Iringa M
13	KAGERA		2	Muleba, Chato
14	MBEYA		2	Chunya, Mbarali
15	MTWARA		1	Masasi
16	TANGA		1	Tanga J (Later indicated not Tanga Jiji but Mkinga)
17	KIGOMA		0	
18	LINDI		0	
19	MOROGORO		0	
20	RUKWA		0	
21	RUVUMA		0	
	TOTAL	6 definitely deficit regions (*)	56	Includes 46 districts determined through RRS1 and 50 determined through TSA.

Appendix 6: Recall Food situation last year (2010/11) based on 2009/10 final forecast

	Total Cereals				Total Non-cereals				Total Food					
REGION	PROD.	REQ.	Gap/	SSR	PROD.	REQ.	Gap/	SSR	PROD.	REQ.	Gap/	SSR	indicator	REGION
	Surplus			(Cer)	Surplus			(Nce)	Surplus			(Tot)	(*)	
Arusha	340,381	295,476	44,905	115	111,780	172,896	-61,116	65	452,162	468,373	-16,211	97	*	Arusha
Coast	480,484	557,201	-76,717	86	449,696	342,333	107,363	131	930,180	899,534	30,646	103		Coast
Dar es Salaam	3,071	154,855	-151,784	2	7,193	101,331	-94,138	7	10,264	256,187	-245,923	4	*	Dar es Salaam
Dodoma	346,894	333,232	13,662	104	127,060	199,095	-72,035	64	473,954	532,327	-58,373	89	*	Dodoma
Iringa	588,123	333,492	254,631	176	131,483	161,359	-29,876	81	719,606	494,851	224,755	145		Iringa
Kagera	231,168	409,476	-178,307	56	511,272	252,392	258,880	203	742,440	661,868	80,572	112		Kagera
Kigoma	383,093	409,256	-26,163	94	362,928	243,053	119,875	149	746,021	652,308	93,712	114		Kigoma
Kilimanjaro	124,332	242,990	-118,657	51	290,143	151,305	138,839	192	414,476	394,294	20,181	105		Kilimanjaro
Lindi	121,634	140,708	-19,073	86	113,964	85,762	28,202	133	235,598	226,470	9,129	104		Lindi
Manyara	273,231	260,444	12,787	105	121,856	144,244	-22,388	84	395,087	404,688	-9,601	98	*	Manyara
Mara	138,813	306,655	-167,843	45	332,187	158,483	173,704	210	470,999	465,138	5,861	101		Mara
Mbeya	729,314	443,656	285,659	164	237,394	240,728	-3,334	99	966,708	684,384	282,324	141		Mbeya
Morogoro	331,744	296,800	34,944	112	182,577	208,089	-25,512	88	514,321	504,889	9,432	102		Morogoro
Mtwara	314,700	369,215	-54,515	85	185,024	127,253	57,771	145	499,724	496,467	3,256	101		Mtwara
Mwanza	376,169	460,679	-84,511	82	465,946	372,301	93,644	125	842,114	832,981	9,134	101		Mwanza
Rukwa	667,354	302,689	364,665	220	141,100	149,139	-8,039	95	808,454	451,828	356,626	179		Rukwa
Ruvuma	575,069	411,908	163,161	140	294,819	139,030	155,789	212	869,888	550,938	318,950	158		Ruvuma
Shinyanga	462,859	450,448	12,411	103	367,796	353,455	14,341	104	830,655	803,903	26,752	103		Shinyanga
Singida	227,808	274,845	-47,037	83	181,692	132,640	49,052	137	409,500	407,485	2,015	100		Singida
Tabora	474,972	366,033	108,938	130	141,658	219,389	-77,731	65	616,629	585,422	31,207	105		Tabora
Tanga	207,254	191,679	15,575	108	166,125	180,070	-13,945	92	373,380	371,749	1,631	100		Tanga
Tanzania	7,398,468	7,011,737	386,731	106	4,923,692	4,134,347	789,345	119	12,322,161	11,146,084	1,176,076	111		Tanzania

Note: * General food deficit indicator

Appendix 7: A comparison of the 2010/11 preliminary forecasts vis-à-vis last year, average and trend values of food crop production													
(Thousand Tonnes)													
Year	Maize	Sorghum	Millets	Rice	Wheat	Cereals	Pulses	Cassava	Bananas	Potatoes	Non-cereals	Total	Year
2009/10	4,475	789	372	1,700	62	7,398	1,254	1,464	975	1,231	4,924	12,322	2009/10
Preliminary-2010/11	4,123	801	311	1,439	113	6,787	1,684	1,568	1,048	1,724	6,024	12,811	Preliminary-2010/11
24yaverage	2,731	722	181	614	80	4,194	640	1,690	822	716	3,867	8,195	Tr/Vt
5yaverage	3,617	808	243	1,024	88	5,781	1,140	1,804	1,045	1,344	5,334	11,115	%age change from 24y-average
Tr/Vt	4,374	770	284	1,398	96	6,922	1,644	1,809	1,173	1,905	6,531	13,452	%age change from 5y-average
%age change from 24y-average	51	11	72	135	40	62	163	-7	28	141	56	56	%age change from Tr/Vt
%age change from 5y average	14	-1	28	41	27	17	48	-13	0	28	13	15	%age change from year t-1
%age change from Tr/Vt	-6	4	10	3	17	-2	2	-13	-11	-10	-8	-5	%age change from Tr/Vt
%age change from year t-1	-8	2	-16	-15	81	-8	34	7	7	40	22	4	%age change from year t-1

Maeneo Tete 2011/12 Kulingana na Tathmini ya Awali (Prel2011)				
S/N	MKOA	Uhaba (*)	Wilaya (idadi)	Wilaya (orodha kulingana na viwango vya athari)
1	SHINYANGA	*	8	Bariadi, Kishapu, Meatu, Maswa, Kahama, Shinyanga M, Shinyanga V, Bukombe
2	ARUSHA	*	7	Karatu, Monduli, Meru, Ngorongoro, Longido, Arusha CC, Arusha DC
3	MWANZA	*	6	Magu, Kwimba, Misungwi, Ilemela, Nyamagana, Ukerewe
4	KILIMANJARO		5	Mwanga, Moshi DC, Siha, Rombo, Same
5	MANYARA		4	Mbulu, Simanjiro, Babati DC, Kiteto
6	MARA	*	4	Bunda, Rorya, Musoma M, Musoma V
7	TABORA		4	Nzegu, Igunga, Tabora M, Uyu
8	DAR ES SALAAM	*	3	Temeke, Ilala, Kinondoni
9	SINGIDA		3	Manyoni, Iramba, Singida
10	PWANI	*	2	Mafia, Rufiji
11	DODOMA		2	Dom M, Bahi
12	IRINGA		2	Iringa V, Iringa M
13	KAGERA		2	Muleba, Chato
14	MBEYA		2	Chunya, Mbarali
15	MTWARA		1	Masasi
16	TANGA		1	Tanga J (Later indicated not Tanga Jiji but Mkinga)
17	KIGOMA			
18	LINDI			
19	MOROGORO			
20	RUKWA			
21	RUVUMA			
	JUMLA	6	56	Majumuisho ya wilaya tete 46 zilizotambuliwa kupitia Taarifa za wataalamu wa wilaya (RRS1) na wilaya 50 zilizotambuliwa kupitia Taarifa fupi za Halmashauri (TSA).