

Subject: **Forecasted Maize Yield**
Region: **Eastern Africa**
Issuing Date: **21 Juli 2011**

INTRODUCTION

The present document provides a preliminary forecast of crop yield expected at the end of the current growing season. Forecasts are provided from halfway the growing season (70 growing days). Although at that time the most critical stages of crop development have passed, the final outcome may still be subject to some change depending on how the second half of the season proceeds. Our forecasts are updated with the most recent satellite data available and distributed through email on a personal subscription basis every ten days.

SUMMARY

Very low maize yields for most countries in the Eastern Africa region.

The maize yields for the entire Eastern Africa region are expected to be very poor for most countries and food shortages can be expected to continue. This is most notable in the main growing areas of maize in Sudan, Somalia, Kenya and Ethiopia with yields between -8% and -14% from the 5-year average. With the worst drought in 60 years the famine can be expected to spread out through the region as crop yields are likely to remain far below the average yields.

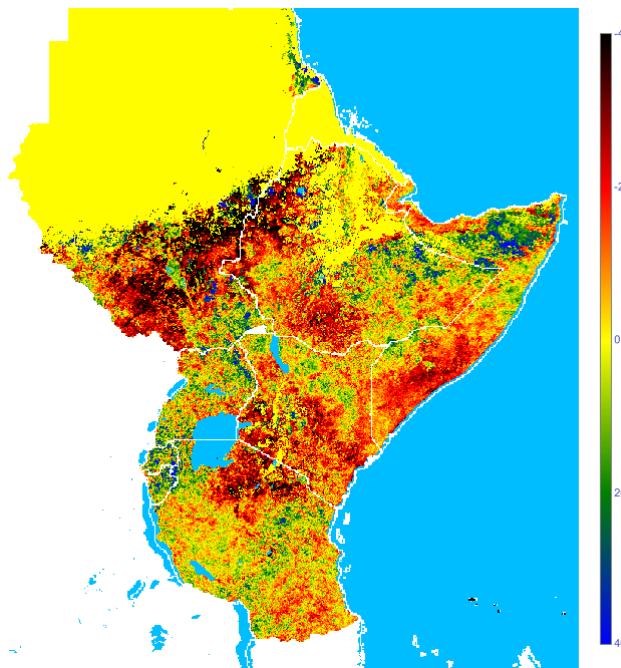


Figure 1: Crop difference yield relative to the 5 yr average (in %)

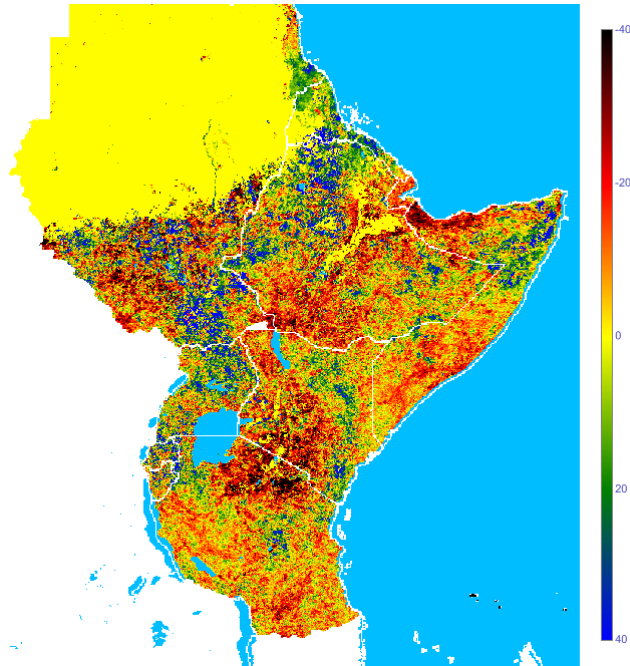


Figure 2: Crop difference yield relative to the previous year (in %)

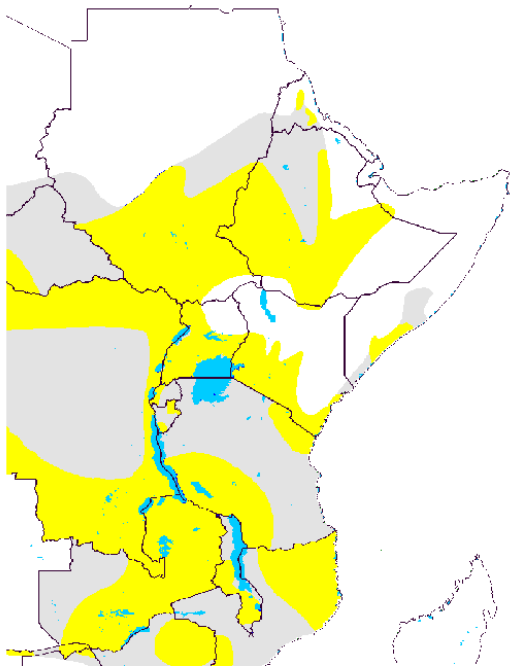


Figure 3: Maize growing areas (FAO)

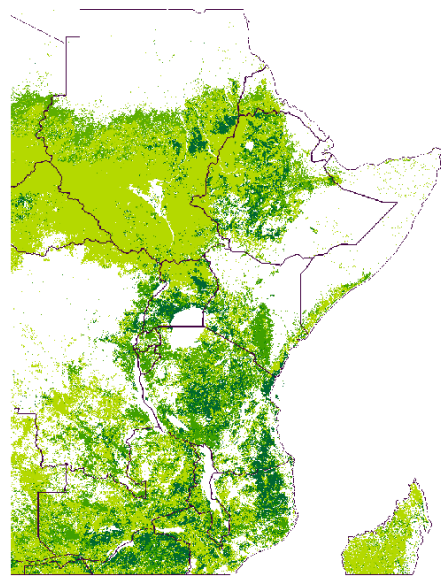


Figure 4: Agricultural areas (USGS)

METHOD

FAST is the acronym of Food Assessment by Satellite Technology, a Meteosat based crop yield forecasting system developed and operated by EARS in Delft, the Netherlands. The assessment of crop growth conditions and the crop yield forecasts are based on visible and thermal infrared hourly data. These data are processed in 3 steps:

1. Hourly Meteosat data are processed to daily average values of surface temperature, air temperature, global radiation, net radiation, potential and actual evapotranspiration.
2. Radiation and evapotranspiration data enter into a crop growth model, which simulates crop yield on a daily basis.
3. Distributed crop yield results are integrated for crop growing areas, countries and provinces. Urban areas, forest, water and barren land are excluded.

CROP

The crop calendar in Figure 5 shows the vegetative period (green), the mid-season period (grey) and the harvesting period (yellow) for the countries in the region. The yield response of the plant to evapotranspiration deficits during the growing season is quantified by the yield response factor k_y , based on the relationship described by Doorenbos & Kassam (1986):

$$(1-RY) = k_y (1-RE)$$

RY is the relative yield and RE the relative evapotranspiration. Drought sensitivity of a crop changes during the growing season. For maize, k_y is 0.4 during establishment, increases to 1.5 during the vegetative period, is kept constant at 1.5 during flowering and yield formation and decreases to 0.5 during ripening.

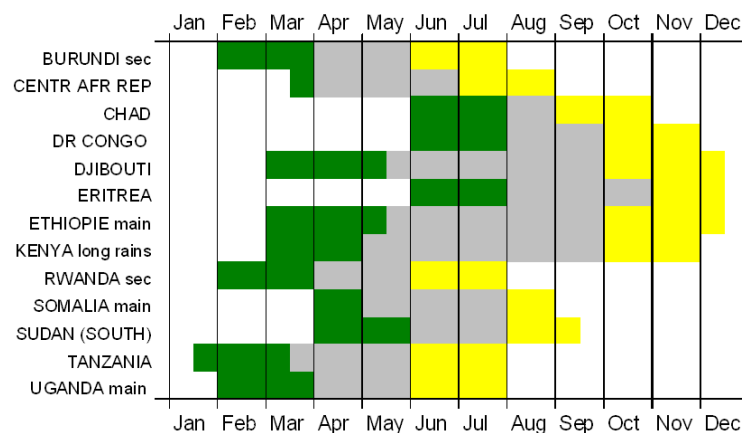


Figure 5: Maize Crop Calendar ©FAO 1997

TABLES Table 2 : Difference yield forecasts at GAUL level 1 The following tabulated data are provided:

Table 1 : Difference yield forecasts at national level

Table 2 : Difference yield forecasts at GAUL level 2

The difference yields for each country, region or province have been determined by spatial integration of pixel values within agricultural areas and the growing areas of the crop. Data at national level are provided both for main and all growing areas.

The difference yield (DY) presents the forecasted yield of the current year in terms of from a reference yield. The difference yields are calculated:

◇ relative to the historical average yield of the five previous years:

$$DY = (Y - Y_{\text{a}}) / Y_{\text{a}}$$

◇ relative to the yield of the previous year Y_p :

$$DY = (Y - Y_p) / Y_p$$

Where Y is the forecasted crop yield of the current year, Y_p the forecasted yield of the previous year, and Y_{a} the average yield of the previous five years.

CONTACT

EARS Earth Environment Monitoring BV Kanaalweg 1, 2628 EB DELFT, the Netherlands
 Telephone: +31-15-2562404, Fax: +31-15-2623857
 Email: fast@ears.nl
 Website: www.ears.nl

REFERENCE

Doorenbos, J., Kassam, A. H. (1986). Yield response to water. FAO irrigation and drainage paper 33. Food and Agricultural Organization of the United Nations, Rome.

CROP GROWING AREAS

FAO crop growing areas (<http://www.fao.org/gIEWS>)

LANDUSE

U.S. Geological Survey, Global Land Cover characteristics data base (<http://edc2.usgs.gov/glcc>)

ADMINISTRATIVE BOUNDARIES

National, regional or provincial averages are calculated based on the administrative boundary layers from the Global Administrative Unit Layers (GAUL) system.

LEGAL NOTICE & DISCLAIMER

The crop yield forecasts are issued to the best of our knowledge and the hypothesis that the remaining part of the season will not face additional extreme events. EARS bv is not responsible or liable, directly or indirectly, for any damage or loss caused or alleged to be caused in connection with your use of the information.

The geographic borders are purely a graphical representation and are only intended to be indicative.

TABLE 1. MAIZE YIELD FORECASTS AT NATIONAL LEVEL

Eastern Africa	Difference Yield (%)			
	All Growing Areas		Main Growing Areas	
	'10/5yrs	'10/'09	'10/5yrs	'10/'09
BURUNDI	11	6	15	8
DJIBOUTI	-6	-13		
ERITREA	0	10		
ETHIOPIA	-5	0	-8	-3
KENYA	-9	-4	-12	-9
RWANDA	12	12	12	10
SOMALIA	-4	-3	-13	-8
SUDAN	-6	1	-14	1
TANZANIA	-4	-6	-1	-6
UGANDA	1	7	0	6

TABLE 2.1. MAIZE YIELD FORECASTS FOR BURUNDI AT GAUL2 LEVEL

BURUNDI	Difference Yield (%)	
	All Growing Areas '10/5yrs	'10/'09
ADMINISTRATIVE UNIT NOT AVAILABLE	0	0
BUHINVUZA	17	13
BUKINANVANA	8	14
BURURI	7	0
BUSONI	17	2
BUTAGANZWA	9	-5
BUTEZI	10	-5
BWERU	18	12
CANKUZO	23	16
GIHANGA	-12	-6
GIHARO	2	-3
GISAGARA	18	12
GISURU	25	31
GITEGA	18	9
GITERANYI	15	3
KAYOGORO	8	4
KIGAMBA	25	21
MISHIHA	27	30
MPINGA-KAYOVE	18	5
MUSIGATI	2	18
MUYINGA	22	7
NYANZA LAC	5	-4
RUMONGE	-5	-8
RUTOVU	11	-3

TABLE 2.4. MAIZE YIELD FORECASTS FOR ERITREA AT GAUL2 LEVEL

ERITREA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
GEL'ALO	0	15
MAI MNE	-1	29
SENAFE	-1	7
TSORONA	-1	30

TABLE 2.5. MAIZE YIELD FORECASTS FOR ETHIOPIA AT GAUL2 LEVEL

ETHIOPIA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
ADMINISTRATIVE UNIT NOT AVAILABLE	15	25
AFAR ZONE 1	-2	-5
AFAR ZONE 2	5	11
AFAR ZONE 3	-2	-10
AFAR ZONE 4	0	0
AFAR ZONE 5	-2	-12
AFDER	-2	-3
ALABA SPECIAL WEREDA	13	8
AMARO SPECIAL WOREDA	-19	-18
ARSI	1	-9
ASOSA	-30	3
AWI	-18	8
BALE	-2	-4
BASKETO SPECIAL WOREDA	-8	-10
BENCHI MAJI	-8	-8
BORENA	-16	-15
BURJI SPECIAL WOREDA	-21	-18
CENTRAL TIGRAY	-6	24
DAWURO	-10	-13
DEGHABUR	10	0
DERASHE SPECIAL WOREDA	-15	-15
DIRE DAWA	-13	-25
EAST GOJAM	2	13
EAST HARERGHE	7	-6
EAST SHEWA	3	1
EAST WELLEGA	-14	6
EASTERN TIGRAY	-1	13
FIQ	3	-1
GAMO GOFA	-13	-17
GEDEO	-17	-15
GODE	-2	2
GUJI	-19	-11

TABLE 2.5. MAIZE YIELD FORECASTS FOR ETHIOPIA AT GAUL2 LEVEL

ETHIOPIA	Difference Yield (%)	
	'10/5yrs	'10/'09
GURAGHE	-3	-6
HADIYA	-4	-3
HADIYA	8	16
HARARI	16	2
ILLUBABOR	-3	9
JIJIGA	8	-10
JIMMA	-5	-4
KAFFA	-5	-10
KEMASHI	-29	-1
KEMASHI	-18	7
KEMBATA ALABA TEMBARO	-6	-4
KONSO SPECIAL WOREDA	-11	-10
KONTA SPECIAL WOREDA	-14	-13
KORAHE(KEBRI DEHAR)	-5	2
LIBEN	-8	-8
METEKEL	-28	2
NORTH GONDER	-12	11
NORTH SHEWA (K3)	2	-1
NORTH SHEWA (K4)	1	11
NORTH WESTERN TIGRAY	-7	24
NORTH WOLLO	0	14
OROMIA ZONE	-2	-17
SHAKA	-2	-7
SHINILE	-3	-10
SIDAMA	-12	-11
SILTIE	14	11
SOUTH GONDER	-3	12
SOUTH OMO	-7	-17
SOUTH WEST SHEWA	0	-1
SOUTH WOLLO	0	7
SOUTHERN TIGRAY	-1	14
WAG HEMIRA	2	24
WARDER	1	0
WEST GOJAM	-13	10
WEST HARERGHE	3	-11
WEST SHEWA	-6	5
WEST WELLEGA	-16	13
WESTERN TIGRAY	-7	11
WOLAYITA	0	-3
YEM SPECIAL WOREDA	-7	-5
ZONE 1	-19	16
ZONE 2	-13	8

TABLE 2.6. MAIZE YIELD FORECASTS FOR KENYA AT GAUL2 LEVEL

KENYA	Difference Yield (%)	
	'10/5yrs	'10/'09
ADMINISTRATIVE UNIT NOT AVAILABLE	-3	-2
BARINGO	-6	-8
BOMET	-19	-11
BONDO	-19	-18
BUNGOMA	-14	3
BURET	-8	7
BUSIA	-15	-3
BUTERE MUMIAS	-19	1
CENTRAL KISII	-21	-2
EMBU	-9	-2
GARISSA	-11	2
GUCHA	-30	-11
HOMA BAY	-9	-2
IJARA	-13	1
ISIOLO	-8	0
KAJIADO	-12	-21
KAKAMEGA	-26	-9
KEIYO	-17	-8
KERICHO	-11	5
KIAMBU	-10	-15
KILIFI	-10	9
KIRINYAGA	1	8
KISUMU	-19	-13
KITUI	-13	-10
KOIBATEK	-10	-8
KURIA	-22	-12
KWALE	-9	9
LAIKIPIA	1	-9
LAMU	-15	-4
LUGARI	-15	2
MACHAKOS	-15	-24
MAKUENI	-12	-21
MALINDI	-12	12
MANDERA	-4	-5
MARAGUA	-8	-10
MARAKWET	-8	-4
MARSABIT	0	2
MBEERE	-19	-17
MERU CENTRAL	-7	-10
MERU NORTH	-19	-16
MERU SOUTH	-3	0
MIGORI	-17	-7
MOYALE	-8	2

TABLE 2.6. MAIZE YIELD FORECASTS FOR KENYA AT GAUL2 LEVEL

KENYA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
MT ELGON	-7	0
MURANGA	1	8
MWINGI	-20	-20
NAIROBI	-18	-20
NAKURU	-5	-7
NANDI	-26	-11
NAROK	-18	-19
NYAMIRA	-20	2
NYANDARUA	-9	-14
NYANDO	-8	-7
NYERI	-7	-9
RACHUONYO	-4	1
SAMBURU	-10	-12
SIAYA	-19	-8
SUBA	-20	-18
TAITA TAVETA	-10	-4
TANA RIVER	-15	3
TESO	-10	3
THARAKA	-25	-13
THIKA	-13	-16
TRANS MARA	-22	-12
TRANS NZOIA	-13	4
TURKANA	-1	-10
UASIN GISHU	-8	2
VIHIGA	-20	-5
WAJIR	-5	2
WEST POKOT	-6	0

TABLE 2.7. MAIZE YIELD FORECASTS FOR RWANDA AT GAUL2 LEVEL

RWANDA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
BICUMBI	3	2
BIRENGA	29	32
GABIRO	8	17
GASHORA	3	-2
KAHI	16	27
KANZENZE	7	-3
KARANGAZI	12	13
KARENGERA	15	17
KAYOVE	4	10
KIGARAMA	15	17
KIVU	17	1
NGENDA	-1	-7
NYARUBUYE	12	6
RUKARA	21	33
RUSUMO	33	35
RWISIRABO	13	28

TABLE 2.8. MAIZE YIELD FORECASTS FOR SOMALIA AT GAUL2 LEVEL

SOMALIA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
ADAN YABAAL	-16	-15
AFGOOYE	-20	-12
AFMADOW	-12	-7
BAARDHEERE	-11	-6
BADHAADHE	-7	0
BAKI	-12	-27
BALCAD	-17	-16
BANDARBEYLA	-4	14
BARAAWE	-13	-5
BAYDHABA	-10	-8
BELET WEYNE	-9	-7
BELET XAAWO	4	-1
BERBERA	-8	-21
BORAMA	-1	-23
BOSSASO	-3	4
BU'AALE	-17	-11
BULO BURTO	-16	-9
BURCO	6	-10
BURTINLE	-1	15
BUUHOODLE	15	2

TABLE 2.8. MAIZE YIELD FORECASTS FOR SOMALIA AT GAUL2 LEVEL

SOMALIA	Difference Yield (%)	
	'10/5yrs	'10/'09
BUUR HAKABA	-22	-11
CABUDWAAQ	-8	-6
CADAADO	2	1
CADALE	-15	-12
CALUULA	-2	-4
CAYNABO	13	1
CEEL AFWEYN	1	-13
CEEL BARDE	0	-1
CEEL BUUR	-8	-6
CEEL DHEER	-11	-7
CEEL WAAQ	-3	-1
CEERIGAABO	16	-2
DHUUSAMARREEB	-7	-6
DIINSOOR	-20	-10
DOOLOW	19	10
EYL	0	9
GAALKACYO	-1	9
GALDOGOB	-5	-2
GARBAHAAREY	0	-5
GAROOWE	5	17
GEBILEY	1	-17
HARGEYSA	3	-10
HOBYO	3	-1
ISKUSHUBAN	1	8
JALALAQSI	-20	-10
JAMAAME	-15	-6
JARIIBAN	-2	10
JILIB	-14	-8
JOWHAR	-22	-11
KISMAAYO	-10	-4
KURTUNWAAREY	-23	-12
LAAS CAANOOD	9	11
LAASQORAY	9	2
LUGHAYE	-14	-29
LUUQ	2	-3
MARKA	-10	-5
OWDWEYNE	3	-11
QANDALA	-1	10
QANSAX DHEERE	-8	-5
QARDHO	8	13
QORYOOLEY	-21	-11
RAB DHUURE	7	13
SAAKOW	-16	-6

TABLE 2.8. MAIZE YIELD FORECASTS FOR SOMALIA AT GAUL2 LEVEL

SOMALIA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
SABLAALE	-16	-6
SHEIKH	-12	-23
TALEEX	26	13
TAYEEGLOW	-12	-11
WAAJID	-6	-8
WANLA WEYN	-21	-8
XARARDHEERE	-7	-5
XUDUN	13	-2
XUDUR	-6	-2
ZEYLAC	-4	-24

TABLE 2.9. MAIZE YIELD FORECASTS FOR SUDAN AT GAUL2 LEVEL

SUDAN	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
ABU JUBAIYAH	-9	-6
ABYEI	-5	1
AD DAMAZIN	-8	-4
AD DINDER	-10	-5
AD DOUIEM	1	1
AKOBO	-15	7
AL DEAIN	0	1
AL FUSHQA	0	0
AL GALABAT	-3	1
AL GUTAINA	0	0
AL JABALIAN	-1	2
AL KURUMUK	-33	-8
AL LEIRI	-18	4
AL MABIEN	-30	-1
AL MAYOM	-16	7
AL RAHD	0	0
AL RENK	-2	3
AL ROSEIRES	2	8
ALIAB	-27	11
AMATONGE	-2	23
ARYAT	11	5
AWEIL	-3	-5
AYOD	-12	9
BAHR AL JABAL	-8	22
BALEIT	-30	-6
BAW	-18	-5

TABLE 2.9. MAIZE YIELD FORECASTS FOR SUDAN AT GAUL2 LEVEL

SUDAN	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
BOR	-17	24
BURAM	-3	-5
DELLING	0	0
FAM AL ZARAF	-23	6
FARING	-7	20
FASHOODA	-19	-6
GEISSAN	-24	-7
GOGRIAL	-15	-6
HAMASHKORIEB	0	1
KADUGLI	-1	0
KAJO KAJI	-8	15
KAPOETA	9	-5
LAGAWA	-1	-1
MAGWI	3	14
MALEK	-25	-26
MALUT	-28	-6
MAYOT	-26	0
MERIDI	-22	-7
MUNDRI	-24	0
NAHR ATIEM	-17	6
NAHR JUR	-27	-20
NAHR LOL	-18	1
NAHR YEI	-22	0
PIBOR	-3	14
PORT SUDAN	3	1
RABKONA	-13	12
RAJA	1	7
RASHAD	-1	0
RUMBEK	-31	-12
SENNAR	-1	0
SHOBET	-34	-17
SHOKODOM	6	11
SINGA	0	0
SINKAT	0	1
SOBAT	-21	6
TALODI	-6	7
TERKAKA	-10	24
TOKAR	15	16
TOMBURA	-11	-9
TONGA	-29	1
TONJ	-27	-7
UM RAWABA	0	0
WANJUK	2	3

TABLE 2.9. MAIZE YIELD FORECASTS FOR SUDAN AT GAUL2 LEVEL

SUDAN	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
WARAB	-14	5
WAT	-26	-5
WAU	-15	-11
YAMBIO	-21	-11
YEROL	-31	-7

TABLE 2.10. MAIZE YIELD FORECASTS FOR TANZANIA AT GAUL2 LEVEL

TANZANIA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
ADMINISTRATIVE UNIT NOT AVAILABLE	-3	-3
ARUMERU	-17	-19
BABATI	-14	-17
BAGAMOYO	-9	-9
BARIADI	-21	-19
BIHARAMULO	8	11
BUKOKA RURAL	0	-1
BUKOMBE	4	8
BUNDA	-9	-9
CHUNYA	-1	-6
DODOMA RURAL	1	6
DODOMA URBAN	1	13
GEITA	2	3
HAI	-10	-16
HANANG	-7	-11
HANDENI	2	5
IGUNGA	-17	-14
ILALA	-5	-5
ILEJE	3	-1
IRAMBA	-14	-11
IRINGA RURAL	1	-4
KAHAMA	-8	1
KARAGWE	9	12
KARATU	-22	-20
KASULU	-2	-8
KIBAHA	-3	-4
KIBONDO	4	3
KIGOMA RURAL	-1	-5
KILINDI	1	-2
KILOLO	5	1
KILOMBERO	-5	-5

TABLE 2.10. MAIZE YIELD FORECASTS FOR TANZANIA AT GAUL2 LEVEL

TANZANIA	Difference Yield (%)	
	All Growing Areas '10/5yrs	'10/'09
KILOSA	-3	-4
KILWA	-6	-5
KINONDONI	-1	-3
KISARAWAWE	0	-3
KISHAPU	-29	-25
KITETO	9	3
KONDOA	-1	-6
KONGWA	2	2
KOROGWE	3	4
KWIMBA	-21	-21
KYELA	-13	-11
LINDI RURAL	-4	-4
LIWALE	-7	-7
LUDEWA	-3	-10
LUSHOTO	1	0
MAGU	-14	-16
MAKETE	4	3
MANYONI	-4	-6
MASASI	-8	-9
MASWA	-24	-20
MBARALI	1	-7
MBEYA RURAL	2	-2
MBEYA RURAL	1	-4
MBINGA	6	-1
MBOZI	1	-3
MBULU	-22	-24
MEATU	-25	-24
MISSUNGWI	-13	-17
MKURANGA	-5	-7
MONDULI	-20	-23
MOROGORO RURAL	-3	-4
MOROGORO URBAN	5	13
MOSHI RURAL	-6	-1
MPANDA	-1	-6
MPWAPWA	3	12
MTWARA RURAL	-4	-5
MUFINDI	3	-7
MUHEZA	-2	2
MULEBA	3	1
MUSOMA RURAL	-10	-9
MVOMERO	-1	0
MWANGA	-13	-14
NACHINGWEA	-11	-8
NAMTUMBO	-7	-15

TABLE 2.10. MAIZE YIELD FORECASTS FOR TANZANIA AT GAUL2 LEVEL

TANZANIA	Difference Yield (%)	
	'10/5yrs	'10/'09
NEWALA	-1	-6
NGARA	24	20
MUSOMA RURAL	-10	-9
MVOMERO	-1	0
MWANGA	-13	-14
NACHINGWEA	-11	-8
NAMTUMBO	-7	-15
NEWALA	-1	-6
NGARA	24	20
NGORONGORO	-17	-20
NJOMBE	4	-3
NKASI	-1	-2
NZEGA	-12	-7
PANGANI	-1	6
ROMBO	5	4
RUANGWA	-5	-6
RUFIJI	0	-3
RUNGWE	-1	-8
SAME	-7	-7
SENGEREMA	0	-3
SERENGETI	-19	-19
SHINYANGA RURAL	-19	-9
SHINYANGA URBAN	-30	-25
SIKONGE	-2	-4
SIMANJIRO	-8	-18
SINGIDA RURAL	-15	-10
SINGIDA URBAN	-12	-2
SONGEA RURAL	0	-7
SONGEA URBAN	2	-9
SUMBAWANGA RURAL	1	0
SUMBAWANGA URBAN	4	1
TABORA URBAN	0	0
TANDAHIMBA	-4	-3
TANGA	-1	-1
TARIME	-4	-3
TEMEKE	-10	-10
TUNDURU	-7	-8
UKEREWE	2	1
ULANGA	-7	-10
URAMBO	-5	-5
UYUI	-4	-3
UYUI	-2	2

TABLE 2.11. MAIZE YIELD FORECASTS FOR UGANDA AT GAUL2 LEVEL

UGANDA	Difference Yield (%)	
	'10/5yrs	'10/'09
ADJUMANI	-2	6
AGAGO	3	17
AMURIA	4	20
ARINGA	-8	4
ARUU	-3	17
ASWA	-2	17
AYIVU	-13	-6
BBAALE	-3	8
BOKORA	16	14
BUBULO	-4	6
BUDADIRI	6	19
BUDAKA	-8	1
BUDIOPE	3	20
BUFUMBIRA	14	22
BUGABULA	-3	4
BUGAHYA	3	7
BUGANGAIZI	-5	-4
BUGWERI	-7	-4
BUHAGUZI	4	8
BUHWEJU	10	1
BUJENJE	7	18
BUJUMBA	0	1
BUKANGA	9	10
BUKEDEA	-6	-1
BUKOMANSIMBI	4	9
BUKONJO	6	10
BUKOOLI	-3	-2
BUKOTO	3	5
BULAMBULI	-8	-2
BULAMOGI	-1	15
BULIISA	4	5
BUNGOKHO	-4	12
BUNYA	-3	-3
BUNYANGABU	7	2
BUNYARUGURU	7	8
BUNYOLE	-9	-3
BURAHYA	-3	1
BURULI	6	12
BURULI M	9	25
BUSIKI	-8	-1
BUSIRO	-5	-3
BUSONGORA	3	6
BUSUJJU	-8	1
BUTAMBALA	-13	-10

TABLE 2.11. MAIZE YIELD FORECASTS FOR UGANDA AT GAUL2 LEVEL

UGANDA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
BUTEBO	1	12
BUVUMA ISLANDS	0	0
BUWEKULA	-4	-4
BUYAGA	4	3
BUYANJA	-2	-5
BUYIKWE	-5	-4
BUZAAYA	-7	-7
BWAMBA	5	5
CHUA	11	27
DODOTH	2	-1
DOKOLO	2	15
ERUTE	1	11
GOMBA	-5	-4
IBANDA	8	8
IGARA	10	9
ISINGIRO	8	14
JIE	17	20
JONAM	6	2
KABERAMAIDO	-2	9
KABULA	5	8
KADANI (CHEKWII)	6	4
KAGOMA	3	9
KAJARA	15	6
KAKUUTO	4	6
KALAKI	3	16
KALUNGU	0	-5
KAPELEBYONG	8	19
KASHARI	3	8
KASILO	-2	6
KASSANDA	-12	-6
KATIKAMU	-2	0
KAZO	-1	4
KIBALE	4	7
KIBANDA	2	13
KIBOGA	-4	3
KIBUKU	-8	7
KIGULU	-20	-16
KILAK	-4	8
KINKIIZI	2	7
KISOKO (WEST BUDAMA)	-1	4
KITAGWENDA	2	2
KOBOKO	-19	-8
KOLE	0	12

TABLE 2.11. MAIZE YIELD FORECASTS FOR UGANDA AT GAUL2 LEVEL

UGANDA	Difference Yield (%)	
	'10/5yrs	'10/'09
KOOKI	10	9
KUMI	1	13
KWANIA	-2	16
KWEEN	1	1
KYADONDO	9	4
KYAKA	4	7
KYAMUSWA	0	0
KYOGA	-3	3
KYOTERA	7	4
LABWOR	7	10
LAMWO	5	24
LUUKA	-7	-12
LWEMİYAGA	9	13
MADI-OKOLLO	-7	-7
MARACHA	-16	-9
MARUZI	2	16
MATHENIKO	3	3
MAWOGOLA	3	10
MAWOKOTA	-10	-6
MITYANA	-3	3
MOROTO	2	16
MUKONO	-3	-2
MWENGE	-2	0
NAKASEKE	-1	9
NAKIFUMA	-6	5
NDORWA	15	31
NGORA	-3	7
NTENJERU	-2	9
NTOROKO	6	4
NWOYA	-1	3
NYABUSHOZI	3	6
OBONGI	-2	5
OKORO	-8	4
OMORO	-3	13
OTUKE	3	28
OYAM	1	15
PADYERE	-2	6
PALLISA	-3	14
PIAN	16	13
RUBABO	14	15
RUBANDA	24	32
RUHAAMA	13	8
RUHINDA	13	12

TABLE 2.11. MAIZE YIELD FORECASTS FOR UGANDA AT GAUL2 LEVEL

UGANDA	Difference Yield (%)	
	All Growing Areas	
	'10/5yrs	'10/'09
RUJUMBURA	8	11
RUKIGA	10	12
RUSHENYI	7	1
RWAMPARA	9	7
SAMIA-BUGWE	-11	-10
SERERE	1	21
SHEEMA	11	8
SOROTI	0	16
TEREGO	-3	2
TORORO	-2	2
UPE	10	18
USUK	4	11
VURRA	-19	-10
WABUSANA (BAMUNANIKA)	5	12
WEST MOYO	-5	17