



10-Day Rainfall & Agromet Bulletin

Department of Meteorological Services



Period: 01 – 10 March 2006

Season: 2005/2006

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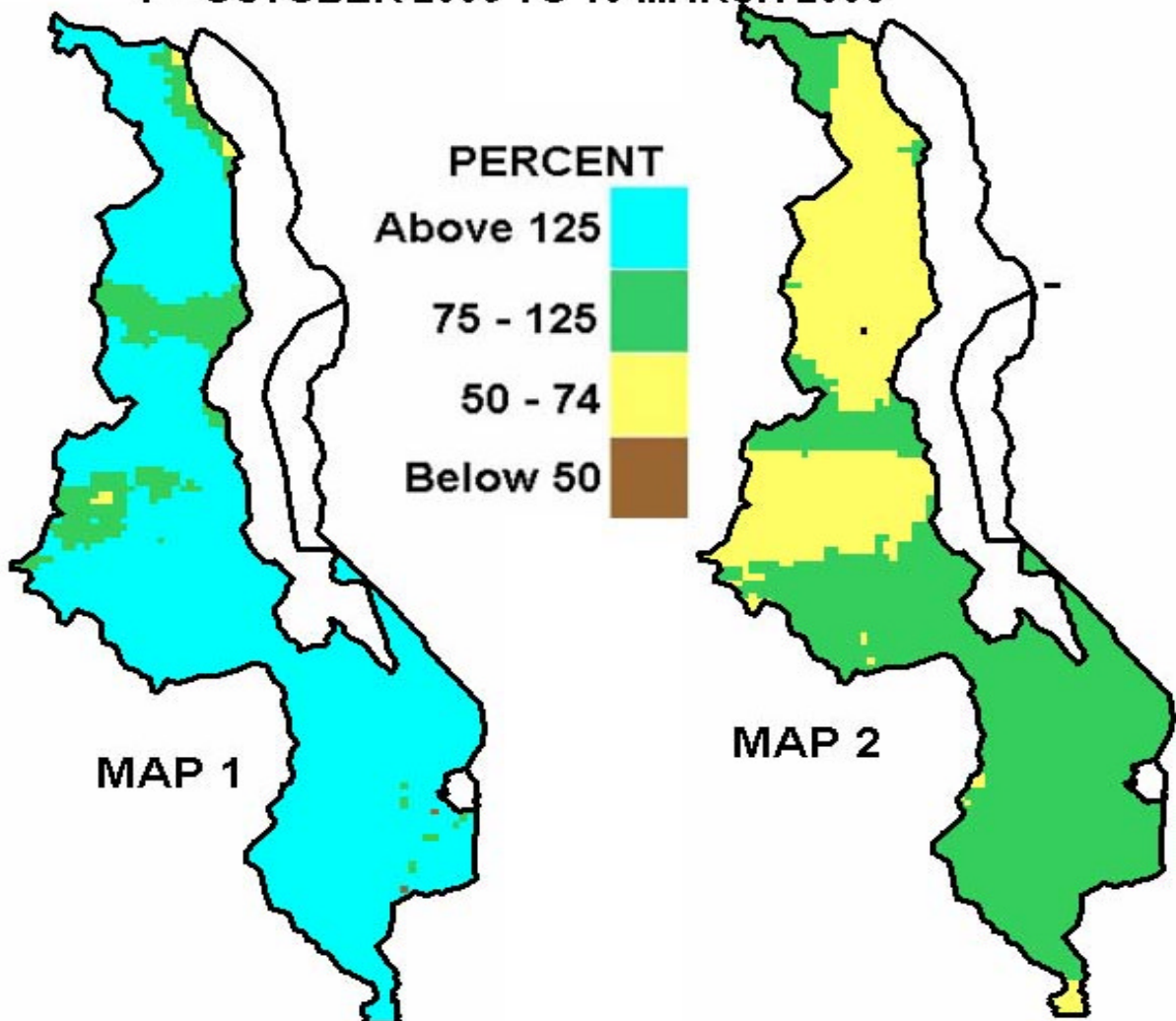
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HIGHLIGHTS

- Heavy rains cause floods in Salima, Mangochi and Machinga...
- Incessant rains cause drying and harvesting problems...
- Isolated light rains expected during 11 to 20 March 2006...

**MAP 1: 10-DAY RAINFALL FOR 01 – 10 MARCH 2006
AS PERCENTAGE OF NORMAL RAINFALL**

**MAP 2: TOTAL RAINFALL TO DATE AS PERCENTAGE
OF NORMAL RAINFALL FOR THE PERIOD
1ST OCTOBER 2005 TO 10 MARCH 2006**



. WEATHER SUMMARY**1.1 RAINFALL**

During the first 10-days of March 2006, Inter Tropical Convergence Zone oscillated between southern and central Malawi while Congo Air mass was active in areas that were north of it. As a result there was an improvement in rainfall distribution and amounts in both time and space in over most parts of Malawi. Most areas experienced continuous rains with high intensities. On average eight rainy days were reported over Malawi. Torrential rains caused much above normal dekadal rainfall amounts in most areas particularly in the south where Lujeri reached 1939%, Namiasi Agric 679%, Monkey Bay 580% and Mangochi 486%. Notable 10-day total rainfall amounts above 300mm were reported as follows: Salima Met registered about 600mm of which 205mm was received on 4th March alone, Lifuwu collected 413mm and Monkey Bay Met 352mm. See Table 1 and Map 1.

Cumulative rainfall performance since 1st October 2005 indicates that as at 10th March 2006 most areas in the north and some parts of the centre had received below 75% of the expected cumulative rainfall. The south had received between 75 and 125% of normal cumulative rainfall. See Table 1 and Map 2.

. MEAN AIR TEMPERATURE

The highlands were warm while the hot weather was experienced in low lying areas. Mean maximum temperatures ranged from 24°C to 31°C. See Table 2.

. MEAN DAILY WIND SPEEDS

Daily mean wind speeds measured at a height of 2 meters above the ground remained light and variable. The average speeds ranged from 0.5 (1.8 Km/hr) at Ntaja Met to 2.3 m/s (8.3 Km/hr) at Chichiri Met. See Table 2.

. MEAN RELATIVE HUMIDITY

High daily average relative humidity values were experienced during the period under review. This time the values ranged from 75% reported at Ngabu to 90% registered at Bvumbwe. See Table 2.

. AGROMETEOROLOGICAL ASSESSMENT

Rains that resumed in most areas during the period under review came too late for crops in some parts of the country to recover from the effects of dry spells that lasted for over a month. Reports indicate that some households will harvest nothing. On the other hand, the rains have improved water resources and supported planting and growth and development of tuber crops. However, incessant rains caused drying and harvesting problems for matured crops particularly over the south and some parts of central region where most crops have reached maturity, dying and harvesting stages. Persistent high relative humidity values experienced encouraged occurrence of fungal diseases that might increase pre-harvest crop losses this season. In Salima and Mangochi, torrential rains caused flash floods that left farm families homeless, destroyed crops and washed away bridges and roads. Crop production in flooded areas will significantly reduce as crops were washed away and the little that remained is already being harvested for immediate consumption. More details about the impact of the dry spells and floods on overall crop production this season will be provided by the Ministry of Agriculture and Food security when the second round production figures are presented in the first week of April.

. FORECAST FOR – MARCH

Current atmospheric pattern indicate that a general reduction in rainfall amounts is anticipated over Malawi. There expect rains to be confined to isolated areas during 11 to 20 March 2006.

**TABLE 1: DEKADAL RAINFALL FOR SELECTED STATIONS FOR
DEKAD 1 OF MARCH 2006: PERIOD 01 - 10**

STATION NAME	DEKADAL TOTAL RAINFALL mm	DEKADAL NORMAL mm	DEKADAL TOTAL AS % NORMAL	TOTAL TO DATE mm	NORMAL TO DATE mm	TOTAL TO DATE AS % NORMAL	RAINY DAYS
SOUTHERN REGION							
Bvumbwe Met.	116.1	73.2	159	1068.7	874.1	122	10
Chancellor College	138.2	110.7	125	1048.5	1127.8	93	7
Chichiri Met.	124.8	76.8	163	1057.5	887.1	119	9
Chileka Airport	65.6	53.6	122	893.1	736.7	121	6
Chingale Agric	147.5	57.7	256	760.0	801.8	95	8
Chiradzulu Agric	104.4	72.0	145	920.9	877.4	105	6
Kasinthula Res. Stn.	146.6	87.2	168	976.1	616.4	158	6
Liwonde Township	167.2	63.0	265	754.4	709.2	106	9
Lujeri Tea Estate	287.0	14.8	1939	1426.8	1466.3	97	10
Makoka Met	140.5	85.3	165	1112.7	853.1	130	9
Mangochi Met.	283.5	58.3	486	696.9	704.0	99	8
Mimosa Met.	221.2	112.2	197	1291.8	1111.0	116	9
Monkey Bay Met.	351.7	60.6	580	808.2	851.8	95	6
Mulanje Boma	271.4	136.6	199	1905.9	1251.5	152	8
Mwanza Boma	137.3	73.8	186	895.6	832.3	108	7
Namiasi Agric	280.4	41.3	679	775.6	710.3	109	8
Naminjiwa Agric	159.3	50.1	318	1018.4	815.7	125	8
Namwera Agric	279.0	70.4	396	1298.3	879.0	148	8
Nchalo Sucoma	142.2	57.0	249	758.1	588.6	129	6
Ngabu Met.	84.6	52.1	162	673.4	645.0	104	8
Ntaja Met.	217.9	55.8	391	785.0	740.9	106	8
Thyolo Met	151.7	87.7	173	1065.7	915.8	116	9
CENTRAL REGION							
Bunda College	150.8	60.7	248	533.4	743.5	72	5
Chitedze Met.	137.0	59.1	232	636.4	768.6	83	7
Dowa Agric	70.8	61.6	115	598.2	740.9	81	8
Dwangwa Sugar Corp.	165.5	128.4	129	769.2	928.7	83	9
Kaluluma DTC	231.6	69.5	333	657.7	686.6	96	9
K.I.A Met	159.3	72.4	220	736.4	727.4	101	8
Kasungu Met	111.0	62.1	179	481.1	768.8	63	4
Lifuwu	412.7	119.0	347	1061.8	1050.7	101	9
Lisasadzi	77.1	52.9	146	408.5	719.1	57	8
Madisi Agric	100.0	59.5	168	559.8	727.0	77	8
Mlangeni Njolomole	222.5	75.0	297	977.9	843.7	116	6
Mwimba Research	56.2	100.9	56	622.6	824.0	76	4
Nkhotakota Met	172.3	121.1	142	746.0	1017.6	73	7
Ntcheu – Nkhanda	196.3	79.9	246	1000.3	921.5	109	6
Ntchisi Boma	115.0	53.5	215	480.7	733.2	66	8
Salima Met	599.6	111.3	539	1467.3	1023.0	143	9
Dedza RTC	199.3	86.8	230	807.3	851.5	95	8
NORTHERN REGION							
Bolero Met	106.5	56.2	190	415.7	627.7	66	7
Bwengu Agric.	95.9	41.2	233	447.2	676.6	66	8
Chitipa Met	153.4	68.2	225	789.1	799.4	99	8
Emfeni Agric	212.0	66.0	321	523.7	679.7	77	9
Karonga Met.	38.5	76.3	50	376.6	662.6	57	7
Mzimba Met	68.9	73.9	93	535.7	750.4	71	10
Mzuzu Met.	90.3	83.8	108	447.1	830.7	54	10
NkhataBay Met.	102.3	92.5	111	696.2	1046.5	67	10
Vinthukutu Agric	66.7	83.6	80	616.0	736.9	84	9

**TABLE 2: AGROMETEOROLOGICAL PARAMETERS
FOR DEKAD 1 OF MARCH 2006**

STATION	MAX TEMP	MIN TEMP	ABS MAX	ABS MIN	WIND SPEED	RH
	(°C)	(°C)	(°C)	(°C)	m/s	%
BVUMBWE	25.4	17.2	27.2	15.0	1.0	90
BOLERO	26.5	18.9	29.1	18.0	0.5	85
CHICHIRI	25.6	18.8	27.6	17.0	0.6	85
CHILEKA	27.2	20.6	29.5	19.1	2.3	83
NTAJA	28.1	21.3	30.0	20.0	0.5	86
CHITEDZE	26.1	18.5	N/A	N/A	0.5	80
CHITIPA	25.3	17.5	27.6	16.2	1.1	83
KASUNGU	28.9	19.1	30.9	18.6	1.3	86
KARONGA	29.1	21.9	32.6	24.5	1.1	79
K.I.A	24.9	18.1	27.7	17.0	1.4	86
MAKOKA	26.4	19.1	28.4	18	1.4	86
MANGOCHI	29.9	22.3	31.0	21.0	1.1	81
MIMOSA	28.8	20.2	32.8	19.0	1.7	87
MONKEY BAY	29.0	22.4	30.8	29.9	1.4	87
MZIMBA	23.9	17.6	26.4	17.0	0.7	87
MZUZU	24.8	17.7	27.1	16.6	1.4	87
NGABU	31.1	23.6	36.4	22.4	1.3	75
NKHATA BAY	28.0	21.6	30.4	20.6	N/A	89
NKHOTAKOTA	27.1	21.8	29.8	20.5	1.4	81
SALIMA	28.1	21.9	30.4	20.9	1.6	86

Glossary of some terms on this table

- RH = Relative Humidity
- Mean Temperature of the day =(Max of the day + Min of the same day)/2
- ABS Max (Min) = Absolute Maximum (minimum) is the highest (lowest) of maximum (minimum) temperatures observed for a given number of days (calendar month) of a specified period of months (years).
- To convert Meters Per Second (mps) to Kilometers per hour (Km/hr) = mpsx3.6