

HIGHLIGHTS

- Above average rainfall received in most areas ...
- Crops were mostly at drying and harvesting stages...
- Mainly dry weather expected during the period 11 to 20 April 2014...





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1.0 WEATHER SUMMARY AND IMPACTS

1.1 RAINFALL SITUATION

During the first ten days of April 2014, the greater part of Malawi received above average rainfall amounts (light blue colour on Map 1) except for Balaka and surrounding areas in the south and an area stretching from Kasungu to Nkhotakota in central Malawi (yellow and brown colours in Map 1). Heavy rains were recorded in northern Malawi particularly over highlands and along the lakeshore where Nkhata Bay Met in eight days recorded 531mm, followed by Chintheche Agric 220mm, Chikangawa Forest had recorded 217mm, Karonga Met received 139mm and Mzuzu Met 134mm. According to media reports heavy rains caused floods in Nkhata Bay district. Otherwise generally most areas in Malawi registered light to moderate rainfall amounts ranging from 0 to 80mm. More details are in Table 1 and Map 1.

Map 2 shows the cumulative rainfall performance across the country since the rainfall season started on 1st October 2013 up to 10th April 2014. The map shows that most areas in Malawi have received their seasonal average cumulative rainfall amounts (green colour on Map 2) with a few pockets of below average cumulative rainfall (yellow colour) centred around Balaka and Chikwawa districts in southern Malawi. For more details refer to Table 1 and Map 2.

1.2 AIR TEMPERATURE

Warm to temperatures were maintained over Malawi during the first ten days of April 2014. Mean daily maximum temperatures ranged from 23.2°C at Dedza to 32.5°C at Ngabu. The highest absolute maximum temperature for the period was still observed at Ngabu (36.8°C) while the lowest absolute minimum temperature was recorded at Bvumbwe (11.2°C) For more details see Table 2.

1.3 WIND SPEEDS

Mean wind speeds at a height of two metres above ground level had remained light and from variable direction. The mean daily wind speeds had ranged from 0.4 to 2.7 metres per second. The lowest mean wind speed was observed at Kasungu .while the highest mean wind speed was reported at Chileka Airport More details are in Table 2.

1.4 RELATIVE HUMIDITY

During the first ten days of April 2014, the amounts of moisture in the atmosphere had remained fairly good. The mean daily relative humidity values ranged from 70% at Salima to 88% at Mzuzu Airport. More details are on the Table 2. High relative humidity values promote incidences fungal diseases.

2. AGROMETEOROLOGICAL ASSESSMENT

During the first ten days of April 2014 wet weather had persisted over most areas as indicated by above average cumulative rainfall amounts. Below average rainfall amounts and dry conditions were only confined to a few places. The wet weather was good for growth and development of root and tuber crops as well as the late planted crops while dry conditions had facilitated harvesting and drying of matured crops. The rains had also increased prospects for residual moisture and irrigated farming. On the negative note the wet weather had hampered harvesting and drying of matured crops. Maize crop was mostly at drying stage and harvesting was in progress particularly in southern Malawi

The maize yield forecasting model estimates that during the 2013/14 farming season Malawi is likely to produce **3,283,676MTs** of maize from the rain-fed crop. This estimate is down by **18%** from first round estimate figure of **3,993,980MTs**. The drop is due to negative effects of low rainfall and prolonged dry spells in March as well as late start of the season and early cessation of the main rains

At national level the food security picture looks good. However household food shortages will still exist as some farming households particularly in Karonga, Balaka, Nsanje and some parts of Rumphi and Mzimba districts may not harvest enough maize to take them through to the next harvesting season.

3. PROSPECTS FOR 2013/14 RAINFALL SEASON

The rainfall outlook for October 2013 to March 2014 had suggested that *Malawi would experience normal to above normal total rainfall amounts.* However, a comparison of observations for the period and the 1971–2000 climate has shown that overall the country has experienced normal to below normal rainfall and most of the rainfall was received in January and February 2014 Meanwhile more rains are being received over northern Malawi.

4. OUTLOOK FOR 11 TO 20 APRIL2014

Models for short and medium term weather forecasts suggest that over most parts of Malawi the main rains are tailing off. Meanwhile, series of high pressure systems passing through south coast of the subcontinent are expected to maintain moist air over some parts of Malawi. As a result occasional rainfall is expected to be confined to highlands and along the lakeshore during the second ten days of April 2014.

TABLE 1: DEKADAL RAINFALL FOR SELECTED STATIONS FOR 01 TO 10 APRIL 2014

	ACTUAL DEKADAL TOTAL RAINFALL	DEKADAL NORMAL (EXPECTED) RAINFALL	ACTUAL TOTAL AS PERCENTAGE OF NORMAL (EXPECTED)	TOTAL ACTUAL RAINFALL TO DATE	NORMAL (EXPECTED) RAINFALL TO DATE	ACTUAL TODATE AS PERCENTAGE OF NORMAL	RAINY DAYS
STATION NAME	mm	mm	`RAINFALL ´	mm	mm		≥ 0.3 mm
SOUTHERN REGION							
Balaka Township	0.0	21.4	0	462.2	830.9	56	0
Bvumbwe Met.	29.5	30.7	96	900.7	1046.8	86	6
Chichiri Met.	50.5	29.0	174	865.3	1057.5	82	5
Chikwawa Boma	0.0	21.2	0	545.3	735.2	74	0
Chikweo Agric.	22.7	27.1	84	782.7	1028.2	76	2
Chileka Airport	30.2	20.0	151	619.4	846.9	73	2
Chingale Agric	7.5	25.9	29	740.0	889.1	83	1
Chiradzulu Agric	22.3	22.4	100	712.1	941.9	76	4
Mpilipili (Makanjila)	0.0	18.5	0	537.7	864.0	62	0
Makoka Met	51.1	30.7	166	768.7	935.0	82	2
Mangochi Met.	0.0	20.2	0	862.7	683.5	126	0
Masambanjati Agric	88.5	51.7	171	1053.5	1240.3	85	5
Mimosa Met.	103.6	63.8	162	1108.3	1331.8	83	6
Monkey Bay Met.	15.2	6.5	234	831.1	558.1	149	1
Mulanje Boma	129.1	82.2	157	1518.9	1606.3	95	4
Mwanza Boma	7.6	34.9	22	767.4	971.8	79	3
Namiasi Agric	0.0	4.6	0	546.5	737.6	74	0
Namwera Agric	43.1	34.5	125	817.8	1006.7	81	1
Nchalo	34.5	18.9	183	460.1	624.3	74	4
Neno Agric	50.6	36.3	139	880.1	1047.4	84	3
Ngabu Met.	18.1	17.9	101	615.3	722.7	85	5
Nsanje Boma	5.6	21.7	26	674.1	1022.2	66	1
Phalula Agric	0.0	14.3	0	387.1	799.1	48	0
Satemwa Tea Estate	67.0	46.5	144	1346.1	1024.9	131	5
Thyolo Boma	64.6	42.6	152	839.2	1091.4	77	5
Thyolo Met	43.2	30.7	141	1198.4	1137.8	105	5
Zomba RTC	13.0	42.0	31	997.9	1153.8	86	2
CENTRAL REGION						1	
Chitedze Met.	63.3	29.3	217	716.4	859.0	83	4
Dedza Met	19.3	25.6	75	901.5	904.8	100	4
Dowa Agric	21.8	24.5	89	725.9	859.9	84	5
Dwangwa Sugar Corp.	78.0	92.8	84	1078.9	1228.9	88	5
K.I.A Met	69.5	19.6	355	771.3	830.4	93	5
Kasungu Met	2.0	17.6	11	728.8	760.8	96	2
Madisi Agric	60.0	16.3	368	708.6	812.7	87	3
Mkanda Met	23.0	25.9	89	729.6	853.3	86	3
Mlangeni Njolomole	21.1	24.3	87	732.1	939.5	78	3
Mponela Agric	14.0	11.6	121	497.7	779.0	64	2
Nathenje Agric	88.5	44.0	201	743.0	840.3	88	4
Nkhotakota Met	8.5	97.1	9	1590.9	1341.7	119	1
Salima Met	5.5	44.8	12	997.5	1168.2	85	2
Dedza RTC	30.5	22.5	136	832.8	967.5	86	4
NORTHERN REGION						-	-
Bolero Met	35.9	18.2	192	540.3	614.1	88	6
Bwengu Agric.	49.3	21.7	227	571.7	733.9	78	5
Chikangawa forest	217.0	70.3	309	1713.2	1039.0	165	9
Chitipa Met	23.1	37.9	61	815.6	918.4	89	6
Chintheche Agric	220.4	146.7	150	1739.0	1472.3	118	6
Euthini Agric.	46.3	22.6	205	804.9	748.1	108	2
Karonga Met.	138.8	88.0	158	808.9	895.7	90	9
Mbawa Res. Stn	2.6	16.5	16	615.9	781.6	79	2
Mzimba Met	29.9	23.5	127	875.1	862.3	101	6
Mzuzu Met.	134.6	89.2	151	1049.6	965.4	109	8
NkhataBay Met.	530.9	133.0	399	1751.3	1215.9	144	8
Zombwe Agric	69.4	36.0	193	838.7	716.9	117	5

TABLE 2: AGROMETEOROLOGICAL PARAMETERS FOR 01 TO 10 APRIL 2014

STATION	MAX	MIN	ABS	ABS	WIND	RH (%)	EVAP					
	TEMP (°C)	TEMP (°C)	MAX (°C)	MIN (°C)	SPEED (m/s)		(mm)					
KARONGA ADD												
Chitipa	25.7	17.7	29.0	15.5	2.6	81	N/A					
Karonga	29.0	20.0	30.7	18.5	0.8	79	N/A					
Bolero	26.6	17.4	30.0	16.5	N/A	80	N/A					
Mzuzu	23.5	16.8	26.0	15.6	1.4	88	N/A					
Mzimba	25.7	16.1	28.1	15.6	1.0	77	N/A					
Nkhata Bay	28.3	20.6	31.7	19.8	0.7	86	N/A					
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Kasungu	28.5	N/A	30.8	N/A	0.4	72	N/A					
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KIA	27.4	16.3	27.8	13.2	1.6	77	3.7					
Chitedze	27.3	16.1	30.1	14.2	0.8	76	N/A					
Dedza	23.2	14.5	26.1	11.9	1.7	N/A	N/A					
SALIMA ADD	1											
Salima	29.9	22.2	32.1	19.5	2.6	70	N/A					
Nkhotakota	28.2	21.5	30.0	19.9	2.3	73	N/A					
MACHINGA ADD												
Makoka	26.5	16.6	31.0	15.4	1.1	80	N/A					
Monkey Bay	29.9	21.6	32.5	19.5	2.0	71	N/A					
BLANTYRE ADD												
Chileka	27.7	18.6	31.0	17.0	2.7	72	N/A					
Chichiri	25.1	16.9	30.0	14.4	1.5	74	N/A					
Bvumbwe	24.4	13.0	28.8	11.2	1.7	77	N/A					
Mimosa	28.8	17.6	34.1	14.7	0.8	79	4.3					
SHIRE VALLEY ADD												
Ngabu	32.5	21.7	36.8	19.8	1.4	78	N/A					

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