

Brief on

Gep-2014 FLOODs



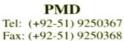
Director General PMD











Pakistan
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Email: Pakmet_islamabad@yahoo.com

Date: 6th August, 2014

Monsoon Update

Outlook for Monsoon 2014 (August - September)

During July 2014 summer monsoon rainfall in Pakistan remained 39% below normal and for rest of the period during August and September, below normal trend is likely to continue.

The erratic behavior of current monsoon, due to prevailing El Nino conditions is likely to continue in Pakistan. During the month of August and September, the monsoon rainfall in Pakistan is likely to remain by and large normal embedded with few extreme rainfall events during mid August to mid September. The northern parts may receive nearly normal rains during the period. While well below normal rains are expected in the southern parts of the country. It means that overall availability of water in the country from monsoon rainfall would be satisfactory.

Note: This update is prepared at 80% confidence level and meant for planning purpose only.

(HAZRAT MIR)
Director General, PMD







Performance of Monsoon 2014 over Pakistan

PERCENTAGE DEPARTURE (01-07-2014 TO 06-09-2014)

Region	Jul	Aug	Sep*	Jul-Sep*
Pakistan	-40	-49	91	-23
Azad J&K	-26	-41	156**	0
Balochistan	-34	-46	-36	-39
Gilgit-Baltistan	18	-44	514**	119
Khyber-PK	-31	-37	-36	-32
Punjab	-30	-45	200***	-1
Sindh	-96	-81	-13	-78

<u>NOTE</u>

All calculations are provisional & based on real time values upto 06-09-2014*.

** Second highest September rainfall after 1992 during 1961-2014

*** Fourth highest September rainfall after 2012, 2011 & 1992 during 1961-2014





Weather Advisory-1

Date: September 01, 2014, Time: 1500 hrs

<u>Widespread Rains/Thunderstorm Predicted during the Current Week</u> <u>Heavy Rains expected in Sindh, Punjab and Kashmir</u>

A well marked Low Pressure Area (LPA) is located over eastern India (Southeastern Madhya Pradesh) and is likely to move west-northwestward during next 2 days. Under the influence of this weather system, strong monsoon current will start to penetrate in Pakistan (Punjab, Sindh and Kashmir) on Tuesday/Wednesday. This LPA has a potential to produce heavy at times very heavy rainfall over northeast Pakistan (upper Punjab & Kashmir) during Wednesday to Friday.

Punjab Forecast

Widespread rain/thundershowers with isolated heavy falls very heavy at times are expected in Bahawalpur, DG Khan, Sahiwal, Lahore, Gujranwala, Rawalpindi divisions and Islamabad during Tuesday to Friday. Scattered rain/thundershowers are also expected in rest of the areas (Multan Faisalabad and Sargodha divisions) during Tuesday to Friday. Heavy falls may generate flash/urban flooding in the vulnerable areas.

Kashmir Forecast

Widespread rain/thundershowers with isolated heavy falls are expected in most parts of Kashmir during Wednesday to Friday. Heavy intermittent rainfall may trigger flash flooding/landslides in the vulnerable areas





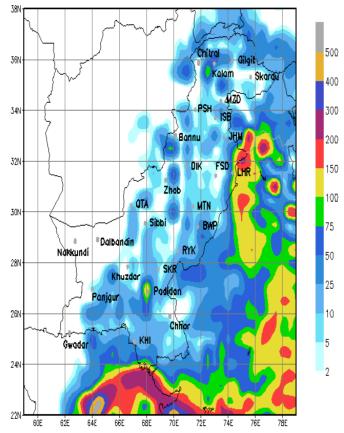


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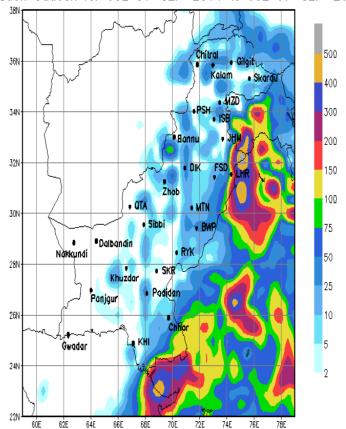




Precipitation Outlook for 00Z 30-AUG-2014 to 00Z 05-SEP-2014



Precipitation Outlook for 00Z 01-SEP-2014 to 00Z 07-SEP-2014







Weather Advisory-2 (ALERT)

Date: September 03, 2014, Time: 1400 hrs

Widespread Heavy to Very Heavy Rains/Thunderstorm Predicted in Northeast Punjab and Kashmir during next 72 hours

A well marked Monsoon Low Pressure Area (MLPA) is now located over Rajasthan (India) and is likely to move northward during next 24 hours. This weather system has a potential to produce heavy at times very heavy rainfall over northeast Punjab (Gujranwala. Lahore, Rawalpindi divisions), Kashmir and adjoining areas during next 72 hours, causing flood situation in the Jhelum, Chenab, Ravi, Sutlej Rivers and their tributaries.

Punjab Forecast

Widespread rain/thundershowers with isolated heavy at times very heavy falls are expected in Lahore, Gujranwala, Rawalpindi divisions and Islamabad during Thursday to Friday. Heavy falls may generate flash/urban flooding in the vulnerable areas.

Scattered rain/thundershowers are also expected in rest of Punjab during the period.

Kashmir and Gilgit-Baltistan Forecast

Widespread rain/thundershowers with isolated heavy at times very heavy falls are expected in Kashmir during Thursday to Friday. Heavy intermittent rainfall may trigger flash flooding/landslides in the vulnerable areas of Kashmir.

Isolated rain/thundershowers are also expected in Gilgit-Baltistan during Thursday to Friday.









	Hydrological forecast verification 4 th September 2014					
	RIVER	MEASURING	PREDICTED FLOW ON	RECORDED FLOW	FORECAST	
		LOCATION	3 rd Sep MORNING	TILL 4 th MORNING	ACCURACY	
W	JHELUM	MANGLA	200 R 600	485.0	100%	
			Exceptionally High			
		RASUL	50-80	79.41	100%	
			Low			
	CHENAB	MARALA	200 R 550	484.8	100%	
1124			Very High			
		KHANKI	200 R 550	373.8	100%	
			Very High			
		QADIRABAD	200 R 550	368.4	100%	
			Very High			
		TRIMMU				





Weather Advisory-3 (ALERT)

Date: September 04, 2014, Time: 1400 hrs

More Widespread Heavy to Very Heavy Rains/Thunderstorm Predicted in Northeast Punjab & Kashmir during next 24-36 hours

The chief amounts of rainfall recorded during last 30 hours are as; Sialkot (cantt. 251, Airport 167), Rawalakot 194, Lahore (City 183 Airport 180), Kotli 168, Gujrat 163, Mangla 153, Kasur 135, Jhelum 115, Faisalabad 113, T T Singh 97, Okara 85 and Mandibahauddin 70 mm.

This weather system still has a potential to produce heavy at times very heavy rainfall over northeast Punjab (Gujranwala. Lahore, Rawalpindi divisions), Kashmir and adjoining areas during next 24-36 hours. causing flood situation in the Jhelum, Chenab, Ravi, Sutlej Rivers and their tributaries.

Punjab Forecast

Widespread rain/thundershowers with isolated heavy at times very heavy falls are expected in Lahore, Gujranwala, Rawalpindi divisions and Islamabad during next 24-36 hours. **Heavy falls may generate further flash/urban flooding in the vulnerable areas**. Scattered rain/thundershowers are also expected in rest of Punjab during the period.

Kashmir and Gilgit-Baltistan Forecast

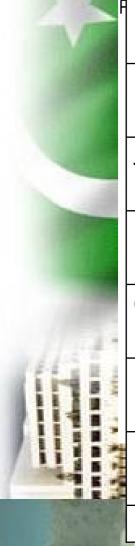
Widespread rain/thundershowers with isolated heavy at times very heavy falls are expected in Kashmir during next 24-36 hours. Heavy intermittent rainfall may trigger further flash flooding/landslides in the vulnerable areas of Kashmir.

Scattered rain/thundershowers are also expected in Gilgit-Baltistan during next 24 hours.









Hydrological forecast verification <u>5th September 2014</u>

MEASURING	FLOW FORECAST	RECORDED FLOW	FORECAST
LOCATION			ACCURACY
MANGLA	300-500	634.0	100%
	Exceptionally High		
RASUL	100-150	79.41	100%
	Medium		
MARALA	400 R 600	547.2	100%
	Exceptionally High		
KHANKI	400 R 600	660.2	100%
	Exceptionally High		
QADIRABAD	300 R 500	656.0	100%
	Very High		
TRIMMU			
	LOCATION MANGLA RASUL MARALA KHANKI QADIRABAD	LOCATION MANGLA 300-500 Exceptionally High RASUL 100-150 Medium MARALA 400 R 600 Exceptionally High KHANKI 400 R 600 Exceptionally High QADIRABAD 300 R 500 Very High	LOCATION 300-500 634.0 MANGLA 300-500 634.0 Exceptionally High 79.41 Medium 547.2 Exceptionally High 547.2 KHANKI 400 R 600 660.2 Exceptionally High 656.0 QADIRABAD 300 R 500 656.0 Very High 656.0

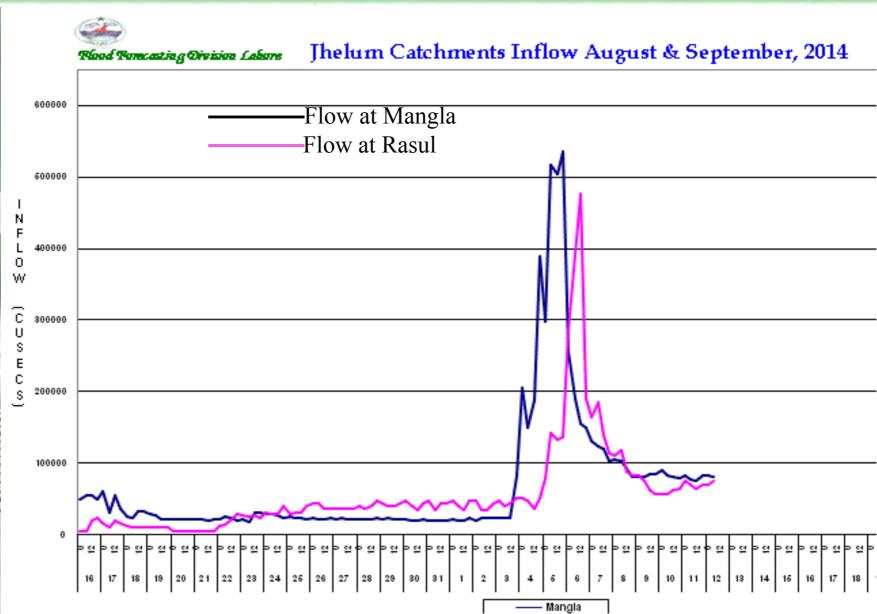




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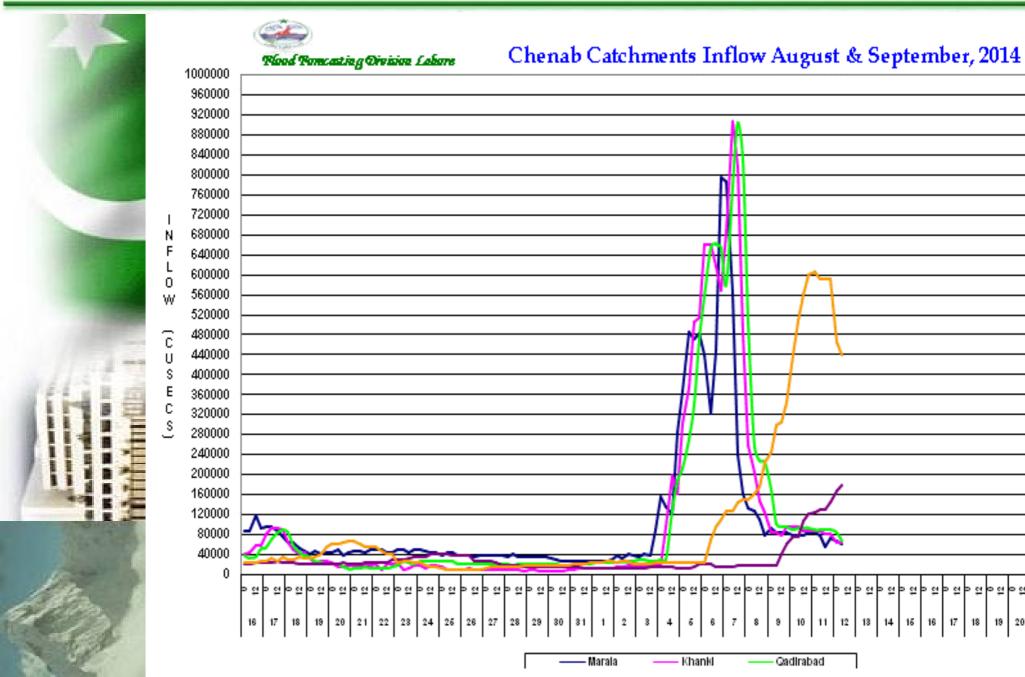






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Weather Advisory-4

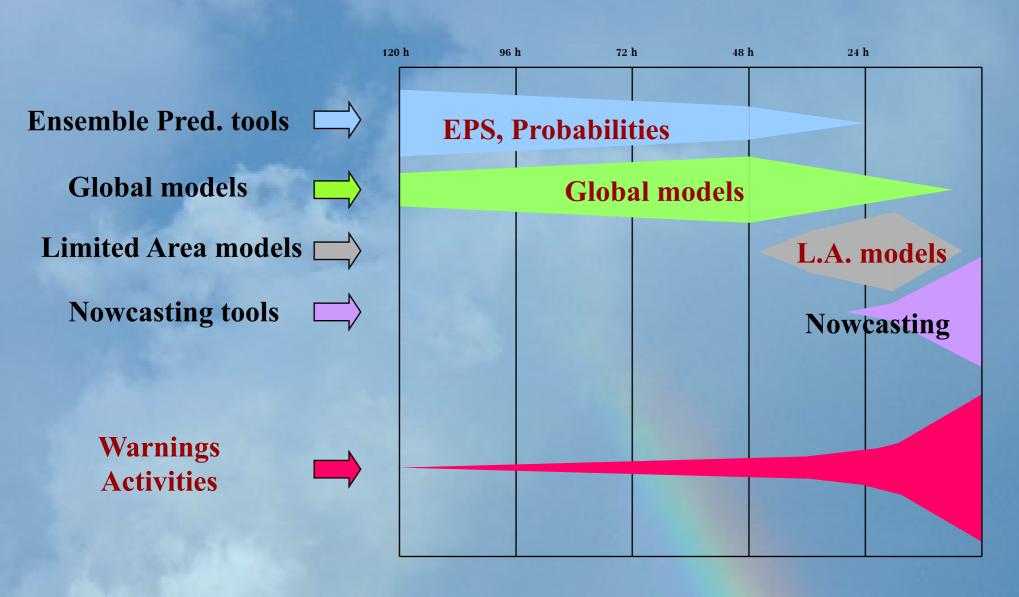
Date: September 05, 2014, Time: 1500 hrs

Widespread Moderate to Heavy intensity Rains/Thunderstorm Likely to Continue during next 24 hours

The weather system likely to weaken gradually from Saturday

Risk Identification: Early warnings

Time Dependency of Warnings at PMD



Accessibility of Weather Advisories

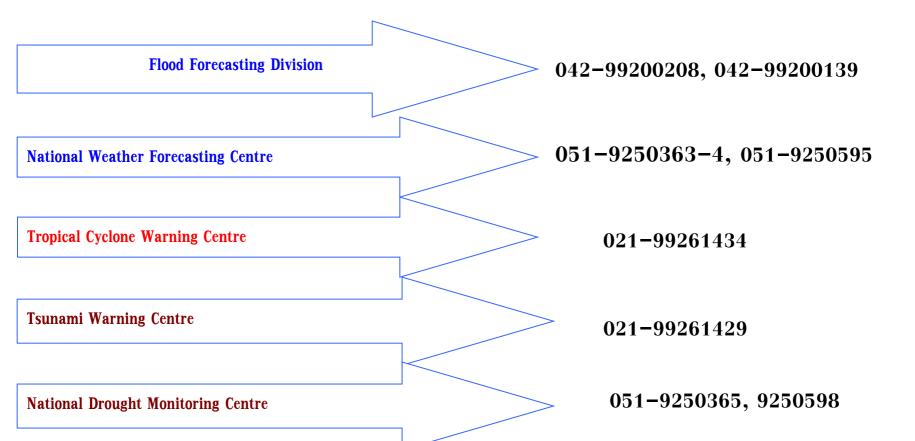
For updates about weather & climate, floods & droughts, earthquakes and snowstorms, please visit

PMD website

http://www.pmd.gov.pk

or

Call PMD 24hrs a day at following numbers.







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Daily Synoptic Data Browsing

Surface/Upper Air Met Data

country. However, rain-thundershowers are expected at isolated places in Malakand, Hazara, Peshawar, Kohat, Rawalpindi, Gujranwala, Lahore

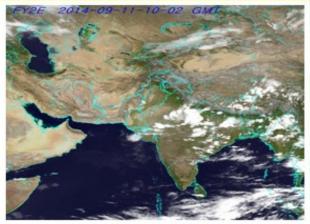
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160		A Carried State

Pakistan Weather	Satellite/Radar Images
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Current Drought Situation/Monitoring Soil Moisture Analysis/Advisory	Farmers Forecasts, Agromet Bulletins Crop Vegetation Index, Crops Report
Tropical Cyclone/Marine Weather	Earthquake Information
Tides, Wave Height, Wind speed Coastal Areas Forecast, SST	Recent Earthquakes, Seismic Reports Seismic Monitoring Network
Research Activities	Synoptic Data

, Larkana, Moenjodaro, Turbat, Dalbandin 40°C. Islamabad 33°C, Lahore 34°C, Karachi 33°C, Peshawar 37°C, Q

Daily Weather Report

R&D, NWP Products, Publications

Pollen Count, Pak. Jrn. of Meteorology

Weekly Weather Outlook (Monsoon 2014)

Real Time Flood Report for Lai Nullah Basin

Weather Advisory/ Press Release















UNDERSTAND the Climate Risk

COMMUNICATE the Climate Risk

Thank you!