



# Brief on

## Sep-2014 FLOODs



M. Aleem ul Hassan  
Deputy Director  
National Weather Forecasting  
Center





**Pakistan M**  
Government of Paki



Tel: (+92-51) 9250367  
Fax: (+92-51) 9250368

Government of Pakistan  
Cabinet Secretariat (Aviation Division)  
Pakistan Meteorological Department  
Sector H-8/2, Islamabad - 44000  
PAKISTAN

Website: [www.pmd.gov.pk](http://www.pmd.gov.pk)  
Email: PakMet\_Islamabad@yahoo.com

Dated: 16<sup>th</sup> June, 2014

### Outlook for Monsoon Season (July-September) 2014

Pakistan Summer Monsoon rainfall is invariably affected by the global, regional and local climatic conditions prevailing prior to the season. The emerging climatic features linked to El-Nino development have fairly large potential to suppress Pakistan Summer Monsoon. **"Analysis of their combined effect indicates that total amount of rainfall averaged over Pakistan during monsoon season (July-September) 2014 will remain slightly below normal, which means that overall availability of water in the country from monsoon rainfall would be satisfactory"**.

Main features of seasonal outlook are as under:

- Onset of monsoon is likely to be in the last week of June, 2014 and the rain fall during July will below normal.
- Rainfall will increase gradually in August over Northern parts of the country. During August and September, monsoon will remain by and large normal. However, northeastern parts of the country are expected to receive slightly above normal precipitation during the period. An effective water management practices may be adopted to fill the main reservoir(s) at optimum level.

suppress Pakistan Summer Monsoon. **"Analysis of their combined effect indicates that total amount of rainfall averaged over Pakistan during monsoon season (July-September) 2014 will remain slightly below normal, which means that overall availability of water in the country from monsoon rainfall would be satisfactory"**.

interactive behavior of different meteorological parameters, the mid-season review and monsoon update will be issued in the first week of August





**PMD**

Tel: (+92-51) 9250367

Fax: (+92-51) 9250368

**Pakistan**

Website: [www.pmd.gov.pk](http://www.pmd.gov.pk)

Email: [Pakmet\\_islamabad@yahoo.com](mailto:Pakmet_islamabad@yahoo.com)

**Date:** 6<sup>th</sup> 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



**PMD**

Tel: (+92-51) 9250367

Fax: (+92-51) 9250368

**Pakistan**

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**(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

NOTE

*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**





**Pakistan Meteorological Department**  
Government of Pakistan



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**PAKISTAN METEOROLOGICAL DEPARTMENT**  
National Weather Forecasting Center  
Sector H-8/2, Islamabad

Tele : 9250363-4  
Fax : 9250370

Date: 08 May, 2014  
Time: 1500 PST

Press Release

**Unstable weather conditions would continue during the current month**  
**Erratic rains predicted during coming monsoon (Jun-Sep 2014)**

Met-Office predicted "Wet than Normal Weather" during the month of May 2014. The current unstable weather conditions would continue with intervals in different parts of the country. Frequent rain with dust-thundershowers predicted in the coming days resulting mild summer than normal in May. Scattered rain with dust-thundershowers is expected in KP, Punjab and Kashmir in next few days. During next week, widespread rain/dust-thundershower is expected in the country accompanied by isolated heavy falls in upper parts of KP (Malakand & Hazara Divisions) and Kashmir. Isolated heavy falls in the said areas may trigger some flash flood events and landslides in the vulnerable areas.

The farmers are advised to take precautionary measures, particularly for harvesting & threshing of wheat crop and sowing of cotton crop during next 2-3 weeks. Due to low

The prevailing unusual weather conditions during the current month and the evolving El-Nino conditions during the coming few months point toward "Erratic Monsoon" in Pakistan. The erratic monsoon may cause deficient rains in some areas, while some monsoonal areas would witness normal/excess rains during the season. Therefore all stakeholders are requested to remain abreast with medium-range weather advisories being issued by Met-Office during the season.

Islamabad

Kind Attn:

Sec Aviation Division  
Sec Climate Change  
Chairman NDMA/FFC  
Sec Water & Power  
Chief Sec AJK  
Media



**Daily JANG**

6 June, 2014

## راولپنڈی اسلام آباد سمیت بالائی علاقوں میں پری مون سون کی پہلی بارش کا امکان

اسلام آباد (اپنے نامہ نگار سے) پچھلے دو ہفتوں سے ملک کے تمام میدانی علاقے شدید گرمی کی لہر کے زیر اثر ہیں۔ عموماً پاکستان میں گرمی کا دورانیہ 5 سے 7 دن تک رہتا ہے لیکن 9 سال کے بعد اتنی طویل گرمی کی شدید لہر نے لوگوں کو بری طرح متاثر کیا ہے ماہر موسمیات ڈاکٹر محمد حنیف نے جنگ کو بتایا کہ آئندہ چوبیس گھنٹوں کے دوران راولپنڈی اسلام آباد سمیت ملک کے بالائی علاقوں میں پری مون سون کی پہلی بارش ہوگی جبکہ اس ہفتے کے دوران ملک کے بالائی علاقوں میں دو سے تین بارشوں کا امکان ہے، جس سے گرمی کی حلیہ لہر ختم ہو جائیگی۔ مون سون کا باقاعدہ آغاز جولائی کے پہلے ہفتے سے ہوگا، ڈاکٹر محمد حنیف نے بتایا کہ رواں سال مون سون کی بارشیں غیر متوازن رہیں گی، بیشتر میدانی علاقوں میں کم لیکن شمالی پنجاب یا کشمیر میں معمول کے مطابق یا پھر معمول سے قدرے زیادہ ہوگی۔



### **Weather Advisory-1**

## **Widespread Rains/Thunderstorm Predicted during the Current Week** **Heavy Rains expected in Sindh, Punjab and Kashmir**

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.**

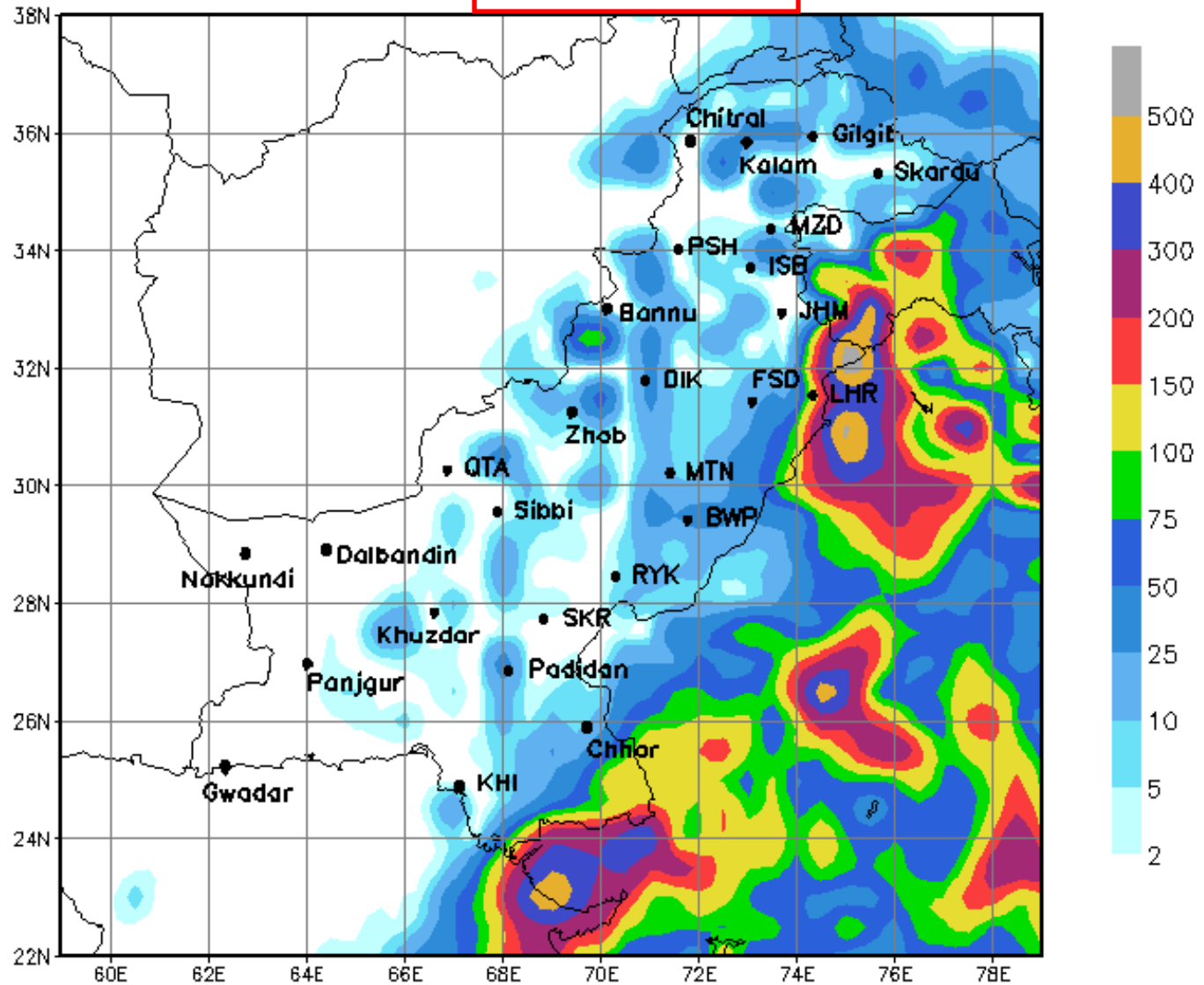
### **Kashmir Forecast**

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.**





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





Pakistan  
Government of

Daily DAWN  
2 Sep, 2014



downpour on Monday. — Online

## Heavy rains forecast for three more days

By Our Staff Reporter

## Heavy rains forecast for three more days

By Our Staff Reporter

LAHORE: The city received 28 millimetres of rain on Monday, causing a drop of eight degrees Celsius in the mercury level in the last 24 hours (down to 25.8 degree Celsius) and refreshing the weather. Drizzling continued by the time this report was filed.

Even the maximum temperature was only 27.2 degree Celsius. Weather pundits predicted the wet spell to continue for another 72 hours, forecasting scattered and heavy rains in Punjab, and dusty winds for the city.

Humidity was recorded at 84pc in the morning and 88pc by evening. According to Met officials, low pressure area hovered over eastern parts of Maharashtra (India) and was moving northwards. At the same time, moist current from the Arabian Sea is also penetrating into Sindh, Punjab and Azad Jammu and Kashmir and can cause rains in these areas.

Thundershowers may hit Sindh (Mirpur Khas, Hyderabad and Karachi) and Balochistan (Kalat division) for the next 48 hours. The same trend is predicted for Punjab and Kashmir.

"Tributaries of rivers Chenab and Ravi might overflow with medium to high floods," said an official of the Met department.

However, all other rivers are expected to flow normally as they did during the last 24 hours.

"Some rain in Kashmir could be good news for Mangla Dam, which is sliding fast to the horrors of water planners," an official of the Irrigation Department said. It has already hit 1,228 feet, some 14 feet below optimum level.

**DRAINAGE:** Wasa on Monday claimed to have drained out all the accumulated rainwater by 4:30pm from various spots by running pumping stations before the rain started.

Chief Minister Shahbaz Sharif directed all administrative officers concerned to remain present in the field to monitor the situation after heavy rains, and elected representatives to keep an eye on disposal of rainwater from low-lying areas.

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**Weather Advisory-2 (ALERT)**

**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**

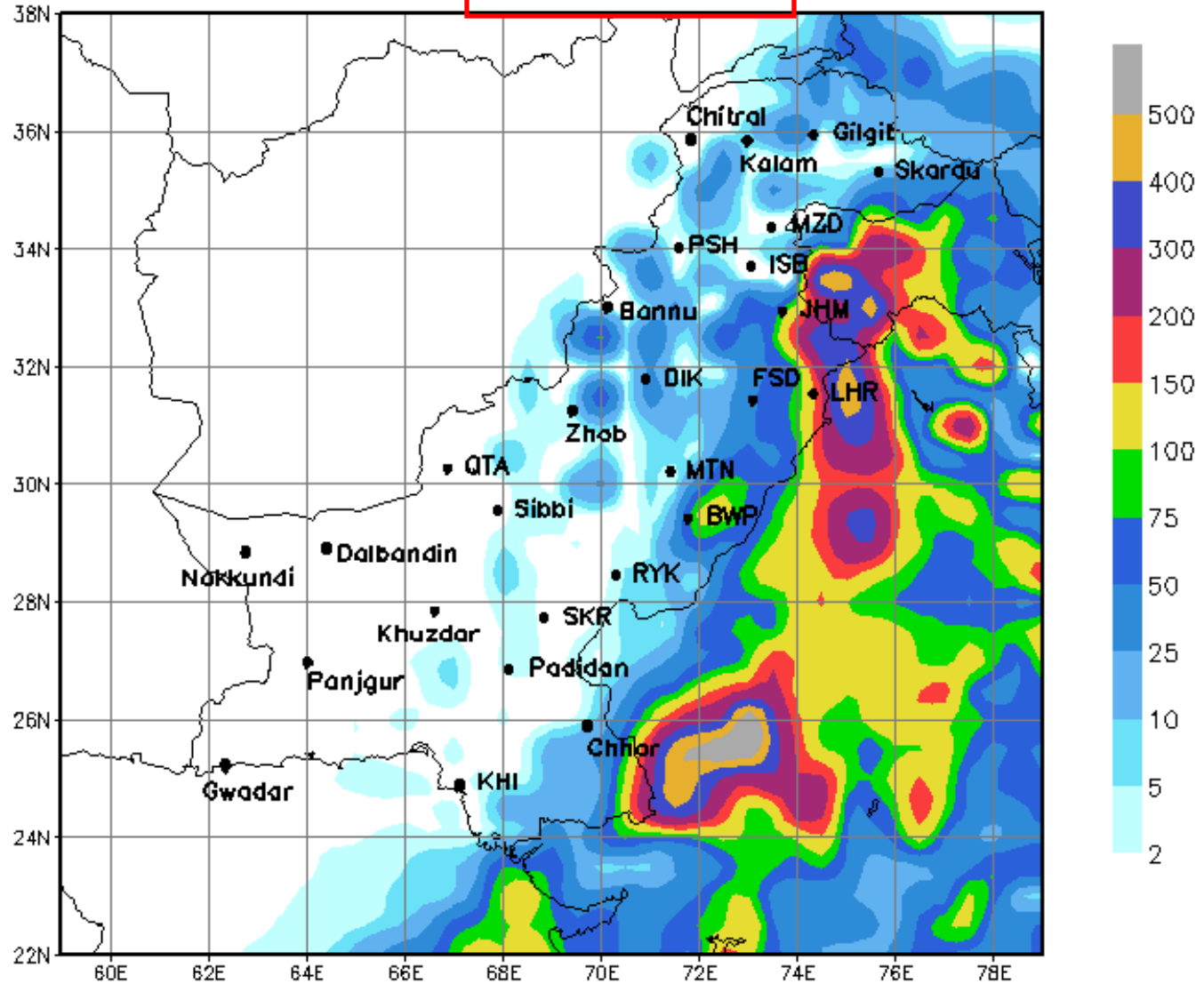
Widespread rain/thundershowers **with isolated heavy at times very heavy falls are expected in Kashmir during Thursday to Friday.** Heavy intermittent rainfall **may trigger flash flooding/landslides in the vulnerable areas of Kashmir.**

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





Precipitation Outlook for 00Z 03-SEP-2014 to 00Z 09-SEP-2014





**Weather Advisory-3 (ALERT)**

**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**

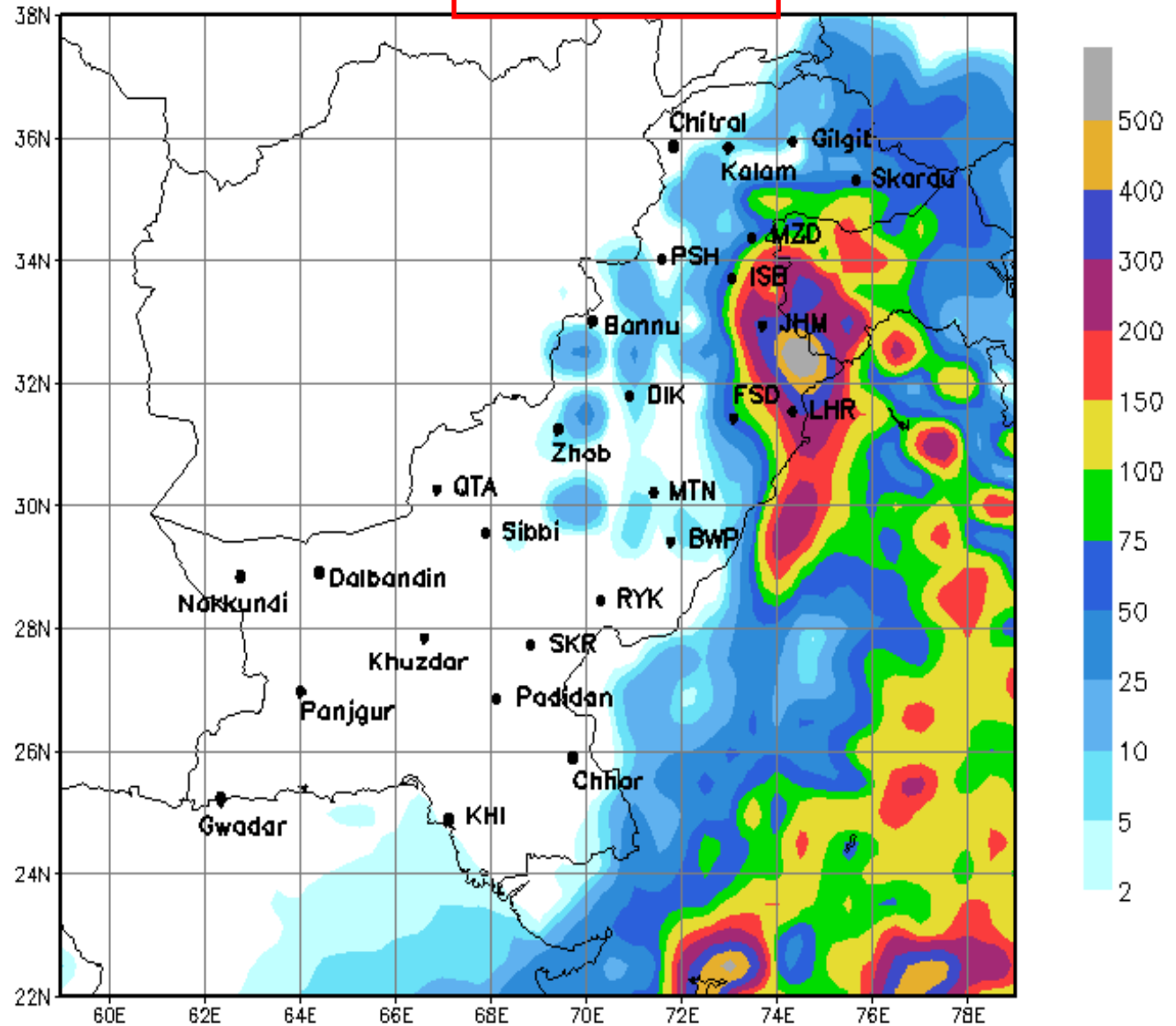
Widespread rain/thundershowers with isolated heavy at times very heavy falls are expected in Lahore, Gujranwala, Rawalpindi divisions and Islamabad during next 24-36 hours. **Heavy falls may generate further flash/urban flooding in the vulnerable areas.** Scattered rain/thundershowers are also expected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



Precipitation Outlook for 00Z **04-SEP-2014** to 00Z 10-SEP-2014







# Pakistan Meteorological Department

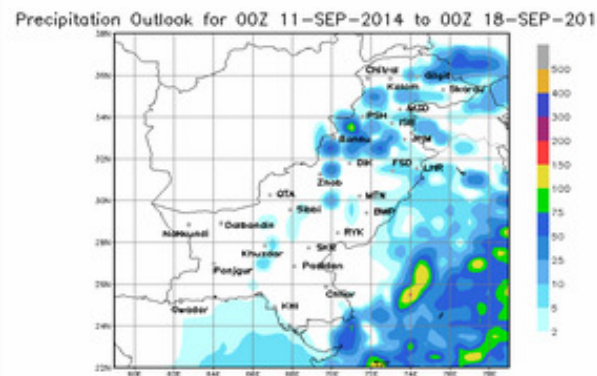
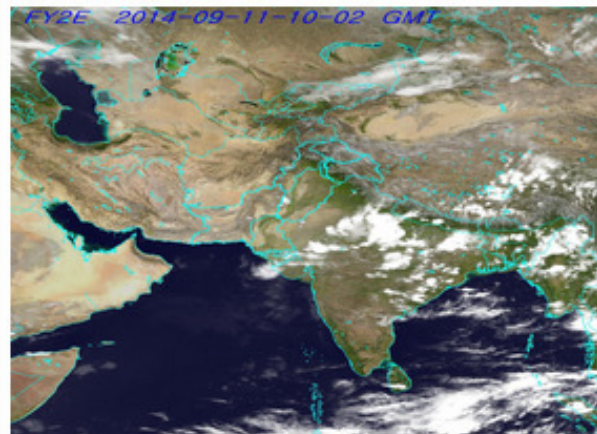
Government of Pakistan

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

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<b>Pakistan Weather</b>	<b>Satellite/Radar Images</b>
National Forecast, Cities Forecast Weekly, Seasonal Outlook	Pakistan, Asia, Global Satellite Images Radar Network
<b>Aviation Products</b>	<b>Flood Update</b>
Aviation Weather Charts, NMCC Charts Metars, Tafors	Flood Forecasts, Dams Flows GIS Maps, Rainfall/Temperature
<b>Drought Monitoring</b>	<b>Farmer's Weather</b>
Current Drought Situation/Monitoring Soil Moisture Analysis/Advisory	Farmers Forecasts, Agromet Bulletins Crop Vegetation Index, Crops Report
<b>Tropical Cyclone/Marine Weather</b>	<b>Earthquake Information</b>
Tides, Wave Height, Wind speed Coastal Areas Forecast, SST	Recent Earthquakes, Seismic Reports Seismic Monitoring Network
<b>Research Activities</b>	<b>Synoptic Data</b>
R&D, NWP Products, Publications Pollen Count, Pak.Jrn.of Meteorology	Daily Synoptic Data Browsing Surface/Upper Air Met Data

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

[Daily Weather Report](#)

[Weekly Weather Outlook \(Monsoon 2014\)](#)

[Real Time Flood Report for Lai Nullah Basin](#)

[Weather Advisory/ Press Release](#)

**FLOOD ALERT**



**Hydrological forecast verification**  
**5<sup>th</sup> September 2014**

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



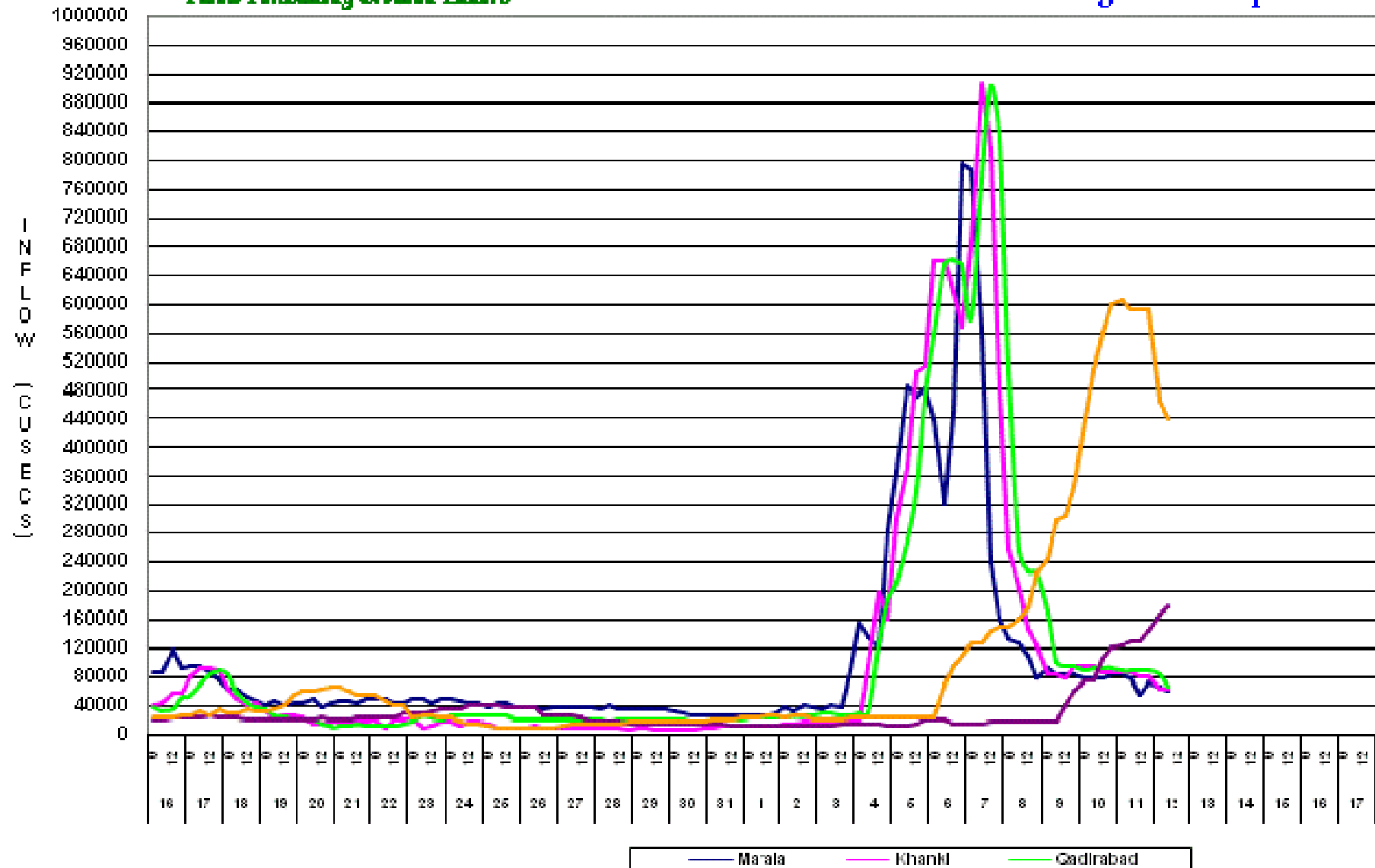
*Flood Forecasting Division Lahore*

**Jhelum Catchments Inflow August & September, 2014**



*Flood Forecasting Division Lahore*

**Chenab Catchments Inflow August & September, 2014**







**Weather Advisory-4**

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

**The weather system likely to weaken gradually from Saturday**





**Pakistan Meteorological Department**  
Government of Pakistan



***Thank you!***