



Pakistan's Monsoon 2014 Rainfall update

Below Normal Rainfall during July & August and Exceptionally Highly Above Normal rainfall in September

15th September, 2014
CDPC / Pakistan Meteorological Department
Prepared :By Nadeem Faisal

HIGHLIGHTS:

JUL-SEP 2014 (upto 15th September)

The severe rainfall deficit exists in the first two months of the season over the country was broken with heavy rainfall spell of 2-6 September. The seasonal monsoon 2014 rainfall, for the period 1st July to 15th September, of the country as a whole, is **20 percent below Normal**/Long Period Average (1961-2010). The seasonal rainfall so far, over Gilgit-Baltistan is exceptional very higher than normal and close to normal over Azad Kashmir & Punjab, whereas moderately to largely below normal over Balochistan, KPK & Sindh.

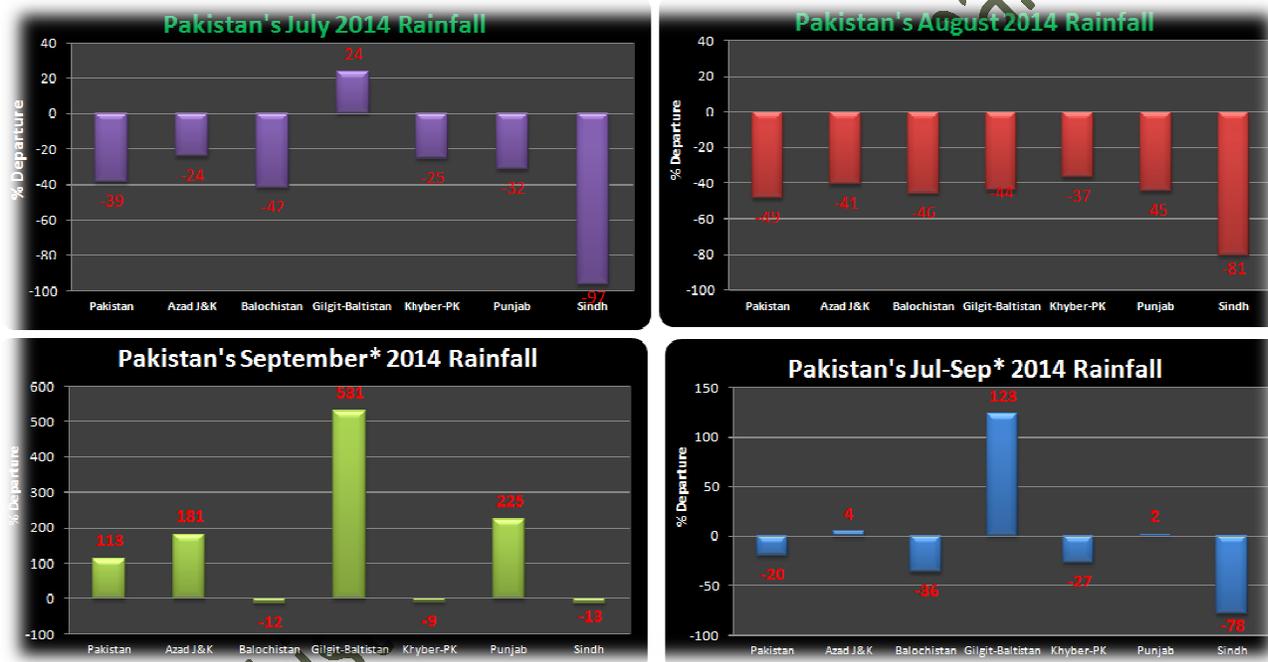


Fig-1: Spatial Distribution of monthly & seasonal Rainfall over country & provinces

Region	PERCENTAGE DEPARTURE (01-17-2014 TO 15-09-2014)											
	JULY			AUGUST			SEPTEMBER*			JULY-SEPTEMBER*		
	NAWR	AWR	%D_AWR	NAWR	AWR	%D_AWR	NAWR	AWR	%D_AWR	NAWR	AWR	%D_AWR
Pakistan	63.3	37.9	-39	56.2	29.0	-49	21.4	45.5	113	140.9	113.1	-20
Azad J&K	129.9	96.8	-24	114.1	67.6	-41	50.2	141.0	181	294.2	307.1	4
Balochistan	29.7	19.5	-42	22.5	12.1	-46	6.2	5.5	-12	58.3	37.3	-36
Gilgit-Baltistan	14.0	16.6	24	17.1	9.5	-44	10.5	66.1	531	41.6	93.0	123
Khyber-PK	121.7	84.3	-25	117.6	74.4	-37	51.2	46.6	-9	290.6	212.8	-27
Punjab	103.9	72.5	-32	93.3	51.8	-45	34.6	112.6	225	231.9	236.5	2
Sindh	60.2	2.2	-97	53.6	10.4	-81	19.9	17.3	-13	133.7	29.7	-78

NOTE

* All calculations are provisional & based on real time values upto 15 september.
NAWR = Long Period (1961-2010) Normal Area Weighted Rainfall (whole month)

AWR = Actual Area Weighted Rainfall
%D_AWR = Percentage Departure Area Weighted Rainfall

JULY 2014

In the month of July, as a whole country, deficient rainfall, i.e. **below 40 per cent of normal** was observed over Pakistan. In the month, slightly above normal rainfall were recorded over Gilgit-Baltistan, whereas below than normal rainfall were recorded over AJK, Punjab, KPK, Sindh and Balochistan. The chief amount of accumulated monthly rainfall during July 2014 was: Islamabad AP 387 mm (308 mm), Islamabad ZP 316 mm (368.6 mm), Rawalakot 269 mm, Murree 288 mm (340 mm) Muzaffarabad 274 mm (349 mm), Sialkot 182 mm (313 mm) and Balakot 231 mm (324 mm). Values in parenthesis are normal rainfall for the month of July.

AUGUST 2014

The sever rainfall deficit continues to persist in the month of August, when as a whole country, **49 per cent below normal rainfall** was recorded over Pakistan. In the month, all the provinces received moderately below normal except Sindh, which received largely below than normal rainfall. The chief amount of accumulated monthly rainfall during August 2014 was: Islamabad AP 279 mm (340 mm), Islamabad ZP 209 mm (335 mm), mandi-Bahuddin 189 mm Sialkot 188 mm (277 mm), Gujrat 183 mm, Mangla 174 mm, Joharabad & Malam-Jabba 173 mm, Jehlum 161 (231 mm) & Noorpur-Thal 147 mm. Values in parenthesis are normal rainfall for the month.

SEPTEMBER 2014 (upto 15th)

During first eight days in the month of September, on as a whole country, **113 per cent above normal rainfall** was recorded over Pakistan. The current September rainfall of Azad Kashmir & Gilgit-Baltistan is **second highest September** rainfall after 1992 during 1961-2014. The current September rainfall of Punjab is **fourth highest September** rainfall after 2012, 2011 & 1992 during 1961-2014.