



Government of Pakistan
Pakistan Meteorological Department
National Drought Monitoring Centre
Meteorological Headquarters
Islamabad, Pakistan

Islamabad, 7th December, 2018

SUBJECT: DROUGHT ALERT-III

1. Drought situation

Below normal rainfall was recorded over most of the southern parts of the country as predicted by PMD. Major rainfall deficit was experienced over the provinces of Sindh (-71.9%), Khyber Pakhtunkhwa (-46.9%) and Balochistan (-44.2%) during June to November, 2018. The area weighted rainfall departure (%) detail is as under table-1;

Table 1 Area weighted rainfall departure (%) of Pakistan

	Jun	Jul	Aug	Sep	Oct	Nov	Jul-Sep	Oct-Nov	Jun-Nov
Sindh	223.4	-85.0	-90.5	-97.6	-99.9	-100.0	-89.3	-100.0	-71.9
Balochistan	-20.1	-39.3	-74.2	44.9	-97.8	-82.5	-49.5	-91.3	-44.2
KP	-51.8	-17.0	-61.6	-42.6	4.4	-53.2	-46.0	-48.3	-46.9
GB/Kashmir	-19.2	8.1	-30.8	-36.3	44.7	344.9	-26.7	-40.3	0.3
Punjab	28.1	35.9	-33.8	-26.7	-8.9	-53.7	-5.2	60.6	-0.8
Pakistan	17.7	-8.7	-54.0	-34.8	1.9	-27.3	-33.9	-37.9	-26.4

The provinces of Sindh and Balochistan are already facing moderate to severe droughts based on the satellite and observation data analysis. Currently, 19 districts of Sindh and 11 districts of Balochistan are facing moderate to severe droughts as shown in table-2 and table-3.

Table-2 Drought affected districts of Sindh province, Pakistan

Drought affected districts of Sindh province					
S.No.	Districts Name	S.No.	Districts Name	S.No.	Districts Name
1	Badin	8	Larkana	15	Sanghar
2	Dadu	9	Mityari	16	Shaheed Benzairabad
3	Hyderabad	10	Mohenjodaro	17	Tharparkar
4	Jacobabad	11	Padidan	18	Thatta
5	Jamshoro	12	Qambar Shadadkot	19	Umerkot
6	Karachi	13	Rohri		
7	Khairpur	14	Sajwal		

Table-3 Drought affected districts of Balochistan province, Pakistan

Drought affected districts of Balochistan province					
S.No.	Districts Name	S.No.	Districts Name	S.No.	Districts Name
1	Awaran	5	Kech	9	Panjgur
2	Bolan	6	Kharan	10	Quetta
3	Chagi	7	Noushki	11	Washuk
4	Gawadar	8	Mastung		

2. Water Reservoir situation and Forecast

The current water availability in Tarbela and Mangla dam is half filled (lowest in the last 9 years). Water storage of small dams situated in pothwar region is satisfactory. PMD issues water availability forecast of two major reservoirs for seasonal crops i.e. Rabi and Kharif. The Rabi seasonal water availability forecast (MAF) for both Major reservoirs (Tarbela and Mangla) are shown in figure-1.

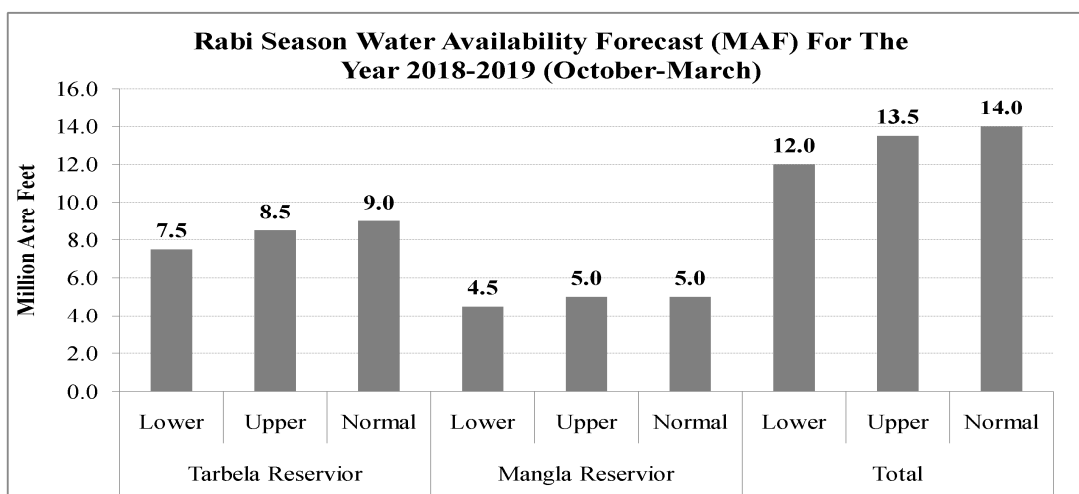


Figure 1 Water availability forecast of Tarbela and Mangla reservoirs for Rabi season (October-March) 2018-19.

Keeping in view the climatology, dam's situation and current seasonal forecast, drought conditions may exacerbate and affect the agriculture and live stocks in the above said districts and it can propagate other districts too. Dry conditions will cause water stress in the cultivated lands/areas of the country due to limited supply of irrigation water for Rabi crops. It is advised to

all stakeholders to take pre-emptive measures for disaster prone districts. Farmers/agriculturists are advised to keep themselves updated from PMD/PMD website

More detailed data and analysed maps may be accessed from National Drought Monitoring Centre, PMD website <http://www.pmd.gov.pk/ndmc/index.htm>



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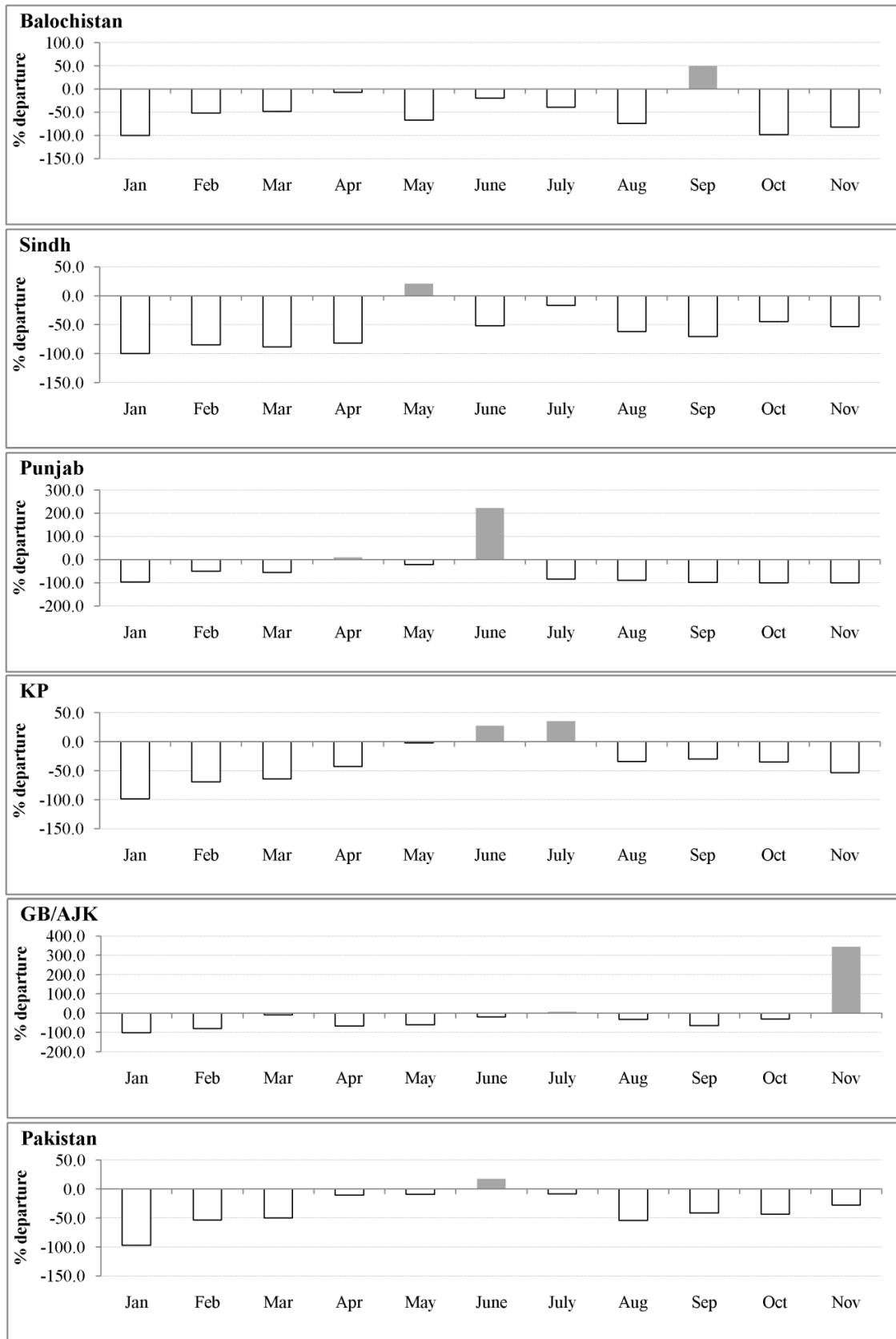
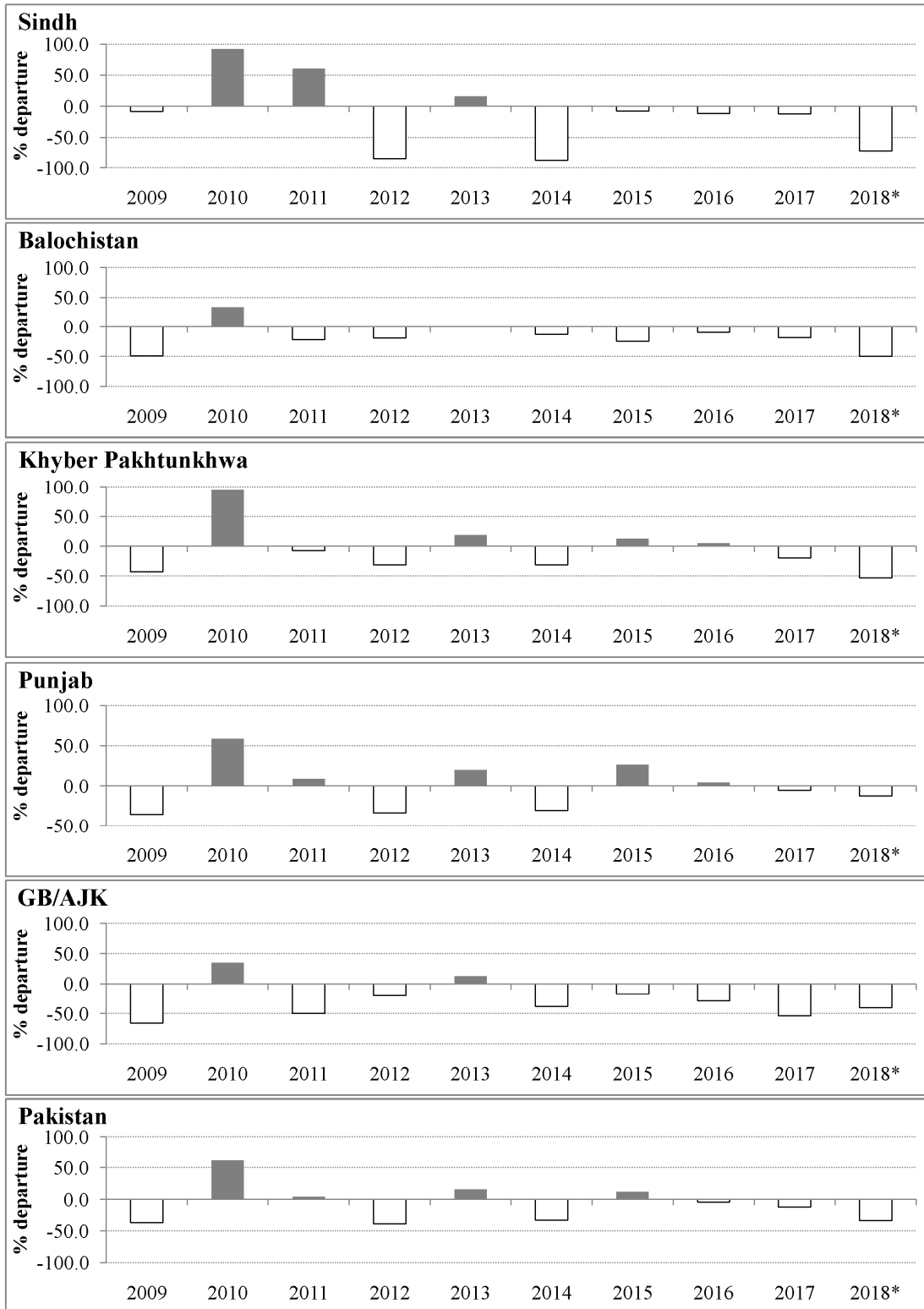


Figure 2 Monthly area weighted precipitation departure (%) during 2018 of Pakistan.



2018*: December data is not included

Figure 3 Annual area weighted precipitation departure (%) during 2009-2018 of Pakistan.

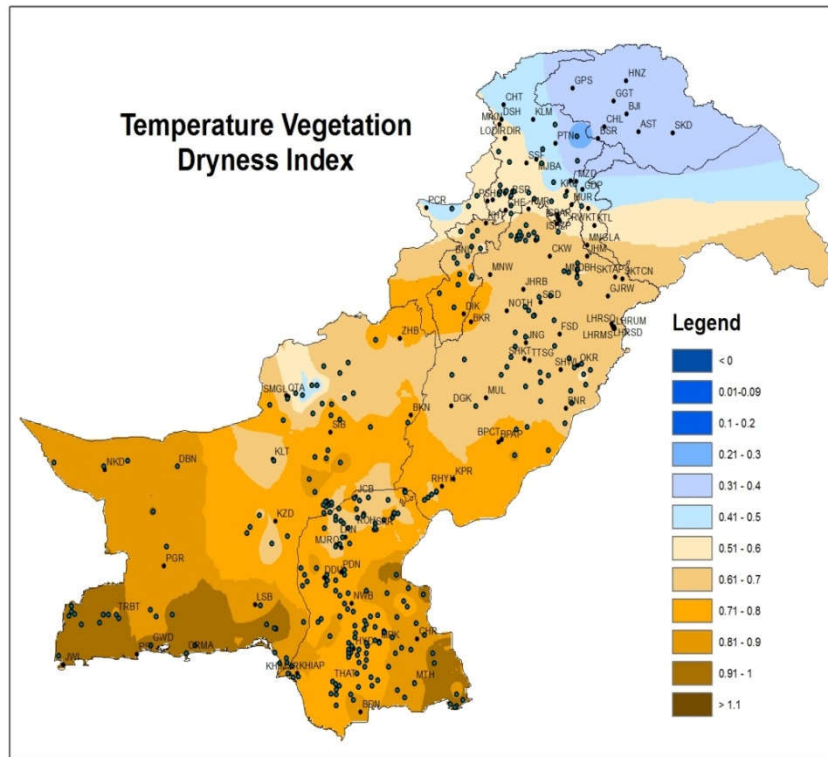


Figure 4 Temperature vegetation Dryness Index (TVDI) of Pakistan.

DROUGHT CONDITION OF PAKISTAN 2018

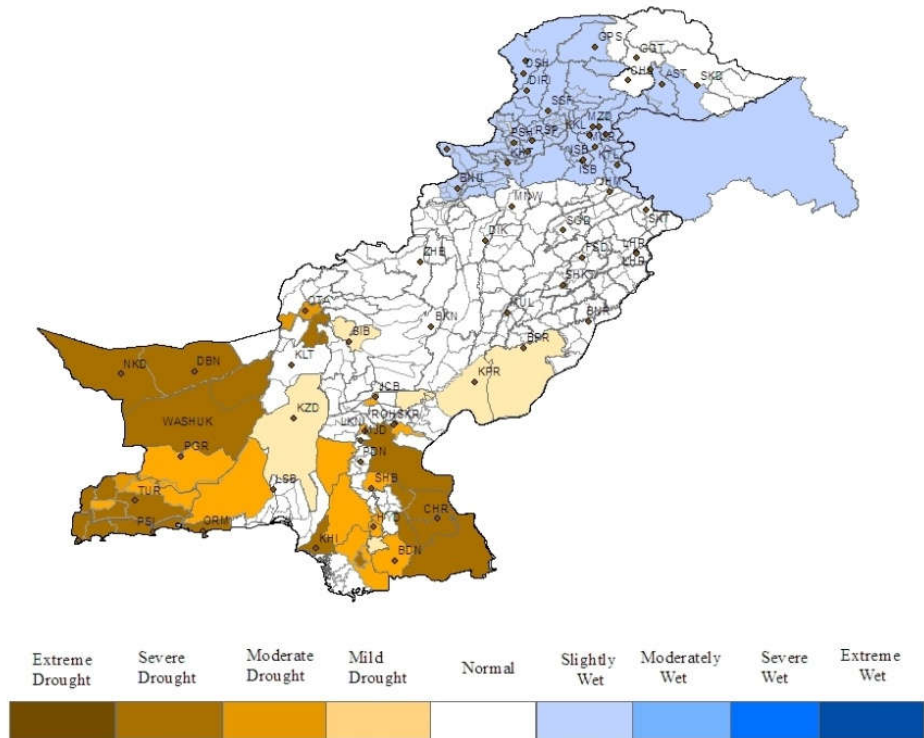


Figure 5 District drought intensity map of Pakistan.