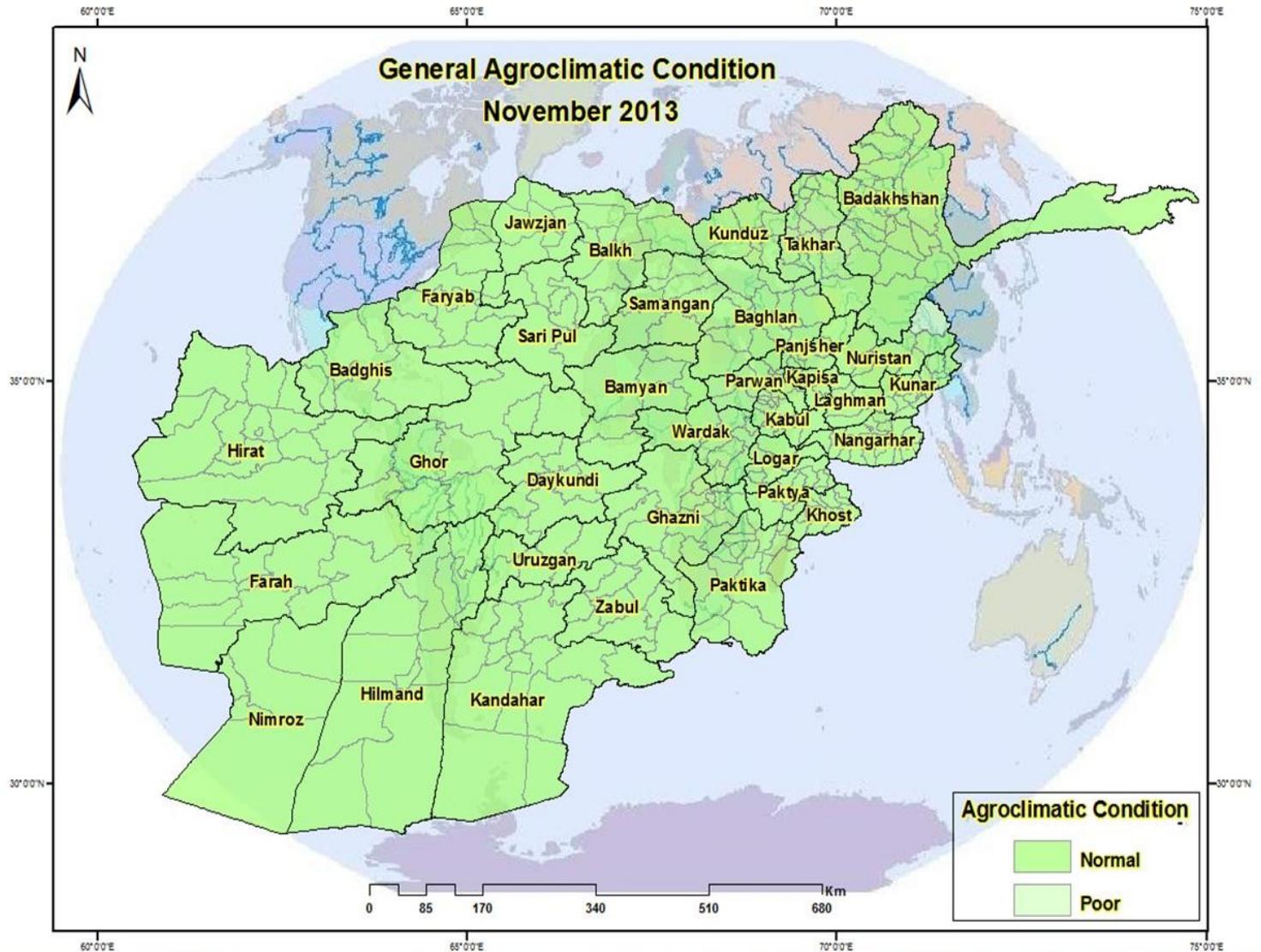




The fghanistan grometeorological AAM Monthly Bulletin

Issue No: 105
November: 2013

Topics Crop Information Precipitation Temperature NDVI



Planting

1

Crop Condition

2

Crop Stage

3



The Agromet Project of USGS, is working together with the Ministry of Agriculture, Irrigation and Livestock (MAIL) and the Afghan Meteorological Authority (AMA) of Ministry of Transport (MoT)

BULLETIN CONTENTS

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Crop Information

Summary.....	1
Crop Stage, Crop Condition and Adverse Factor.....	2-5
Crop Maps.....	6

Rainfall Situation

Precipitation.....	7-8
Rainfall Graph	9
Rainy Days.....	10 - 11

Snowfall Situation

Comparison of Snow Extent	12-13
Snow Depth - November 2013.....	14

Data Source:

Ministry of Agriculture , Irrigation and Livestock (MAIL), Agromet Project , Afghan Meteorological Authority (AMA), United States Geological Survey (USGS).

Summary

Comparison of monthly rainfall data for the month of November 2013, in contrast to the same month of November 2012, show increase of rainfall in some of the areas aside from North, North Eastern and some places of Central regions during the month of November 2013 compare to the same month of last year.

Comparison of snow extent for the period of (November 25 – December 2) 2013, with the same period in 2012 shows significant decrease of snow extent during the above mentioned period of time over the same period of time in 2012.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Planting	Normal	Not Existed
		Paghman	Paghman	Emergency	Normal	Not Existed
		Kabul	Darulaman	Planting	Normal	Not Existed
		Surubi	Surubi	Emergency	Normal	Not Existed
	Panjsher	Dara	Dara	Planting	Normal	Not Existed
		Dashtak	Dashtak	Planting	Normal	Not Existed
	Parwan	Syagerd	Gorband	Planting	Normal	Short of input
		Charikar	Charikar	Planting	Normal	Not Existed
	Kapisa	Mahmoodraqi	Mahmoodraqi	Emergency	Normal	Not Existed
		Kohistan	Kohistan	Planting	Normal	Not Existed
	Wardak	Maidan shehr	Maidan shehr	Emergency	Normal	Not Existed
		Sayed Abad	Sayed Abad	Emergency	Normal	Not Existed
	Logar	Pole Alam	Pole Alam	Emergency	Normal	More Rainfall
	Bamyan	Bamyan	Bamyan	Emergency	Normal	Not Existed
		Yakawlang	Yakawlang	Vegetative	Normal	Not Existed
		Panjab	Panjab	Emergency	Normal	Not Existed
		Shebar	Shebar	Emergency	Normal	Not Existed
		Kohmard	Kohmard	Emergency	Normal	Not Existed
	Ghazni	Andar	Bande Sardi	Emergency	Normal	Not Existed
		Muqar	Muqar	Emergency	Normal	Not Existed
Dikondy	Dasht	Nili	Planting	Normal	Not Existed	
	Khideer	Khideer	Emergency	Normal	Not Existed	
East	Nangarhar	Agam	Agam	Planting	Normal	Not Existed
		Batikot	Ghaziabad	Planting	Normal	Not Existed
		Jalalabad	Farm jaded	Planting	Normal	Not Existed

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Emergency	Normal	Not Existed
		Asad Abad	Asad Abad	Planting	Normal	Not Existed
		Chawkay	Chawkay	Emergency	Normal	Not Existed
	Laghman	Mihtarlam	Mihtarlam	Ploughing	Normal	Not Existed
		Qarghay	Qarghay	Planting	Normal	Not Existed
		Alengar	Alengar	Ploughing	Normal	Not Existed
	Noristan	Paroon	Paroon	Pre-Planting	Normal	Not Existed
		Do Ab	Do Ab	Harvesting	good	Not Existed
		Norgaram	Norgaram	Planting	Normal	Not Existed
		Waigal	Waigal	Planting	Normal	Not Existed
		Wama	Wama	Pre-Planting	Normal	Not Existed
	North East	Takhar	Taluqan	Taluqan	Planting	Normal
Rostaq			Rostaq	Planting	Normal	Not Existed
Aqmasjad			Aqmasjad	Ploughing	Normal	Not Existed
Kunduz		Imam Sahib	Imam Sahib	Planting	Normal	Not Existed
		Qaliazal	Aqtipa	Emergency	Normal	Not Existed
		Khan Abad	Khan Abad	Planting	Normal	Not Existed
		Kunduz	Kunduz	Planting	Normal	Not Existed
		Archi	Archi	Planting	Normal	Not Existed
		Chardara	Chardara	Planting	Normal	Not Existed
		Ali Abad	Ali Abad	Planting	Normal	Not Existed
		Baghlan	Pulikhomri	Pozaishan	Planting	Normal
Doshy			Doshy	Planting	Normal	Not Existed
Badakhshan		Argo	Argo	Emergency	Normal	Not Existed
		Baharak	Baharak	Planting	Normal	Not Existed
		Ashkashm	Ashkashm	Ploughing	Normal	Not Existed
		Khash	Khash	Planting	Normal	Not Existed
		Faiz Abad	Faiz Abad	Planting	Normal	Not Existed
South East		Khost	Khost	Khost	Planting	Normal
	Khost		Shimal	Planting	Normal	Not Existed
	Ali Sher		Ali Sher	Emergency	Normal	Not Existed
	Paktia	Zormat	Rohani Baba	Emergence	Normal	Not Existed
		Gardiz	Tera	Emergence	Normal	Not Existed
	Paktika	Urgon	Urgon	Emergence	Normal	Not Existed
		Sharana	Sharana	Emergence	Normal	Not Existed
		Khair kot	Khair Kot	Emergence	Normal	Not Existed

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Ploughing	Normal	Poor Rainfall
	Kandahar	Kandahar	Kandahar	Ploughing	Normal	Not Existed
		Kohkaran	Kohkaran	Ploughing	Normal	Not Existed
	Zabul	Qalat	Qalat	Emergency	Normal	Poor Rainfall
	Urozgan	Tirin Kot	Tirin Kot	Planting	Normal	Not Existed
	Hilmand	Nad Ali	Nad Ali	Ploughing	Normal	Not Existed
		Greshk	Greshk	Ploughing	Normal	Not Existed
		Nawa	Nawa	Ploughing	Normal	Not Existed
Lashkargah		Bolan	Ploughing	Normal	Not Existed	
North	Balkh	Takhta pol	Dihdadi	Planting	Normal	Not Existed
		Mazar shareef	Mazare shareef	Planting	Normal	Not Existed
		Nahrishahi	Nahrishahi	Planting	Normal	Not Existed
		Dawlat Abad	Dawlat Abad	Emergency	Normal	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Planting	Normal	Not Existed
		Darzab	Darzab	Planting	Normal	Not Existed
		Aqcha	Aqcha	Planting	Normal	Not Existed
	Saripul	Saripul	Saripul	Emergency	Normal	Poor Rainfall
		Sancharak	Sancharak	Planting	Normal	Not Existed
		Sozmaqala	Sozmaqala	Planting	Normal	Not Existed
	Faryab	Andkhoy	Andkhoy	Pre-Planting	Normal	Not Existed
		Garzeewan	Garzeewan	Pre-Planting	Normal	Not Existed
	Samangan	Aibak	Aibak	Planting	Normal	Not Existed
		Dara Souf	Dara Souf	Planting	Normal	Not Existed
		Sar bagh	Sarbagh	Pre-Planting	Normal	Not Existed
North West	Badghis	Qalainow	Qalainow	Planting	Normal	Not Existed
	Ghor	Chaghcharan	Chaghcharan	Emergency	Normal	Not Existed
		Dawlat yar	Dawlat yar	Emergency	Normal	Not Existed
	Hirat	Shindand	Shindand	Planting	Normal	Not Existed
		Hirat	Hirat	Planting	Normal	Not Existed
		Zindajan	Zindajan	Planting	Normal	Not Existed
		Gwazara	Falahat	Planting	Normal	Not Existed
		Hirat	Farm Urdokhan	Emergency	Normal	Not Existed
	Farah	Farah	Farah	Planting	Normal	Not Existed

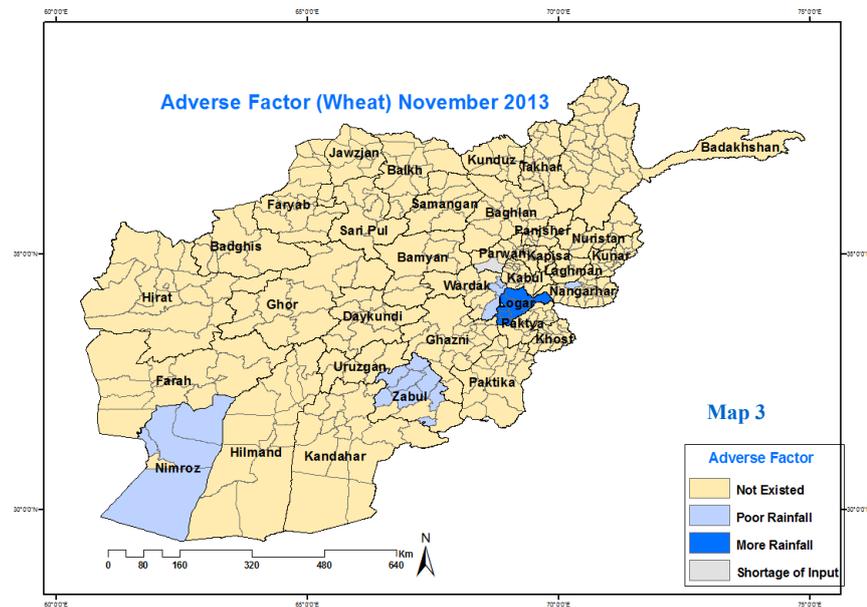
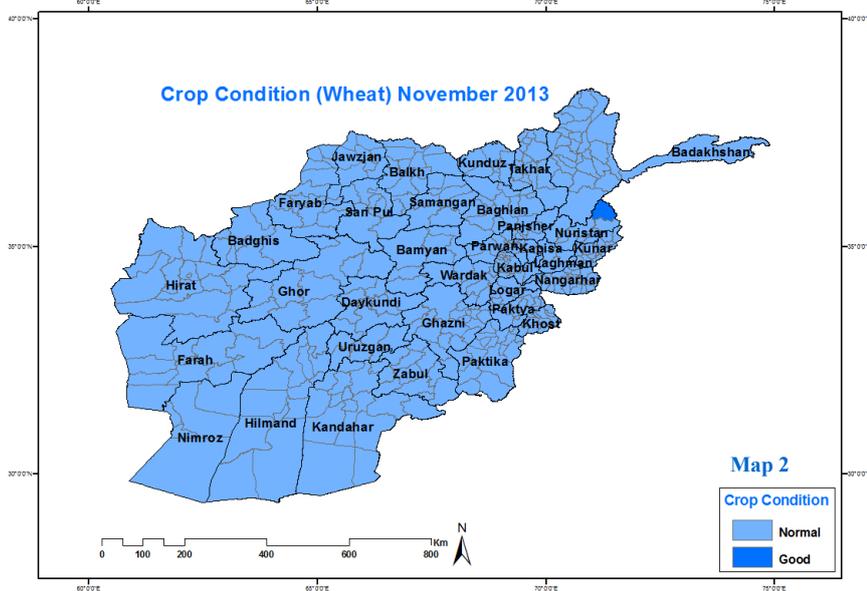
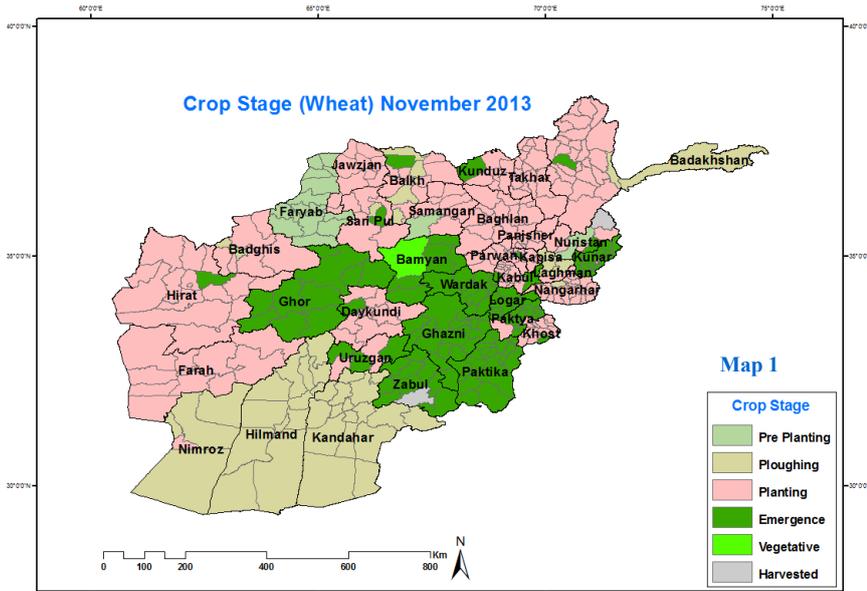
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Maize			
				Crop Stage	Crop Condition	Adverse Factor	
Central	Kabul	Surubi	Surubi	Harvesting			
	Panjsher	Dashtak	Dashtak				
	Parwan	Syagerd	Gorband				
		Charikar	Charikar				
	Kapisa	Mahmoodraqi	Mahmoodraqi	Harvested			
		Kohistan	Kohistan	Harvesting			
	Logar	Pole Alam	Pole Alam	Harvested			
	Bamyan	Kohmard	Kohmard				
Ghazni	Muqur	Muqur					
Dikondy	Khideer	Khideer					
East	Nangarhar	Agam	Agam	Harvested			
		Batikot	Ghaziabad				
		Jalalabad	Farm jaded				
	Kunar	Asmar	Asmar	Harvesting			
		Asad Abad	Asad Abad				
		Chawkay	Chawkay				
	Laghman	Qarghay	Qarghay	Harvested			
		Alengar	Alengar				
	Noristan		Paroon	Paroon	Harvested		
			Do Ab	Do Ab			
Norgaram			Norgaram				
Waigal			Waigal				
North East	Kunduz	Kunduz	Kunduz	Harvesting			
		Imam sahib	Imam sahib				
		Qala-e-zal	Aatipa				
		Archi	Archi				
		Ali Abad	Ali Abad				
	Baghlan	Pulikhomri	Pozaishan				
South East	Khost	Khost	Shimal	Harvested			
		Ali Sher	Ali Sher				
	Paktia	Zormat	Rohani Baba				
		Gardiz	Tera				
Paktika	Urgon	Urgon					
South	Kandahar	Kohkaran	Kohkaran	Harvested			
	Urozgan	Tirin Kot	Tirin Kot				
	Hilmand	Nad Ali	Nad Ali				
		Greshk	Greshk				
		Nawa	Nawa				
		Lashkargah	Bolan				
North	Balkh	Takhta pol	Dihdadi	Harvested			
		Mazar shareef	Mazare shareef				
		Nahrishahi	Nahrishahi				
	Saripul	Saripul					
	Faryab	Maimana	Maimana				
Samangan	Dara Souf	Dara Souf					
North West	Hirat	Shindand	Shindand	Harvested			
		Hirat	Hirat				
	Farah	Farah	Farah				

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Rice			
				Crop Stage	Crop Condition	Adverse Factor	
Central	Kabul	Surubi	Surubi	Harvested			
East	Nangarhar	Agam	Agam				
		Batikot	Ghaziabad				
		Jalalabad	Farm jaded				
		Behsood	Behsood				
	Kunar	Asmar	Asmar				Harvesting
		Asad Abad	Asad Abad				
		Chawkay	Chawkay				
	Laghman	Alingar	Alingar				Harvested
		Mihtarlam	Mihtarlam				
		Qarghay	Qarghay				
North East	Takhar	Taluqan	Aq Masjid	Harvested			
		Taluqan	Taluqan				
	Kunduz	Imam Sahib	Imam Sahib				
		Chardara	Chardara				
		Qaliazal	Aqtipa				
		Khan Abad	Khan Abad				
		Kunduz	Kunduz				
		Archi	Archi				
	Baghlan	Pulikhomri	Pozaishan		Harvesting		
		Doshy	Doshy				
South East	Khost	Khost	Khost	Harvested			
		Khost	Shimal				
		Ali Sher	Ali Sher				
	Paktia	Zormat	Rohani Baba				
South	Urozgan	Tirin Kot	Tirin Kot				

Wheat Crop Stage, Condition and Adverse Factor Maps



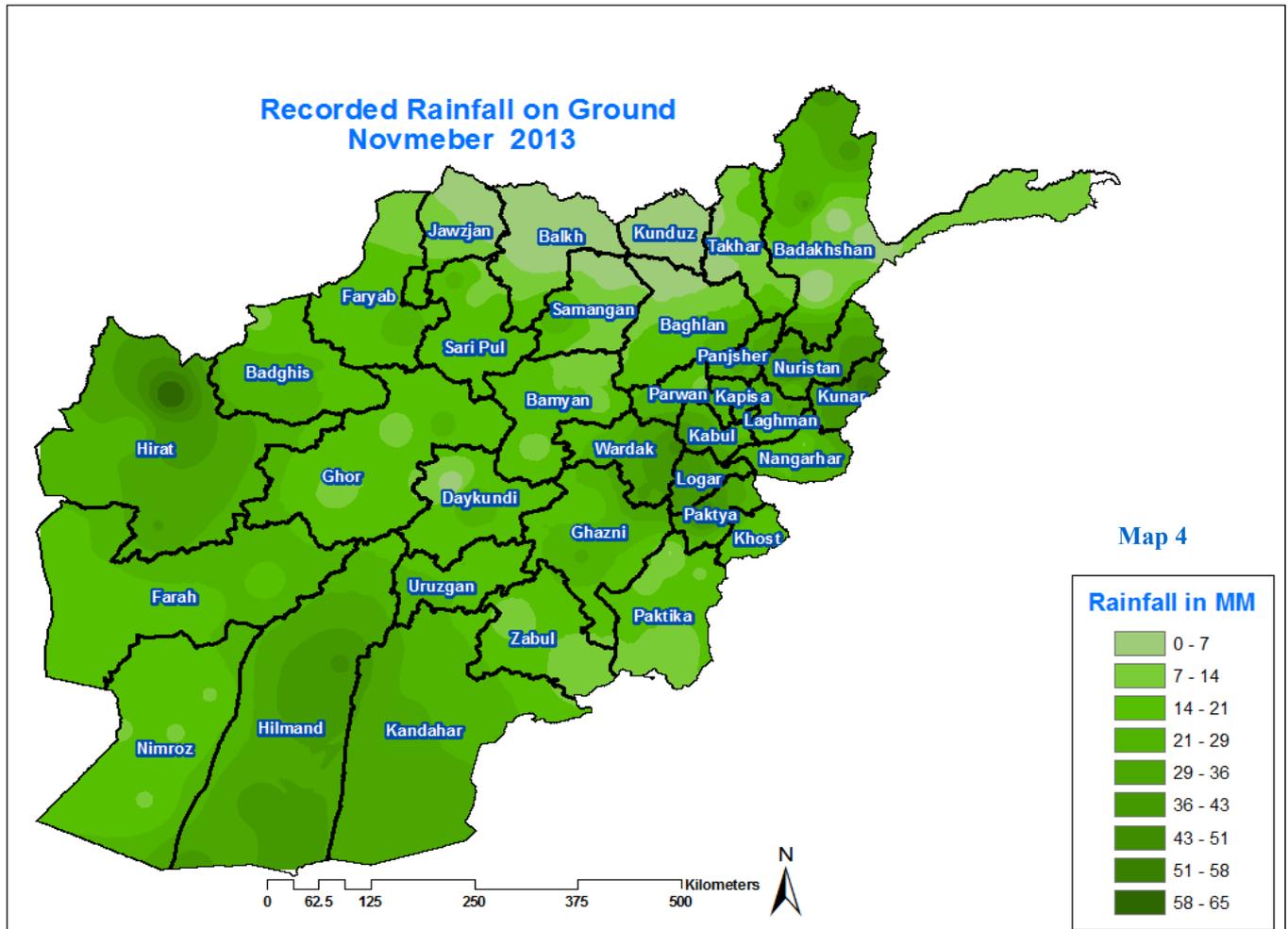
Data Source: Agromet Network

Precipitation

Comparison of Monthly rainfall data for the month of November 2013 in contrast to the same month of November 2012, show increase of rainfall in some of the areas aside from North, North Eastern and some places of Central regions during the month of November 2013 compare to the same month of last year.

Comparison of Monthly rainfall data for the month of November 2013 in contrast to the same month

of Long Term Average, show increase of rainfall aside from Eastern and North eastern regions during the month of November 2013 compare to the same month of Long Term Average. A widespread rainfall occurred during the month of the November 2013, as Map (4) Shows the distribution of rainfall during the month of November 2013, in entire country and the highest rainfall occurred in Falahat area of Hirat province which was 66.3 mm.



Precipitation

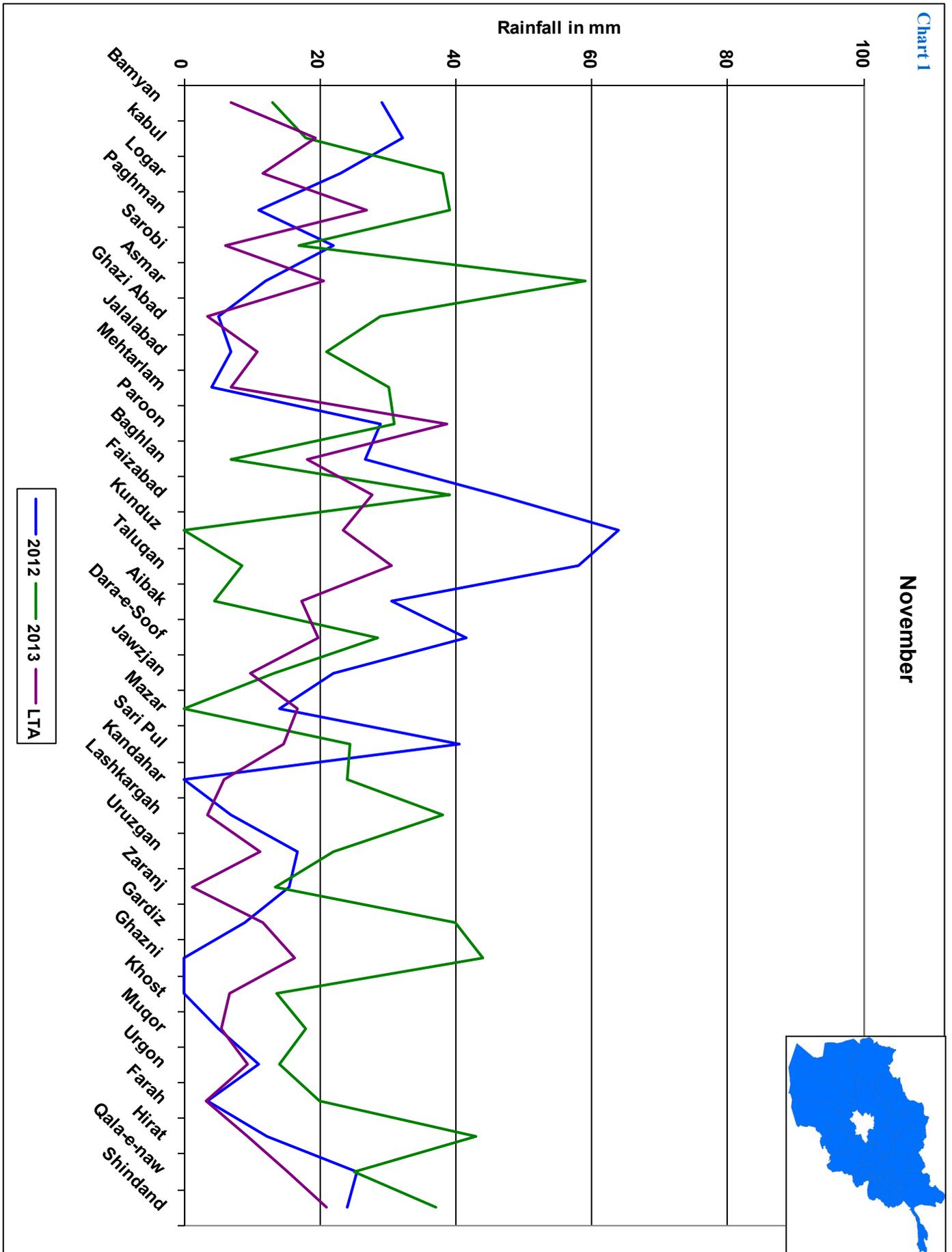
Widespread Rainfall occurred during the month of November 2013, as table 1 shows in central part to the country Bamyan has received 13mm, Kabul 40 mm, Logar 38mm, Paghman 39 mm, and Sarobi 22mm. The highest rainfall has been recorded in Paghman district of Kabul province which is 39 mm. In Eastern region Asmar has received 59 mm, Ghazi Abad 29mm, Jalalabad 21 mm, Mehtarlam 30.2mm, and Paroon 31mm, and the highest rainfall in the respected regain has been recorded in Asmar district of Kunar province which is 59mm. In Northern region Aibak has received 30.5mm, and Sari Pul 24.5 mm. In North Eastern region Baghlan has received 7mm, Faizabad 39mm, Taluqan 8.5mm, Dara-e-Soof 28.5mm, and Jawzjan 13.3mm, the highest rainfall in the north eastern region has been recorded in Faizabad district of Badakhshan province which is 39 mm. In Southern region Kandahar has received 24mm, Lashkargah 38mm,

Uruzgan 22mm, Zaranj 13.5mm Ghazni 18 mm, and Muqor 18mm, the highest rainfall in this region has been recorded in Lashkargah district of Hilmand province which is 38mm. In South Eastern region Gardiz has received 44 mm, Khost 13.6 mm, and Urgan 14 mm. In western region Farah has received 20mm, Hirat 43 mm, Qalae-e-Now 25 and Shindand 37 mm the highest rainfall in the respected region have been recorded in Hirat province which is 43 mm. As conclusion we can say that, rainfall has two extremes the high extreme has occurred in Asmar district of Kunar province which is 59 mm in the month of November, 2013 and the lowest extreme has occurred in Aibak district of Samangan province which is 4.5mm in the month of November 2013. For more information regarding the rainfall for the month of November 2013 please, refer to the below table.

Station Name	November			Deviation	Comparison	Prediction Table 3
	2012	2013	LTA			
Bamyan	29.2	13	7	6	Above Normal	No Dryness
Kabul	32.2	40	19.4	20.6	Above Normal	No Dryness
Logar	23	38	11.6	26.4	Above Normal	Dryness
Paghman	11	39	26.8	12.2	Above Normal	No Dryness
Sarobi	22	17	6.1	10.9	Above Normal	No Dryness
Asmar	12	59	20.5	38.5	Above Normal	No Dryness
Rainfall increased in 2013 with respect to 2012						
Ghazi Abad	5	29	3.4	25.6	Above Normal	No Dryness
Jalalabad	7	21	10.8	10.2	Above Normal	No Dryness
Mehterlam	4	30.2	7	23.2	Above Normal	No Dryness
Paroon	29	31	38.7	-7.7	Bellow Normal	Dryness
Baghlan	26.6	7	18.2	-11.2	Bellow Normal	Dryness
Faizabad	46	39	27.7	11.3	Above Normal	No Dryness
Kunduz	64	0	23.4	-23.4	Bellow Normal	Dryness
Stations Like Jalalabad, Ghazi Abad, Mehterlam and Faizabad , are non dry in comparison with 2012.						
Taluqan	58	8.5	30.5	-22	Bellow Normal	Dryness
Aibak	30.5	4.5	17.4	-12.9	Bellow Normal	Dryness
Dara-e-soof	41.5	28.5	19.8	8.7	Above Normal	No Dryness
Jawzjan	21.9	13.3	9.7	3.6	Above Normal	No Dryness
Mazar	14	0	16.7	-16.7	Bellow Normal	Dryness
Sari pul	40.5	24.5	14.6	9.9	Above Normal	No Dryness
Kandahar	0	24	5.9	18.1	Above Normal	No Dryness
Lashkargah	7	38	3.4	34.6	Above Normal	No Dryness
Uruzgan	16.6	22	11.1	10.9	Above Normal	No Dryness
Stations like Taluqan, Aibak, and Mazr were dry with respect to (2012).						
Zaranj	15.5	13.5	1.3	12.2	Above Normal	No Dryness
Gardiz	9	44	11.6	32.4	Above Normal	No Dryness
Ghazni	0	18	16.3	1.7	Above Normal	No Dryness
Khost	0	13.6	6.8	6.8	Above Normal	No Dryness
Muqor	5	18	5.5	12.5	Above Normal	No Dryness
Urgan	11	14	9.3	4.7	Above Normal	No Dryness
Farah	3.5	20	3.2	16.8	Above Normal	No Dryness
Hirat	12.2	43	9.4	33.6	Above Normal	No Dryness
Qala-e-naw	25.5	25	15.3	9.7	Above Normal	No Dryness
Shindand	24	37	20.9	16.1	Above Normal	No Dryness
Rainfall increased in 2013 with respect to 2012						

Data Source: Agromet Network

Rainfall Graphs for the Month of November 2013



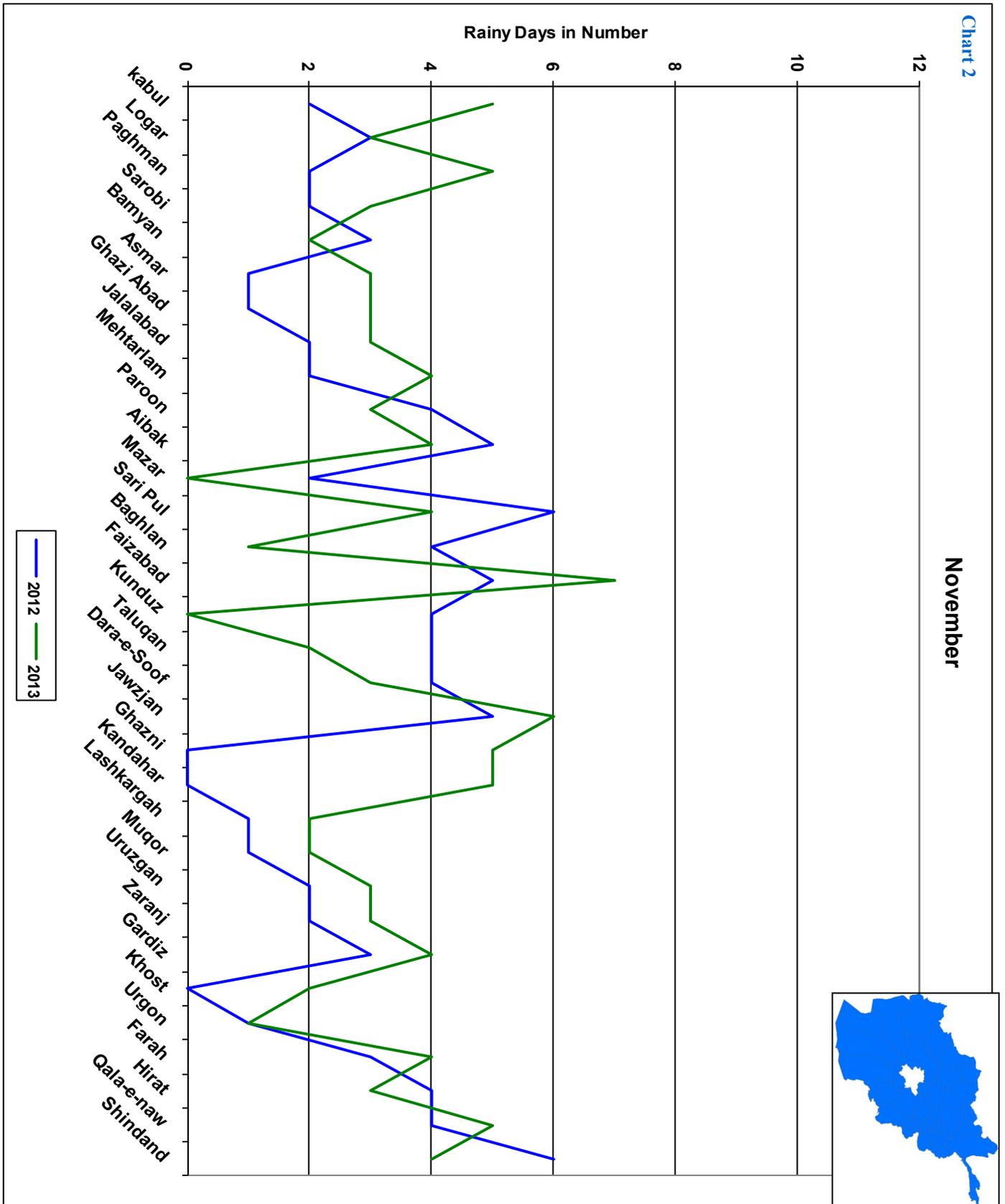
Rainy Days

Based on the bellow table, the areas of Kabul, Paghman, Sarobi, Asmar, Ghazi Abad, Jalalabad, Mehtarlam, Faizabad, Jawzjan, Ghazni, Kandahar, Lashkargah, Muqor, Uruzgan, Zaranj, Gardiz, Khost, Farah and Qala-e-Naw are having the highest number of rainy days during the month of November 2013 compared to the same month in 2012.

The areas such as, Bamyán, Paroon, Aibak, Mazar, Saripul, Baghlan, Kunduz, Taluqan, Dara-e-Soof, Hirat and Shindand are the areas with the least number of rainy days in October 2013 in comparison to the same month of 2012. The areas like Logar and Urgon were the areas that had equal rainy days in comparison to the same month of last year.

No	Station Name	November		Table 2 Comparison Prediction with respect to (2012)
		Rainy Days		
		2012	2013	
1	Kabul	2	5	No Dryness
2	Logar	3	3	No Change
3	Paghman	2	5	No Dryness
4	Sarobi	2	3	No Dryness
5	Bamyán	3	2	Dryness
6	Asmar	1	3	No Dryness
7	Ghaziabad	1	3	No Dryness
8	Jalalabad	2	3	No Dryness
9	Mehterlam	2	4	No Dryness
10	Paroon	4	3	Dryness
11	Aibak	5	4	Dryness
12	Mazar	2	0	Dryness
13	Saripul	6	4	Dryness
14	Baghlan	4	1	Dryness
15	Faizabad	5	7	No Dryness
16	Kunduz	4	0	Dryness
17	Taluqan	4	2	Dryness
18	Dara-e-soof	4	3	Dryness
19	Jawzjan	5	6	No Dryness
20	Ghazni	0	2	No Dryness
21	Kandahar	0	5	No Dryness
22	Lashkargah	1	2	No Dryness
23	Muqor	1	2	No Dryness
24	Uruzgan	2	3	No Dryness
25	Zaranj	2	3	No Dryness
26	Gardiz	1	4	No Dryness
27	Khost	0	2	No Dryness
28	Urgone	1	1	No Change
29	Farah	3	4	No Dryness
30	Hirat	4	3	Dryness
31	Qala-e-naw	4	5	No Dryness
32	Shindand	6	4	Dryness

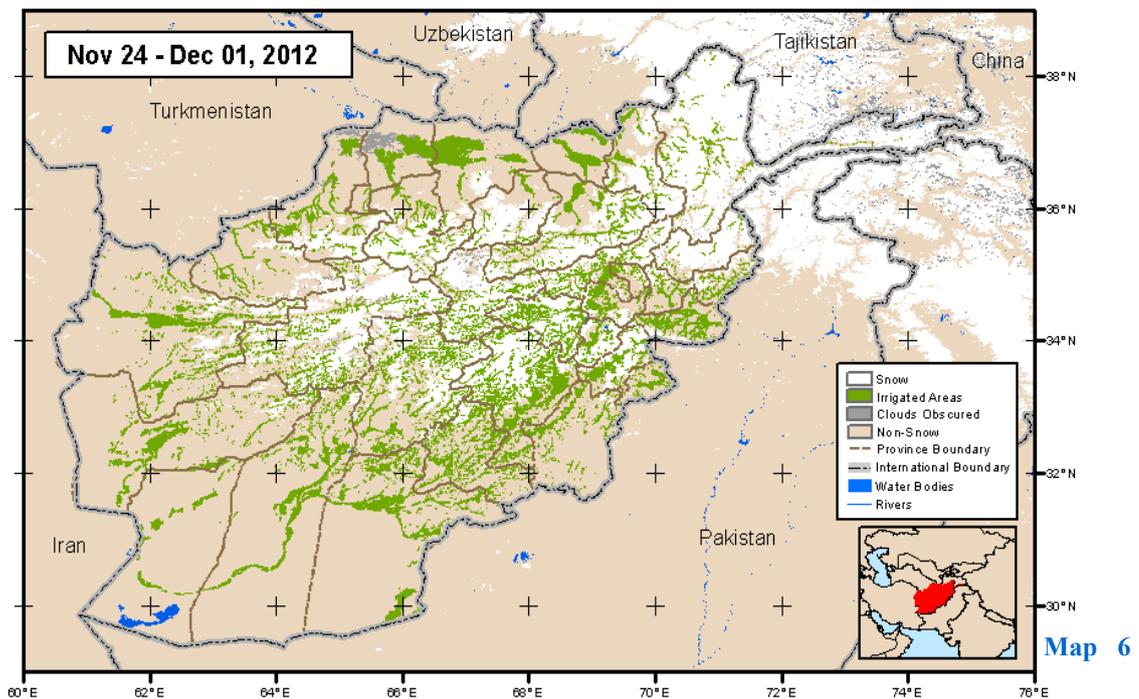
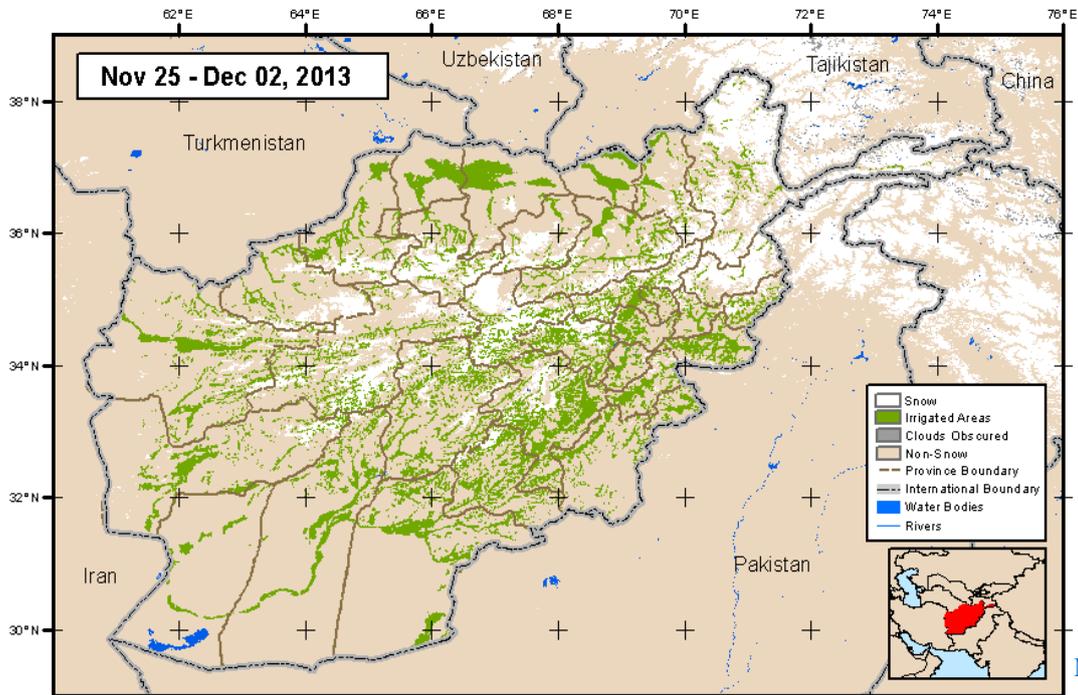
Rainy Days for the Month of November 2013



Comparison of rainy days for the month of November 2013 with the same month of last year (Chart 2) shows variable situation, in some part of the country it shows

increase of rainy days, while in other parts of the country it shows decrease of rainy days.

**MODIS 8-day Snow Cover Extent
Current Period vs. Previous Year**



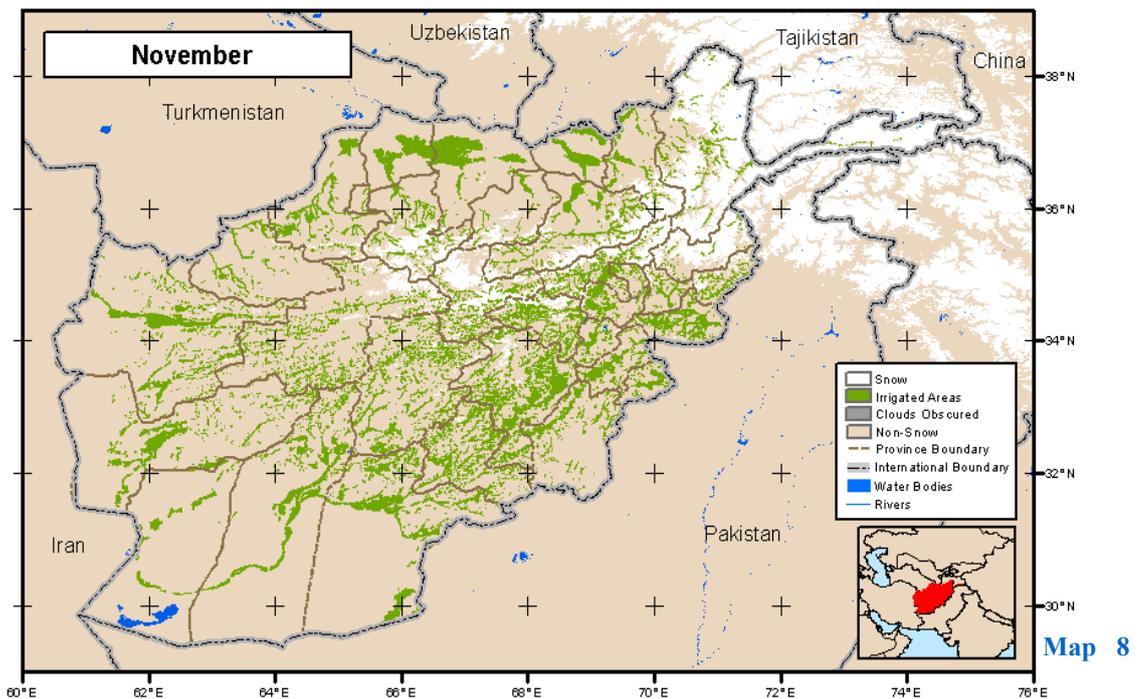
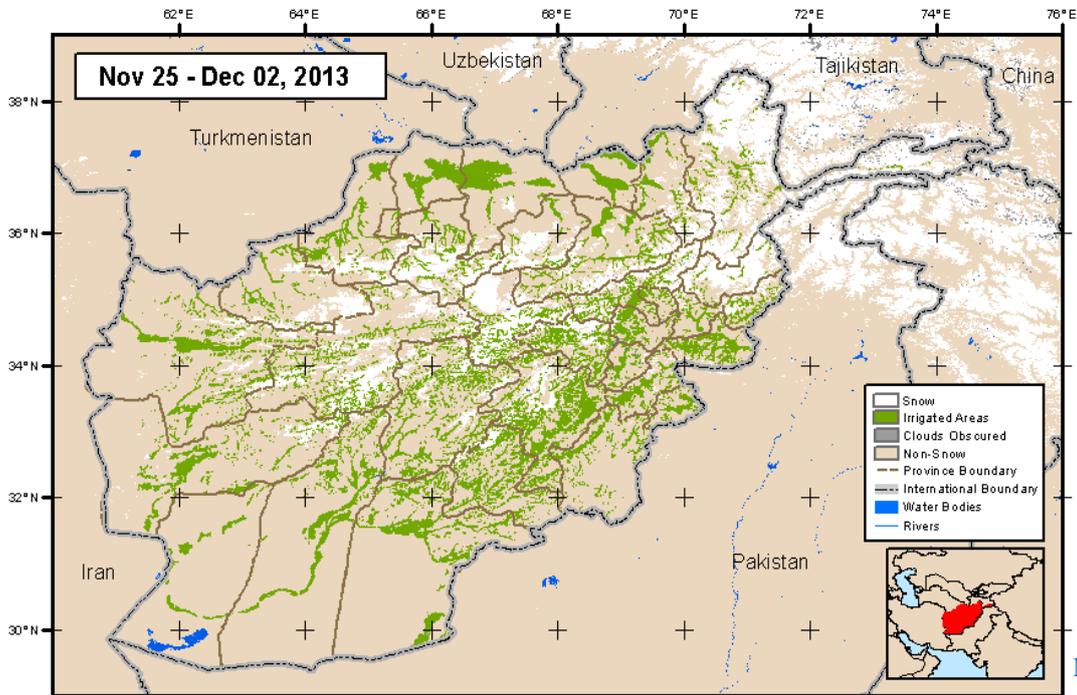
Map created by USGS/EROS



Comparison of snow extent for the period of (November 25 – December 2) 2013 with the same period in 2012 (Map 5 - 6) shows significant

decrease of snow extent during the above mentioned period of time over the same period of time in 2012.

**MODIS 8-day Snow Cover Extent
Current Period vs. Monthly Average (2001-2012)**



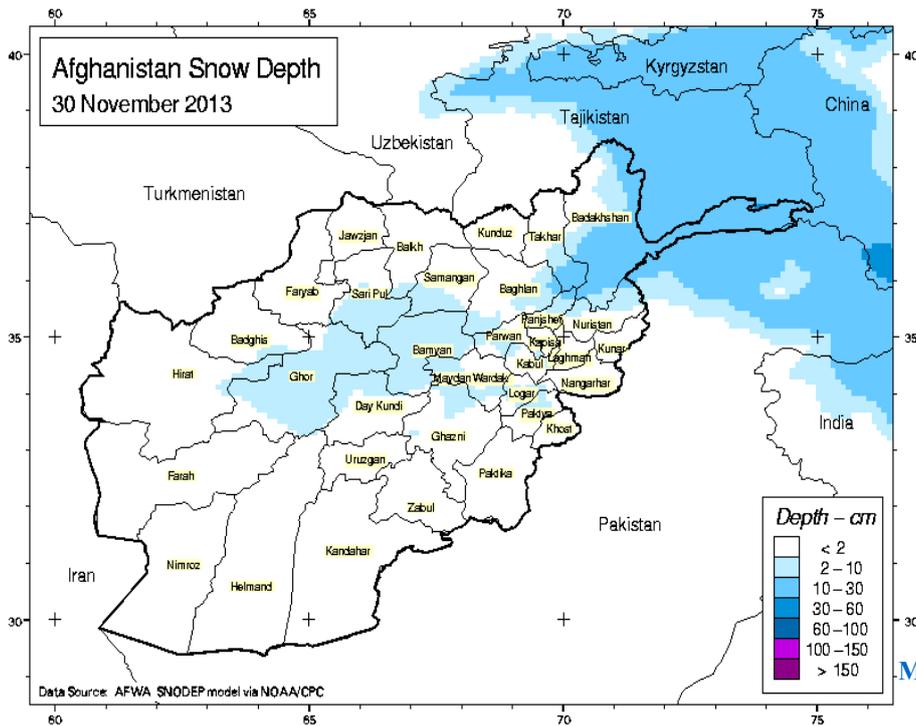
Map created by USGS/EROS



Comparison of snow extent for the month of November 2013 with the same month of long term average (Map 7-8) shows small increase

of extent during the month of November 2013 over month of long term average.

Afghanistan Snow Depth for month of November 2013



Map 9

In a small part of the Northeastern and Central regions some snow is visible, but not more than 30 cm. Map (9) shows snow depth for the end

of November 2013. As map (9) shows the snow depth has been recorded from 10 to 30 cm in a small part of the Northeastern and Central regions.



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