

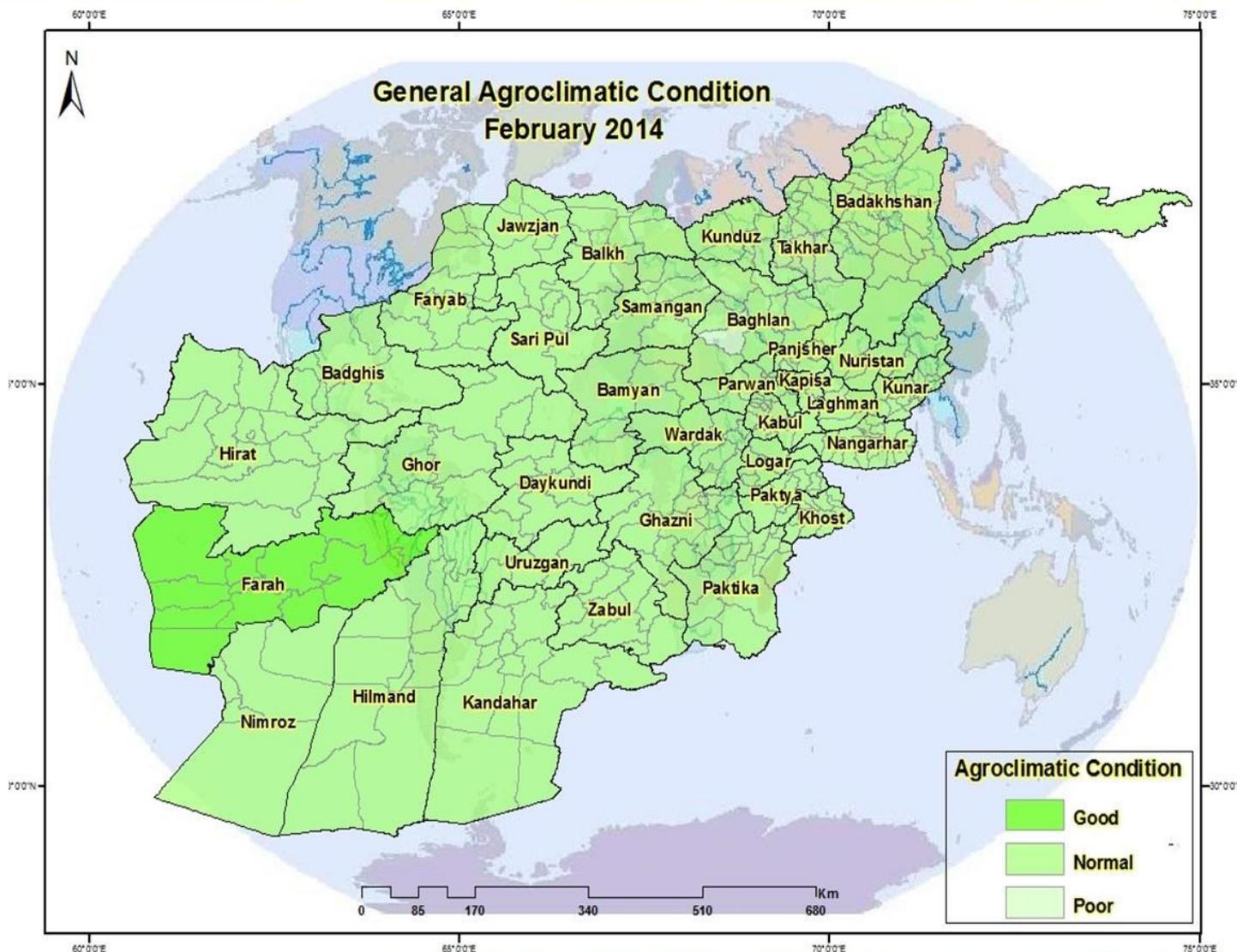


Agrometeorological Project

The Afghanistan Agrometeorological Monthly Bulletin

Issue No: 108
February: 2014

Topics Crop Information Precipitation Temperature NDVI



Snow

1



Crop Condition

2



Crop Stage

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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)

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Data Source:

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

Summary

Comparison of monthly rainfall data for the month of February 2014, in contrast to the same month of February 2013, shows significant decrease of rainfall in most of the areas aside from some areas of Southern region during the month of February 2014, compare to the same month of last year.

Comparison of snow extent for the period of (February 18 – February 25) 2014 with the same period in 2013 shows small decrease in snow extent during the above mentioned period of time over the same period of time in 2013.

Crop Stage, Crop Condition and Adverse Factor

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

Data Source: Agromet Network

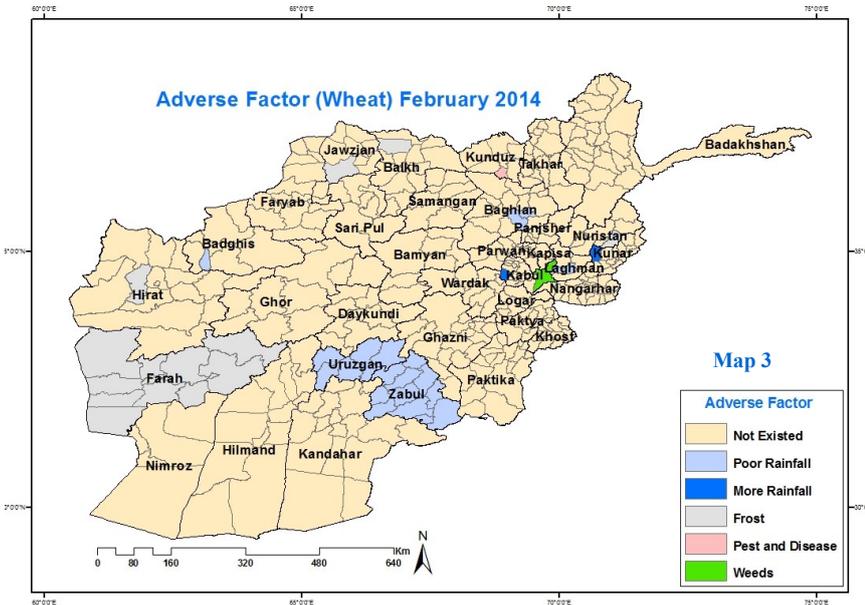
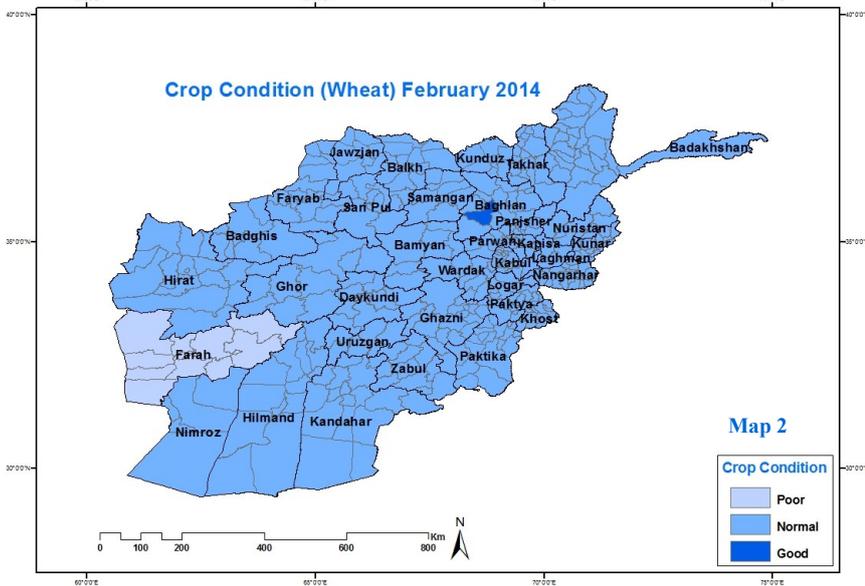
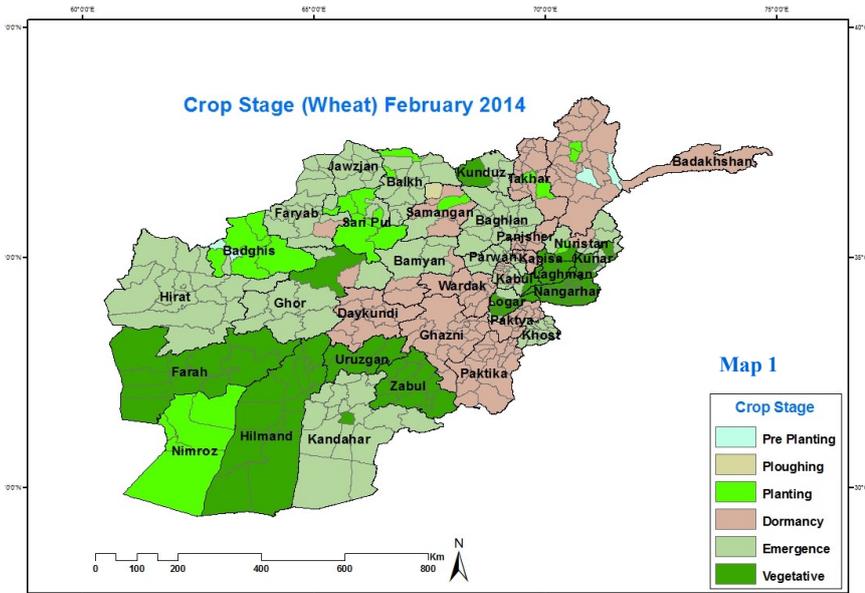
Crop Stage, Crop Condition and Adverse Factor

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

Crop Stage, Crop Condition and Adverse Factor

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

Wheat Crop Stage, Condition and Adverse Factor Maps



Data Source: Agromet Network

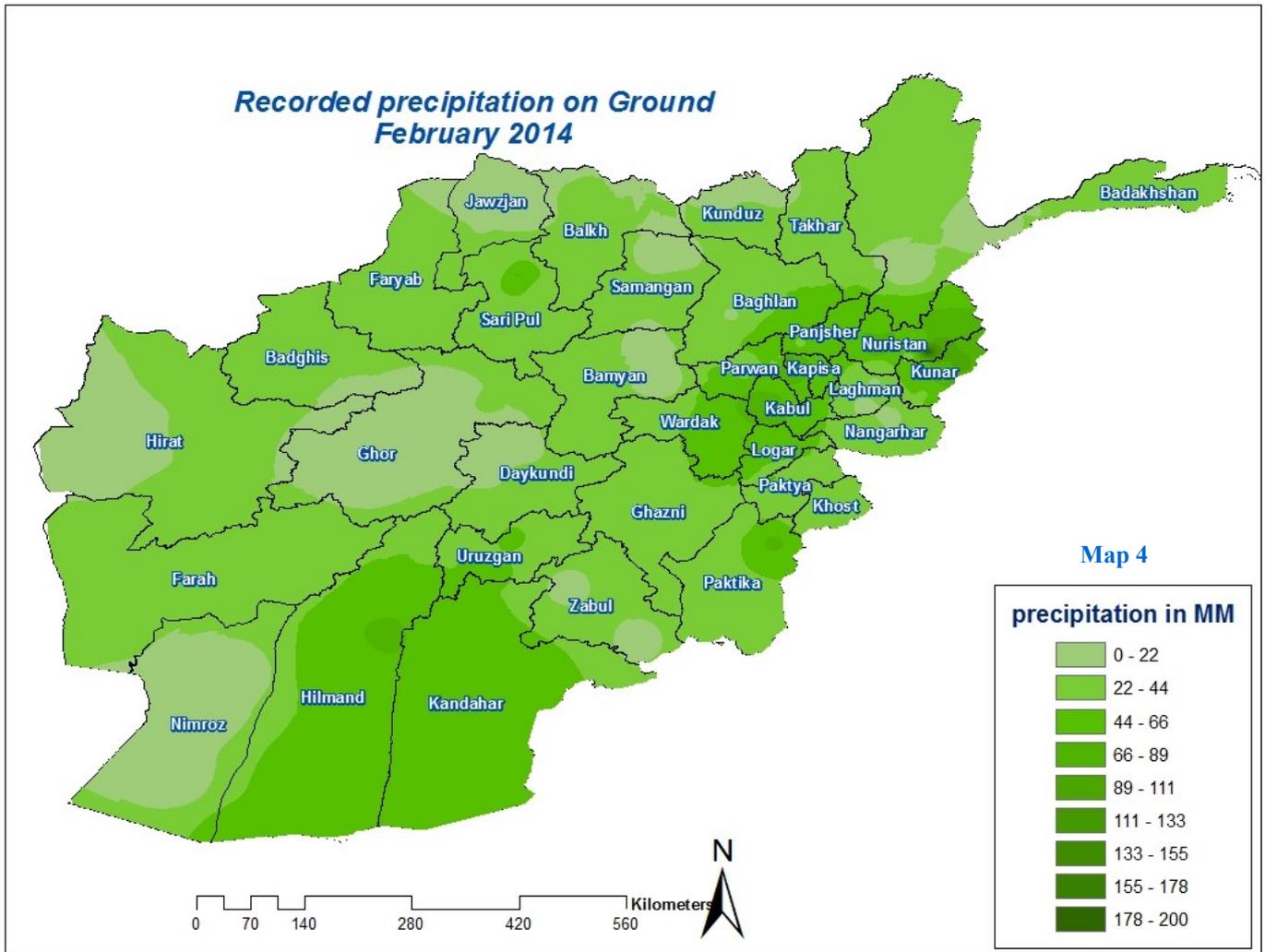
Precipitation

Comparison of monthly rainfall data for the month of February 2014, in contrast to the same month of February 2013, shows significant decrease of rainfall in most of the areas aside from some areas of Southern region during the month of February 2014, compare to the same month of last year.

Comparison of monthly rainfall data for the month of February 2014 in contrast to the same month of Long Term Average, shows different situation of rainfall in entire country during the month of February 2014 compare to the same month of Long Term Average

in some parts of the country it shows increase of rainfall while in other parts of the country it shows decrease of rainfall during the mention period of time.

widespread rainfall occurred during the month of February 2014, as Map (4) Shows the distribution of rainfall during the month of February 2014, in the entire country as the highest rainfall has occurred in Mahmood Razi center of Kapisa province which was 100 mm.



Precipitation

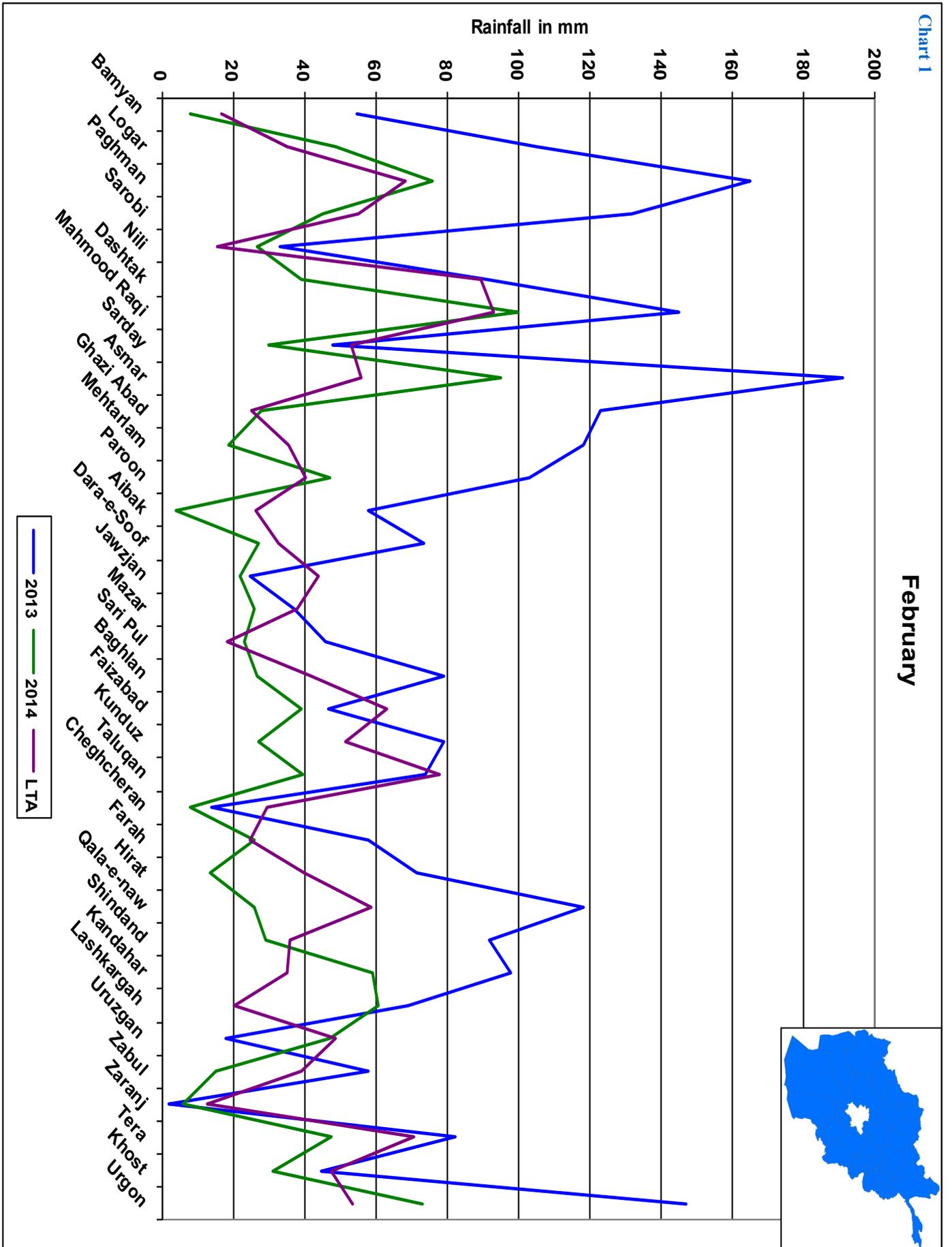
Fairly Widespread rainfall occurred during the month of February 2014, As table 1 shows, during the month of February 2014 in central part to the country Bamyan has received 8 mm, Logar 48.5 mm, Paghman 76 mm, Sarobi 45.2 mm, Nili 26.6 mm, Dashtak 39 mm and Mahmood Raqi 100 mm of precipitation .The highest precipitation has been recorded in Mahmood Raqi center of Kapisa province which is 100 mm. In Eastern region Asmar has received 95 mm, Ghazi Abad 28 mm, Mehtarlam 18.6 mm, and Paroon 47 mm. The highest precipitation in this regain has been recorded in Asmar center of Kunar province which is 95 mm. In Northern region Aibak has received 4 mm, Dara-e-Soof 26.9 mm, Jawzan 22 mm, Mazar 26 mm, and Sari Pul 23 mm, the highest precipitation in this regain has been recorded in Dara-e-Soof district of Samangan province which is 26.9 mm. In North Eastern region Baghlan has received 26.5 mm, Faizabad 39.1 mm, Taluqan 39.5 mm, and Kunduz 27 mm, the highest precipitation in the North Eastern region has been recorded in Taluqan center of Takhar province which is 39.5 mm.

In Southern region Kandahar has received 59 mm, Lashkargah 60.5 mm, Uruzgan 47 mm, Zabul 15 mm, and Zaranj 6 mm, the highest precipitation in this region has been recorded in Lashkargah district of Hilmand province which is 60.5 mm. In South Eastern region Tera has received 47.5 mm, Khost 31 mm, and Urgon 73 mm. In western region Cheghcheran has received 8 mm, Farah 26 mm, Hirat 13.4 mm, Qala-e-Naw 26 mm and Shindand 29 mm the highest precipitation in the respected region has been recorded in Shindand district of Hirat province which is 29 mm. In conclusion we can say that, rainfall has two extremes the high extreme has occurred in Mahmood Raqi center of Kapisa province which is 100 mm during the month of February 2014, and the lowest extreme has occurred in Aibak district of Samangan province which is 4 mm during the month of February 2014. For more information regarding the precipitation for the month of February 2014 please, refer to the below table.

Station Name	February			Deviation	Comparison	Prediction Table 3
	2013	2014	LTA			
Bamyan	54.5	8	16.7	-8.7	Bellow Normal	Dryness
Nili	33.1	26.6	15.4	11.2	Above Normal	No Dryness
Dashtak	91	39	89.7	-50.7	Bellow Normal	Dryness
Logar	105	48.5	34.9	13.6	Above Normal	No Dryness
Paghman	165	76	68.5	7.5	Above Normal	No Dryness
Sarubi	132	45.2	54.9	-9.7	Bellow Normal	Dryness
Mahmood Raqi	145	100	93.3	6.7	Above Normal	No Dryness
Rainfall in Bamyan, Dashtak and Sarubi were decreased in 2014 compared to Long Term Average (LTA)						
Asmar	191	95	56	39	Above Normal	No Dryness
Ghazi Abad	123	28	25.1	2.9	Above Normal	No Dryness
Mehterlam	118.4	18.6	35.5	-16.9	Bellow Normal	Dryness
Paroon	103	47	40.4	6.6	Above Normal	No Dryness
Baghlan	79.1	26.5	41.8	-15.3	Bellow Normal	Dryness
Faizabad	46.5	39.1	63	-23.9	Bellow Normal	Dryness
Kunduz	79	27	51.5	-24.5	Bellow Normal	Dryness
Rainfall Asmar, Ghazi Abad and Paroon were increased in 2014 with respect to Long Term Average (LTA)						
Taluqan	74	39.5	78.1	-38.6	Bellow Normal	Dryness
Aibak	58	4	26.2	-22.2	Bellow Normal	Dryness
Dara-e-soof	73.5	26.9	32.6	-5.7	Bellow Normal	Dryness
Jawzjan	24.5	22	43.7	-21.7	Bellow Normal	Dryness
Mazar	37	26	37.9	-11.9	Bellow Normal	Dryness
Sari Pul	46	23	18.3	4.7	Above Normal	No Dryness
Kandahar	98	59	35.1	23.9	Above Normal	No Dryness
Lashkargah	69	60.5	20.2	40.3	Above Normal	No Dryness
Uruzgan	18	47	48.8	-1.8	Bellow Normal	Dryness
Rainfall in Sari Pul, Kandahar and Lashkargah were increased in 2014 with respect to Long Term Average (LTA)						
Zaranj	2	6	12.7	-6.7	Bellow Normal	Dryness
Tera	82.5	47.5	70.8	-23.3	Bellow Normal	Dryness
Zabul	58	15	38.9	-23.9	Bellow Normal	Dryness
Khost	44.6	31	47.5	-16.5	Bellow Normal	Dryness
Sarady	48	30	52.9	-22.9	Bellow Normal	Dryness
Urgon	147	73	53.3	19.7	Above Normal	No Dryness
Cheghcheran	14	8	29.4	-21.4	Bellow Normal	Dryness
Farah	58	26	24.8	1.2	Above Normal	No Dryness
Hirat	71.5	13.4	39.9	-26.5	Bellow Normal	Dryness
Qala-e-naw	118.5	26	58.7	-32.7	Bellow Normal	Dryness
Shindand	92	29	35.9	-6.9	Bellow Normal	Dryness
Rainfall in Farah increased in 2014 with respect to Long Term Average (LTA)						

Data Source: Agromet Network

Rainfall Graphs for the Month of February 2014

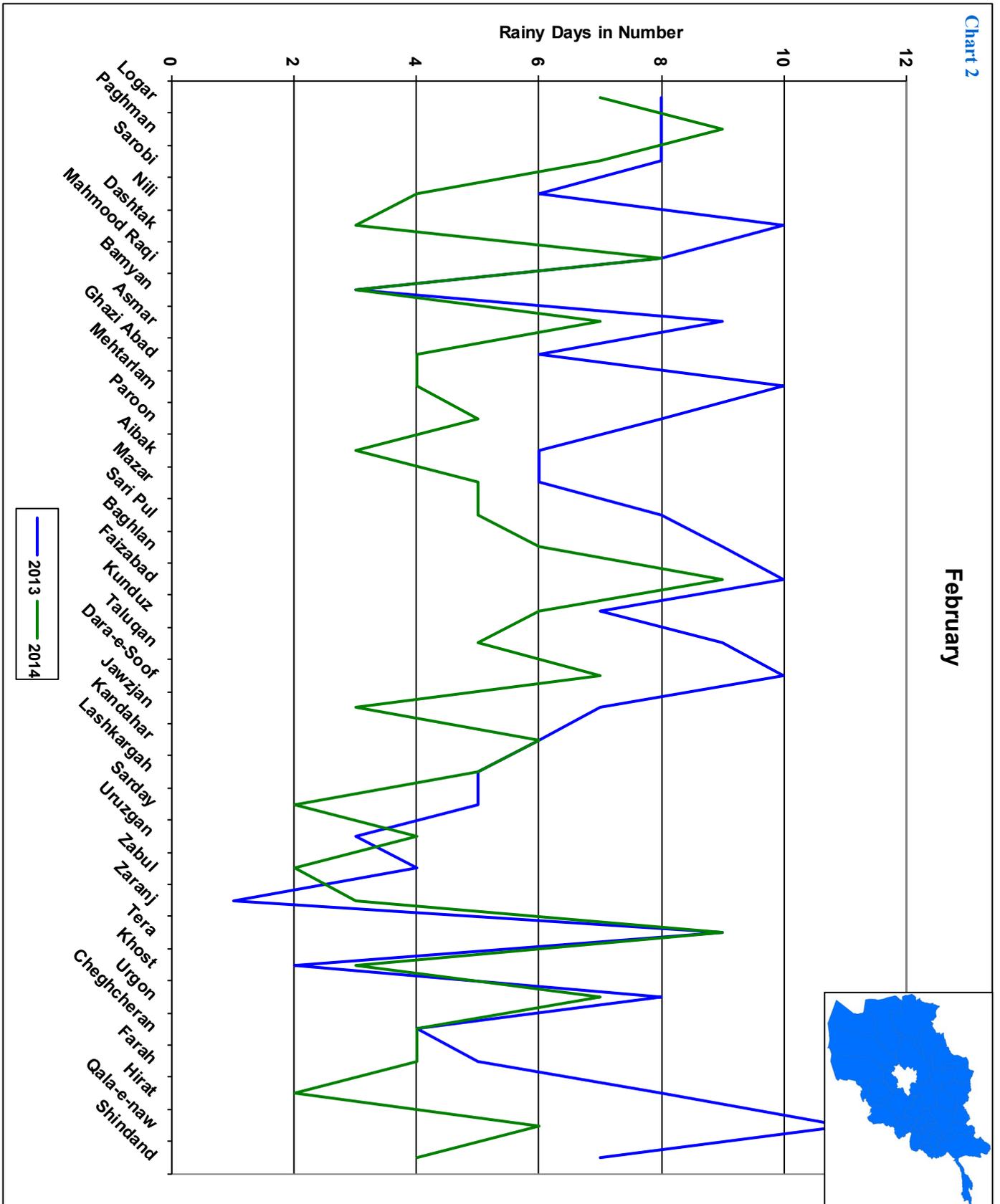


Rainy Days

Based on the bellow table, the areas of Paghman, Uruzgan, Zaranj and Khost having higher number of rainy days during the month of February 2014, compared to the same month in 2013. The areas such as, Logar, Sarubi, Nili, Dashtak, Asmar, Ghazi Abad, Mehtarlam, Paroon, Aibak, Mazar -i- Sharif, Sari Pul, Baghlan, Faizabad, Kunduz, Taluqan, Dara-e-Soof, Jawzjan, Sarday, Zabul, Urgan, Farah, Hirat, Qala-e-Nowa and Shindand are the areas with the least number of rainy days in February 2014, in comparison to the same month of 2013. The areas such as Mahmood Raqi, Bamyan, Kandahar, Lashkargah, Tera and Cheghcheran are the areas that had equal rainy days in comparison to the same month of last year.

No	Station Name	February		Comparison Prediction with respect to (2013) Table 2
		Rainy Days		
		2013	2014	
1	Dashtak	10	3	Dryness
2	Logar	8	7	Dryness
3	Paghman	8	9	No Dryness
4	Sarobi	8	7	Dryness
5	Bamyan	3	3	No Change
6	Mahmood Raqi	8	8	No Change
7	Nili	6	4	Dryness
8	Ghaziabad	6	4	Dryness
9	Asmar	9	7	Dryness
10	Mehterlam	10	4	Dryness
11	Paroon	8	5	Dryness
12	Aibak	6	3	Dryness
13	Mazar	6	5	Dryness
14	Saripul	8	5	Dryness
15	Baghlan	9	6	Dryness
16	Faizabad	10	9	Dryness
17	Kunduz	7	6	Dryness
18	Taluqan	9	5	Dryness
19	Dara-e-soof	10	7	Dryness
20	Jawzjan	7	3	Dryness
21	Zabul	4	2	Dryness
22	Kandahar	6	6	No Change
23	Lashkargah	5	5	No Change
24	Sarday	5	2	Dryness
25	Uruzgan	3	4	No Dryness
26	Zaranj	1	3	No Dryness
27	Tera	9	9	No Change
28	Khost	2	3	No Dryness
29	Urgan	8	7	Dryness
30	Cheghcheran	4	4	No Change
31	Farah	5	4	Dryness
32	Hirat	8	2	Dryness
33	Qala-e-naw	11	6	Dryness
34	Shindand	7	4	Dryness

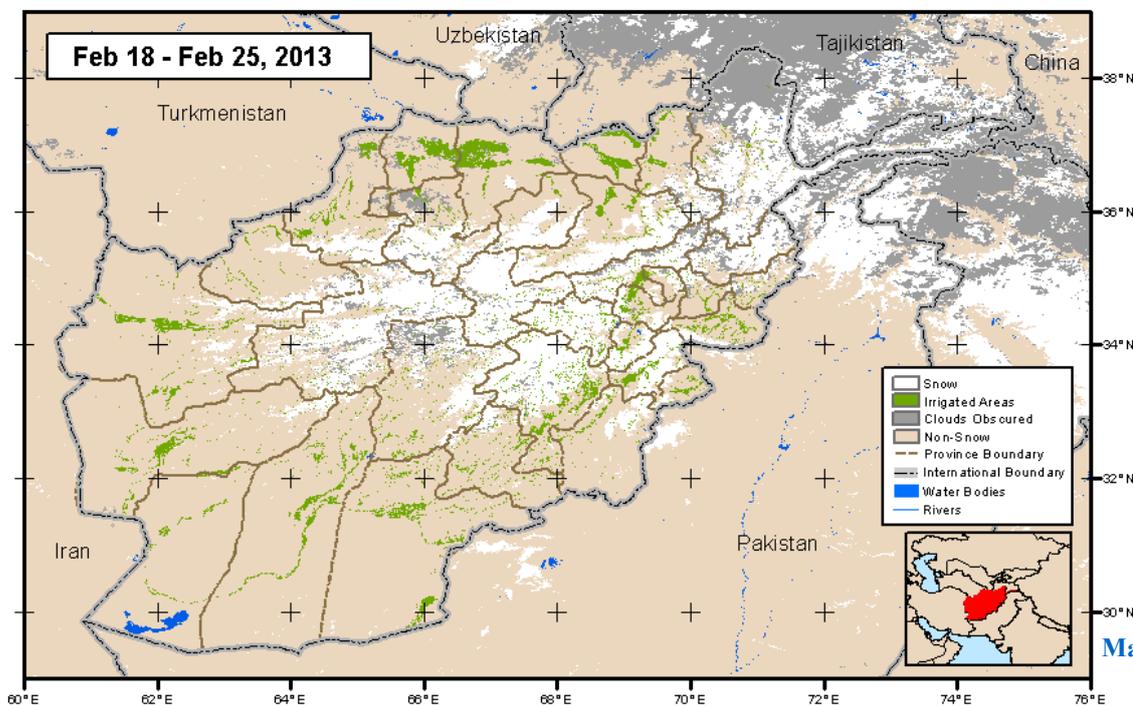
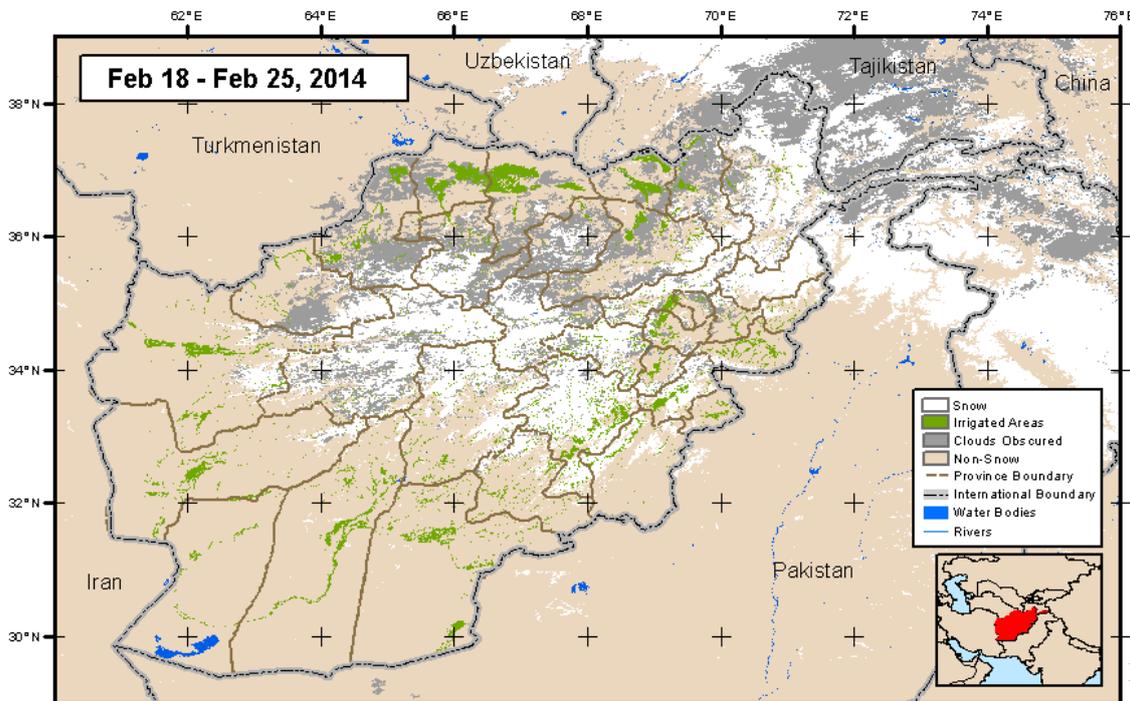
Rainy Days for the Month of February 2014



Comparison of rainy days for the month of February 2014, with the same month of last year (Chart 2) shows significant decrease of rainy days

compared to the same month of last year aside from few parts of the South, Southeast and Central.

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



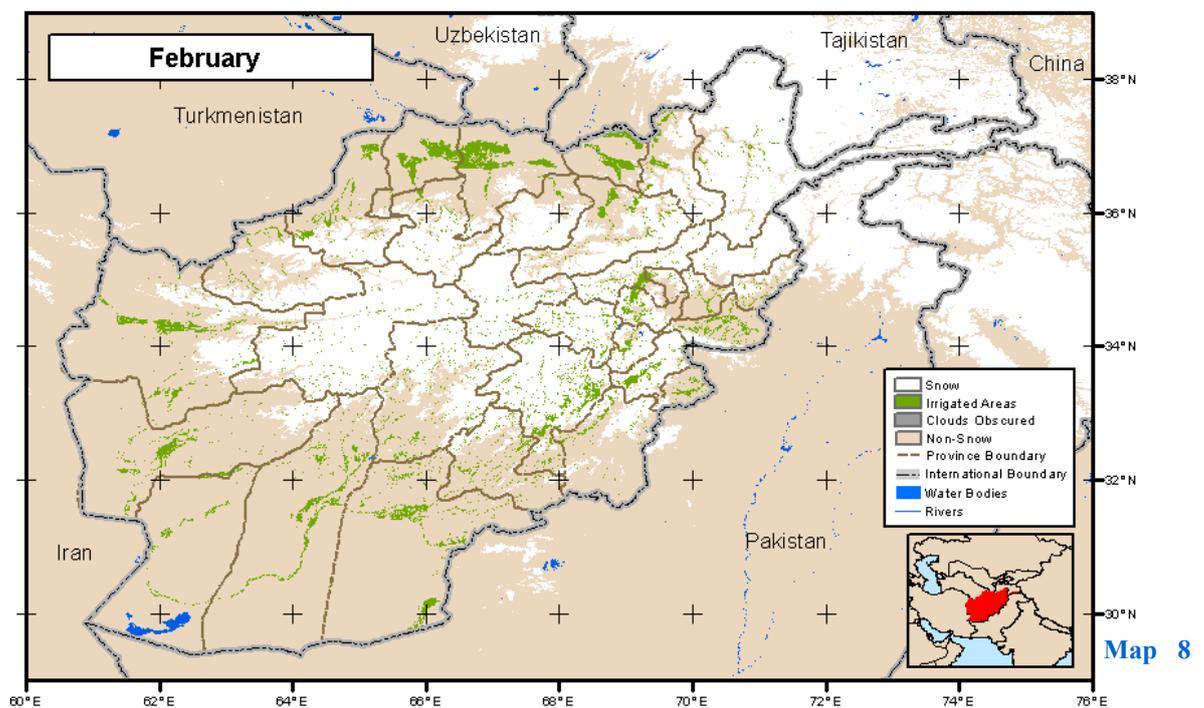
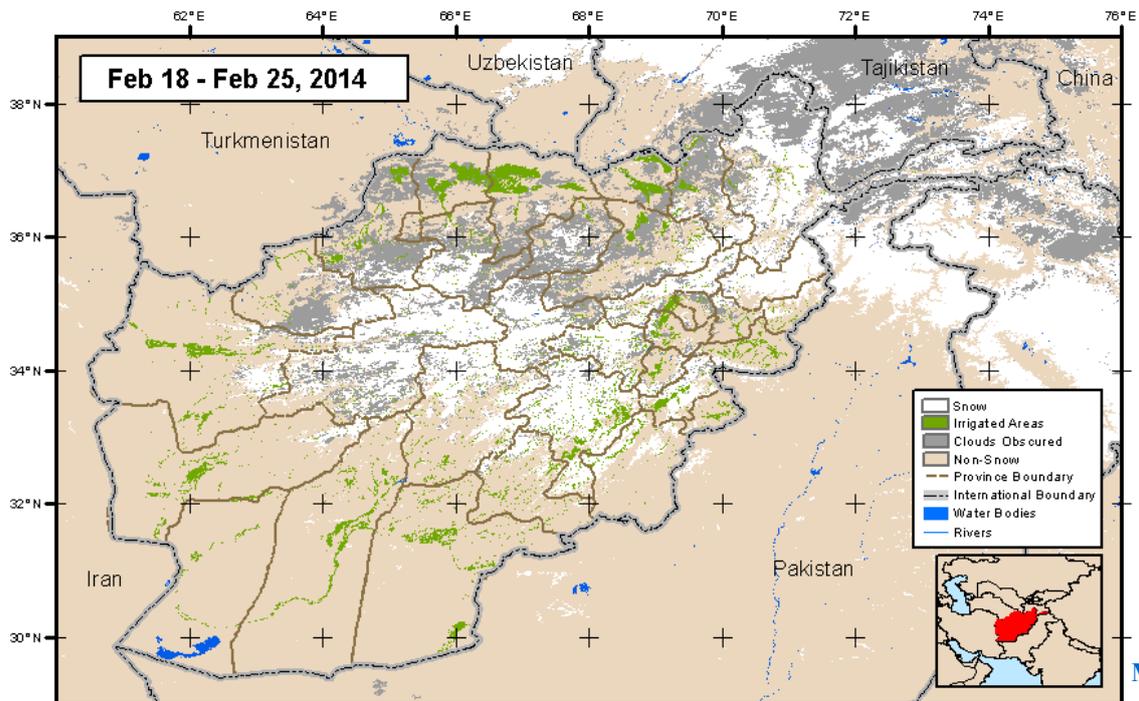
Map created by USGS/EROS



Comparison of snow extent for the period of (February 18 – February 25) 2014 with the same period in 2013 (Map 5 - 6) shows small decrease in snow extent

during the above mentioned period of time over the same period of time in 2013.

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



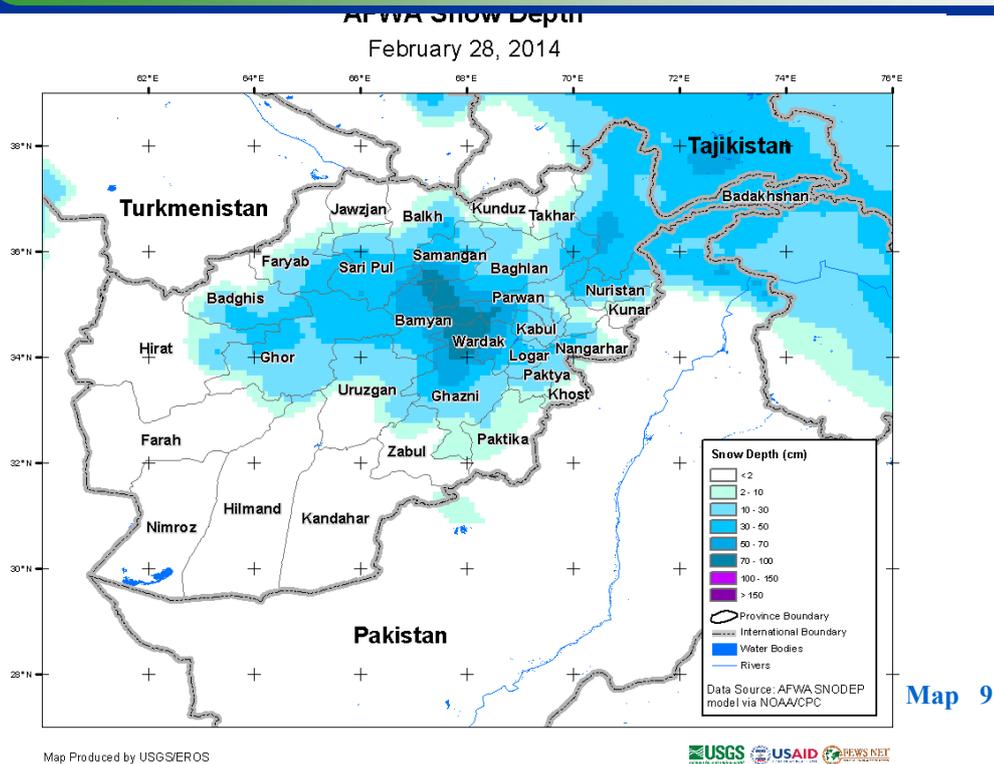
Map created by USGS/EROS



Comparison of snow extent for the month of February 2014, with the same month of long term average (Map 7-8) shows significant decrease in snow

extent during the month of February 2014, over the same month of long term average.

Afghanistan Snow Depth for month of February 2014



Map (9) shows snow depth for the end of February 2014. As map (9) shows the snow depth has been recorded from 70 to 100 cm in some part of the

Central Highlands, and 50 – 70 cm in most parts of Central Highlands, North East and North West.



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