Issue No: 68
October: 2010

The Afghanistan Agrometerological Monthly Bulletin

Topics Crop Information Precipitation Temperature NDVI

Adverse Factor 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

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Data Source:

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

Summary

Snow fall developed across in the highest elevations of the Northeastern region and the Central Highlands, but snow fall was light during October than expected.

Snow fall developed across in the highest elevations of the Northeastern region and the Central Highlands, but snow fall was light during October than expected, and snow depth had small increase during the month of October compared to the same month of last year and long term average in the Northeastern region.

Dry season has given way relatively to light wet season in October, and precipitation was usually light during October, and no significant change occurred in rainfall during October current year than the same month of last year, but rainfall had significant decrease than long term average.

Temperature was lower during Sep 2010 , but the country experienced slightly high temperature during the month of October 2010 than the same month of last year .

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Emergence	Normal	Not excised
		Paghman	Paghman	Emergence	Normal	Not excised
		Kabul	Darulaman	**Planting (Winter Wheat)**		
		Surubi	Surubi	**Pre-planting (Winter Wheat)**		
	Panjsher	Dara	Dara	**Planting (Winter Wheat)**		
		Dashtak	Dashtak	**Pre-planting (Winter Wheat)**		
	Parwan	Syagerd	Gor band	Emergence	Normal	Not excised
		Charikar	Charikar	Emergence	Normal	Not excised
	Kapisa	Mahmoodraqi	Mahmoodraqi	**Pre-planting (Winter Wheat)**		
		Kohistan	Kohistan			
	Wardak	Chake	Chake	Emergence	Normal	Not excised
		Jaghatoo	Jaghatoo	Emergence	Normal	Not excised
East Central	Bamyan	Bamyan	Bamyan	**Planting (Winter Wheat)**		
		Yakawlang	Yakawlang			
		Panjab	Panjab	**Pre-planting (Winter Wheat)**		
Eastern	Nangarhar	Agam	Agam	**Ploughing (Winter Wheat)**		
		Batikot	Ghaziabad	**Pre-planting (Winter Wheat)**		
		Jalalabad	Farm jaded	**Ploughing (Winter Wheat)**		

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Eastern	Kunar	Asmar	Asmar	Pre planting (Winter Wheat)		
		Asad Abad	Asad Abad			
	Laghman	Mihtarlam	Mihtarlam			
	Noristan	Paroon	Paroon			
		Do Ab	Do Ab			
North Eastern	Takhar	Bangi	Bangi			
		Taluqan	Taluqan			
	Kunduz	Imam Sahib	Imam Sahib	Harvested		
		Qaliazal	Aqtipa			
		Chardara	Chardara			
		Kunduz	Kunduz			
		Ali Abad	Ali Abad			
	Baghlan	Pulikhomri	Pozaishan	Pre planting (Winter Wheat)		
	Badakhshan	Argo	Argo	Harvested		
		Baharak	Baharak	Pre planting (Winter Wheat)		
		Ashkashm	Ashkashm			
		Khash	Kash	Planting (Winter Wheat)		
		Faiz Abad	Faiz Abad	Harvested		
South Eastern	Khost	Khost	Khost	Planting (Winter Wheat)		
		Khost	Shimal	Ploughing (Winter Wheat)		
		Ali Sher	Ali Sher	Pre planting (Winter Wheat)		
	Paktia	Zormat	Rohani Baba	Ploughing (Winter Wheat)		
		Gardiz	Tera	Planting (Winter Wheat)		
	Paktika	Urgon	Urgon	Ploughing (Winter Wheat)		
		Sharana	Sharana	Planting (Winter Wheat)		
		Khair kot	Khair kot			
	Ghazni	Muqur	Muqur	Ploughing (Winter Wheat)		
		Andar	Bande Sardi	Planting (Winter Wheat)		
Southern	Nimroz	Zaranj	Zaranj	Ploughing (Winter Wheat)		
	Kandahar	Kandahar	Kandahar	Pre planting (Winter Wheat)		
	Zabul	Qalat	Qalat	Planting (Winter Wheat)		
	Urozgan	Tirin Kot	Tirin Kot	Ploughing (Winter Wheat)		
	Hilmand	Nad Ali	Nad Ali	Pre-planting (Winter Wheat)		
		Greshk	Greshk			
		Nawa	Nawa			
		Lashkargah	Bolan			

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Northern	Balkh	Takhta pol	Dihdadi	Planting (Winter Wheat)		
		Nahrishahi	Nahrishahi			
	Jawzjan	Sheberghan	Sheberghan	Pre planting (Winter Wheat)		
		Darzab	Darzab	Plugging (Winter Wheat)		
	Saripul	Saripul	Saripul	Pre planting (Winter Wheat)		
		Sozmaqala	Sozmaqala			
	Faryab	Maimana	Maimana			
		Andkhoy	Andkhoy	Emergence	Good	Pest and Diseases
	Samangan	Aibak	Aibak	Pre planting (Winter Wheat)		
		Dara Souf	Dara Souf	Planting (Winter Wheat)		
		Sar bagh	Sarbagh	Harvested		
Western	Badghis	Qalainow	Qalainow	Pre planting (Winter Wheat)		
		Muqur	Muqur	Planting (Winter Wheat)		
	Ghor	Chaghcharan	Chaghcharan			
	Hirat	Shindand	Shindand			
		Zindajan	Zindajan			
		Gwazara	Falahat			
		Hirat	Farm Urdokhan			
	Farah	Farah	Farah			

Zone	Province	District	Station	Maize		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Surubi	Surubi	Grain Filling	Normal	Shortage of inputs
		Shaker dara	Shaker dara	Harvested		
	Faryab	maimana	Maimana			
	Parwan	Charikar	Charikar			
		Syagerd	Syagerd			
	Panjshir	Dashtak	Dashtak			
	Kapisa	Kapisa	Mahmod Raqi			
		Kohistan	Kohistan			
		Sya gerd	Sya gerd			
Eastern	Nangarhar	Agam	Agam			
		Batikot	Ghazi Abad			
		Jalalabad	Farm jaded			
		Bnehsood	Behsood			

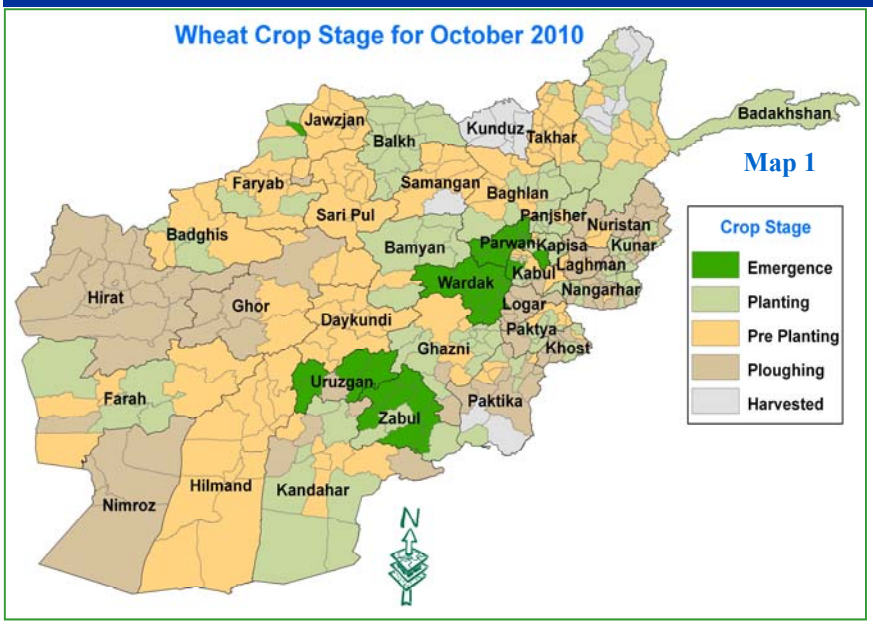
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Maize		
				Crop Stage	Crop Condition	Adverse Factor
Eastern	Kunar	Asmar	Asmar	Harvested		
		Asadabad	Asadabad			
	Noristan	Paroon	Paroon			
		Waigal	Waigal			
		Norgaram	Norgaram			
		Do Ab	Do Ab	Grain Filling	Normal	Not existed
North Eastern	Kunduz	Imam Sahib	Imam Sahib	Harvested		
		Qala - e - Zal	Aqtipa	Grain Filling	Normal	Not existed
		Chardara	Chardara	Harvested		
		Kunduz	Kunduz			
		Ali Abad	Ali Abad			
		Archi	Archi			
	Takhar	bangi	Bangi	Grain Filling	Good	Weeds
		Taloqan	Taloqan	Grain Filling	Normal	Weeds
	Baghlan	Polikhomri	Poza ieshan	Grain Filling	Normal	Not existed
		Polikhomri	Polikhomri	Grain Filling	Normal	Not existed
South Eastern	Khost	Khost	Khost	Ploughing		
		Khost	Shimal	Harvested		
		Ali Sher	Ali Sher			
	Paktia	Zormat	Rohani Baba			
		Gardiz	Tera			
	Paktika	Urgon	Urgon			
		Sharana	Sharana			
Southern	Hilmand	Nad Ali	Nad Ali	Grain Filling	Normal	Not existed
		Greshk	Greshk	Grain Filling	Normal	Not existed
		Nawa	Nawa	Harvested		
		Lashkargah	Bolan	Grain Filling	Normal	Not existed
	Urozgan	Urozgan	Urozgan	Harvested		
Northern	Samangan	Dara Souf	Dara Souf	Grain Filling	Good	Not existed
		Sar bagh	Sar bagh	Harvested		
Western	Hirat	Shendand	Shendand			
		Zenda jan	Zenda jan			
	Farah	Farah	Farah			
	Ghazni	Moqur	Muqur	Grain Filling	Normal	Not existed

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Rice		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Sarubi	Sarubi	Grain Filling	Normal	Shortage of inputs
Eastern	Nangarhar	Agam	Agam	Harvested		
		Batikot	Ghazi Abad			
		Jalalabad	Farm jaded			
		Jalalabad	Farm Jadeed			
	Kunar	Asmar	Asmar	Grain Filling	Normal	Poor rainfall
		Asad Abad	Asad Abad	Harvested		
	Laghman	Mihtarlam	Mihtarlam	Grain Filling	Normal	Shortage of inputs
North Eastern	Kunduz	Imam Sahib	Imam Sahib	Harvested		
		Qaliazal	Aqtipa	Grain Filling	Normal	Not existed
		Chardara	Chardara	Harvested		
		Kunduz	Kunduz			
		Khan Abad	Khan Abad			
		Ali Abad	Ali Abad			
		Archi	Archi			
	Takhar	Bangi	Bangi	Grain Filling	Good	Weeds
		Taloqan	Taloqan	Harvested		
	Baghlan	Polikhomri	Polikhomri	Flowering	Normal	Not existed
		Pozaishan	Pozaishan	Flowering	Normal	Not existed
South Eastern	Khost	Khost	Khost	Plugging		
		Khost	Shimal	Harvested		
	Paktia	Ali Sher	Ali Sher			
		Zormat	Rohanee baba			
Southern	Urozgan	Urozgan	Urozgan			
Western	Hirat	Shendand	Shendand	Pre-planting		
		Zenda jan	Zenda jan			

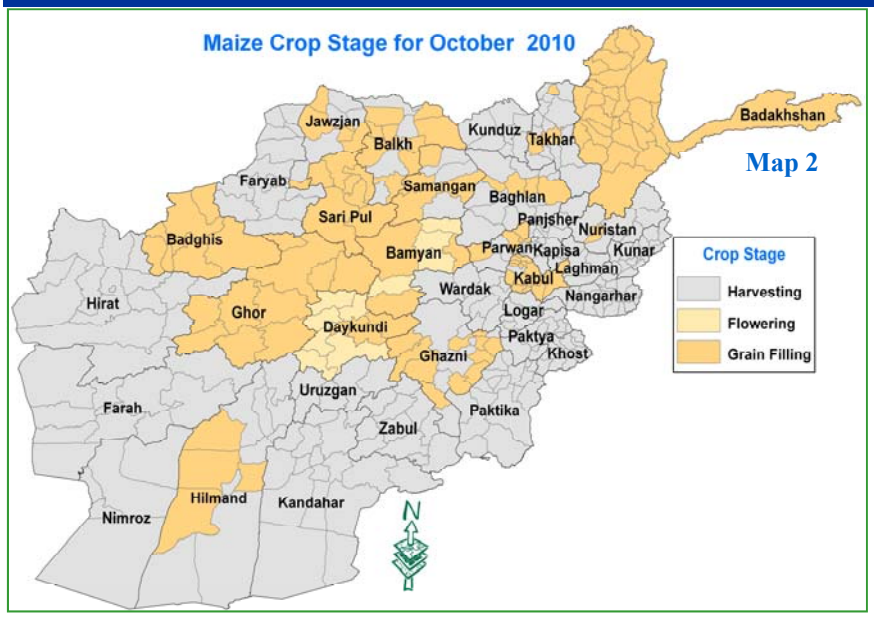
Wheat Crop Stage, Condition and Adverse Factor Maps

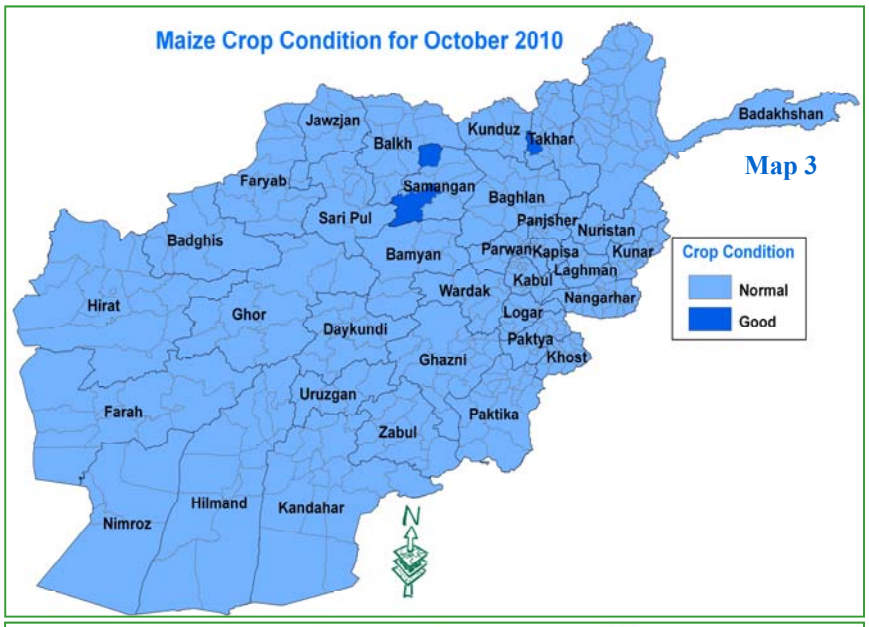


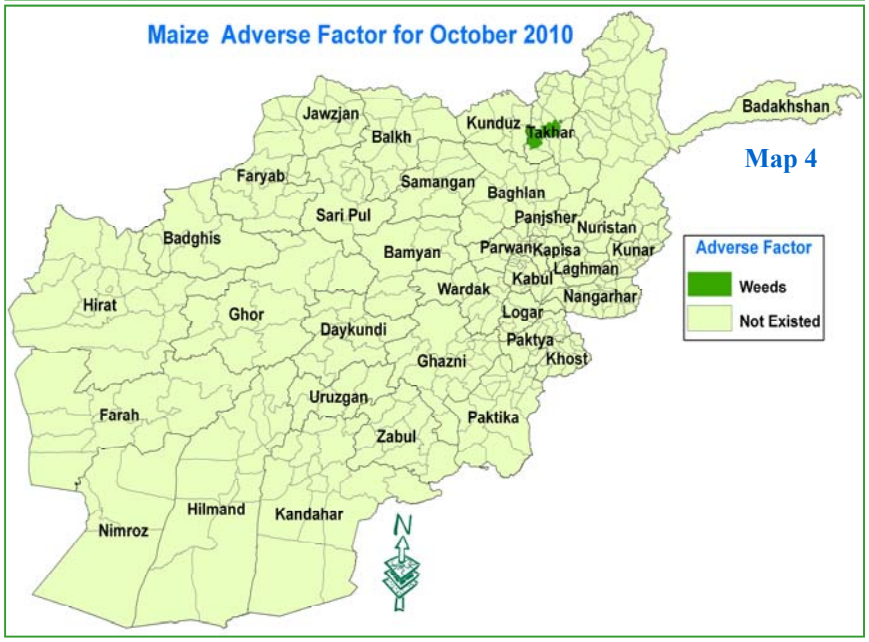
Not Visible Crop Condition

Not Visible Adverse Factor

Maize Crop Stage, Condition and Adverse Factor Maps

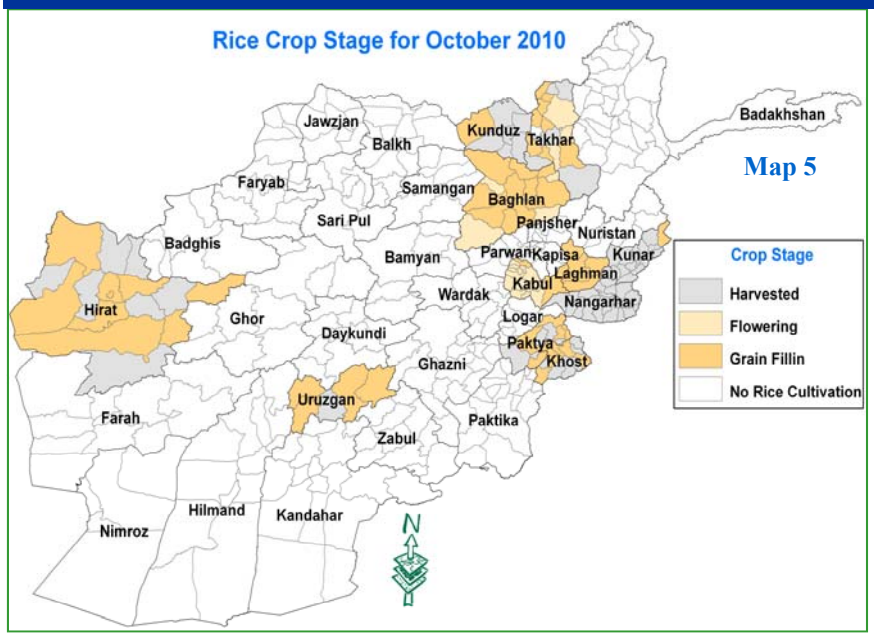


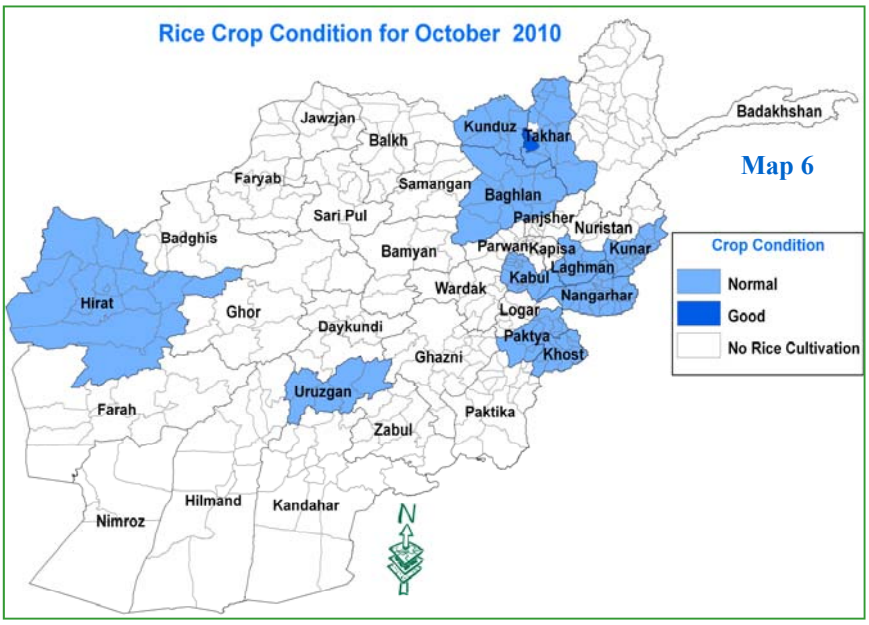


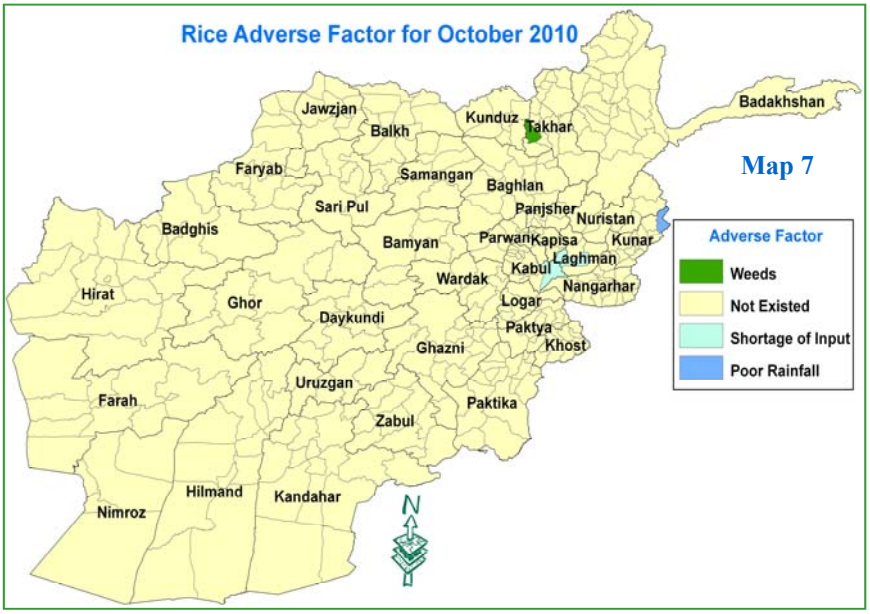


Data Source:Agromet Network

Rice Crop Stage, Condition and Adverse Factor Maps







Data Source:Agromet Network

However low pressure systems changed and tracked in to the country, dry season has given way relatively to light wet season in October 2010, as is typical in this time of the year. Although precipitation was usually light during this month and no significant change occurred in rainfall during October of the current year than the same month of last year.

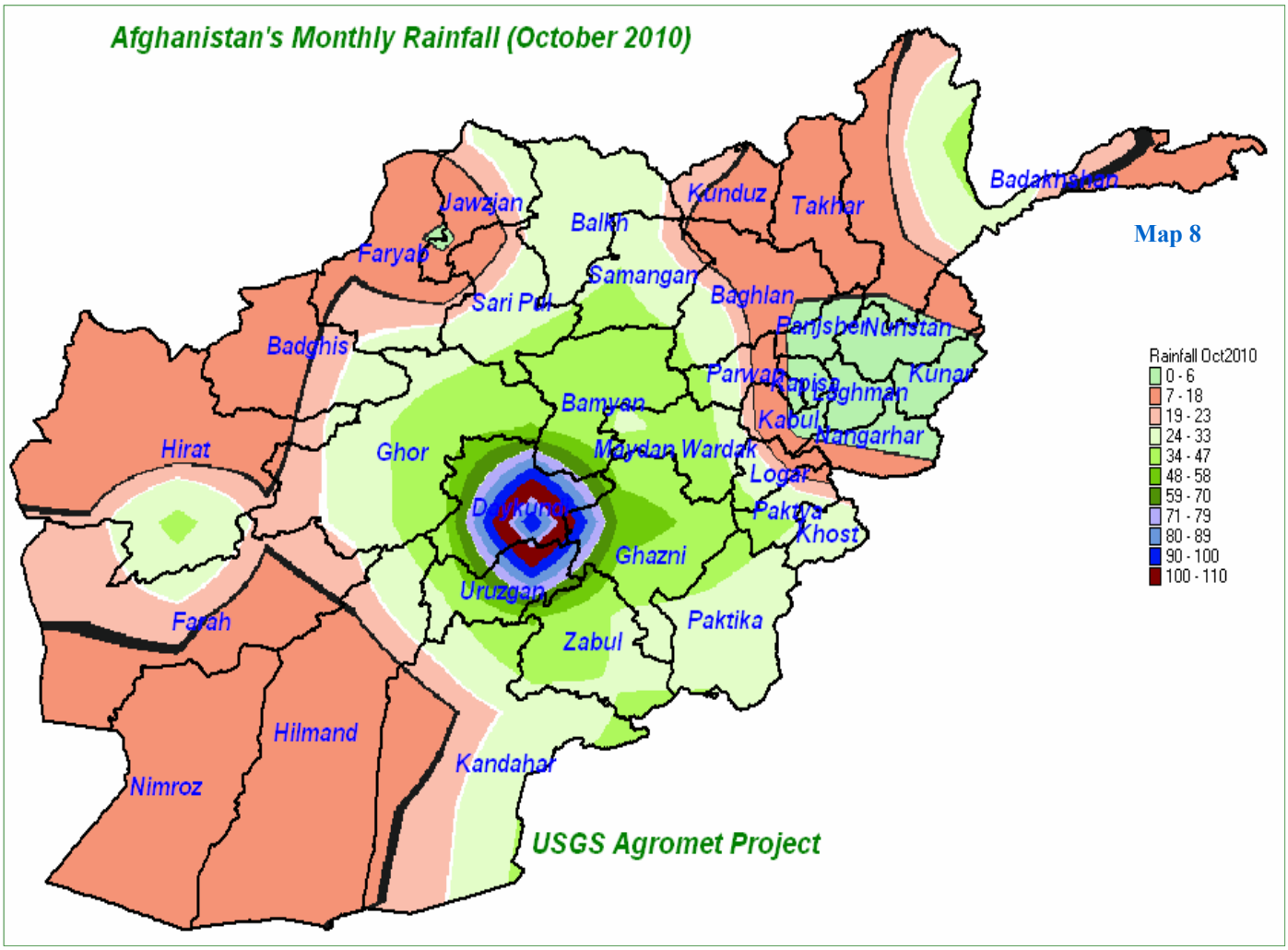
Comparison of rainfall data for the month of October 2010 with the same month of 2009 (Chart 1) shows, no change has been occurred in rainfall data during the month of October 2010 over the same month of last year.

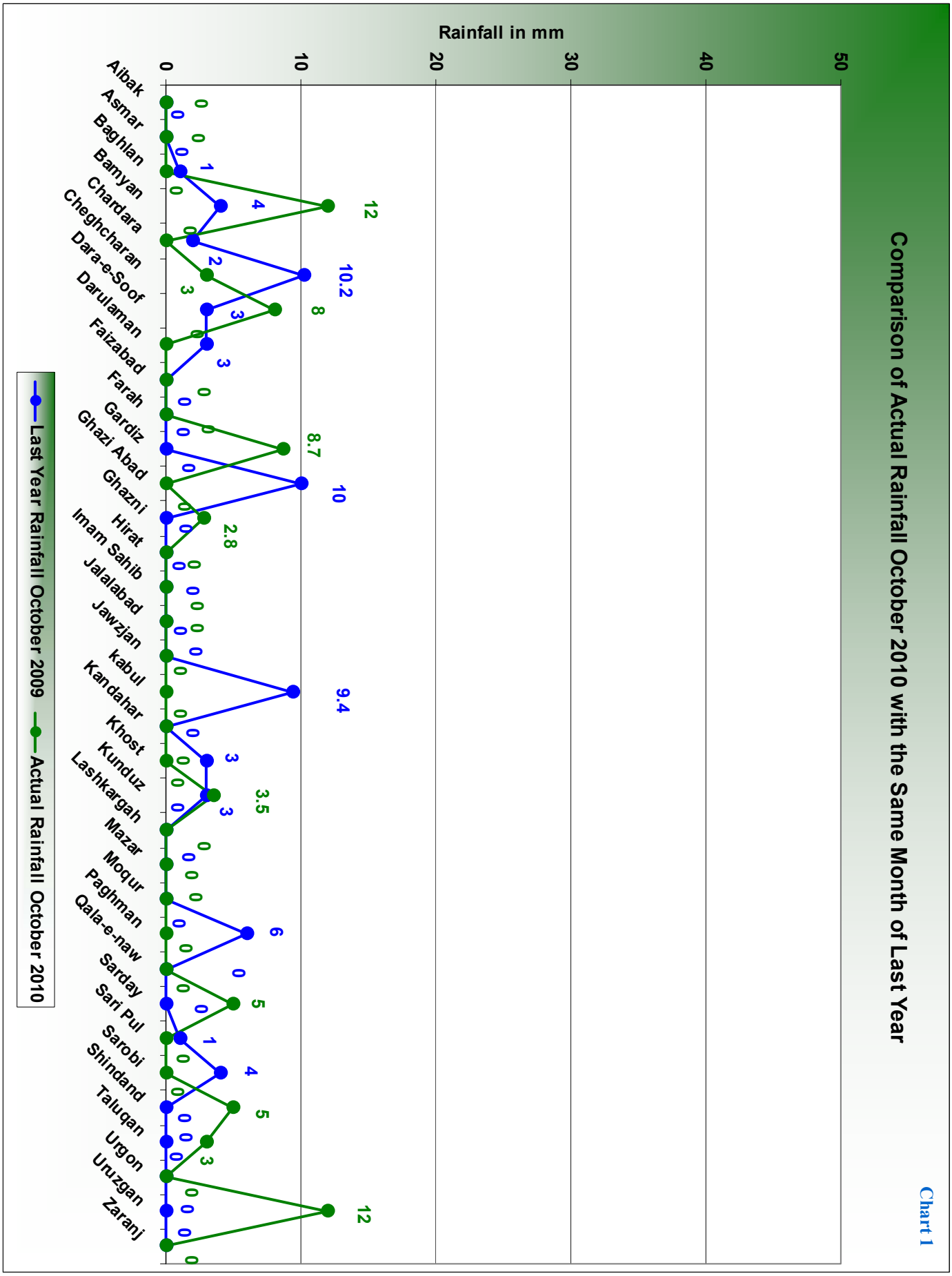
However rainfall occurrence had variable distribution in different parts of the country, rainfall had an increase in some stations for the month of October 2010 compared to the same month of last year. In general rainfall had no significant change.

Comparison of rainfall data for the month of October 2010 with the same month of long term average (Chart 2) shows significant decrease of rainfall during the month of October 2010 over the same month of long term average around the country).

Distribution of rainfall as usual was variable in different parts of the country during the month of October 2010.

As map (8) shows most amount of rainfall occurred in the South part of the Central Highlands and some parts in the Northeastern region. In the Southern, Southwestern, and Western regions dryness conditions continued.




Comparison of Actual Rainfall October 2010 with the Same Month of Last Year
Chart 1
Rainfall in mm
0
10
20
30
40
50
Aibak
Asmar
Baghlan
Bamyan
Chardara
Cheghcharan
Dara-e-Soof
Darulaman
Faizabad
Farah
Gardiz
Ghazi Abad
Ghazni
Hirat
Imam Sahib
Jalalabad
Jawzjan
kabul
Kandahar
Khost
Kunduz
Lashkargah
Mazar
Moqur
Paghman
Qala-e-naw
Sarday
Sari Pul
Sarobi
Shindand
Taluqan
Urgon
Uruzgan
Zaranj
12
10.2
8
8.7
10
2.8
9.4
3.5
6
12
Last Year Rainfall October 2009
Actual Rainfall October 2010

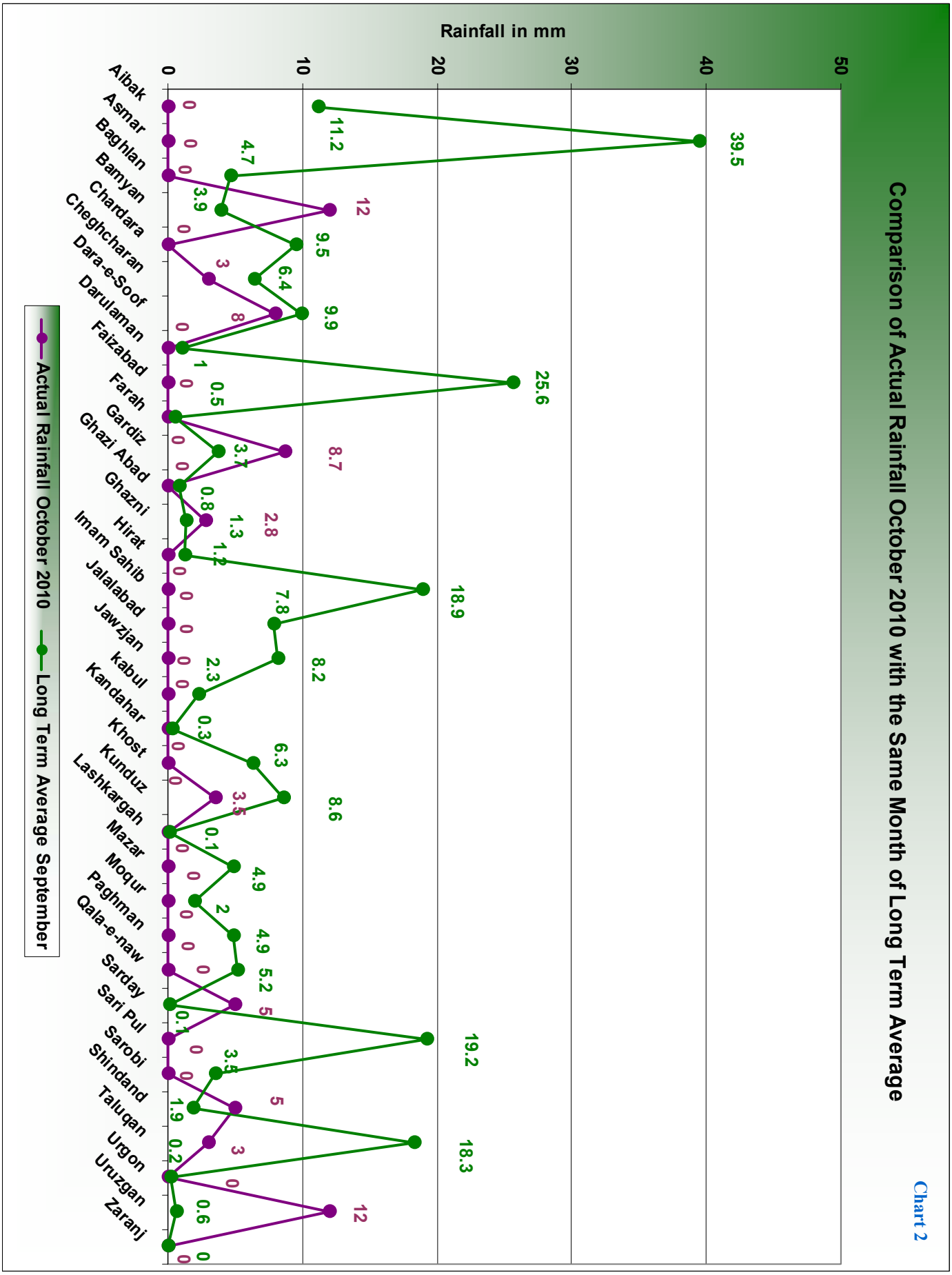

Comparison of Actual Rainfall October 2010 with the Same Month of Long Term Average
Rainfall in mm
0
10
20
30
40
50
Aibak
Asmar
Baghlan
Bamyan
Chardara
Cheghcharan
Dara-e-Soof
Darulaman
Faizabad
Farah
Gardiz
Ghazi Abad
Ghazni
Hirat
Imam Sahib
Jalalabad
Jawzjan
kabul
Kandahar
Khost
Kunduz
Lashkargah
Mazar
Moqur
Paghman
Qala-e-naw
Sarday
Sari Pul
Sarobi
Shindand
Taluqan
Urgon
Uruzgan
Zaranj
39.5
11.2
12
4.7
9.5
3.9
6.4
3
9.9
8
25.6
1
0.5
8.7
3.7
2.8
0.8
1.3
1.2
18.9
7.8
8.2
2.3
0.3
6.3
3.5
8.6
0.1
4.9
2
4.9
5.2
5
19.2
0.1
3.5
5
1.9
3
18.3
0.2
0
12
0.6
0
Actual Rainfall October 2010
Long Term Average September

Chart 2

Rainfall for the Month of October 2010

Table 1

Station	Rainfall October 2009 in (mm)	Rainfall October 2010 in (mm)	Long Term Average October in (mm)
Aibak	0	0	11.2
Asmar	0	0	39.5
Baghlan	1	0	4.7
Bamyan	4	12	3.9
Chardara	2	0	9.5
Cheghcharan	10.2	3	6.4
Dara-e-Soof	3	8	9.9
Darulaman	3	0	1
Faizabad	0	0	25.6
Farah	0	0	0.5
Gardiz	0	8.7	3.7
Ghazi Abad	10	0	0.8
Ghazni	0	2.8	1.3
Hirat	0	0	1.2
Imam Sahib	0	0	18.9
Jalalabad	0	0	7.8
Jawzjan	0	0	8.2
kabul	9.4	0	2.3
Kandahar	0	0	0.3
Khost	3	0	6.3
Kunduz	3	3.5	8.6
Lashkargah	0	0	0.1
Mazar	0	0	4.9
Moqur	0	0	2
Paghman	6	0	4.9
Qala-e-naw	0	0	5.2
Sarday	0	5	0.1
Sari Pul	1	0	19.2
Sarobi	4	0	3.5
Shindand	0	5	1.9
Taluqan	0	3	18.3
Urgon	0	0	0.2
Uruzgan	0	12	0.6
Zaranj	0	0	0

Data Source:Agromet Network

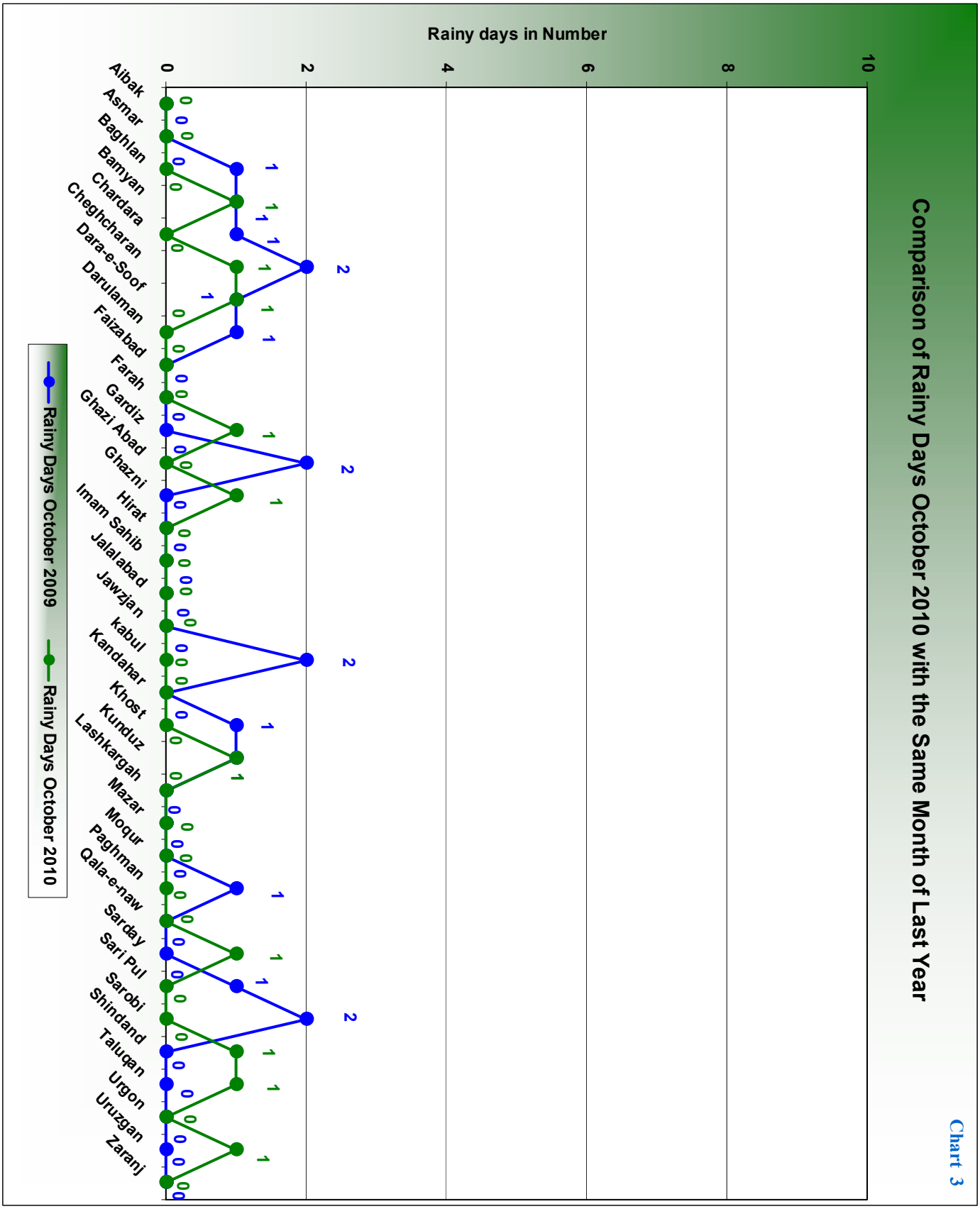
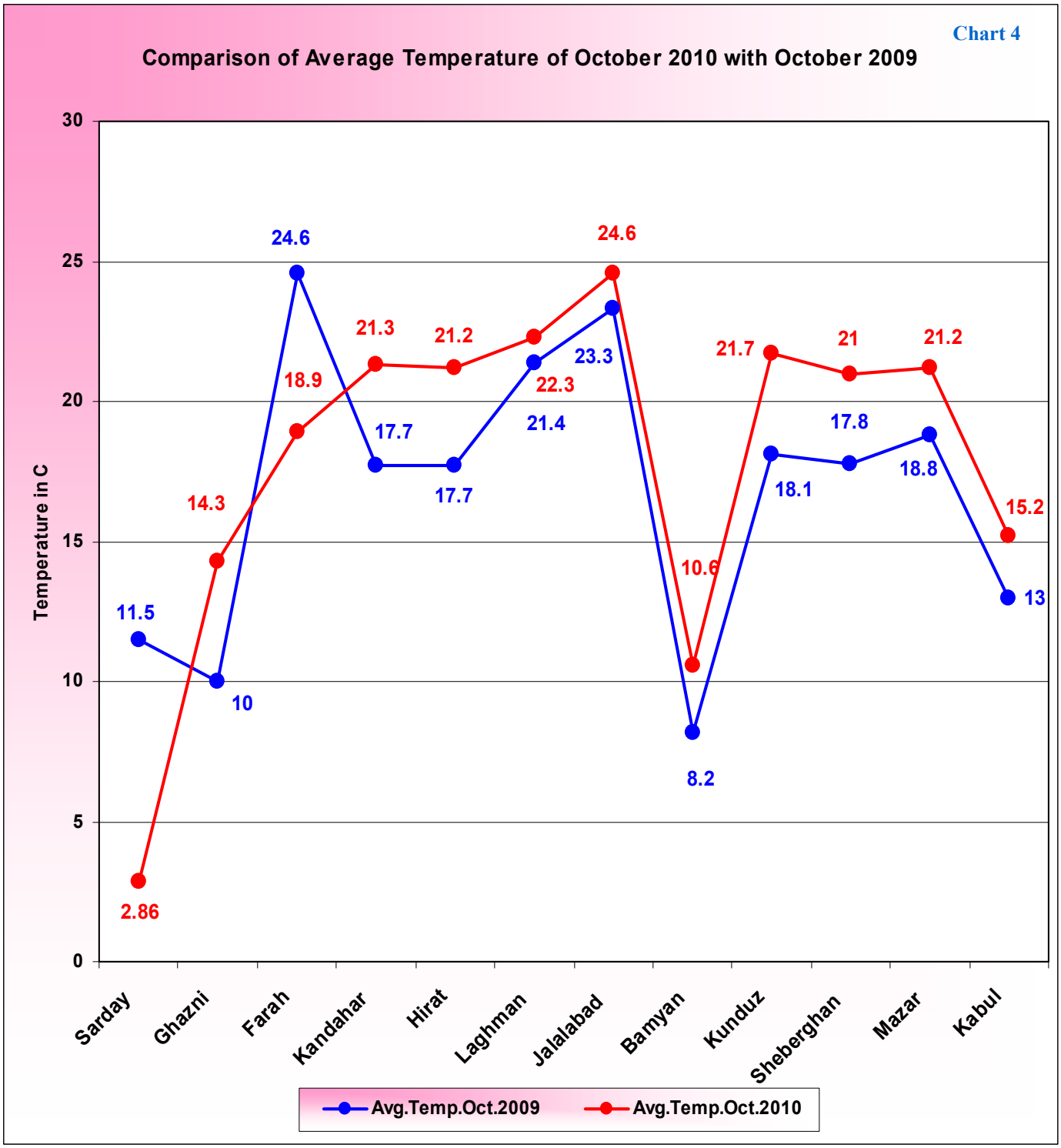


Chart 3

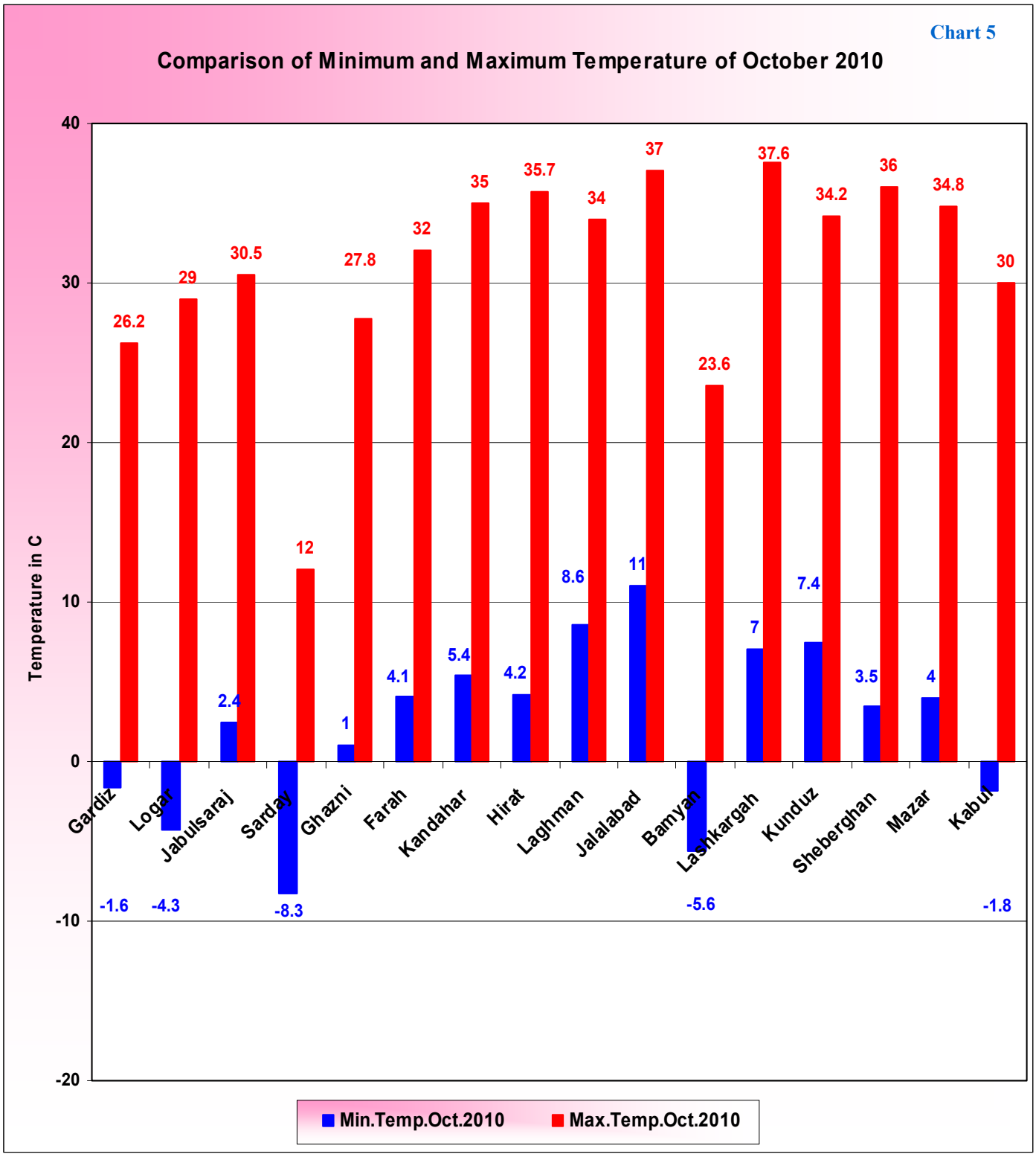
Based on the recorded data for the month of October 2010, comparison of the rainy days during this month of the current year with the same month of 2009 (Chart 3) shows an increase of rainy days during the month of October 2010 compared to the same month of last year around the country.



Temperature for the month of October 2010 was slightly higher than the same month of last year .

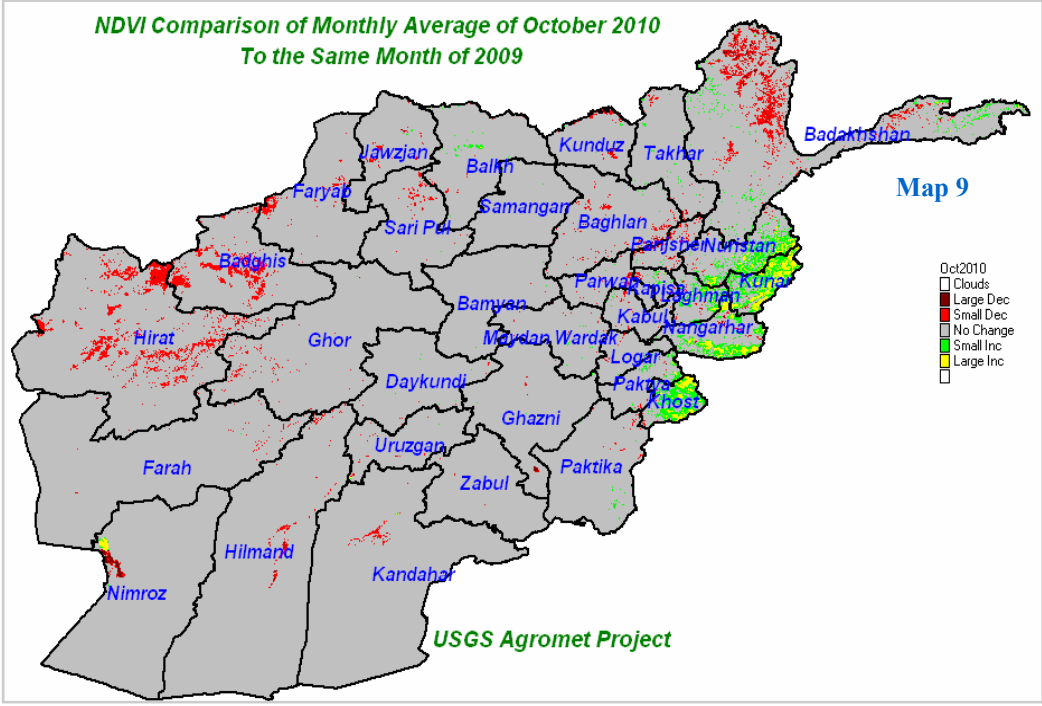
Temperature was lower during September 2010, but the country experienced slightly higher temperature during the month of October 2010 compared to the same month of last year. Comparison of monthly average of temperature for the month of October 2010 with the same month in 2009 (Chart 4) shows small increase of temperature during the month of October 2010 over the same month of last year around the country, and temperature had positive departure in most parts of the country, which temperature deference was 1 – 4 ° C.

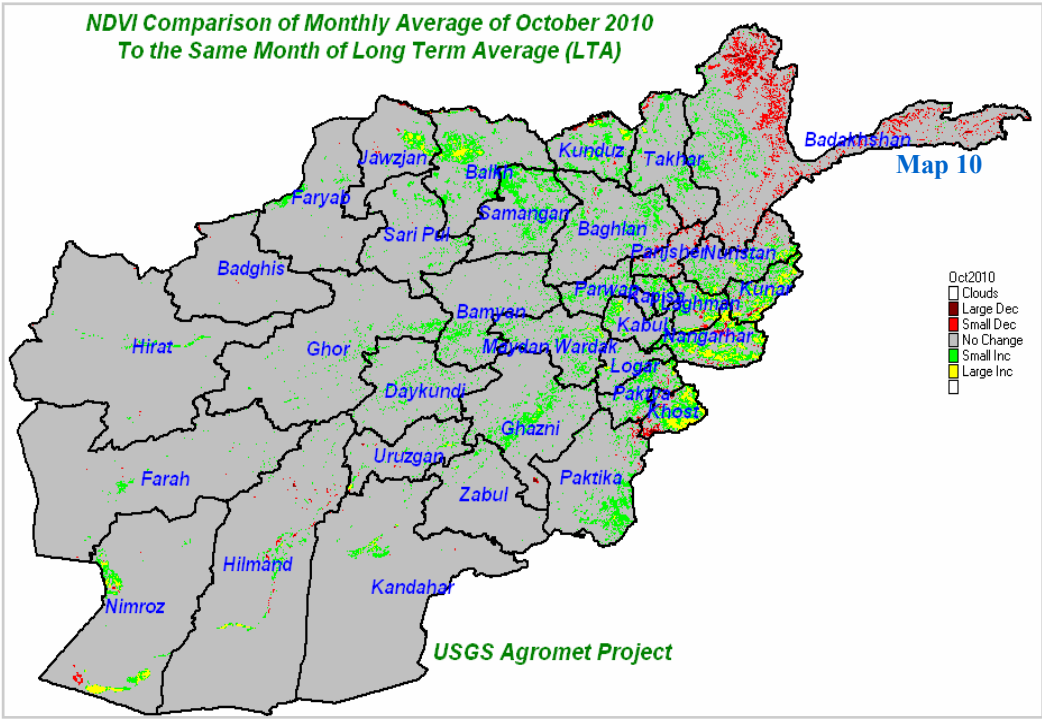
Data Source:AMA



Lashkargha with 37.6 ° C was the warmest sports of the Country during October 2010 .

Chart (5) shows maximum and minimum temperature for the month of Oct 2010. As chart (5) shows Lashkargha with 37.6 ° C was the warmest spots of the Country during Oct and Sarday with – 8.3 ° C experienced cold weather.

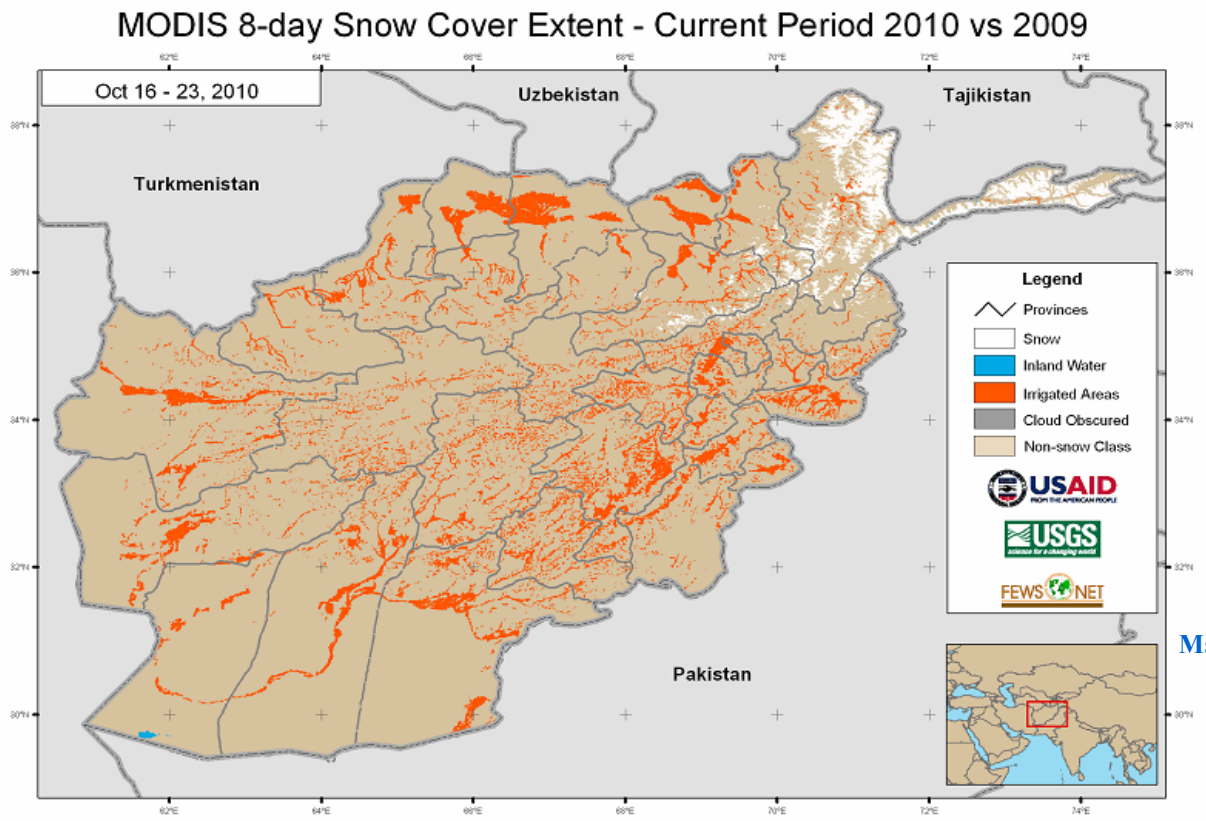




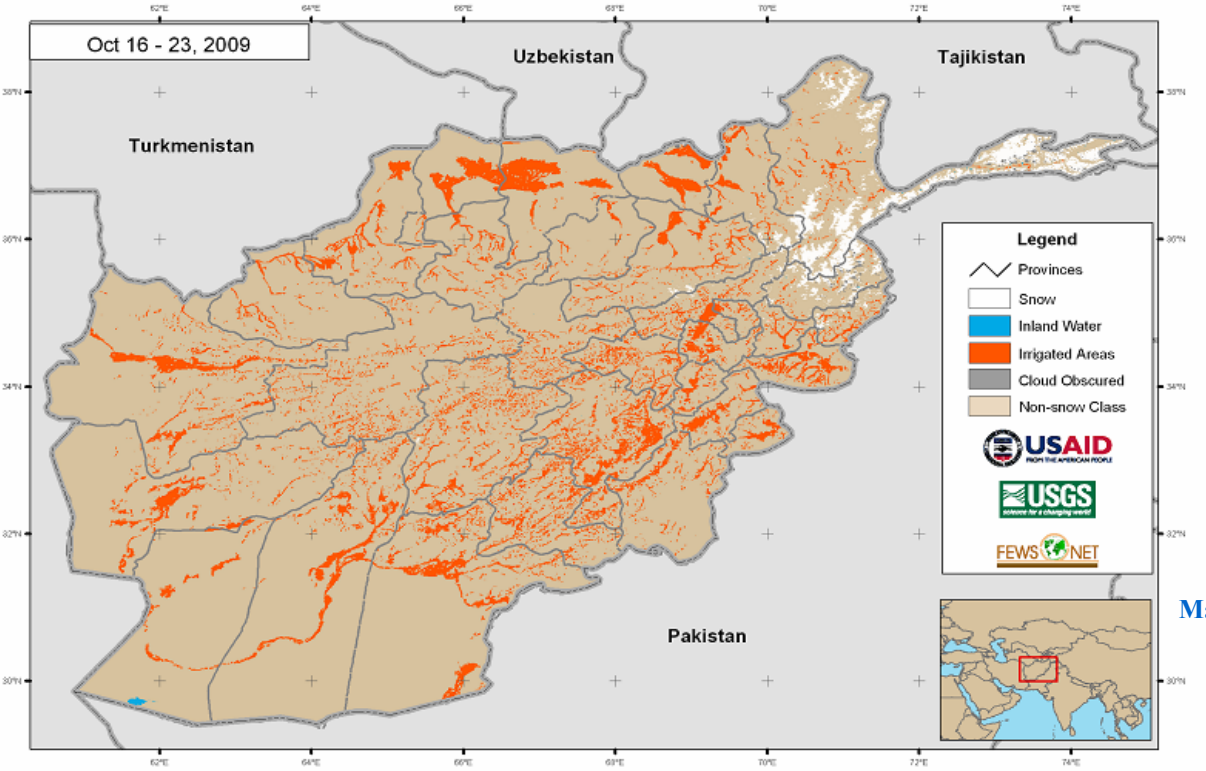
Comparison of monthly average of NDVI for the month of October 2010 with the same month in 2009 (Map 9) shows small increase of NDVI in limited areas in the Eastern region during the month of October 2010 over the same month of last year, small decrease has been occurred in NDVI in some parts in the Northeastern region and some parts in the Western region too.

There is no change of NDVI in the remaining regions of the country during the month of October 2010 compared to the same month of last year.

Comparison of monthly average of NDVI for the month of October 2010 with the same month of long term average (Map 10) shows small increase of NDVI in the Eastern region, some parts in the Southeastern, and some parts in the Capital regions during the month of October 2010 over the same month of long term average, small decrease occurred in NDVI in some parts of the Northeastern region too. There is no change has been occurred in NDVI in the remaining regions of the country during the month of October 2010 compared to the same month of long term average.



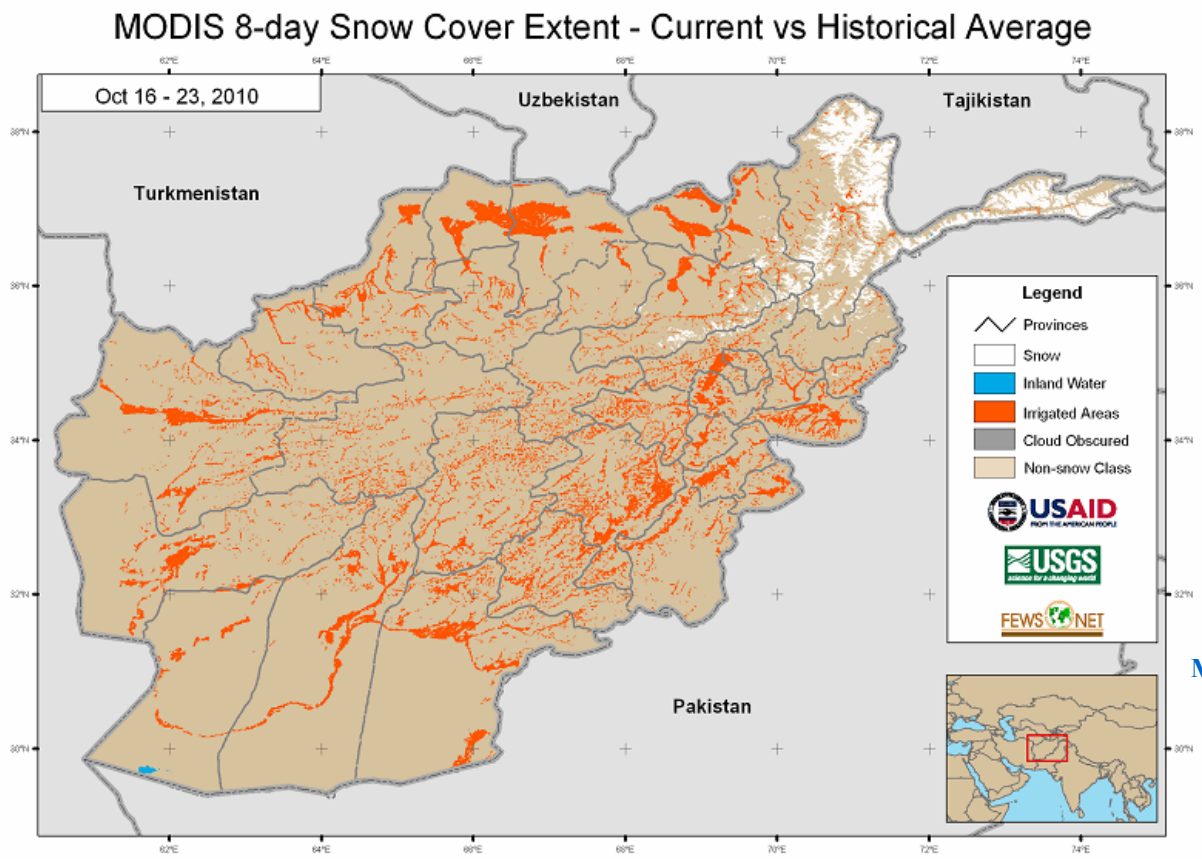
Map 11



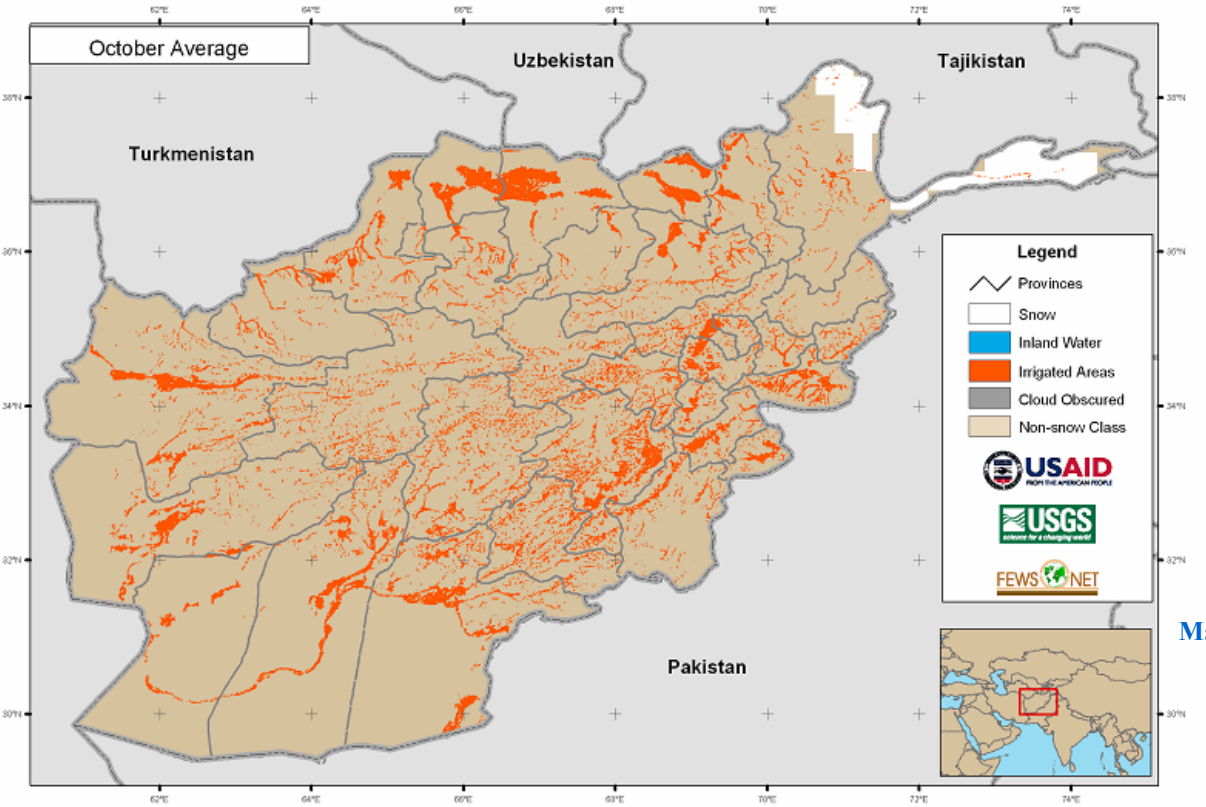
Map 12

Snow fall developed across in the highest elevations of the Northeastern region and the Central Highlands, but snow fall was light during October than expected. Comparison of snow extent for the period (16 – 23) October 2010 with the same period in 2009 (Map 11 - 12) shows small increase of snow extent in the Northeastern region during above mentioned period of October 2010 over the same period of last year.

Data Source:USGS



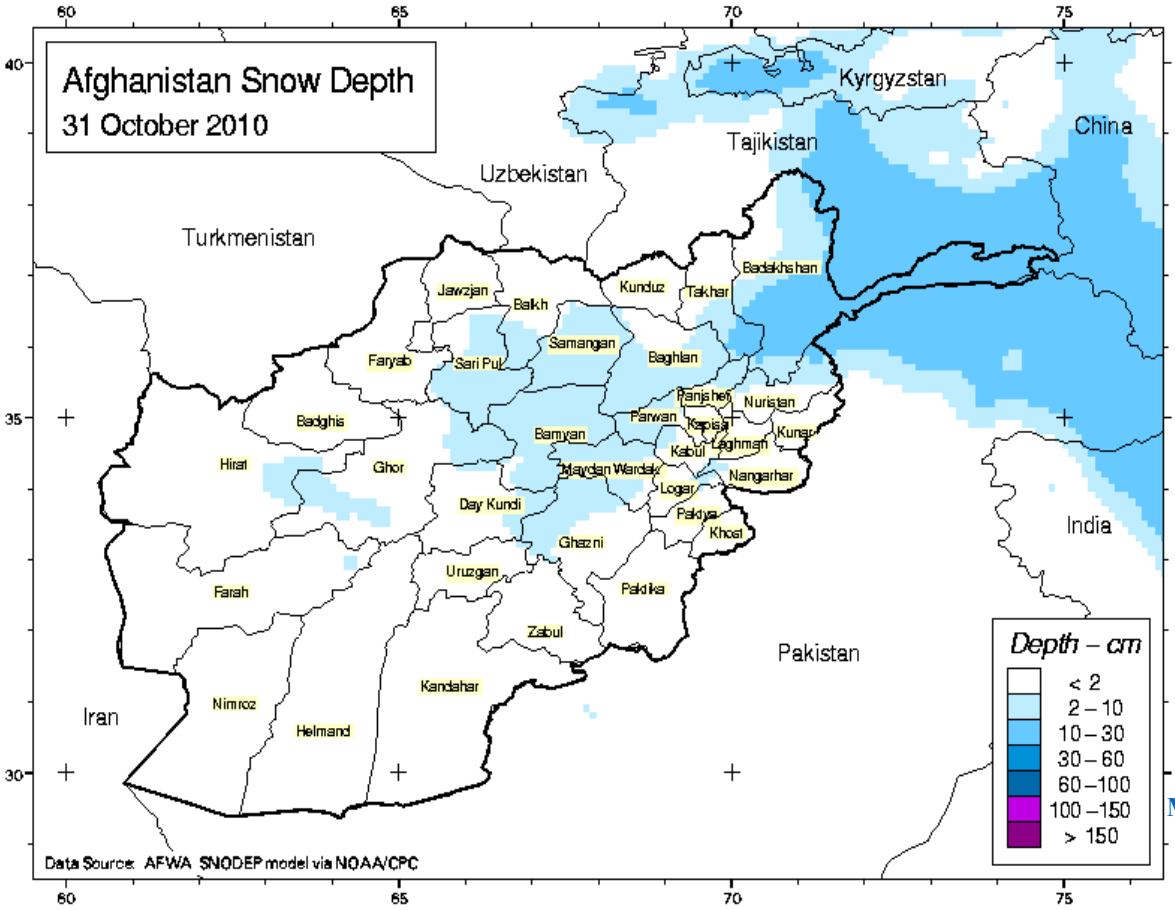
Map 13



Map 14

Comparison of snow extent for the month of October 2010 with the same month of long term average (map 13 - 14) shows small increase of Snow extent in limited areas of snow extent during the month of March 2010 over the same month of long term average in snow coverage area.

Data Source:USGS



Map 15

Map (15) shows snow depth at the end of October in the country. As Map (15) shows the snow depth has been recorded 10 to 30 cm in the Northeastern regions, and 2 – 10 cm in the Central Highlands and neighboring areas.

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