



Agrometeorological Project

The Afghanistan Agrometeorological AAM Monthly Bulletin

Issue No: 71
January: 2011

Topics Crop Information Precipitation Temperature NDVI

General Agroclimatic Situation of Afghanistan January 2011



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)

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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

However the month of January is one of the wet months of the winter season of the country, dryness continued from November 2010 to late January 2011 in most parts of the country. At the end of January 2011 precipitations was light and rainfall had a decrease during this month compared to the same month of last year and compare to the long term average.

During the month of January 2011, temperature

was lower than the same month of last year all over the country and temperature was accompanied with negative departure during this month.

During the months of November and December 2010 snow had critical situation, the country did not experienced heavy snow which resulted a decrease in snow depth and snow extent during January 2011 compared to the same month of last year and long term average.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Emergence	Normal	Not Existed
		Paghman	Paghman	Emergence	Normal	Not Existed
		Kabul	Darulaman	Emergence	Normal	Not Existed
		Surubi	Surubi	Emergence	Normal	Not Existed
	Panjsher	Dara	Dara	Emergence	Normal	Not Existed
		Dashtak	Dashtak	Emergence	Normal	Not Existed
	Parwan	Syagerd	Gor band	Vegetative	Normal	Not Existed
		Charikar	Charikar	Emergence	Normal	Poor Rainfall
	Kapisa	Mahmoodraqi	Mahmoodraqi	Emergence	Normal	Not Existed
		Kohistan	Kohistan	Dormancy		
	Wardak	Chake	Chake	Emergence	Normal	Not Existed
		Jaghato	Jaghato	Dormancy		
	Bamyan	Bamyan	Bamyan	Emergence	Normal	Poor Rainfall
		Yakawlang	Yakawlang	Emergence	Poor	Frost
		Panjab	Panjab	Dormancy		
		Shebar	Shebar			
Ghazni	Muqur	Muqur	Emergence	Normal	Not Existed	
	Andar	Bande Sardi	Dormancy			
East	Nangarhar	Agam	Agam	Vegetative	Normal	Not Existed
		Batikot	Ghaziabad	Vegetative	Normal	Not Existed
		Jalalabad	Farm jaded	Emergence	Normal	Not Existed
		Behsood	Behsood	Emergence	Normal	Poor Rainfall

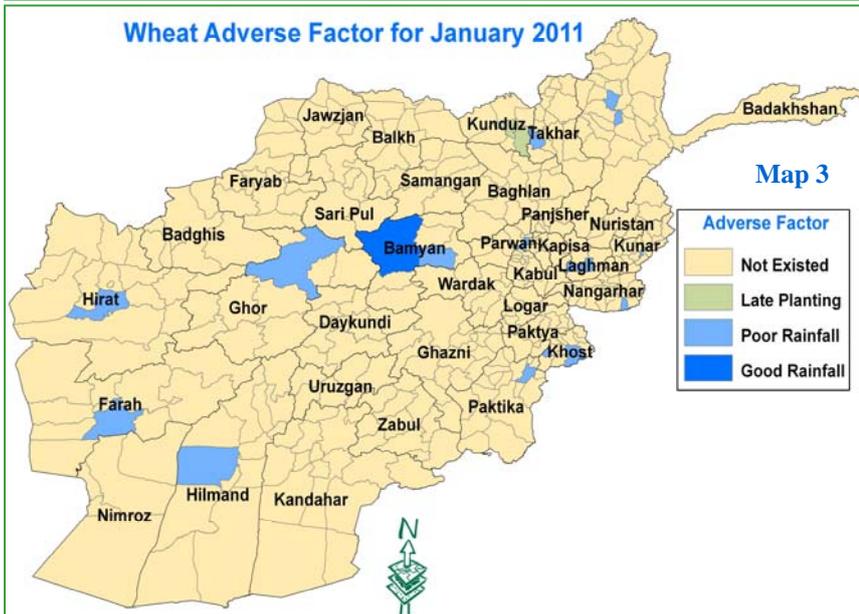
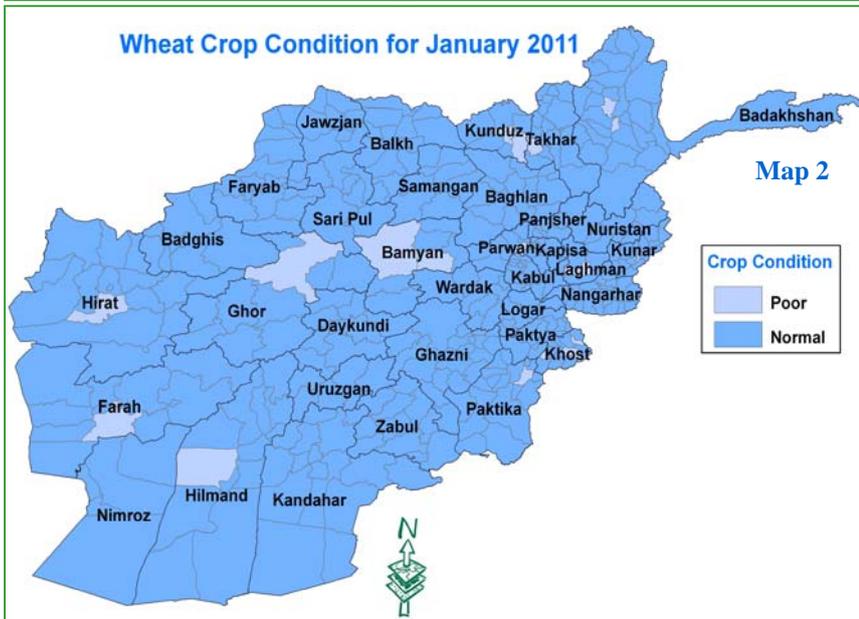
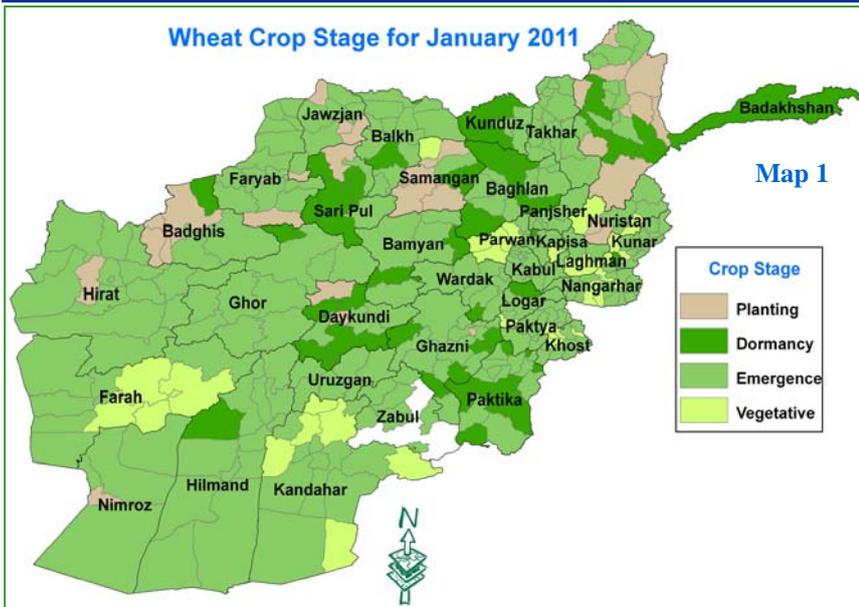
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Emergence	Normal	Not Existed
		Asad Abad	Asad Abad	Emergence	Normal	Poor Rainfall
	Laghman	Mihtarlam	Mihtarlam	Vegetative	Normal	Poor Rainfall
	Noristan	Paroon	Paroon	Planting		
		Do Ab	Do Ab			
		Norgaram	Norgaram	Vegetative	Normal	Not Existed
		Waigal	Waigal	Vegetative	Normal	Not Existed
North East	Takhar	Bangi	Bangi	Emergence	Normal	Poor Rainfall
		Taluqan	Taluqan	Emergence	Normal	Not Existed
	Kunduz	Imam Sahib	Imam Sahib	Dormancy		
		Qaliazal	Aqtipa			
		Khan Abad	Khan Abad	Emergence	Normal	Late Planting
		Kunduz	Kunduz	Emergence	Normal	Late Planting
		Ali Abad	Ali Abad	Dormancy		
	Baghlan	Pulikhomri	Pozaishan	Emergence	Normal	Not Existed
	Badakhshan	Argo	Argo	Dormancy		
		Baharak	Baharak	Planting		
		Ashkashm	Ashkashm			
		Khash	Kash	Emergence	Normal	Poor Rainfall
Faiz Abad		Faiz Abad	Emergence	Normal	Poor Rainfall	
South East	Khost	Khost	Khost	Emergence	Normal	Poor Rainfall
		Khost	Shimal	Emergence	Normal	Poor Rainfall
		Ali Sher	Ali Sher	Vegetative	Normal	Poor Rainfall
	Paktia	Zormat	Rohani Baba	Emergence	Normal	Not Existed
		Gardiz	Tera	Emergence	Normal	Not Existed
	Paktika	Urgon	Urgon	Emergence	Normal	Poor Rainfall
		Sharana	Sharana	Dormancy		
Khair kot		Khair kot				

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
South	Nimroz	Zaranj	Zaranj	Planting		
	Kandahar	Kandahar	Kandahar	Emergence	Normal	Not Existed
	Zabul	Qalat	Qalat	Emergence	Normal	Not Existed
	Urozgan	Tirin Kot	Tirin Kot	Emergence	Normal	Not Existed
	Hilmand	Nad Ali	Nad Ali	Emergence	Normal	Poor Rainfall
		Greshk	Greshk	Dormancy		
		Nawa	Nawa	Emergence	Normal	Not Existed
		Lashkargah	Bolan	Emergence	Normal	Not Existed
North	Balkh	Takhta pol	Dihdadi	Emergence	Normal	Not Existed
		Nahrishahi	Nahrishahi	Emergence	Normal	Not Existed
	Jawzjan	Sheberghan	Sheberghan	Emergence	Normal	Not Existed
		Darzab	Darzab	Planting		
	Saripul	Saripul	Saripul	Planting		
		Sozmaqala	Sozmaqala	Dormancy		
	Faryab	Maimana	Maimana	Planting		
		Andkhoy	Andkhoy	Emergence	Normal	Not Existed
	Samangan	Aibak	Aibak	Emergence	Normal	Not Existed
		Dara Souf	Dara Souf	Planting		
Sar bagh		Sarbagh				
North West	Badghis	Qalainow	Qalainow	Planting		
		Muqur	Muqur			
	Ghor	Chaghcharan	Chaghcharan	Emergence	Poor	Poor Rainfall
	Hirat	Shindand	Shindand	Emergence	Normal	Not Existed
		Zindajan	Zindajan	Planting		
		Gwazara	Falahat	Emergence	Poor	Poor Rainfall
		Hirat	Farm Urdokhan	Emergence	Normal	Not Existed
	Farah	Farah	Farah	Vegetative	Poor	Poor Rainfall

Wheat Crop Stage, Condition and Adverse Factor Maps



Data Source: Agromet Network

Precipitation

However the month of January is one of the wet months of the winter season of the country, dryness continued from November 2010 to late January 2011 in most parts of the country. At the end of January 2011 precipitations was light and rainfall had a decrease during this month compared to the same month of last year and compare to the long term average.

Comparison of rainfall data for the month of January 2011 with the same month in 2010 (Chart1) shows variable situation of rainfall during the month of January 2011 as rainfall had an increase in some stations but, a decrease in rainfall was observed in other stations of the country.

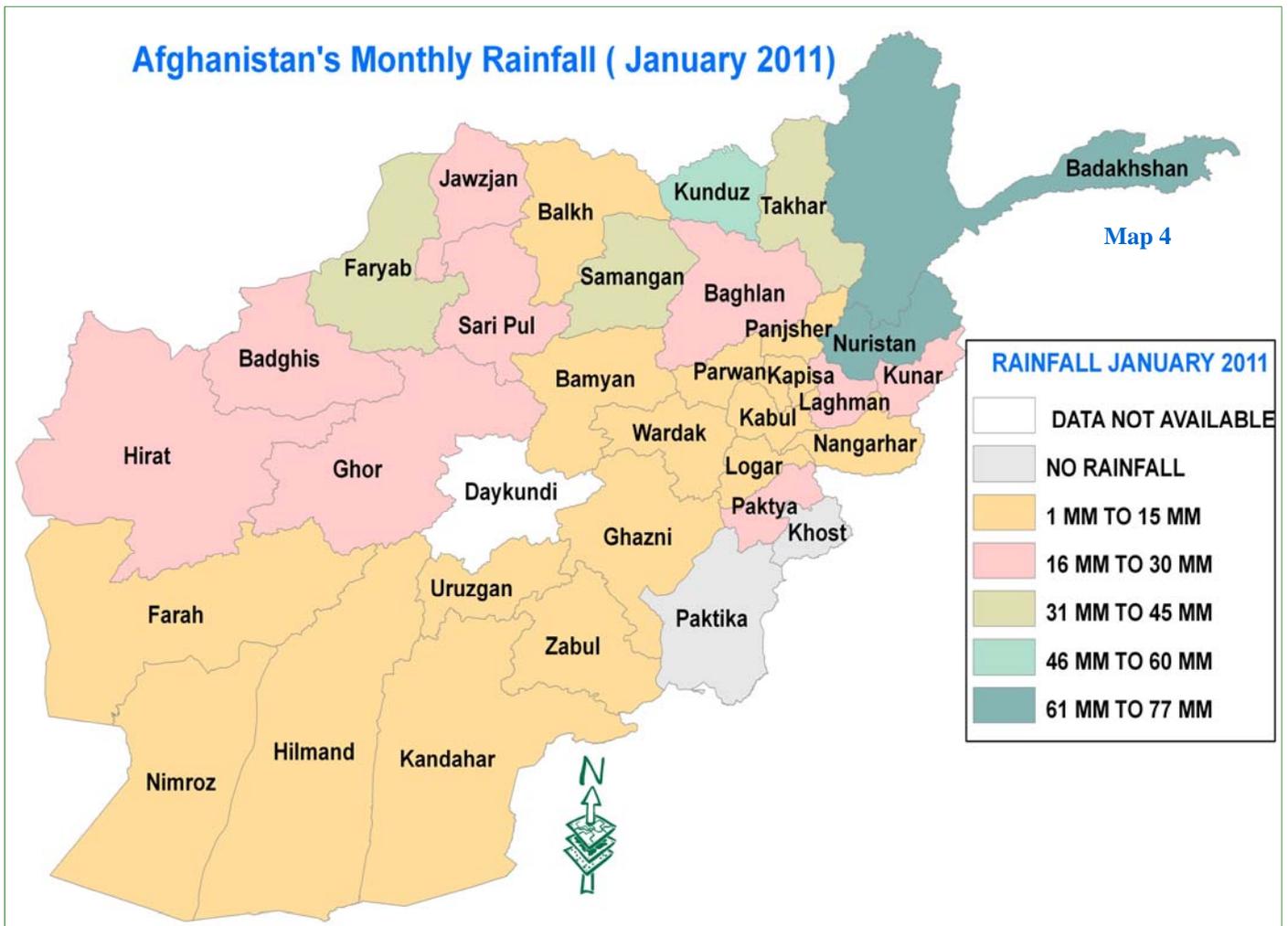
In general rainfall had a decrease during the month of January 2011 over the same month of last year.

Comparison of rainfall data for the month of January 2011 with the same month of long term average (Chart 2) shows, a decrease in rainfall during the month of January 2011 over the same month of long term average.

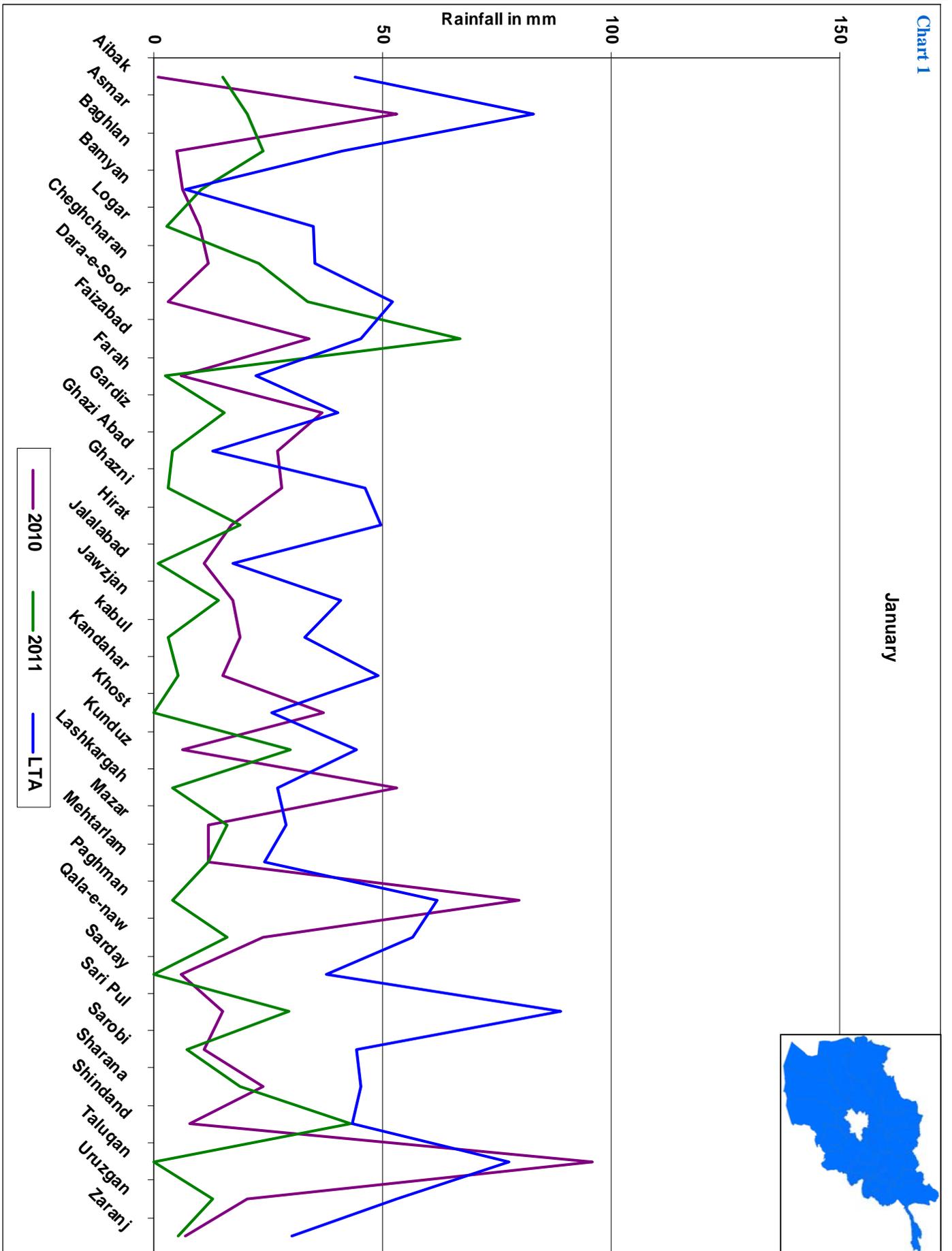
As usual during the month of January 2011, distribution of rainfall was variable in different provinces.

As Map (4) shows the most amount of rainfall was occurred in the Northeastern, and in the Northern regions.

The Western region had received moderate rainfall during this month, the rest of the country experienced low amount of rainfall during the month of January 2011.



Rainfall Graphs for the Month of January 2011



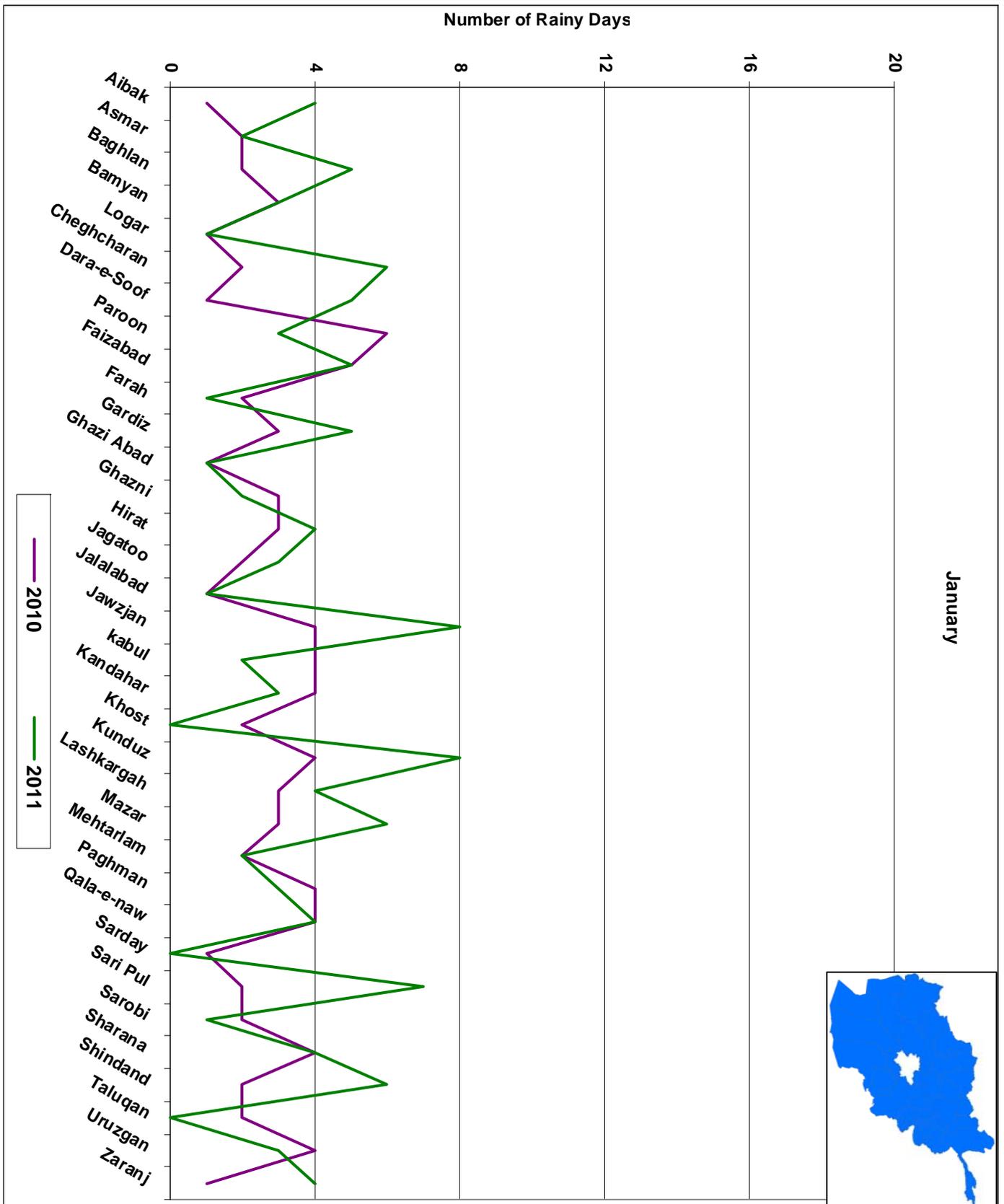
Rainfall for the Month of January 2011

Table 1

Station	January		
	Rainfall in (mm)		
	2010	2011	LTA
Aibak	1	15	44.1
Asmar	53	20.5	82.9
Baghlan	5	23.8	41.3
Bamyan	6.2	10.5	6.9
Logar	10	2.8	34.8
Cheghcharan	12	23.1	35.1
Dara-e-Soof	3	33.5	52.3
Paroon	99	77	Data Not Available
Faizabad	34	67	45.4
Farah	6	2.5	22.2
Gardiz	36.7	15.5	40.4
Ghazi Abad	27	4	12.9
Ghazni	28	3.2	46.1
Hirat	17	19	49.6
Jagatoo	16	5	Data Not Available
Jalalabad	11	1	17.3
Jawzjan	17.2	14.3	40.8
kabul	18.9	3.2	33.1
Kandahar	15	5.5	49.1
Khost	37	0	25.7
Kunduz	6.2	29.9	44.2
Lashkargah	53	4	27
Mazar	12	16	28.9
Mehtarlam	12	12	24.3
Paghman	80	4	62.1
Qala-e-naw	24	16	56.6
Sarday	6	0	37.8
Sari Pul	15	29.5	89
Sarobi	11	7.3	44.4
Sharana	24	19	45.3
Shindand	8	43	43.4
Taluqan	96	0	77.8
Uruzgan	20.5	13	53.3
Zaranj	7	5.5	30.3

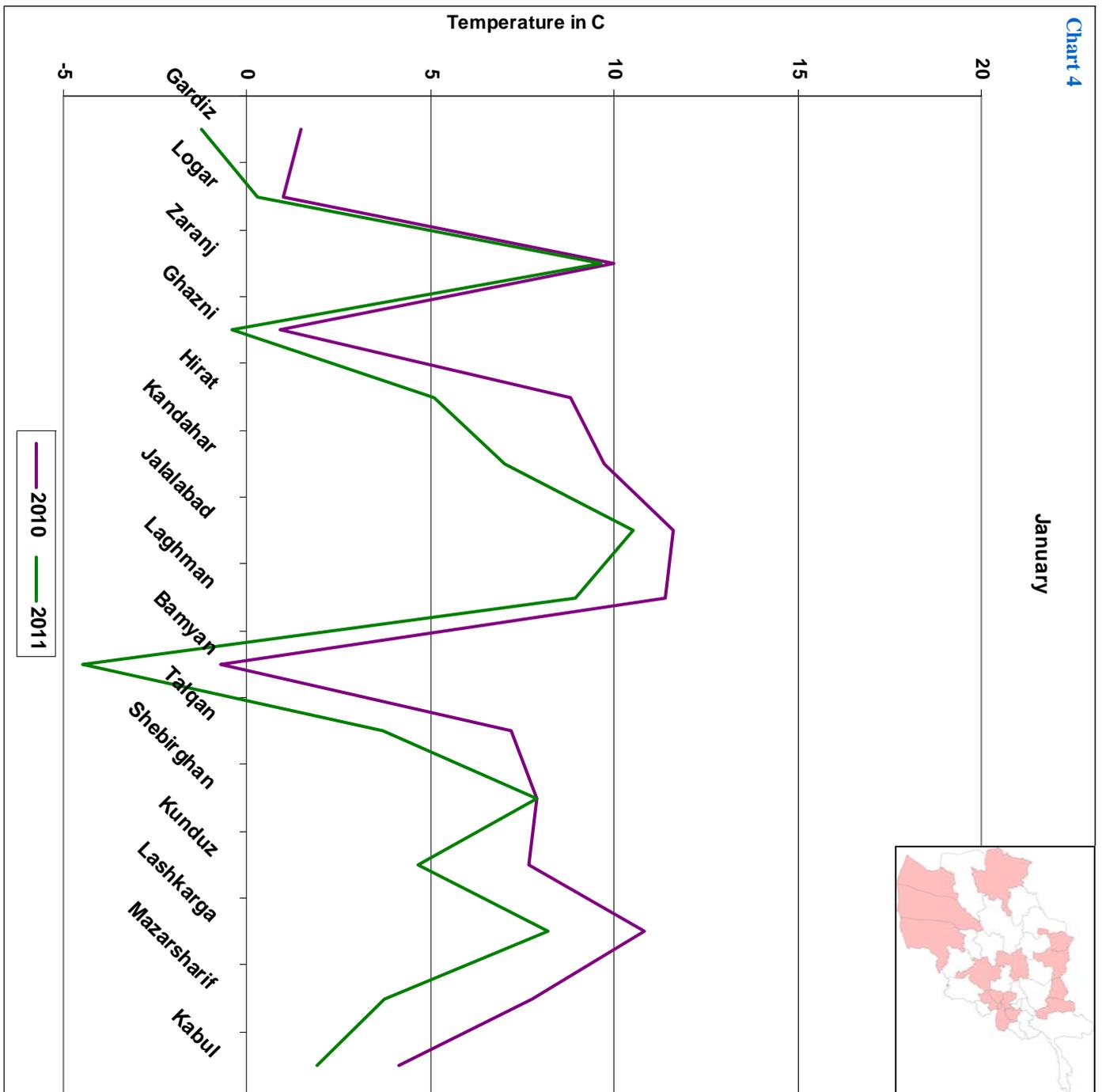
Data Source: Agromet Network

Rainy Days for the Month of January 2011



Based on the recoded data, comparison of the Rainy days for the month of January 2011 with the same month of last year, there is an increase in rainy days during the month of January 2011 over the same month of last year.

Average Temperature for the Month of January 2011



Temperature for the month of January 2011 was lower than the same month of last year .

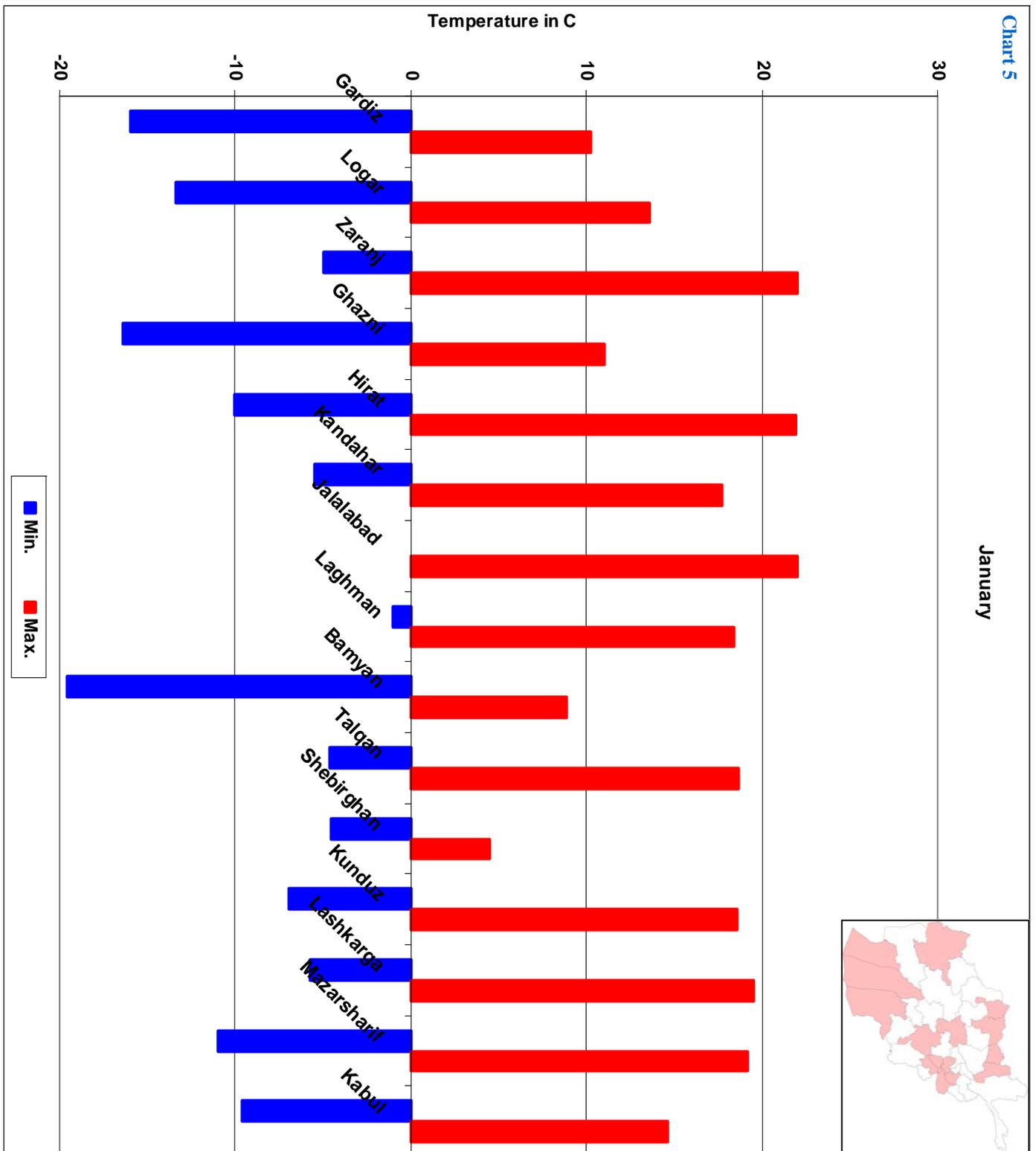
During the month of January 2011, temperature was lower than the same month of last year all over the country and temperature was accompanied with negative departure during this month.

The Northeastern, Capital and Central Highlands regions experienced extreme cold weather while in the lowland areas in the southern and Southwestern

regions, the temperature was accompanied with positive values.

Comparison of monthly average of temperature for the month of January 2011 with the same month in 2010 (Chart 4) shows a decrease in temperature during the month of January 2011 over the same month of last year.

Temperature for the Month of January 2011

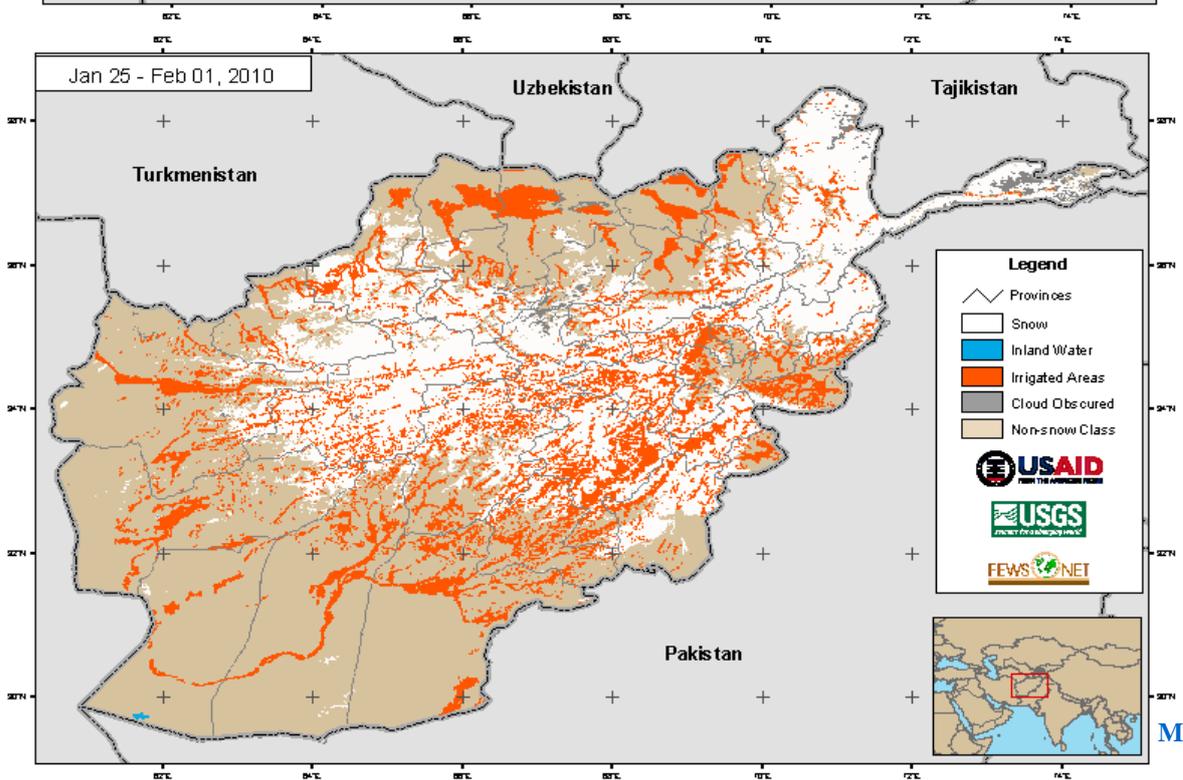
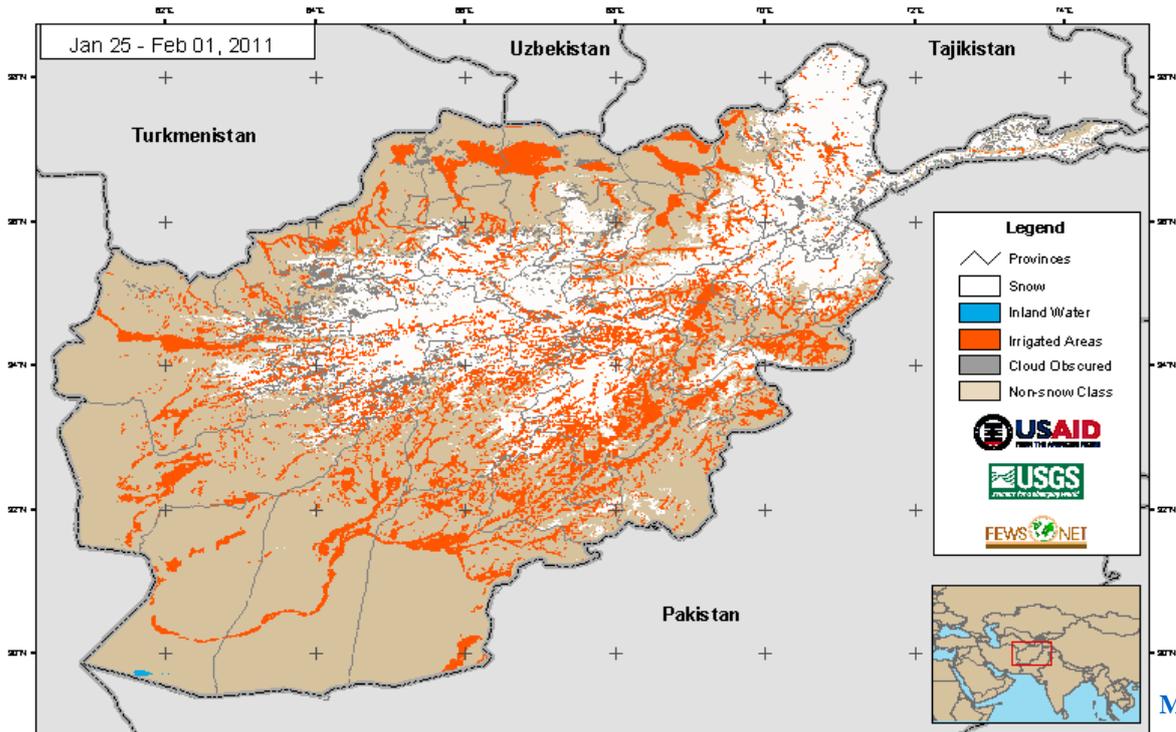


Jalalabad and Zarnj with 22 ° C was the warmest spot of the Country during the month of January 2011 .

Chart (5) shows maximum and minimum the coldest spot of the country during January, temperature for the month of January 2011. As Jalalabad and Zaranj with 22 °C experienced the warmest weather.

Comparison of Snow Extent

MODIS 8-day Snow Cover Extent - Current Period 2011 vs 2010



During the months of November and December 2010 snow had critical situation, however dryness continued till January 2011 and this light snow was unexpected in the month of January 2011.

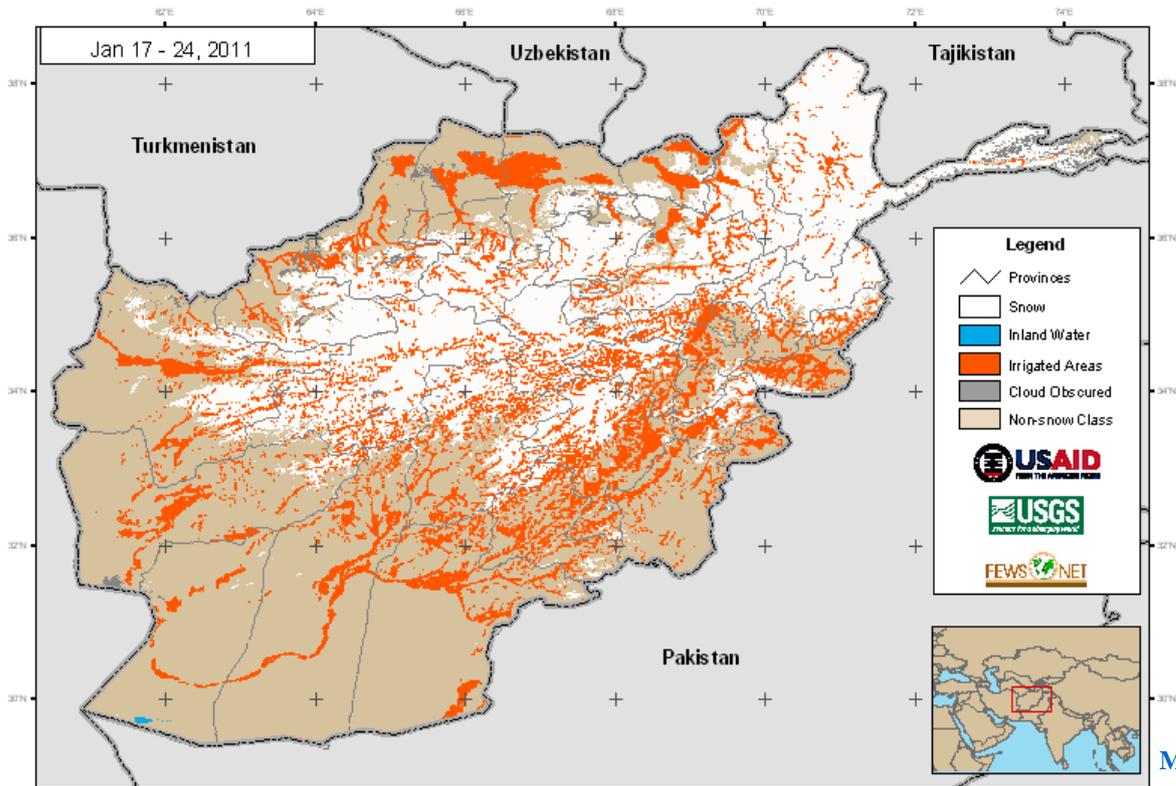
Since the country did not experienced heavy snow which resulted a decrease in snow depth and snow extent during

January 2011 compared to the same month of last year and long term average.

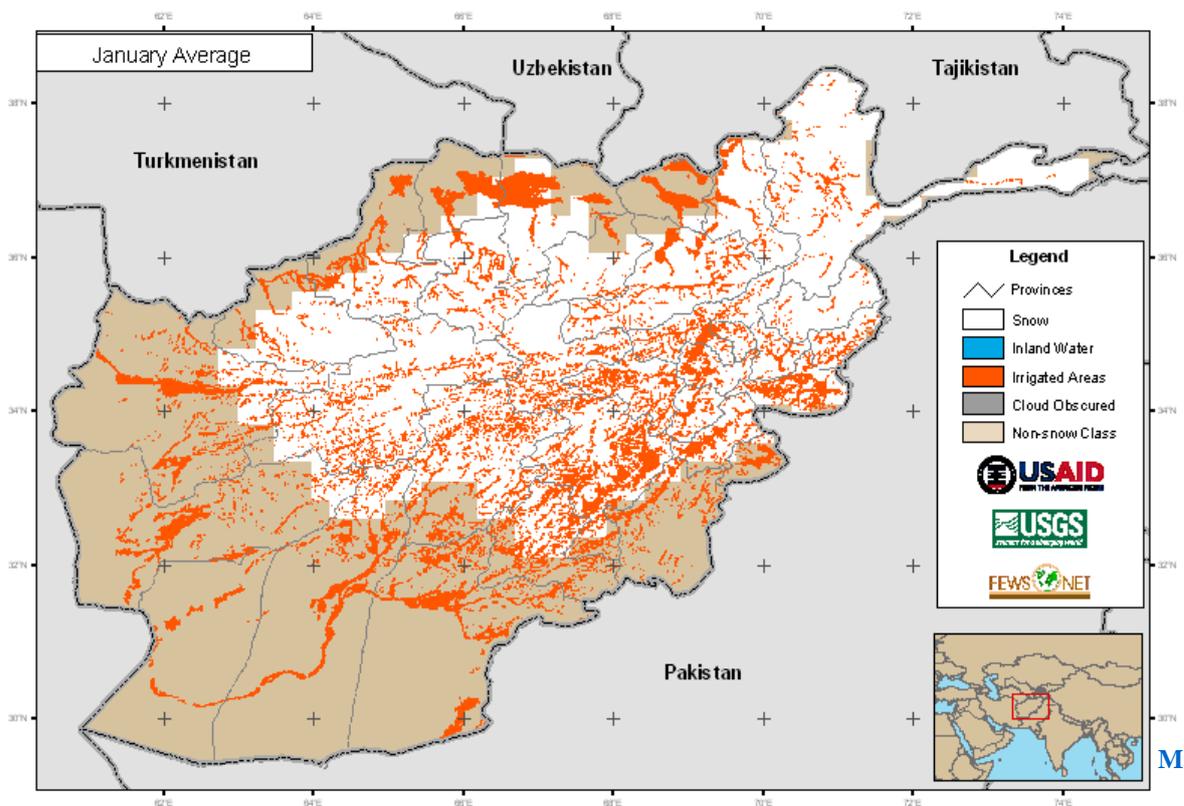
Comparison of snow extent for the period Jan 25 – Feb 1 2011 with the same period in 2010 (map 5 - 6) shows a decrease of snow extent during above mentioned period of time in January 2011 over the same period of Jan last year.

Comparison of Snow Extent

MODIS 8-day Snow Cover Extent - Current vs Historical Average



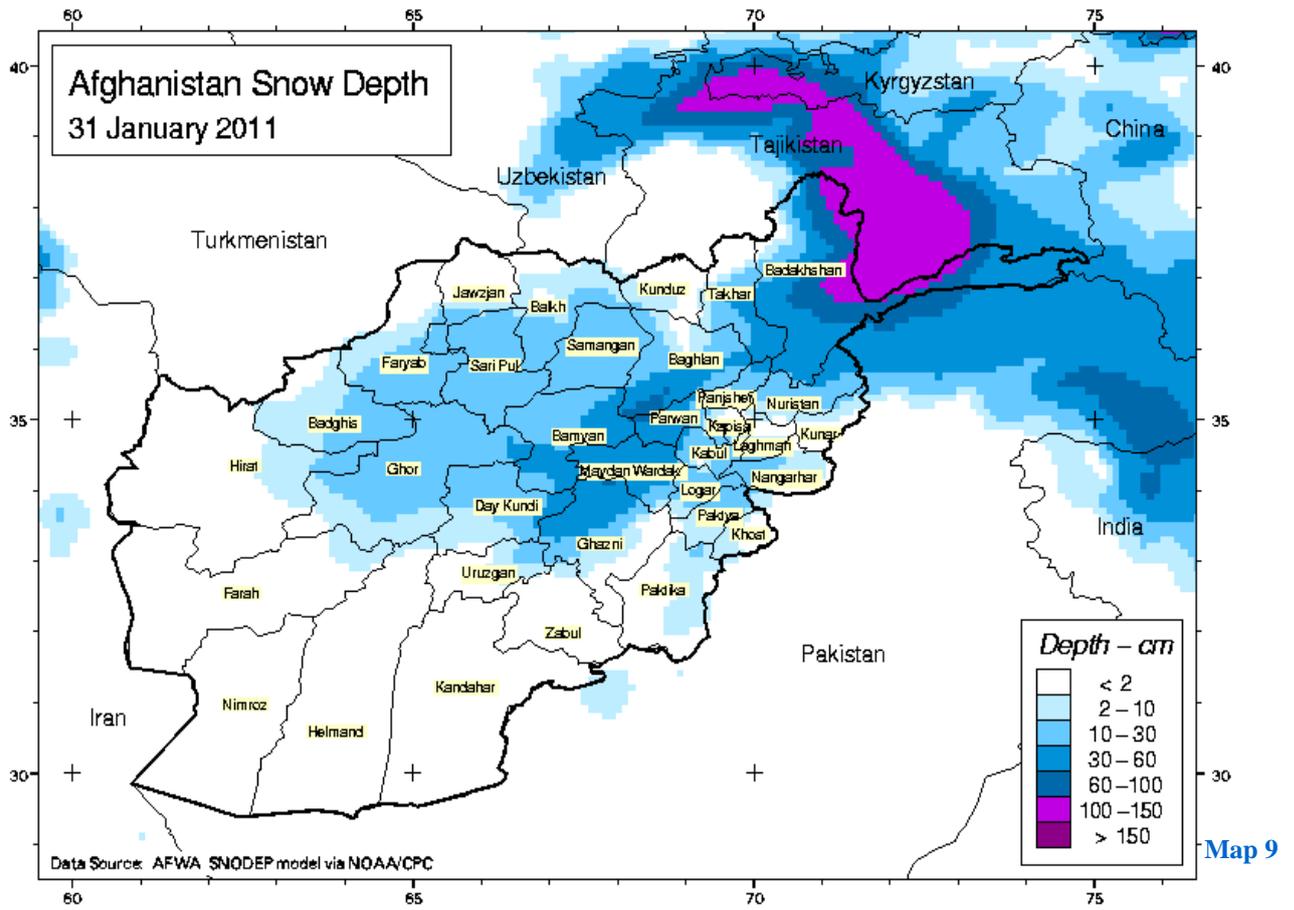
Map 7



Map 8

Comparison of snow extent for the month of January 2011 with the same month of long term average (map 7 - 8) shows a decrease of snow extent during the month of January 2011 over the same month of long term average.

Afghanistan Snow Depth for month of January 2011



Map (9) shows snow depth at the end of January 2011. As map (9) shows the snow depth has been recorded 100 to 150 cm for the extreme portion of the

Northeastern region and 60 to 100 cm for the Capital, Central Highlands and neighboring areas.

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