



Agrometeorological Project

The Afghanistan Agrometeorological AAM Monthly Bulletin

Issue No: 72

February: 2011

Topics Crop Information Precipitation Temperature NDVI

General Agroclimatic Situation of Afghanistan February 2011



1 Snowfall

2 Crop Condition

3 Crop Stage



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

During the month of February 2011 low pressure systems passed over Afghanistan which pushed adequate moisture inside the country and caused heavy snow and rain in different parts of the country. The last precipitation could reduce short term dryness which has been occurred during the last months all over the country which resulted very good precipitations during this month.

Rainfall had an increase during February 2011 than the same month of last year and than the long term average.

During the months of November 2010, December 2010 and January 2011 snow had critical situation, however dryness continued up to late of January, but snow fall unusual was light in January than expected.

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	Weeds
	Panjsher	Dara	Dara	Emergence	Normal	Not Existed
		Dashtak	Dashtak	Vegetative	Normal	Not Existed
	Parwan	Syagerd	Gor band	Vegetative	Normal	Not Existed
		Charikar	Charikar	Emergence	Normal	Shortage of Inputs
	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	Not Existed
		Yakawlang	Yakawlang	Emergence	Normal	Not Existed
		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	Not Existed

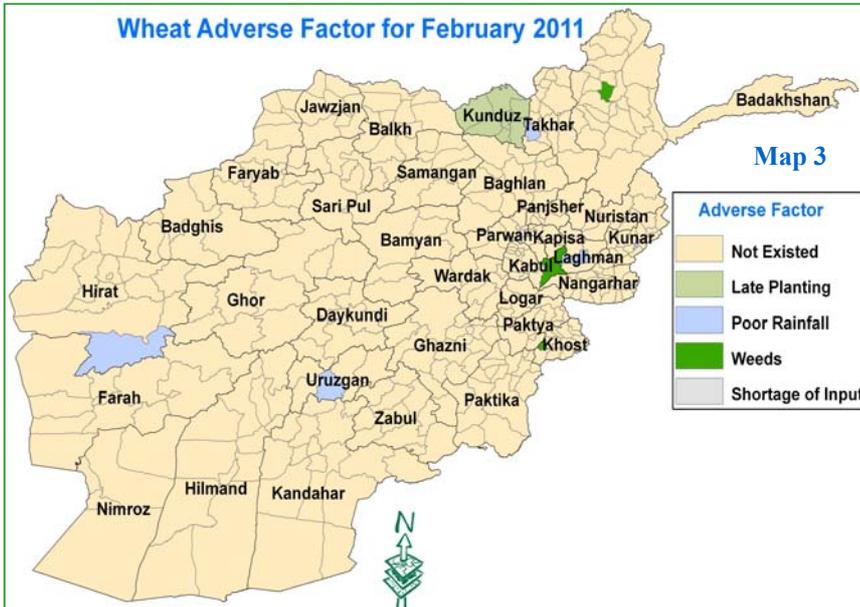
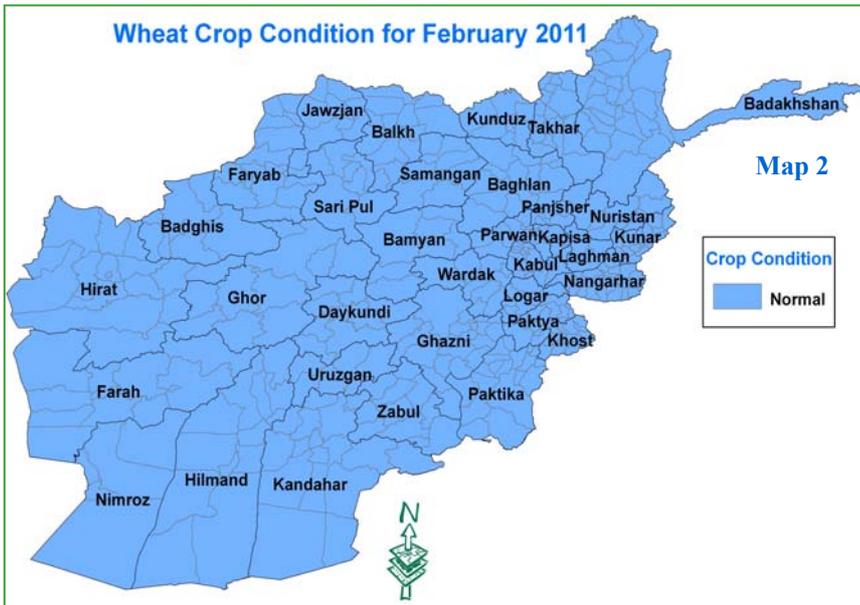
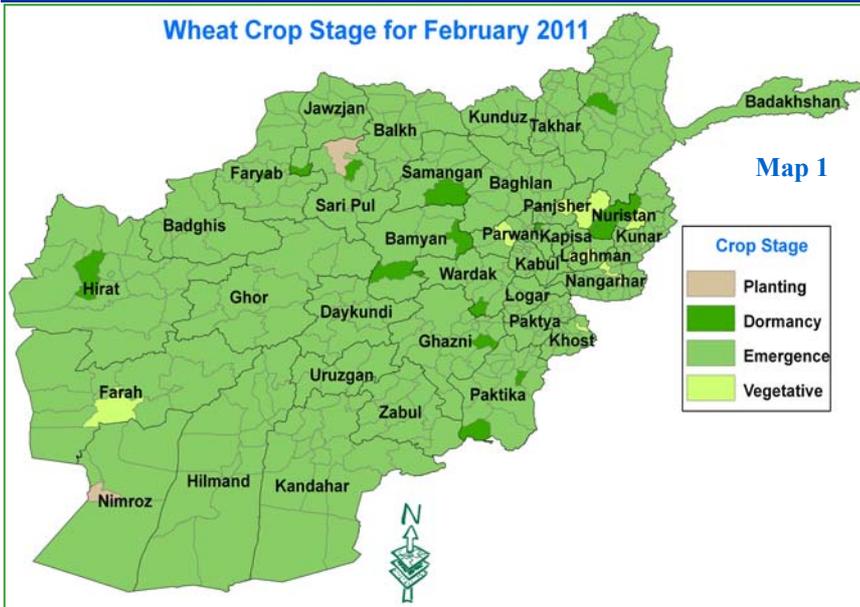
Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
East	Kunar	Asmar	Asmar	Emergence	Normal	Not Existed
		Asad Abad	Asad Abad	Vegetative	Normal	Poor Rainfall
	Laghman	Mihtarlam	Mihtarlam	Vegetative	Normal	Poor Rainfall
	Noristan	Paroon	Paroon	Dormancy		
		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	Emergence	Normal	Late Planting
		Qaliazal	Aqtipa	Emergence	Normal	Late Planting
		Khan Abad	Khan Abad	Emergence	Normal	Late Planting
		Kunduz	Kunduz	Emergence	Normal	Late Planting
		Ali Abad	Ali Abad	Emergence	Normal	Late Planting
	Baghlan	Pulikhomri	Pozaishan	Emergence	Normal	Not Existed
	Badakhshan	Argo	Argo	Dormancy		
		Baharak	Baharak	Emergence	Normal	Not Existed
		Ashkashm	Ashkashm	Emergence	Normal	Not Existed
		Khash	Khash	Emergence	Normal	Not Existed
		Faiz Abad	Faiz Abad	Emergence	Normal	Weeds
South East	Khost	Khost	Khost	Emergence	Normal	Not Existed
		Khost	Shimal	Emergence	Normal	Weeds
		Ali Sher	Ali Sher	Vegetative	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	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	Poor Rainfall
	Hilmand	Nad Ali	Nad Ali	Emergence	Normal	Not Existed
		Greshk	Greshk	Emergence	Normal	Not Existed
		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	Dormancy		
	Saripul	Saripul	Saripul	Planting		
		Sozmaqala	Sozmaqala	Dormancy		
	Faryab	Maimana	Maimana	Dormancy		
		Andkhoy	Andkhoy	Emergence	Normal	Not Existed
	Samangan	Aibak	Aibak	Emergence	Normal	Not Existed
		Dara Souf	Dara Souf	Emergence	Normal	Not Existed
Sar bagh		Sarbagh	Dormancy			
North West	Badghis	Qalainow	Qalainow	Emergence	Normal	Not Existed
		Muqur	Muqur	Emergence	Normal	Not Existed
	Ghor	Chaghcharan	Chaghcharan	Emergence	Normal	Not Existed
	Hirat	Shindand	Shindand	Emergence	Normal	Poor Rainfall
		Zindajan	Zindajan	Dormancy		
		Gwazara	Falahat	Emergence	Normal	Not Existed
		Hirat	Farm Urdokhan	Emergence	Normal	Not Existed
	Farah	Farah	Farah	Vegetative	Normal	Not Existed

Wheat Crop Stage, Condition and Adverse Factor Maps



Data Source: Agromet Network

Precipitation

During the month of February 2011 low pressure systems passed over Afghanistan which pushed adequate moisture inside the country and caused heavy snow and rain in different parts of the country. And The last precipitation could reduce short term dryness which has been occurred during the last months all over the country which resulted very good precipitations during this month.

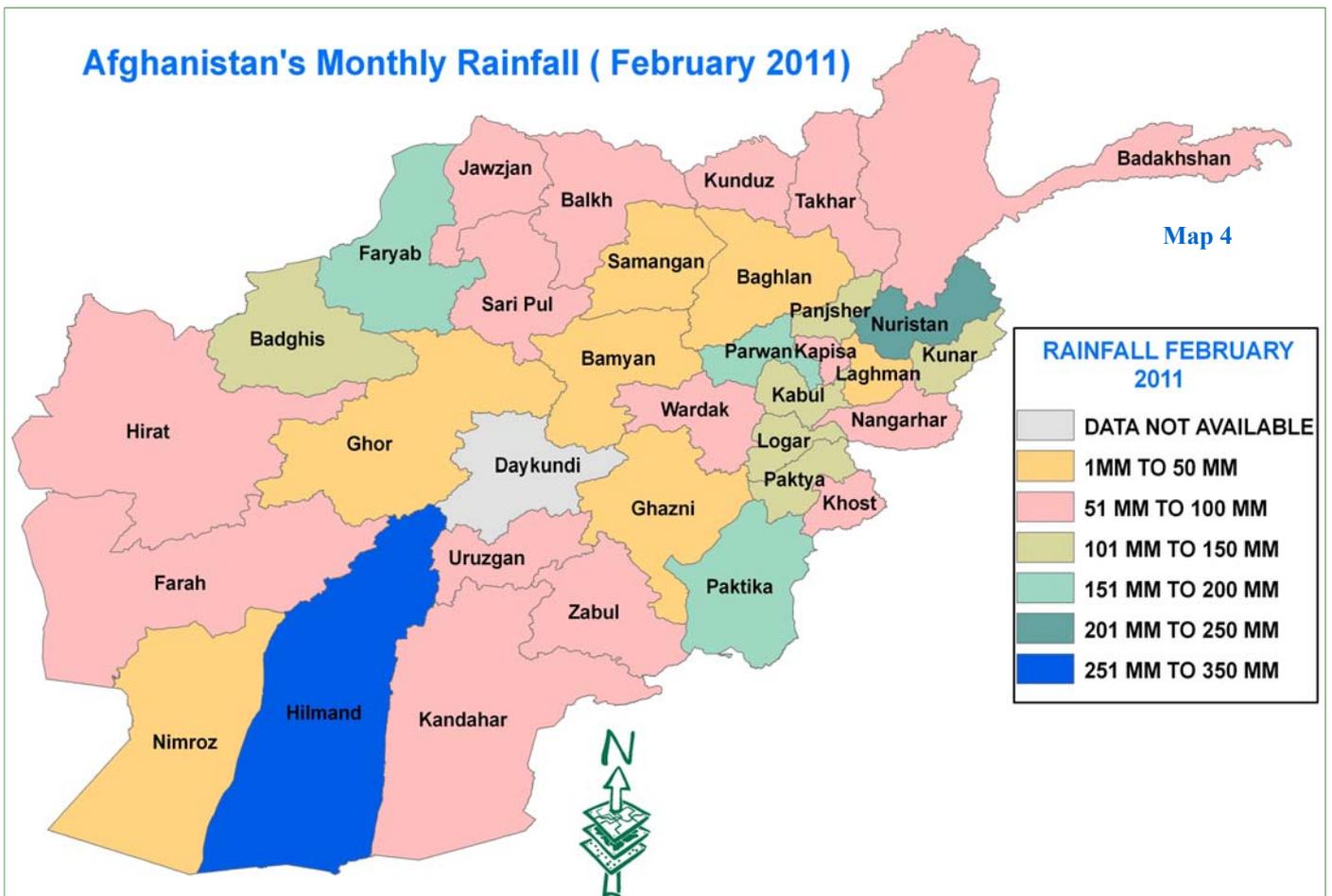
Rainfall had an increase during February 2011 than the same month of last year and than the long term average.

Comparison of rainfall data for the month of February 2011 with the same month in 2010 (Chart1) shows an increase of rainfall during the month of February 2011 over the same month of last year, however rainfall statistically had different situation and was accompanied

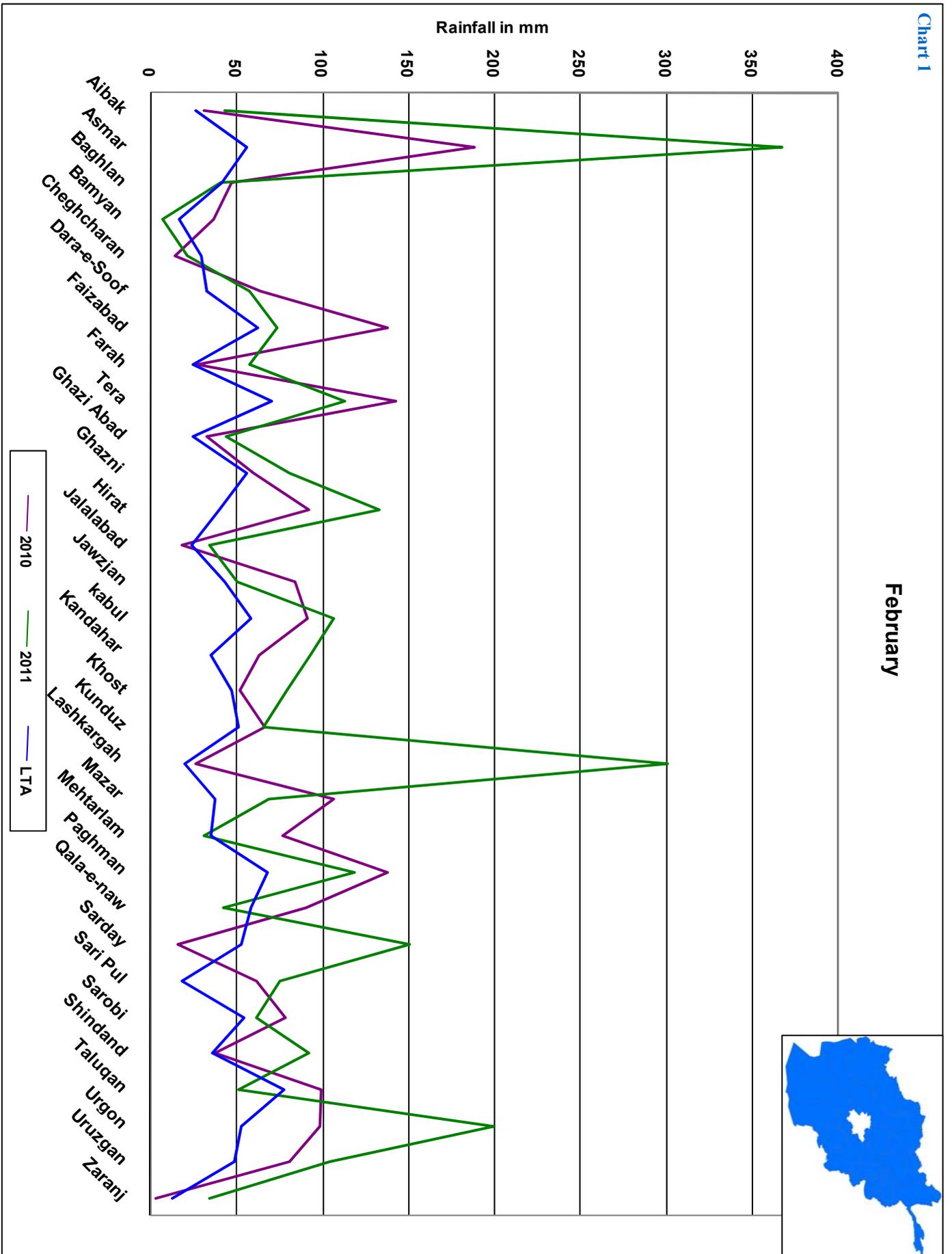
with decrease of precipitation in some stations, but in general the precipitation had an increase.

Comparison of rainfall data for the month of February 2011 with the same month of long term average (Chart1) shows an increase of rainfall during the month of February 2011 over the same month of long term average.

Distribution of rainfall as usual was variable in different provinces, as (Map 4) shows most amount of rainfall occurred in the Southern region, and the Northeastern, Northern, Western some parts in the capital experienced moderate rainfall, and the Central Highlands and neighboring areas received low amount of rainfall than other parts.



Rainfall Graphs for the Month of February 2011

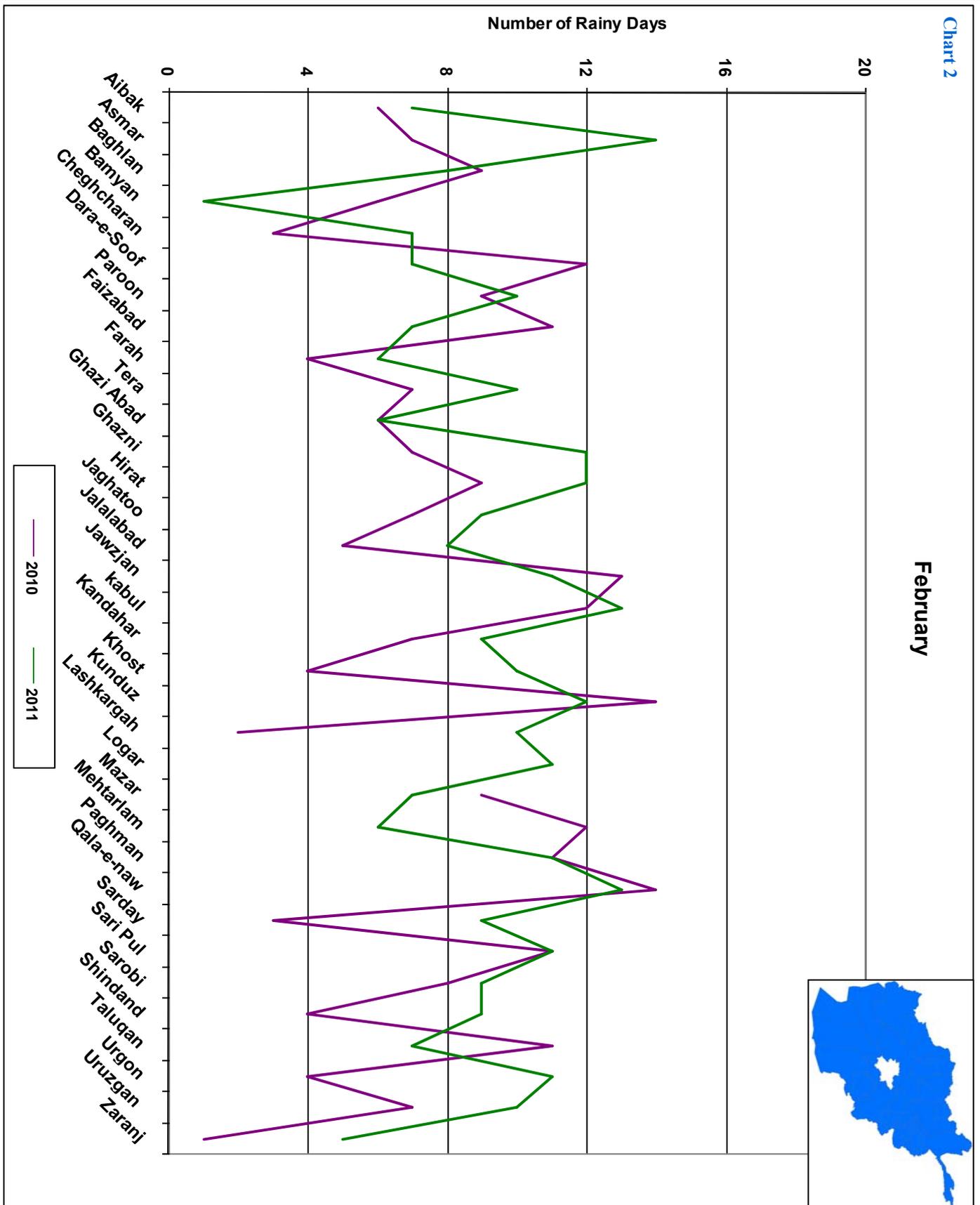


Rainfall for the Month of February 2011

Table 1

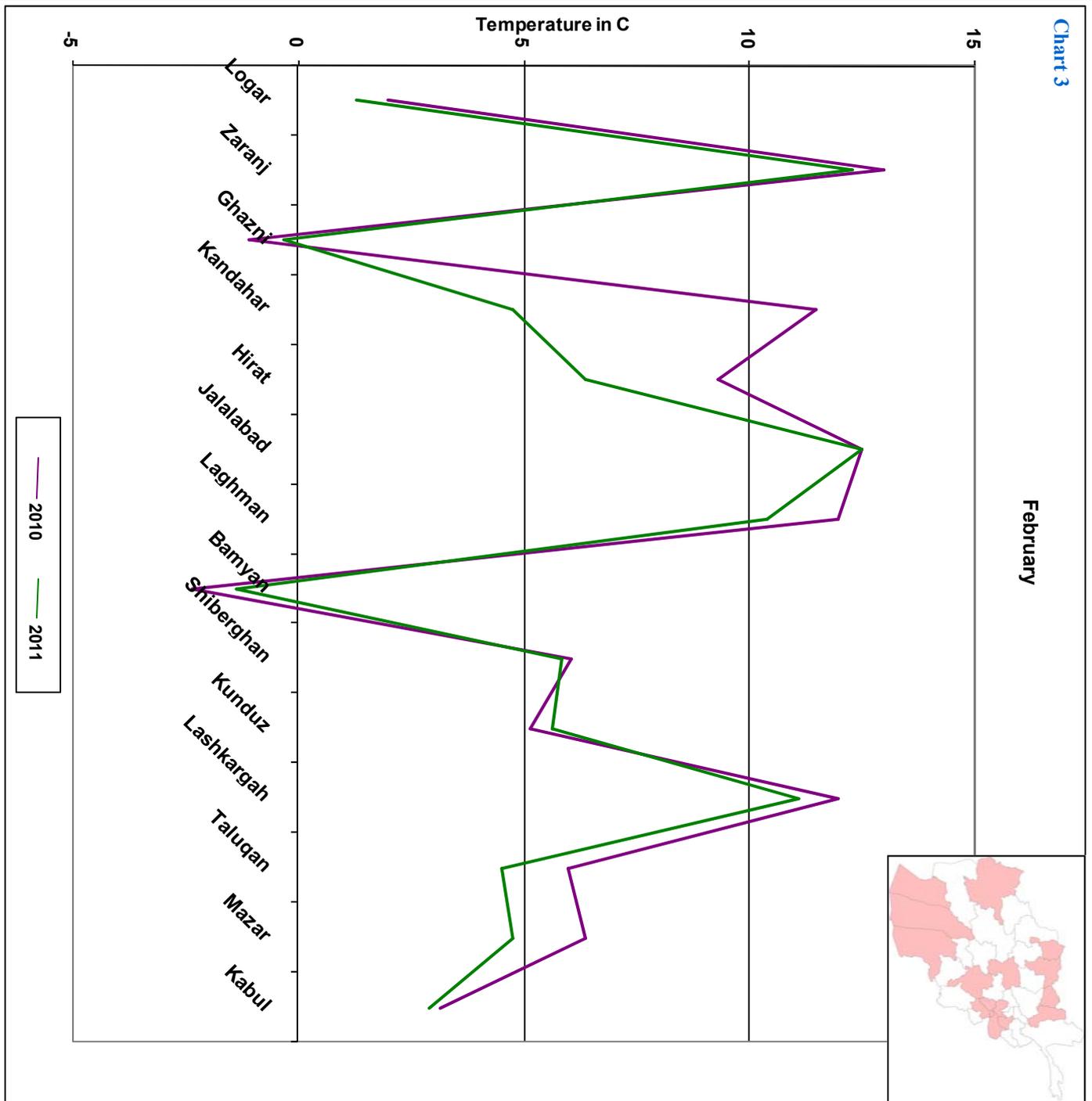
Station	February		
	Rainfall in (mm)		
	2010	2011	LTA
Aibak	31	43	26.2
Asmar	189	368	56
Baghlan	47.4	41	41.8
Bamyan	37	7	16.7
Cheghcharan	14.5	21.3	29.4
Dara-e-Soof	64	57.5	32.6
Paroon	199	214	Data Not Available
Faizabad	138	74	63
Farah	27.5	58	24.8
Tera	143	113	70.8
Ghazi Abad	33	44	25.1
Ghazni	60.1	81.3	56
Hirat	92	133	39.9
Jaghatoo	40	91	Data Not Available
Jalalabad	18	34	24.3
Jawzjan	84.7	50.7	43.7
kabul	91.2	106.6	58.6
Kandahar	63	93	35.1
Khost	52	79	47.5
Kunduz	66.9	65.8	51.5
Lashkargah	26	301.1	20.2
Logar	Data Not Available	116.7	34.9
Mazar	107	69	37.9
Mehtarlam	77	31	35.5
Paghman	138	119	68.5
Qala-e-naw	90.4	42	58.7
Sarday	16	151	52.9
Sari Pul	62	75.5	18.3
Sarobi	78.5	61.5	54.9
Shindand	38	92	35.9
Taluqan	99.5	51	78.1
Urgon	99	200	53.3
Uruzgan	81	104.4	48.8
Zaranj	3	34.5	12.7

Rainy Days for the Month of February 2011



Comparison of rainy days for the month of February 2011 with the same month in 2010 (Chart 2) shows an increase of rainy days during the month of February 2011 over the same month of last year.

Average Temperature for the Month of February 2011



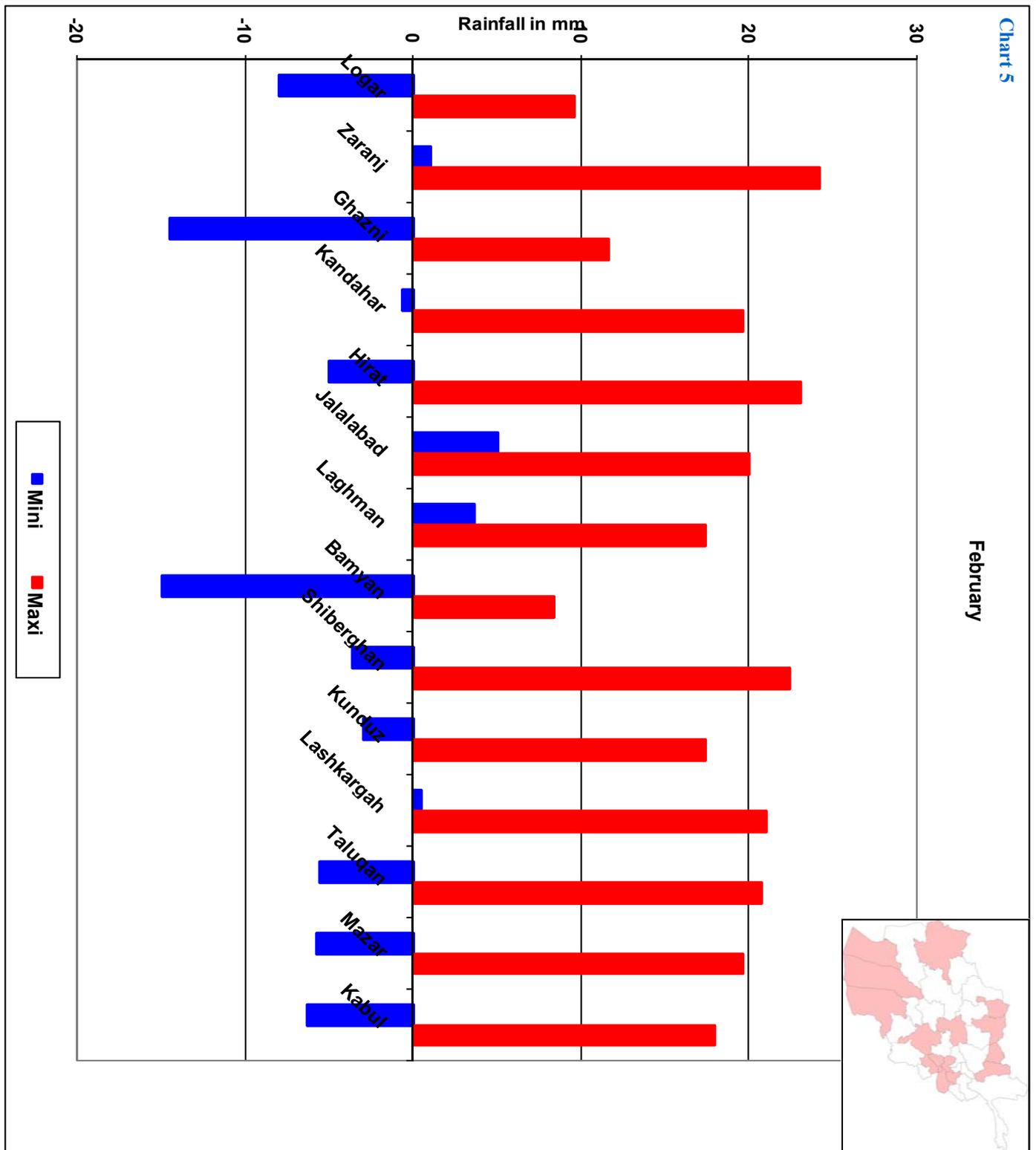
Temperature for the month of February 2011 was lower than the same month of last year .

Recorded temperature data shows, the temperature was lower during the month of February 2011 than the same month of last, all over the country.

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

temperature accompanied with positive values. Comparison of monthly average of temperature for the month of February 2011 with the same month in 2010 (Chart3) shows a decrease of temperature during the month of February 2011 over the same month of last year around the country.

Temperature for the Month of February 2011

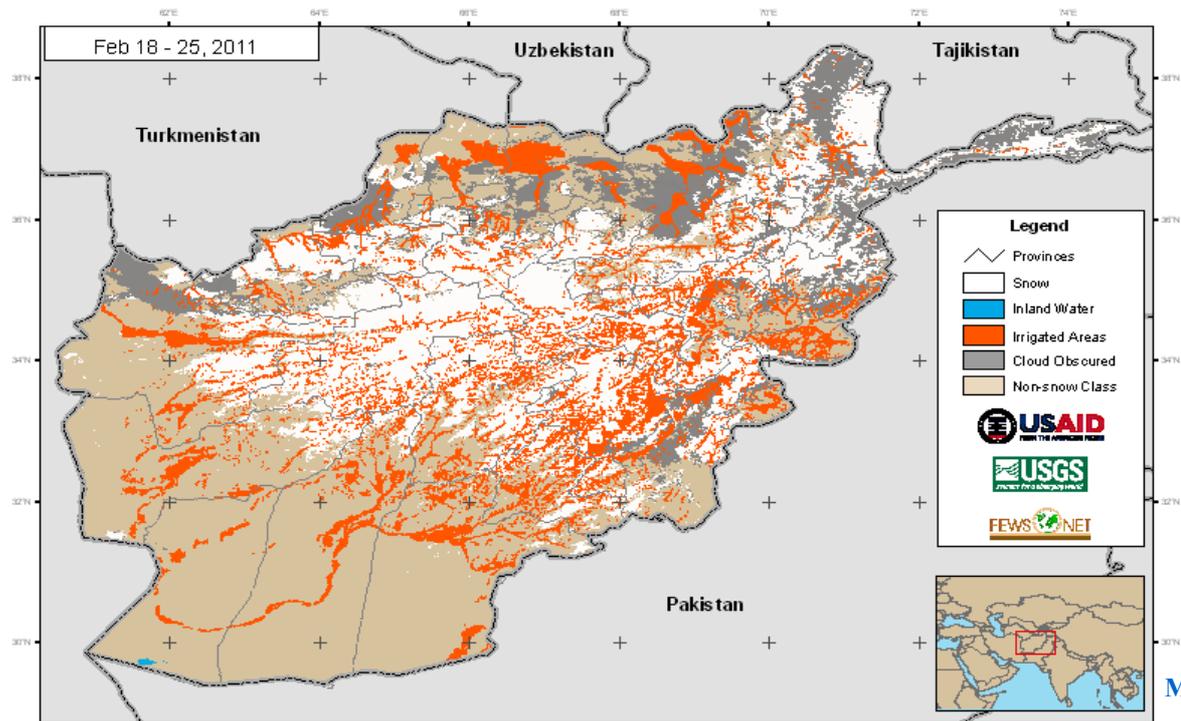


Zaranj with 24.2 ° C was the warmest spot of the Country during the month of February 2011 .

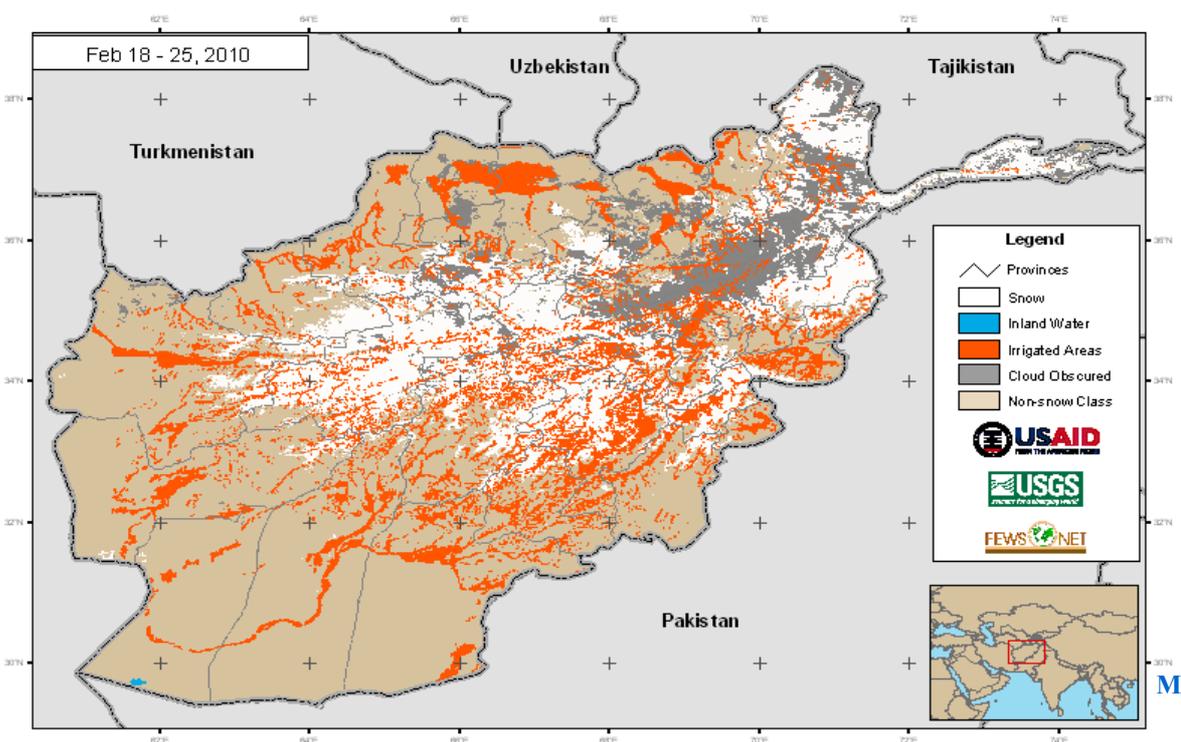
Chart (5) shows maximum and minimum coldest spot of the country during February 2011 temperature for the month of February 2011, as and Zaranj with 24.2 ° C experienced the warmest chart (5) shows Bamyan with – 15 ° C was the weather.

Comparison of Snow Extent

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



Map 5



Map 6

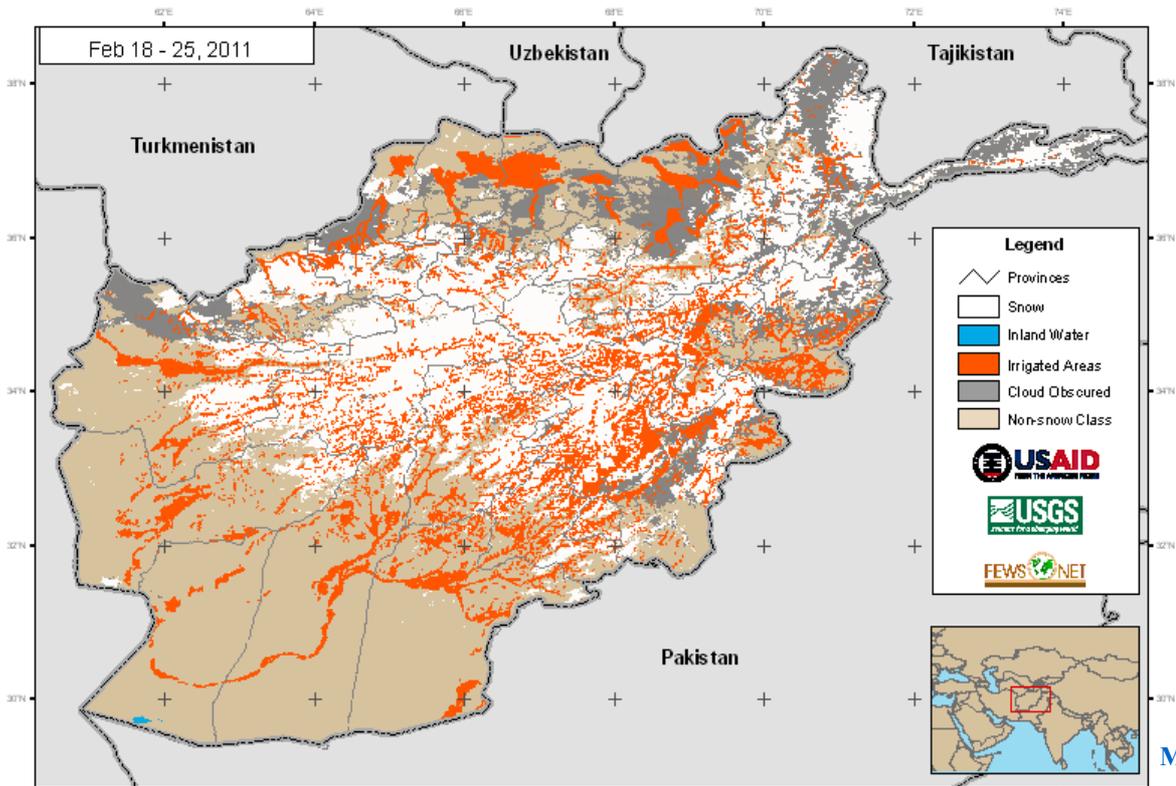
During the months of November 2010, December 2010 and January 2011 snow had critical situation, however dryness continued up to late of January, but snow fall unusual was light in January than expected, and during February low pressure systems with adequate moisture passed the country which resulted heavy snow in different parts that

developed snow extent and depth in snow coverage areas.

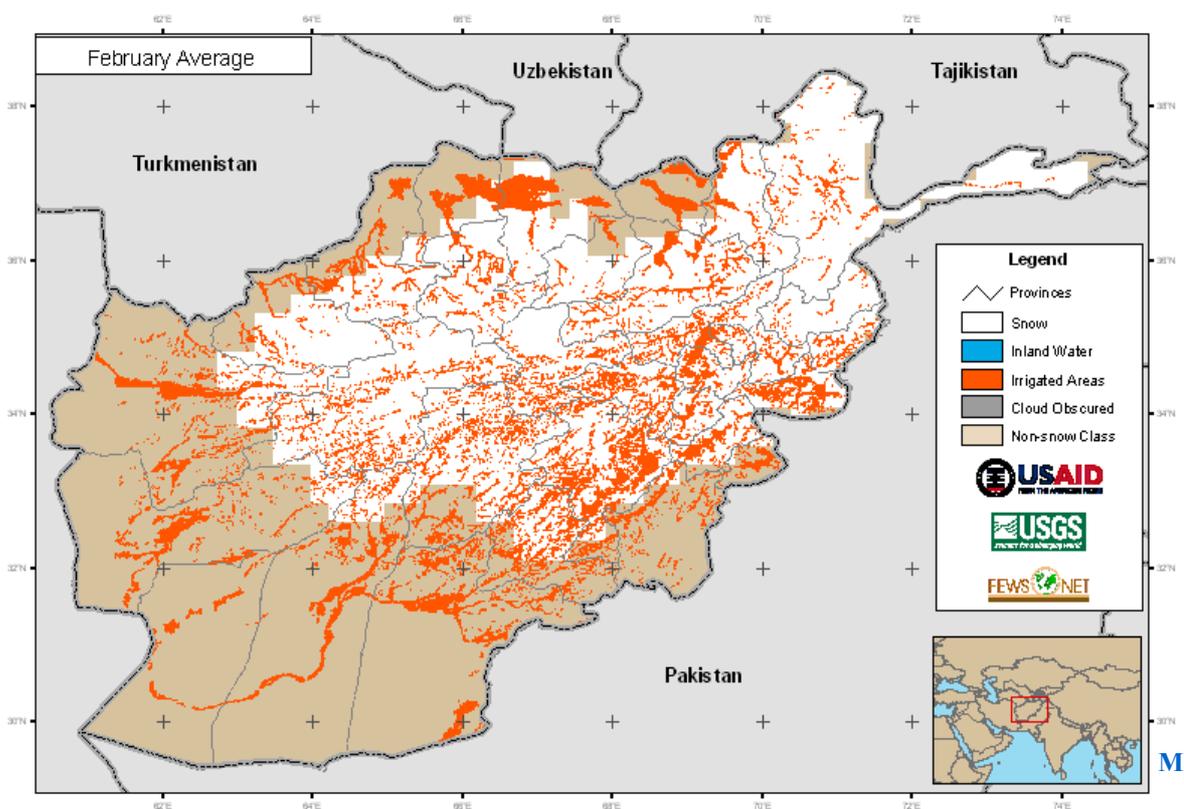
Comparison of snow extent for the period of February (18 – 25) 2011 with the same period in 2010 (Map 5– 6) shows and increase of snow extent during above mentioned period of February 2011 over the same period of last year.

Comparison of Snow Extent

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



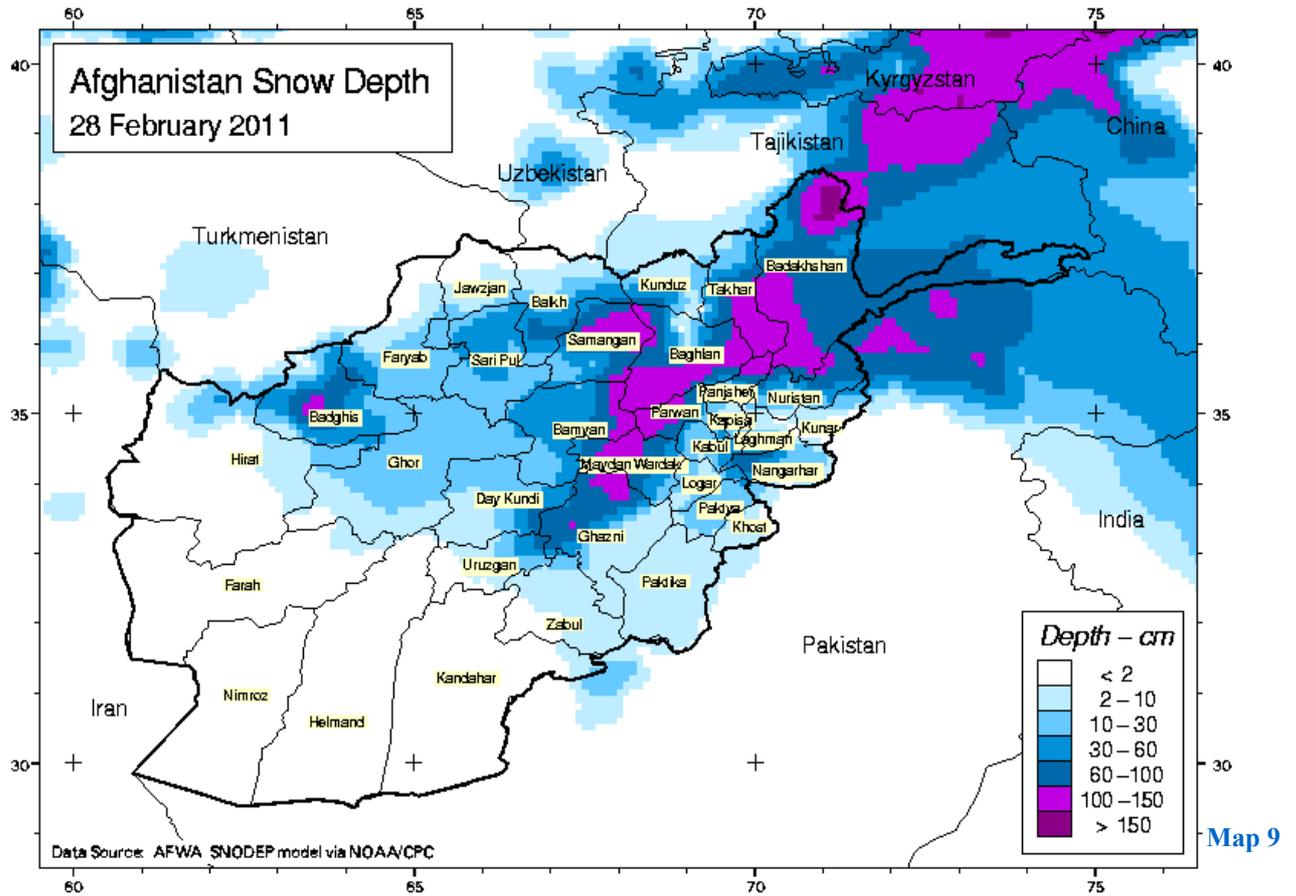
Map 7



Map 8

Comparison of snow extent for the month of February 2011 with the same month of long term average (Map 7-8) shows a decrease of snow areas.

Afghanistan Snow Depth for month of February 2011



Map (9) shows snow depth for the end of February 2011, as Map (9) shows the snow extent has been recorded 100 to 150 cm for the Northeastern region,

Capital and neighboring areas and some parts in the Northwestern region.

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