



Agrometeorological Project

# The Afghanistan Agrometeorological Monthly Bulletin

Issue No: 82  
December: 2011

Topics Crop Information Precipitation Temperature NDVI

## General Agroclimatic Situation of Afghanistan December 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

Rainfall situation was good during the month of December 2011, as in most parts of the country much rainfall has been occurred in this month. Low pressure systems continued their way into the country during this month which resulted good precipitations in most to parts of the country.

As normal situation the temperature gradually decreased during the month of December and most parts of the country experienced extreme cold weather during this month. The high elevation of the Northeastern and Central Highlands were the coldest areas.

### Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter Wheat		
				Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Planting		
		Paghman	Paghman			
		Kabul	Darulaman	Dormancy		
		Surubi	Surubi			
	Panjsher	Dara	Dara	Emergence	Normal	Not Existed
		Dashtak	Dashtak	Emergence	Normal	Not Existed
	Parwan	Syagerd	Gor band	Emergence	Normal	Not Existed
		Charikar	Charikar	Planting		
	Kapisa	Mahmoodraqi	Mahmoodraqi			
		Kohistan	Kohistan			
		Syagerd	Syagerd			
	Wardak	Chake	Chake	Dormancy		
		Jaghatoos	Jaghatoos			
	Bamyan	Bamyan	Bamyan	Emergence	Normal	Not Existed
		Yakawlang	Yakawlang	Planting		
		Panjab	Panjab	Dormancy		
		Shebar	Shebar	Emergence	Normal	Not Existed
		Kohmard	Kohmard	Planting		
	Ghazni	Muqur	Muqur	Dormancy		
		Andar	Bande Sardi	Emergence	Normal	Not Existed
Dikondy	Dasht	Dasht	Emergence	Normal	Not Existed	
	Khideer	Khideer	Emergence	Normal	Not Existed	
East	Nangarhar	Agam	Agam	Emergence	Poor	Poor rainfall
		Batikot	Ghaziabad	Emergence	Normal	Not Existed
		Jalalabad	Farm jaded	Emergence	Normal	Not Existed
		Behsood	Behsood	Emergence	Normal	Not Existed
	Kunar	Asmar	Asmar	Emergence	Poor	Poor rainfall
		Asad Abad	Asad Abad	Emergence	Poor	Poor rainfall
		Chawkay	Chawkay	Emergence	Poor	Poor rainfall

## Crop Stage, Crop Condition and Adverse Factor

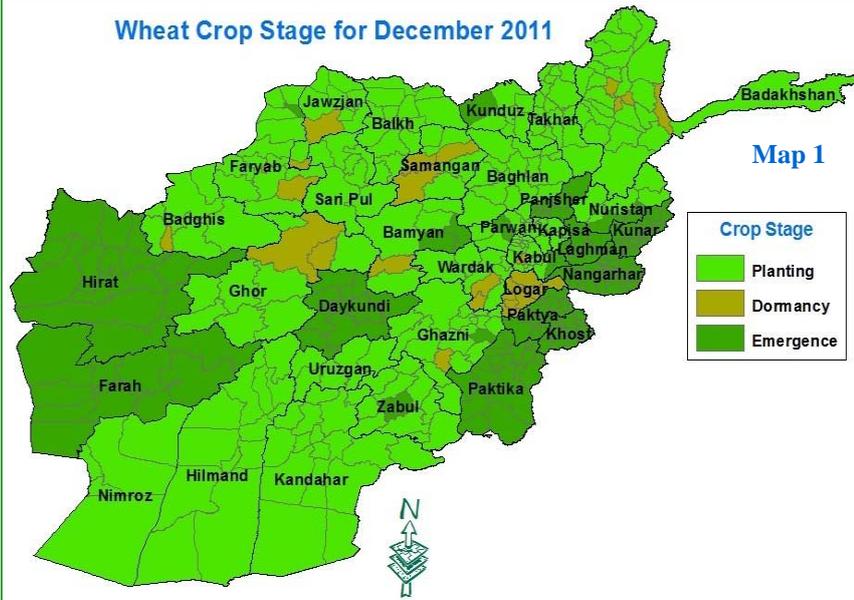
Zone	Province	District	Station	Winter Wheat					
				Crop Stage	Crop Condition	Adverse Factor			
East	Laghman	Mihtarlam	Mihtarlam	Emergence	Normal	Not Existed			
		Qarghay	Qarghay	Emergence	Normal	Not Existed			
		Alengar	Alengar	Emergence	Normal	Not Existed			
	Noristan	Paroon	Paroon	<b>Planting</b>					
		Do Ab	Do Ab						
		Norgaram	Norgaram	Emergence	Poor	Poor rainfall			
		Waigal	Waigal	Emergence	Poor	Poor rainfall			
Wama	Wama	Emergence	Poor	Poor rainfall					
North East	Takhar	Bangi	Bangi	<b>Planting</b>					
		Taluqan	Taluqan						
	Kunduz	Imam Sahib	Imam Sahib	<b>Planting</b>					
		Qaliazal	Aqtipa				Emergence	Normal	Not Existed
		Khan Abad	Khan Abad						
		Kunduz	Kunduz						
		Archi	Archi						
		Chardara	Chardara						
	Ali Abad	Ali Abad							
	Baghlan	Pulikhomri	Pozaishan	<b>Planting</b>					
		Doshy	Doshy						
	Badakhshan	Argo	Argo	<b>Dormancy</b>					
		Baharak	Baharak						
Ashkashm		Ashkashm							
Khash		Kash							
Faiz Abad		Faiz Abad							
South East	Khost	Khost	Khost	Emergence	Normal	Not Existed			
		Khost	Shimal	Emergence	Poor	Not Existed			
		Ali Sher	Ali Sher	Emergence	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			
	South	Nimroz	Zaranj	Zaranj	<b>Planting</b>				
Kandahar		Kandahar	Kandahar						
Zabul		Qalat	Qalat	Emergence	Poor	Poor rainfall			

## Crop Stage, Crop Condition and Adverse Factor

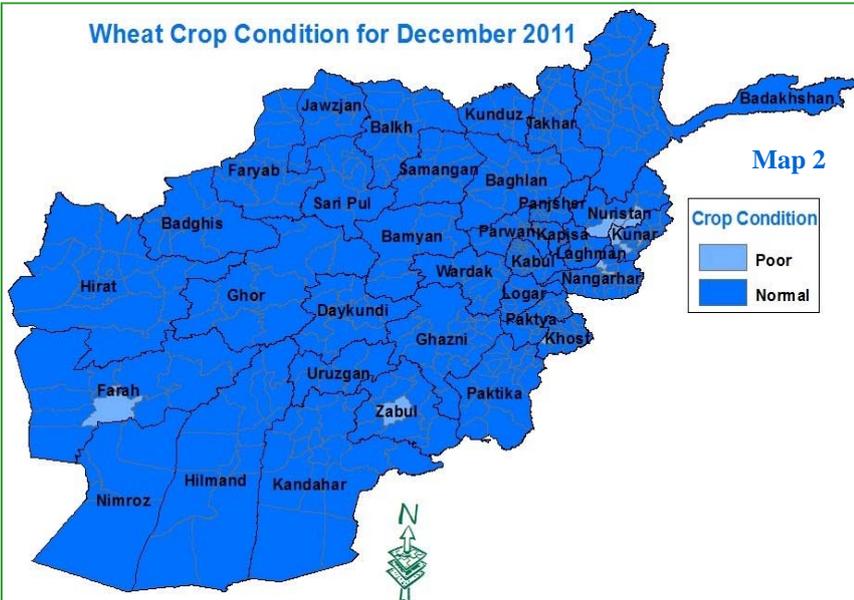
Zone	Province	District	Station	Winter Wheat								
				Crop Stage	Crop Condition	Adverse Factor						
<b>South</b>	<b>Urozgan</b>	Tirin Kot	Tirin Kot	<b>Planting</b>								
	<b>Hilmand</b>	Nad Ali	Nad Ali									
		Greshk	Greshk									
		Nawa	Nawa									
		Lashkargah	Bolan									
<b>North</b>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

# Wheat Crop Stage, Condition and Adverse Factor Maps

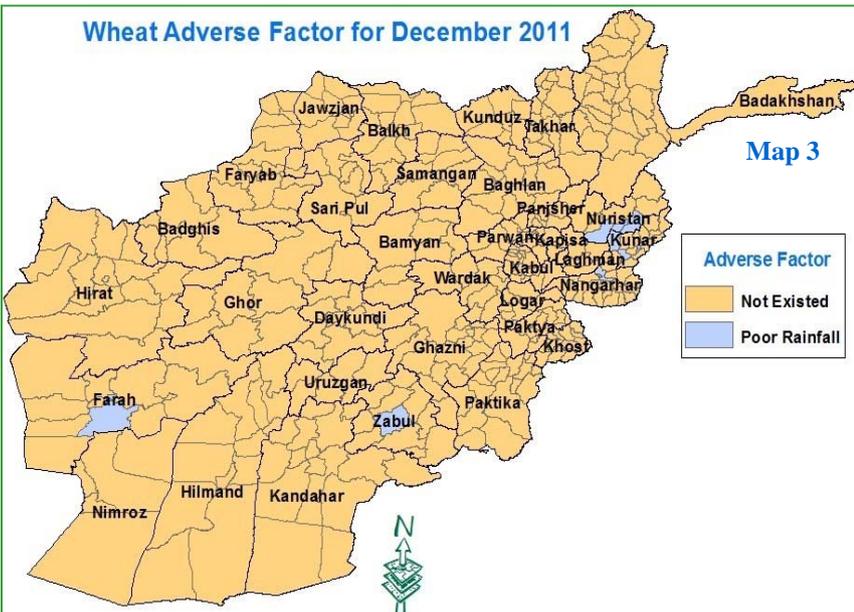
Wheat Crop Stage for December 2011



Wheat Crop Condition for December 2011



Wheat Adverse Factor for December 2011



Data Source: Agromet Network

## Precipitation

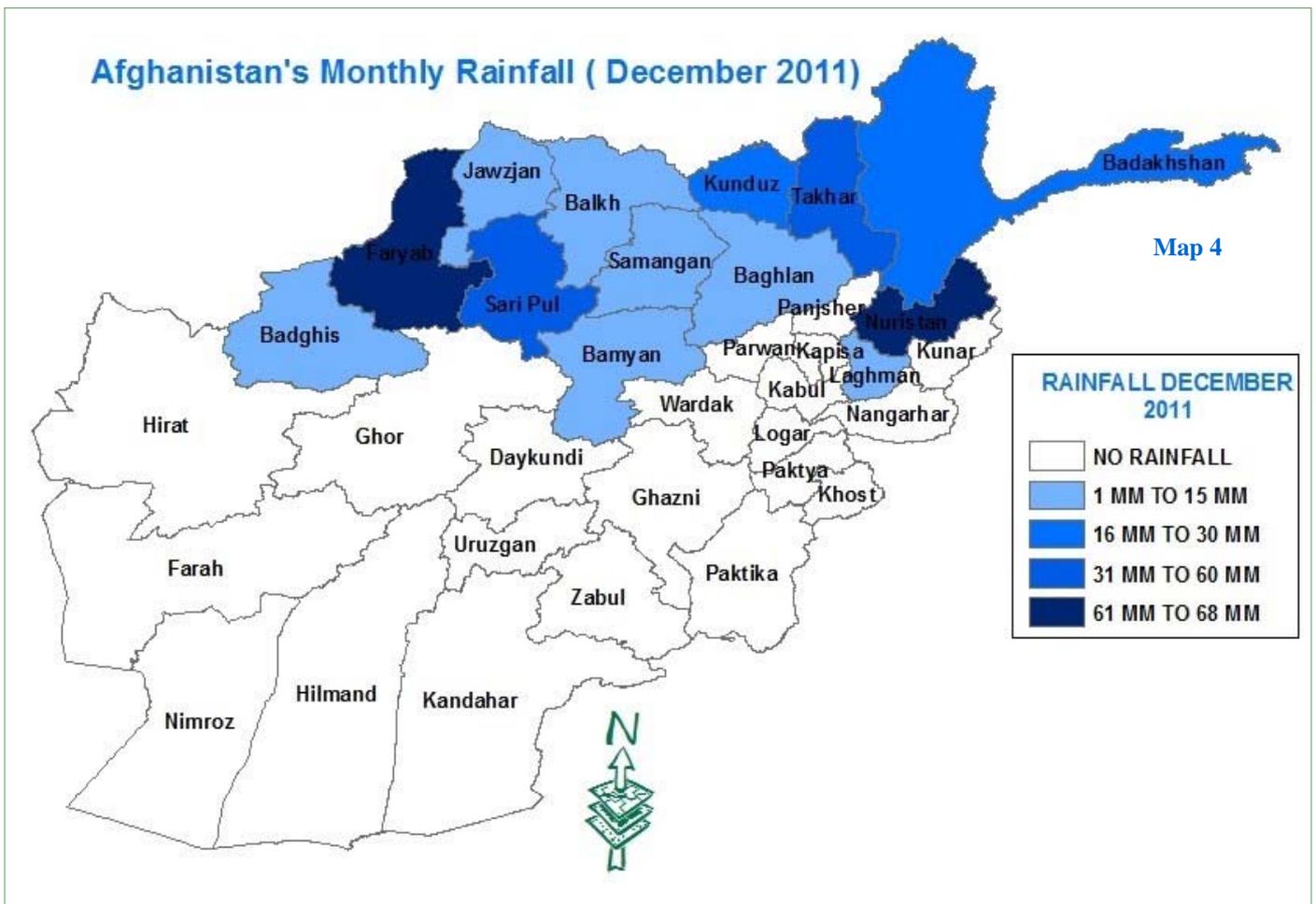
Rainfall situation was good during the month of December 2011, as in most parts of the country much rainfall has been occurred in this month. Low pressure systems continued their way into the country during this month which resulted good precipitations in most to parts of the country.

Comparison of rainfall data for the month of December 2011 with the same month in 2010 (Chart1 ) shows significant increase of rainfall during the month of Dec 2011 over the same month of last year.

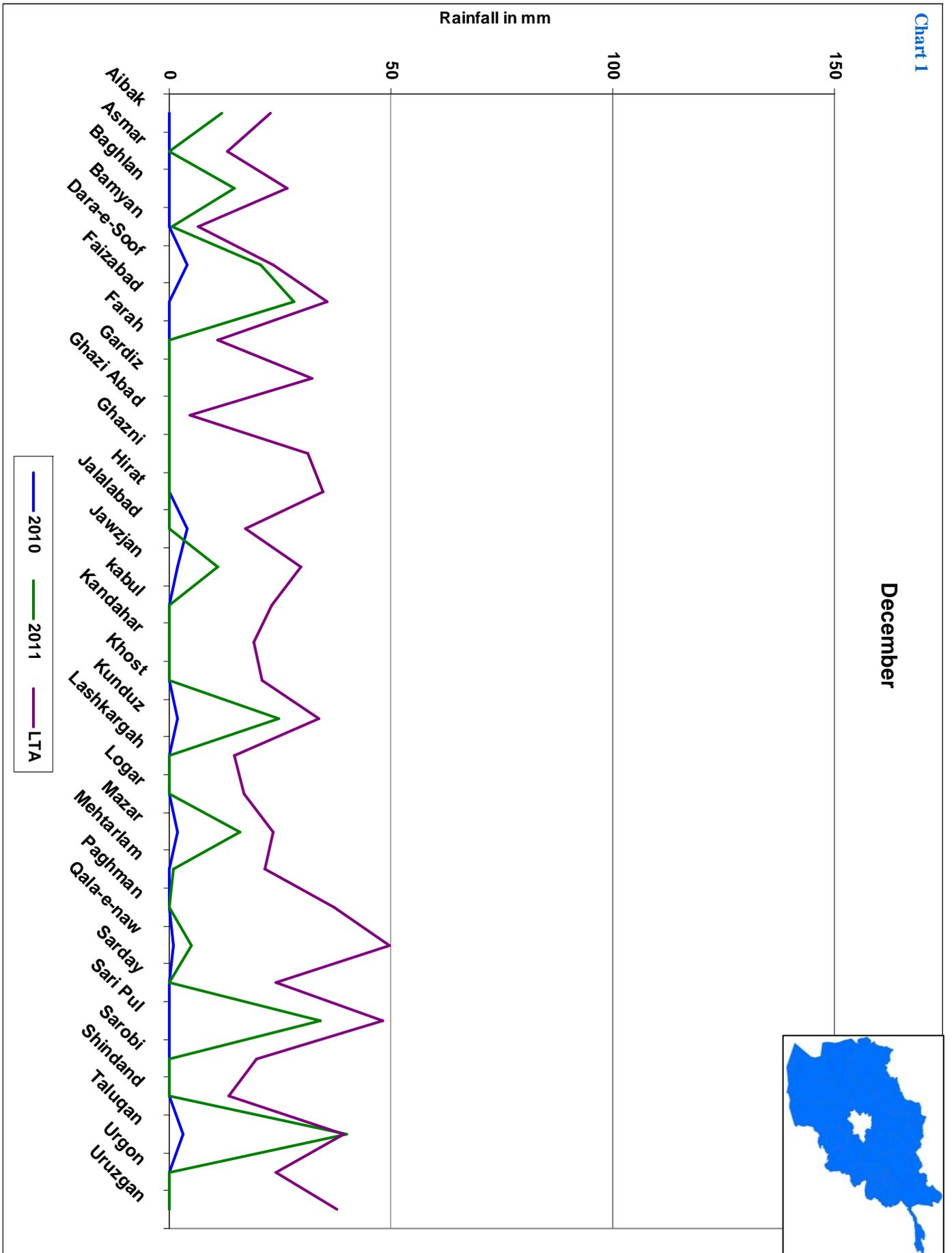
Comparison of rainfall data for the month of

December 2011 with the same month of long term average (Chart 1) shows a decrease of rainfall during the month of December 2011 over the same month of long term.

Distribution of rainfall was variable during the month of December 2011. As map (4) shows, most amount of rainfall is occurred in the Eastern, Northeastern and Northwestern region. The Northern region and some parts of the Central Highlands have received moderate rainfall during the month of December 2011. No precipitation has been occurred in the rest parts of the country during this month.



# Rainfall Graphs for the Month of December 2011



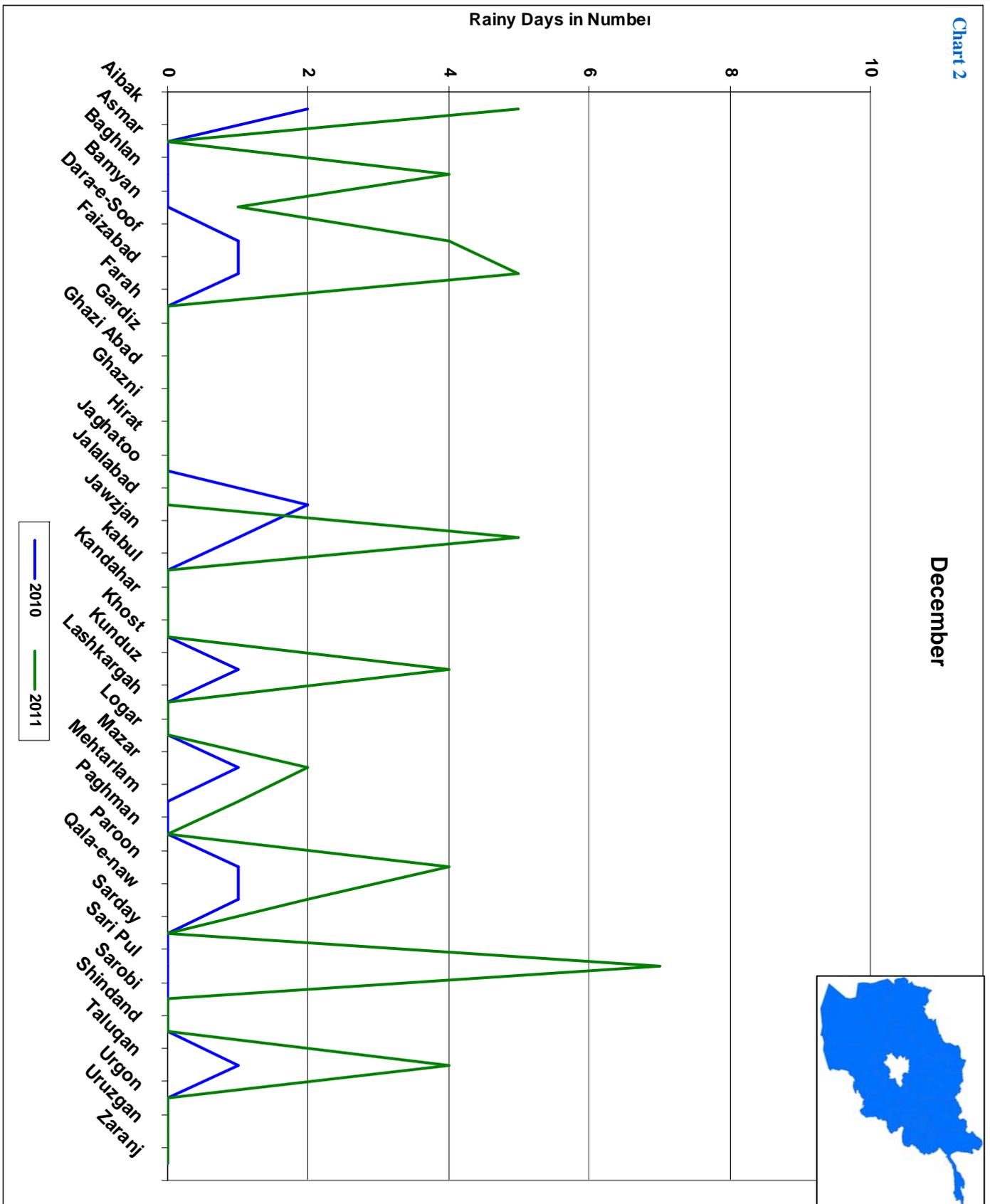
## Rainfall for the Month of December 2011

Table 1

Stations	December		
	Rainfall in (mm)		
	2010	2011	LTA
Aibak	0	12	22.8
Asmar	0	0	13.1
Baghlan	0	14.8	26.5
Bamyan	0	0.5	6.7
Dara-e-Soof	4	20.5	23.5
Faizabad	0	28	35.5
Farah	0	0	10.9
Gardiz	0	0	32.2
Ghazi Abad	0	0	4.6
Ghazni	0	0	31.2
Hirat	0	0	34.6
Jaghatoo	0	0	Data Not Available
Jalalabad	4	0	17.3
Jawzjan	2	11	29.7
kabul	0	0	23.1
Kandahar	0	0	19.2
Khost	0	0	21
Kunduz	2	24.7	33.8
Lashkargah	0	0	14.8
Logar	0	0	16.8
Mazar	2	16	23.5
Mehtarlam	0	1	21.5
Paghman	0	0	37.1
Paroon	12	67	Data Not Available
Qala-e-naw	1	5	49.7
Sarday	0	0	24.2
Sari Pul	0	34	48.2
Sarobi	0	0	19.6
Shindand	0	0	13.3
Taluqan	3	40	39.5
Urgon	0	0	24.1
Uruzgan	0	0	37.8
Zaranj	0	0	Data Not Available

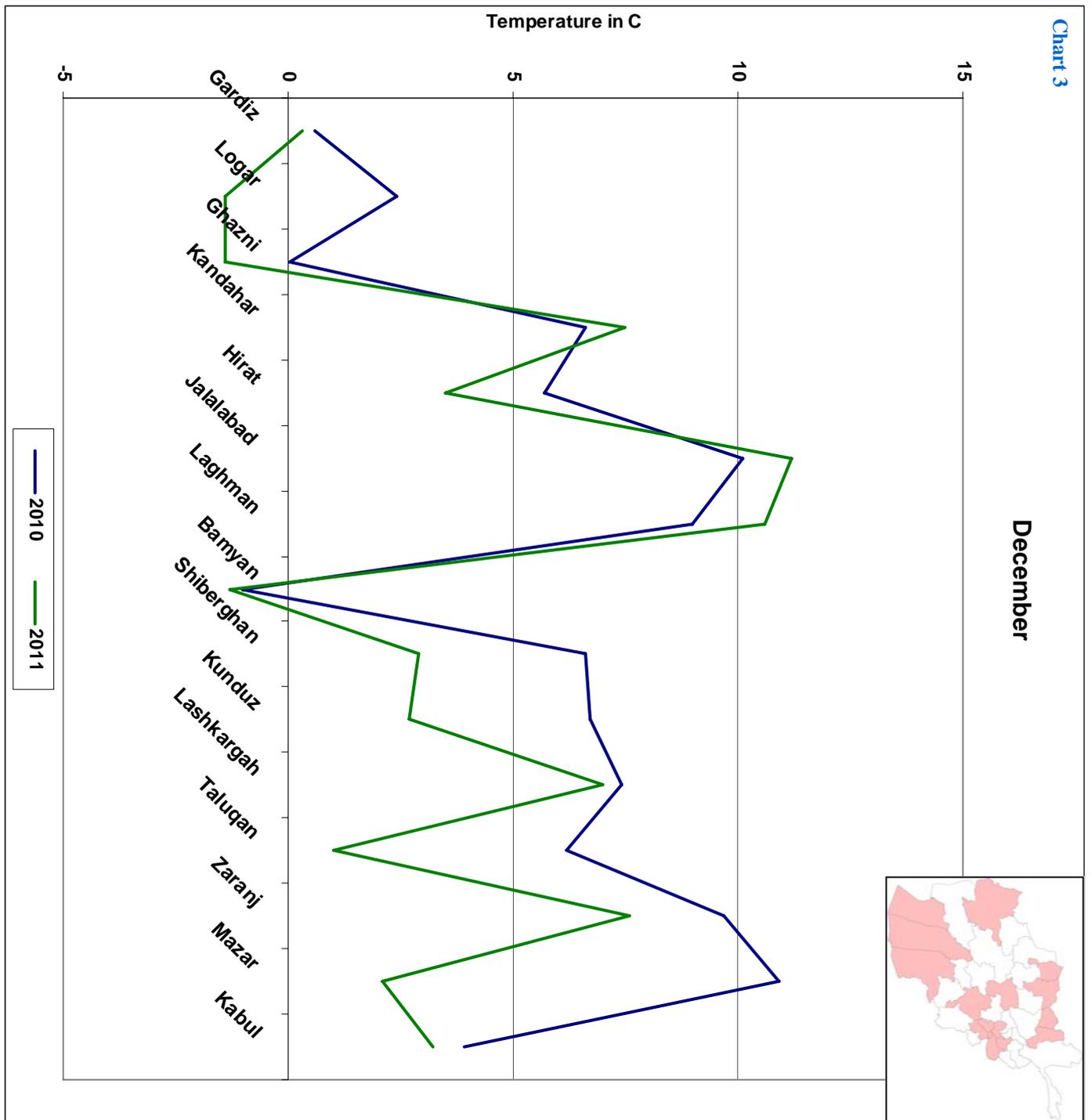
Data Source: Agromet Network

## Rainy Days for the Month of December 2011



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

## Average Temperature for the Month of December 2011

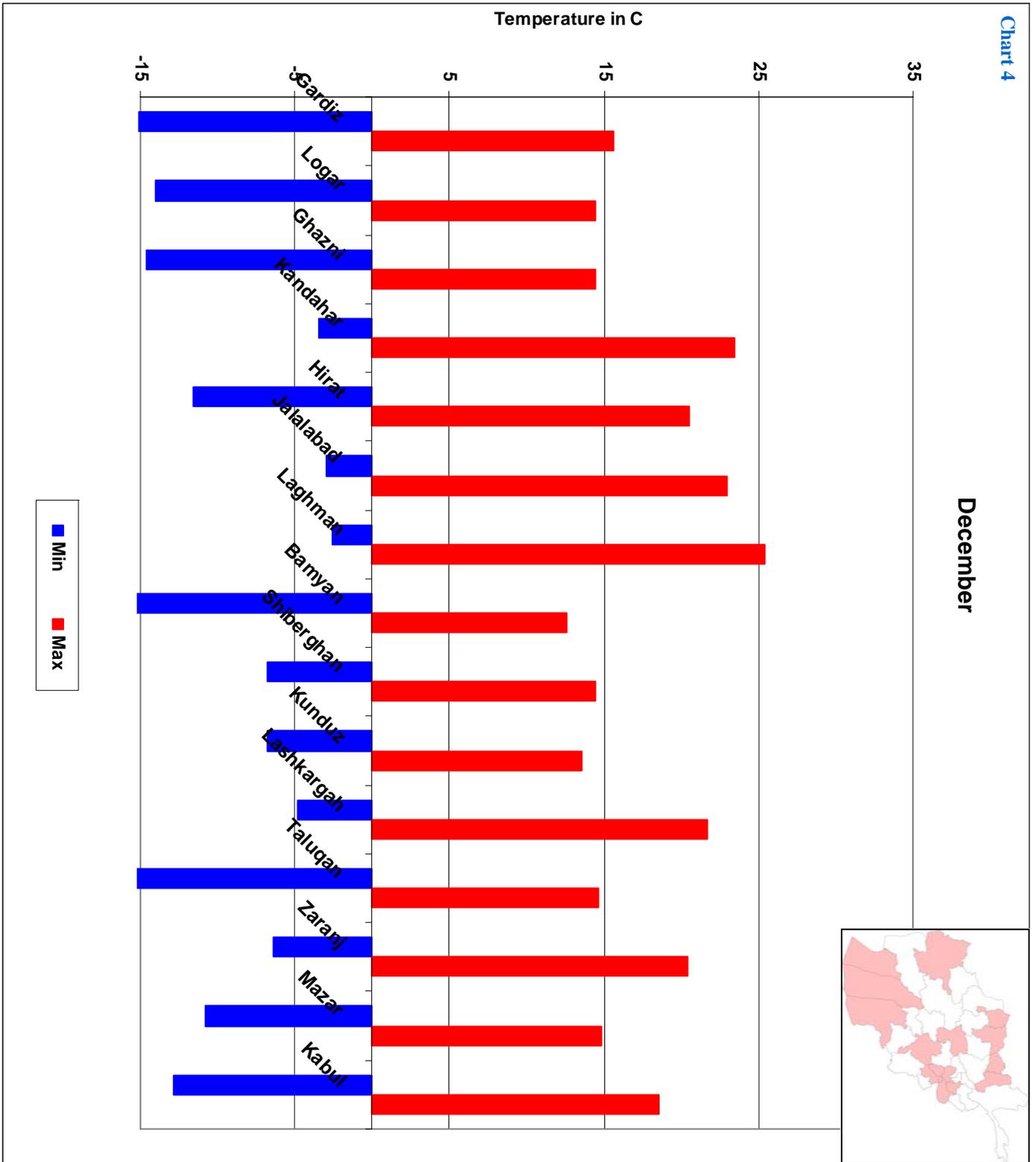


**During the month of December 2011 temperature was Lower than the same month of last year in most parts of the country.**

As normal situation the temperature gradually decreased during the month of December and most parts of the country experienced extreme cold weather during this month. The high elevation of the Northeastern and Central Highlands were the coldest areas.

Comparison of the monthly average of temperature for the month of December 2011 with the same month of last year (Chart 3) shows a decrease of temperature during the month of December 2011 over the same month of last year in most parts of the country.

## Temperature for the Month of December 2011

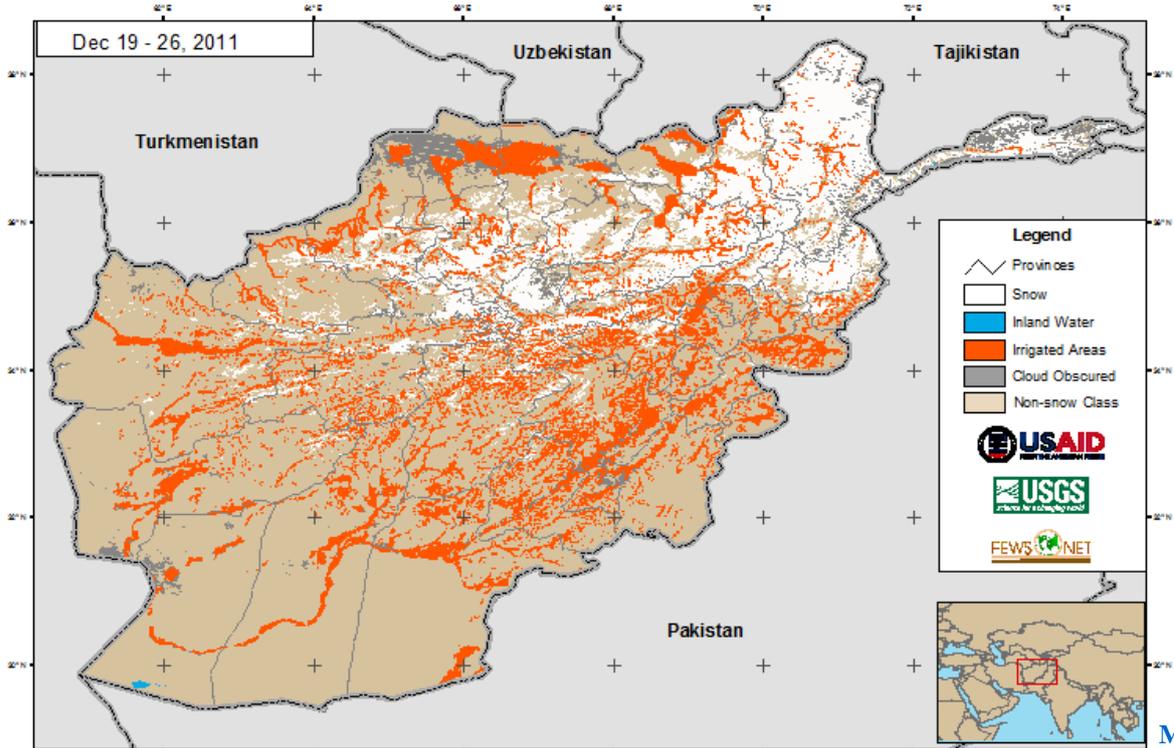


**Lashkargah with 25.4 ° C was the warmest spot of the Country during the month of December 2011 .**

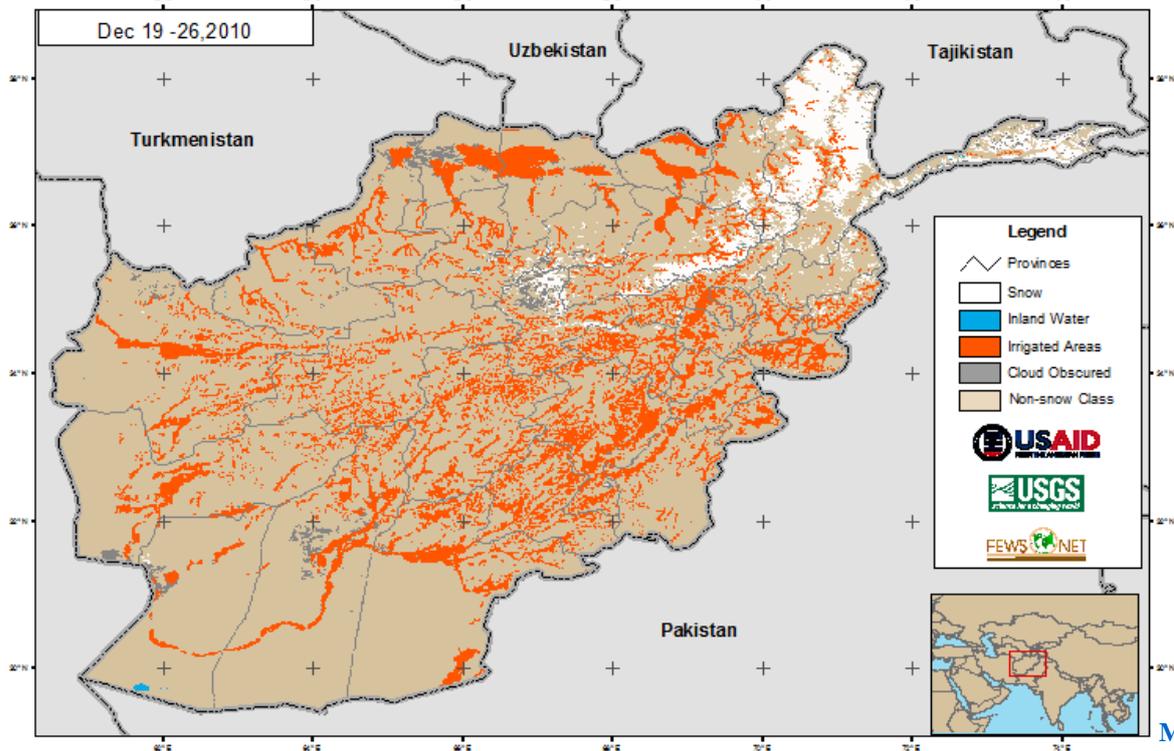
Chart (4) shows maximum and minimum temperature during the month of December 2011. As chart (4) shows Bamyan with - 17.6 ° C experienced the coldest weather during the month of December 2011 but, Lashkargah with 25.4 ° C was the warmest spot of the country

## Comparison of Snow Extent

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



Map 5



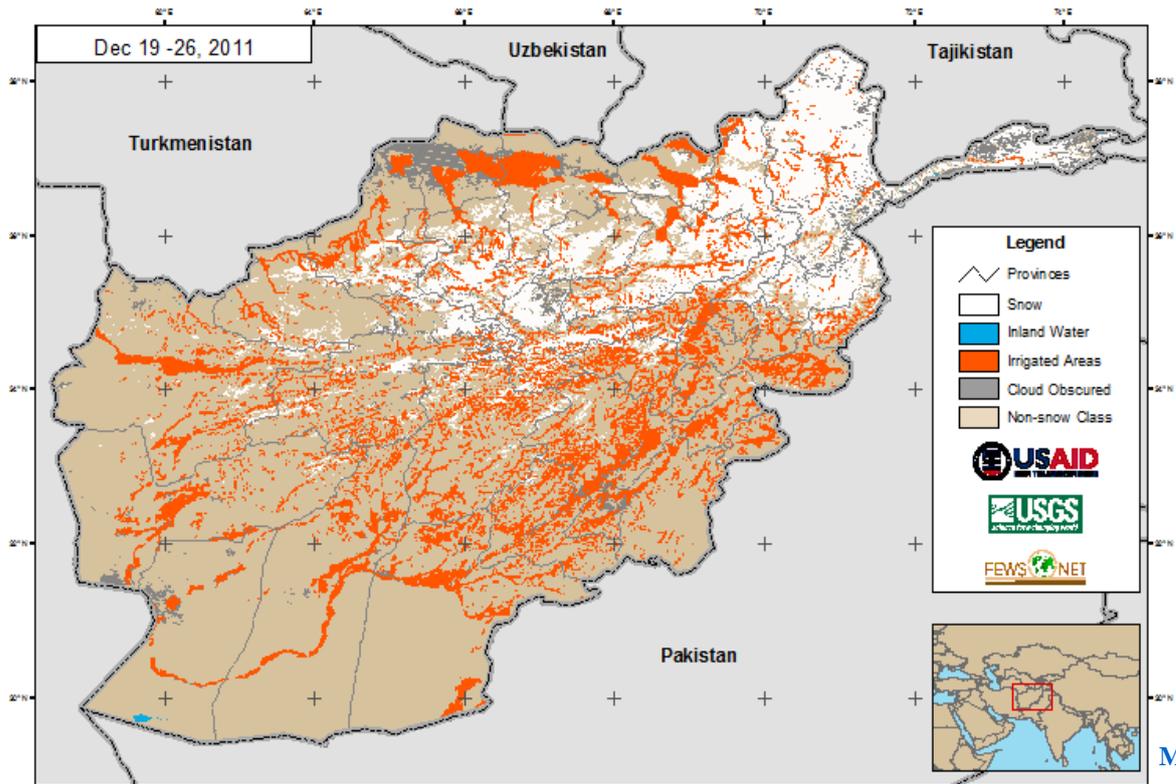
Map 6

Low pressure systems pushed adequate moisture inside the country which resulted in good snowfall. Although snow coverage remains across the higher elevations of central and northeast Afghanistan, snow depths are likely below average.

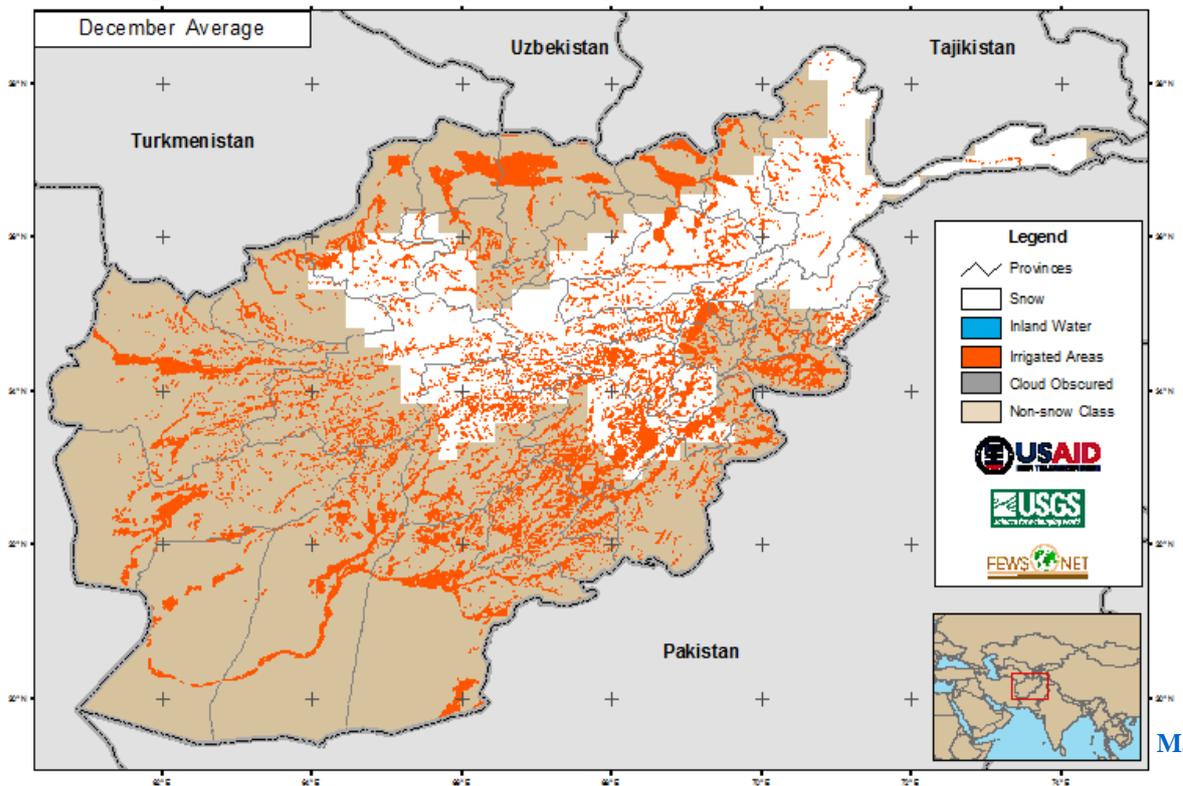
Comparison of snow extent for the period of December (19 – 26) 2011 on (Map 5 - 6 ) with the same period of last year shows an increase of snow extent during the above mentioned period of time over the same period of last year.

## Comparison of Snow Extent

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



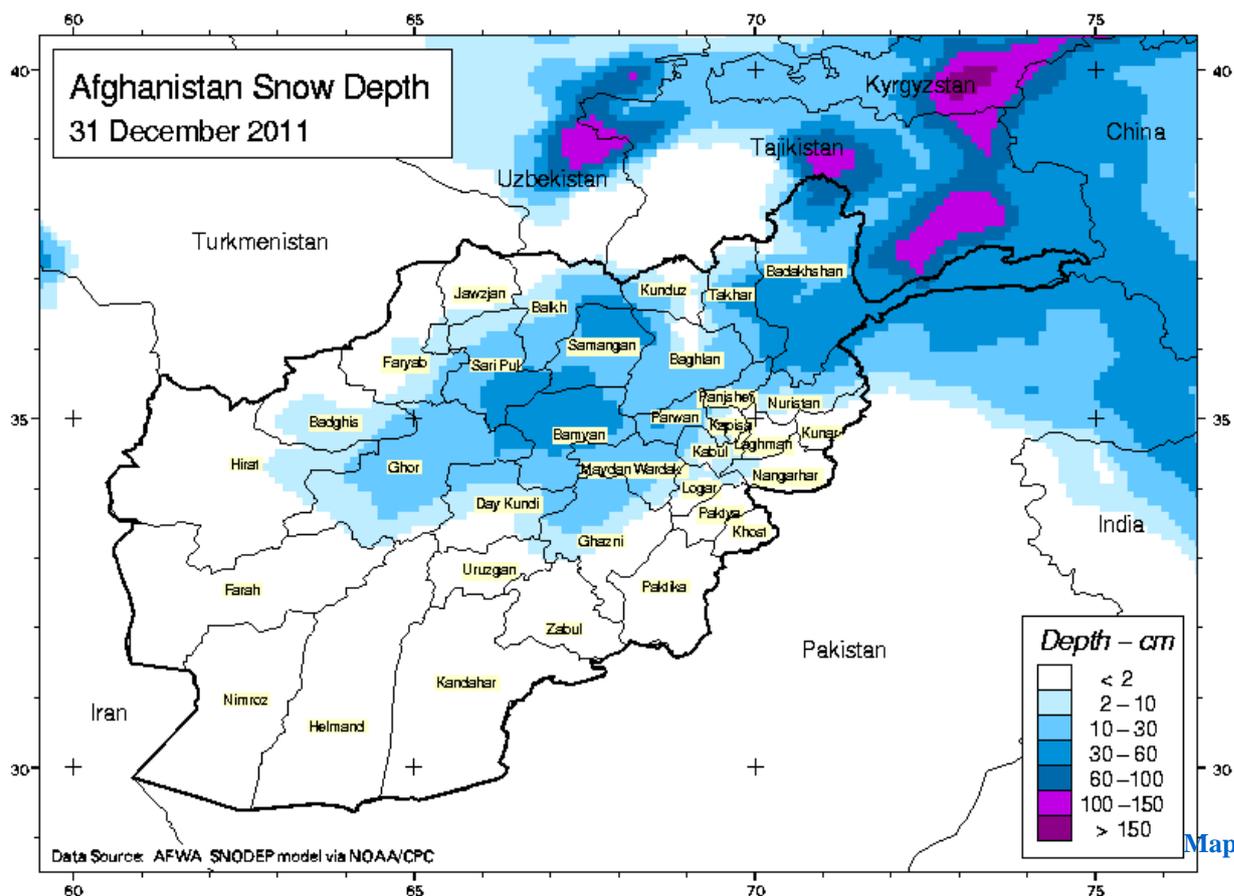
Map 7



Map 8

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

## Afghanistan Snow Depth for month of December 2011



Map 9

Map (9) shows the snow depth at end of December 2011. As map (9) shows, the snow depth has been recorded over 60 to 100 cm in the Northeastern regions, Central Highlands and some parts of the Northern region.

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