



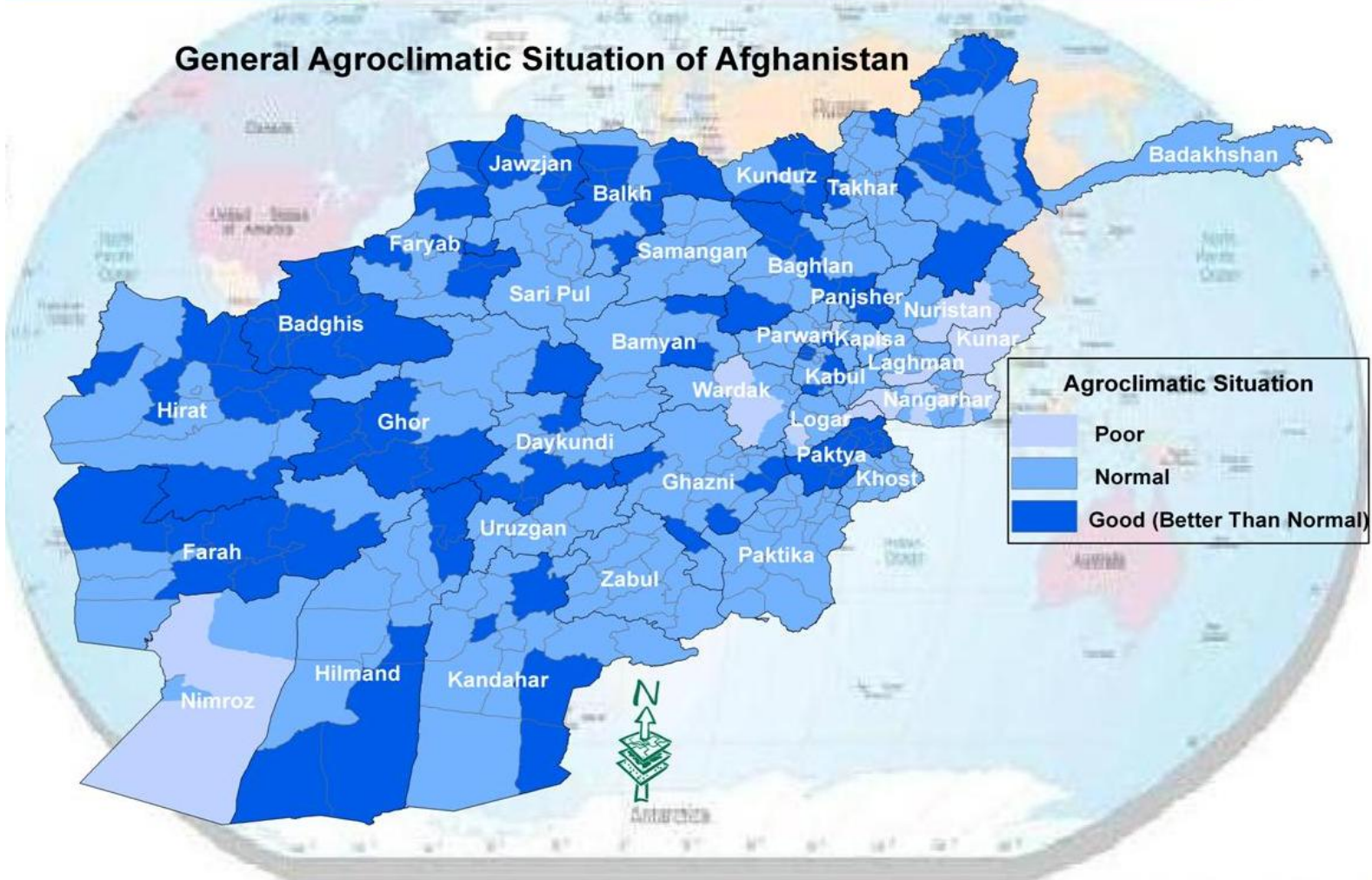
Issue No: 64

June: 2010

# The **f**ghan**is**tan Agrometeorological **AAM** Monthly Bulletin

Topics Crop Information Precipitation Temperature NDVI

## General Agroclimatic Situation of Afghanistan



Adverse Factor **1** Crop Condition **2** Crop Stage **3**



The Agromet Project of USGS, supported by United State Agency for International Development (USAID), 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

Indian monsoon usually brings seasonal precipitation in to the country in this time of the year, at the result of which the Eastern, Southeastern, Northeastern regions and some parts of the Capital region, received good rainfall during the month of June 2010 which reduced the bad affects of low precipitation in the country particularly in the Northeastern region.

During the month of June 2010 most of the rainfall occurred in the Northeastern region, while the Eastern, Southeastern, Capital region and some parts

of the Northern region experienced moderate rainfall. Low precipitation was observed in the Southern, Southwestern and Western regions.

The country experienced more rainy days during June 2010 compared to the same month in 2009.

Starting January 2010 up to June 2010, mostly temperature was higher compared to the same month of last year, but during June 2010 the temperature was slightly low than the same month of last year and was accompanied by negative departure in most parts.

### Wheat Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Grain filling	Normal	Not existed
		Paghman	Paghman	Grain filling	Normal	Excessive weeds
		Kabul	Darulaman	Grain filling	Normal	Shortage of inputs
		Surubi	Surubi	<b>Harvesting</b>		
	Panjsher	Dara	Dara	Grain filling	Normal	Not existed
		Dashtak	Dashtak	<b>Harvesting</b>		
	Parwan	Syagerd	Syagerd	Grain filling	Good (better than normal)	Shortage of inputs
		Charikar	Charikar	<b>Harvesting</b>		
	Kapisa	Mahmoodraqi	Mahmoodraqi			
		Kohistan	Kohistan			
	Wardak	Chak	Chak	Grain filling	Good (better than normal)	Not existed
		Jaghatoo	Jaghatoo	<b>Harvesting</b>		
East Central	Bamyan	Bamyan	Bamyan	Flowering	Good (better than normal)	Shortage of inputs (fertilizer, pesticide, herbicide)
		Yakawlang	Yakawlang	Flowering	Normal	Excessive weeds
		Panjab	Panjab	Flowering	Normal	Excessive weeds
Eastern	Noristan	Paroon	Paroon	Flowering	Normal	Not existed
		Duab	Duab	Grain filling	Normal	Not existed

## Wheat Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Crop Stage	Crop Condition	Adverse Factor		
<b>Eastern</b>	<b>Nangarhar</b>	Agam	Agam	<b>Harvesting</b>				
		Batikot	Ghaziabad					
		Jalalabad	Sheshembagh					
		Jalalabad	Farm Jadeed					
	<b>Kunar</b>	Asmar	Asmar					
		Asadabad	Asadabad					
	<b>Laghman</b>	Mihtarlam	Mihtarlam					
<b>North Eastern</b>	<b>Takhar</b>	Bangi	Bangi					
		Taluqan	Taluqan					
	<b>Kunduz</b>	Imam Sahib	Imam Sahib					
		Qaliazal	Aqtipa					
		Chardara	Chardara					
		Kunduz	Kunduz					
	<b>Baghlan</b>	Pulikhomri	Pozaishan					
	<b>Badakhshan</b>	Faizabad	Faizabad					
Khash		Khash	Grain filling	Normal	Not existed			
Baharak		Baharak	Grain filling	Normal	Not existed			
<b>South Eastern</b>	<b>Khost</b>	Khost	Khost	<b>Harvesting</b>				
		Khost	Shimal					
		Ali Sher	Ali Sher					
	<b>Paktai</b>	Zormat	Rohani Baba					
		Gardiz	Tera					
	<b>Paktika</b>	Urgon	Urgon					
		Sharana	Sharana					
		Khairkot	Khairkot					
	<b>Ghazni</b>	Muqur	Muqur					
Andar		Bande Sardi						
<b>Southern</b>	<b>Nimroz</b>	Zaranj	Zaranj	<b>Harvesting</b>				
	<b>Kandahar</b>	Kandahar	Kandahar					
	<b>Zabul</b>	Qalat	Qalat					
	<b>Urozgan</b>	Tirin Kot	Tirin Kot					
	<b>Hilmand</b>	Nad Ali	Nad Ali					
		Greshk	Greshk					
		Nawa	Nawa					
Lashkargah		Bolan						
<b>Northern</b>	<b>Balkh</b>	Dihdadi	Dihdadi	<b>Harvesting</b>				
		Nahrishahi	Nahrishahi					
	<b>Jawzjan</b>	Sheberghan	Sheberghan					
		Darzab	Darzab					
	<b>Saripul</b>	Saripul	Saripul					
		Sozmaqala	Sozmaqala					
	<b>Faryab</b>	Maimana	Maimana					
		Andkhoy	Andkhoy					
	<b>Samangan</b>	Aibak	Aibak					
		Dara Souf Bala	Dara Souf Bala					
<b>Western</b>	<b>Badghis</b>	Qalainow	Qalainow	<b>Harvesting</b>				
		Muqur	Muqur					
		Chaghcharan	Chaghcharan				Grain filling	Good (better than normal)
	<b>Hirat</b>	Shindand	Shindand					
		Zindajan	Zindajan					
		Gwazara	Falahat					
		Hirat	Farm Urdokhan					
	<b>Farah</b>	Farah	Farah					

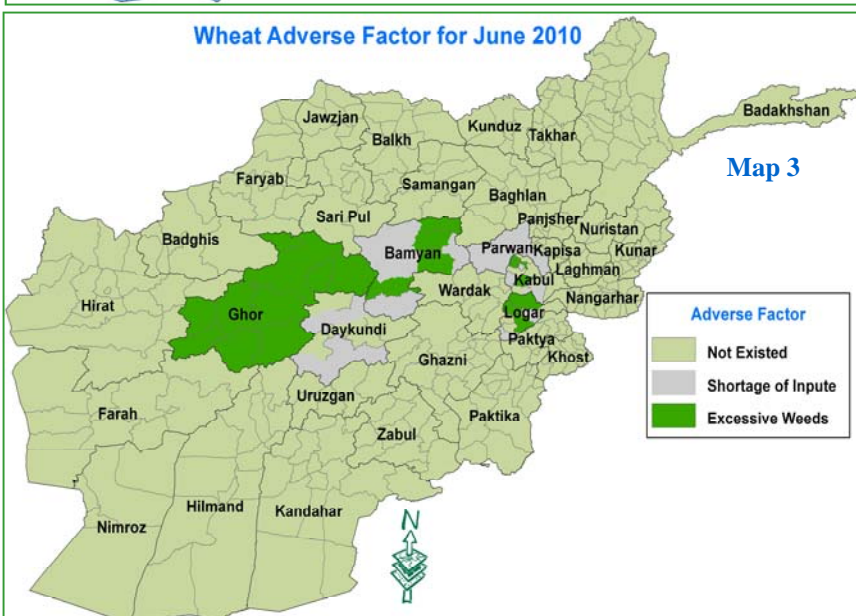
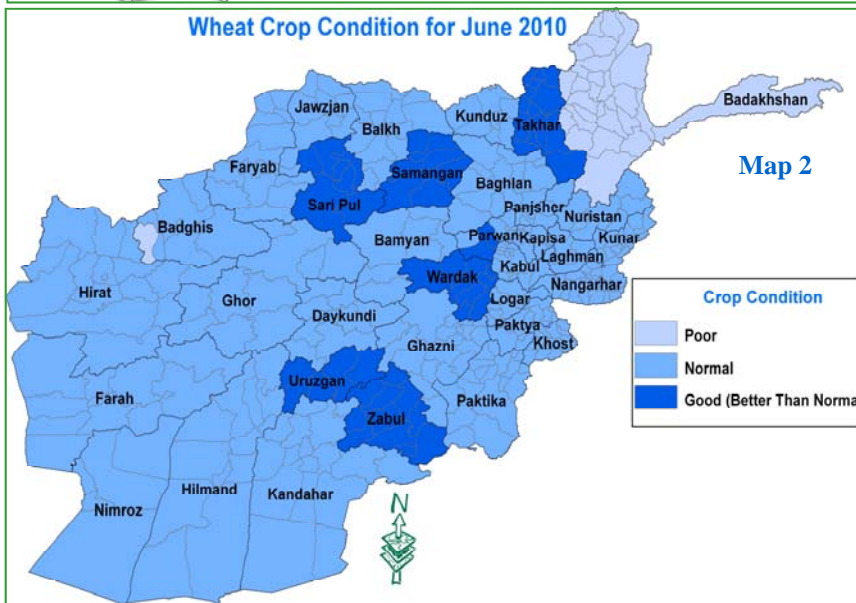
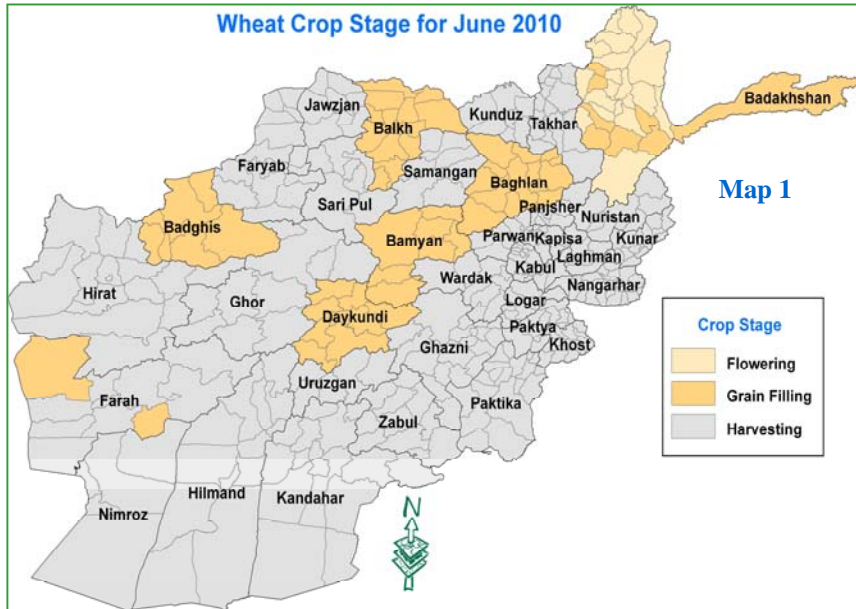
## Maiz Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Crop Stage	Crop Condition	Adverse Factor
<b>Central</b>	<b>Kabul</b>	Surubi	Surubi	Ploughing	Not seen	Not visible
	<b>Parwan</b>	Charikar	Charikar	Planting	Not seen	Not visible
<b>Eastern</b>	<b>Nangarhar</b>	Agam	Agam	Planting	Not seen	Not visible
		Batikot	Ghaziabad	Planting	Not seen	Not visible
		Jalalabad	Sheshembagh	Emergence	Not seen	Not visible
		Jalalabad	Farm Jadeed	Emergence	Not seen	Not visible
	<b>Kunar</b>	Asmar	Asmar	Planting	Not seen	Not visible
		Asadabad	Asadabad	Ploughing	Not seen	Not visible
<b>North Eastern</b>	<b>Kunduz</b>	Imam Sahib	Imam Sahib	Ploughing	Not seen	Not visible
		Qaliazal	Aqtipa	Ploughing	Not seen	Not visible
		Chardara	Chardara	Ploughing	Not seen	Not visible
		Kunduz	Kunduz	Ploughing	Not seen	Not visible
<b>South Eastern</b>	<b>Khost</b>	Khost	Khost	Planting	Not seen	Not visible
		Khost	Shimal	Planting	Not seen	Not visible
		Ali Sher	Ali Sher	Planting	Not seen	Not visible
	<b>Paktai</b>	Zormat	Rohani Baba	Vegetative	Normal	Not existed
		Gardiz	Tera	Planting	Not seen	Not visible
	<b>Paktika</b>	Urgon	Urgon	Planting	Not seen	Not visible
<b>Southern</b>	<b>Hilmand</b>	Nad Ali	Nad Ali	Planting	Not seen	Not visible
		Greshk	Greshk	Planting	Not seen	Not visible
		Nawa	Nawa	Planting	Not seen	Not visible
		Lashkargah	Bolan	Planting	Not seen	Not visible

## Rice Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Crop Stage	Crop Condition	Adverse Factor
<b>Central</b>	<b>Kabul</b>	Surubi	Surubi	Ploughing	Not seen	Not visible
<b>Eastern</b>	<b>Nangarhar</b>	Agam	Agam	Ploughing	Not seen	Not visible
		Batikot	Ghaziabad	Planting	Not seen	Not visible
		Jalalabad	Sheshembagh	Ploughing	Not seen	Not visible
		Jalalabad	Farm Jadeed	Planting	Not seen	Not visible
	<b>Kunar</b>	Asmar	Asmar	Ploughing	Not seen	Not visible
		Asadabad	Asadabad	Planting	Not seen	Not visible
	<b>Laghman</b>	Mihtarlam	Mihtarlam	Planting	Not seen	Not visible
<b>North Eastern</b>	<b>Kunduz</b>	Imam Sahib	Imam Sahib	Ploughing	Not seen	Not visible
		Qaliazal	Aqtipa	Ploughing	Not seen	Not visible
		Chardara	Chardara	Ploughing	Not seen	Not visible
		Kunduz	Kunduz	Ploughing	Not seen	Not visible
<b>South Eastern</b>	<b>Khost</b>	Khost	Khost	Planting	Not seen	Not visible
		Khost	Shimal	Planting	Not seen	Not visible
		Ali Sher	Ali Sher	Ploughing	Not seen	Not visible

# Wheat Crop Stage, Condition and Adverse Factor Maps



## Precipitation

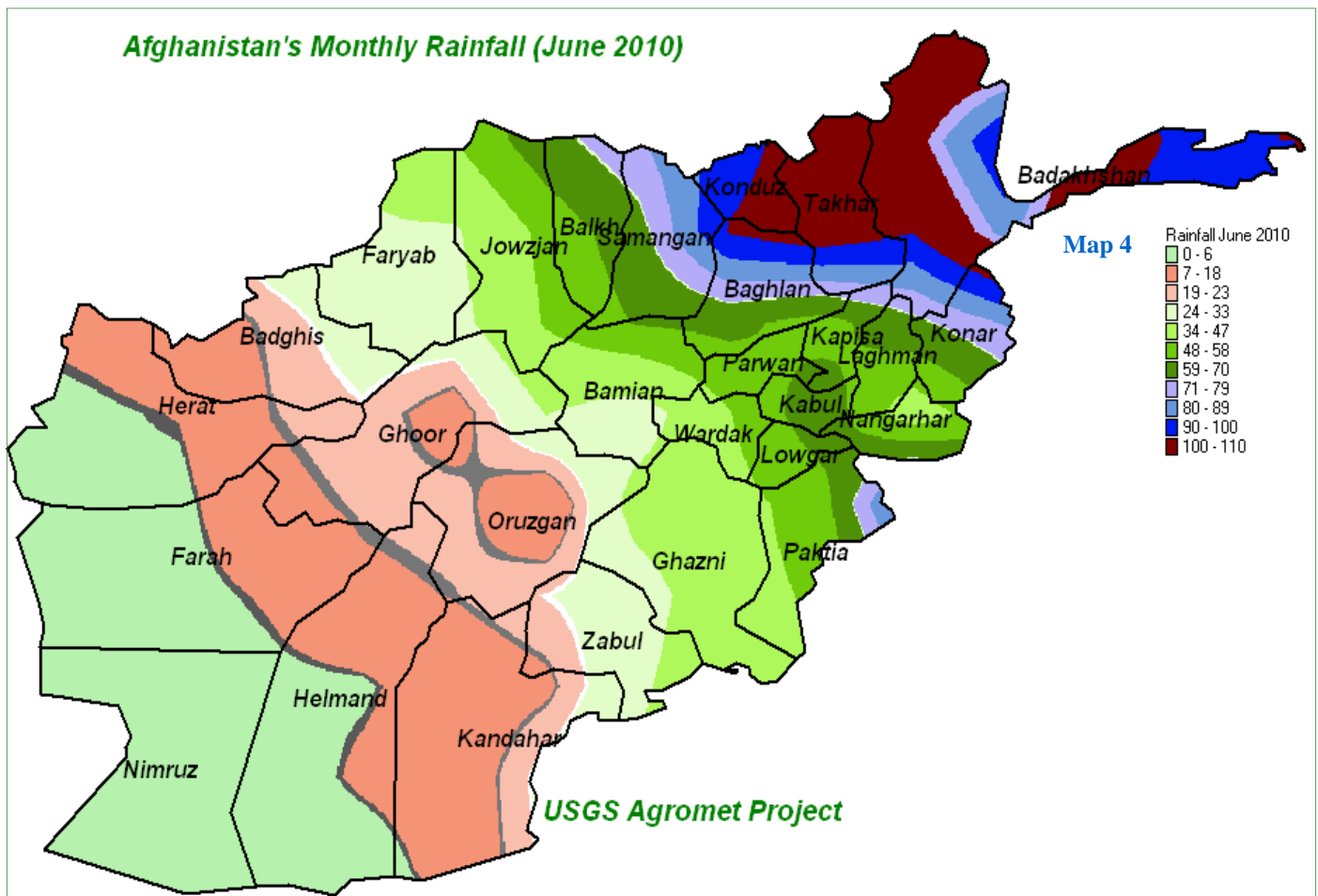
Indian monsoon usually brings seasonal precipitation in to the country in this time of the year, at the result of which the Eastern, Southeastern, Northeastern regions and some parts of the Capital region, received good rainfall during the month of June 2010 which reduced the bad affects of low precipitation in the country particularly in the Northeastern region., however rainfall was good, dry condition seasonally dominated in the southwestern region.

Comparison of rainfall data for the month of June 2010 with the same month in 2009 chart (1) shows an increase of rainfall in most parts of the country during the month of June 2010 over the same month of last year, however rainfall had a decrease in some stations, but in general total amount of

rainfall was higher during the month of June current year than the same month in 2009. Comparison of rainfall data for the month of June 2010 with the same month of long term average chart (2) shows significant increase of rainfall during the month of June 2010 compared to the same month of long term average around the country.

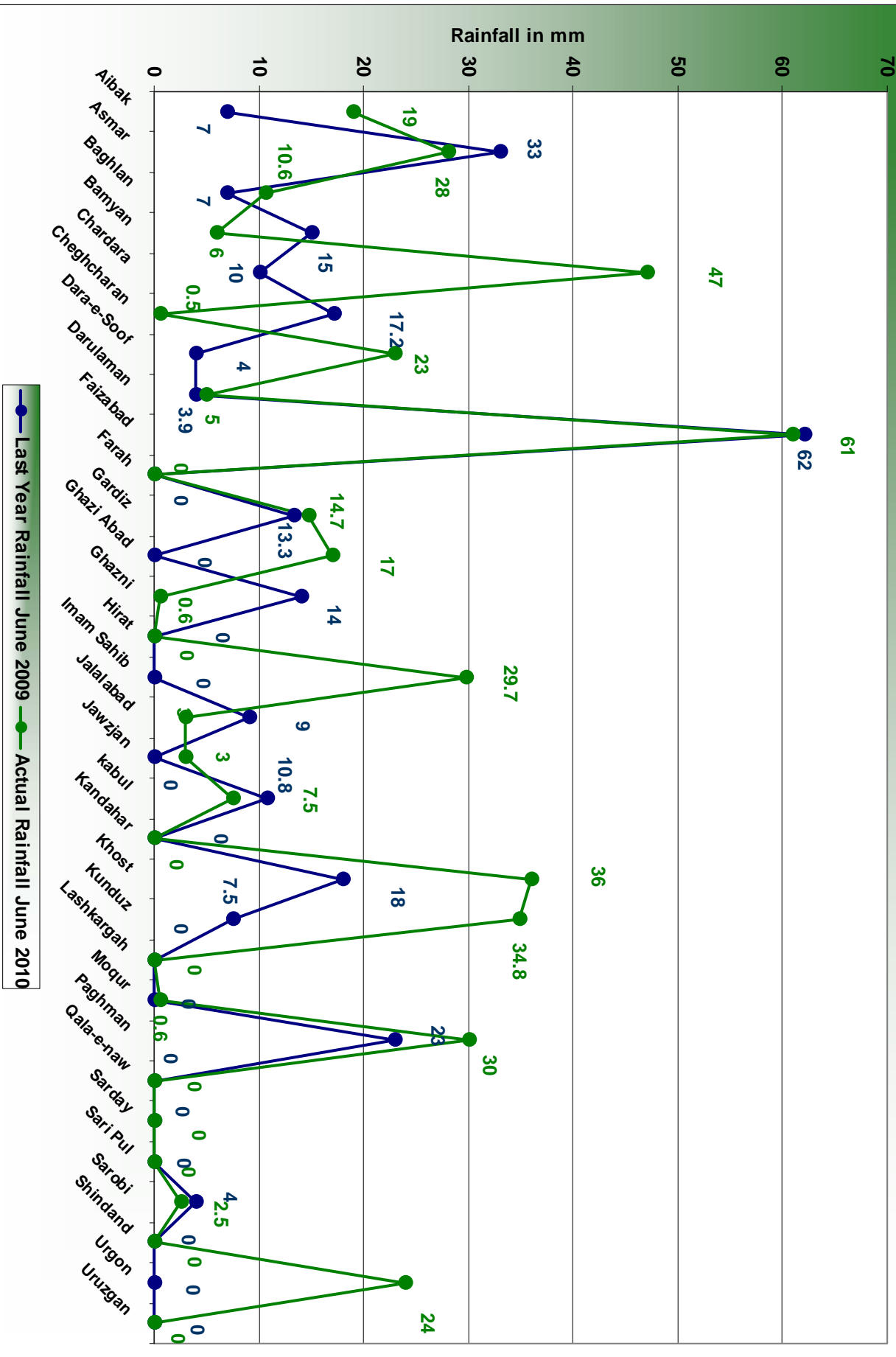
However rainfall distribution as usual was variable in different regions of the country, most amount of rainfall occurred in the Northeastern region.

The Eastern, Southeastern, Capital regions and some parts of the Northern region experienced moderate rainfall during June 2010, the Southern, Southwestern, and Western regions received low amount of rainfall or mostly was accompanied by dryness.



Comparison of Actual Rainfall June 2010 with the Same Month of Last Year

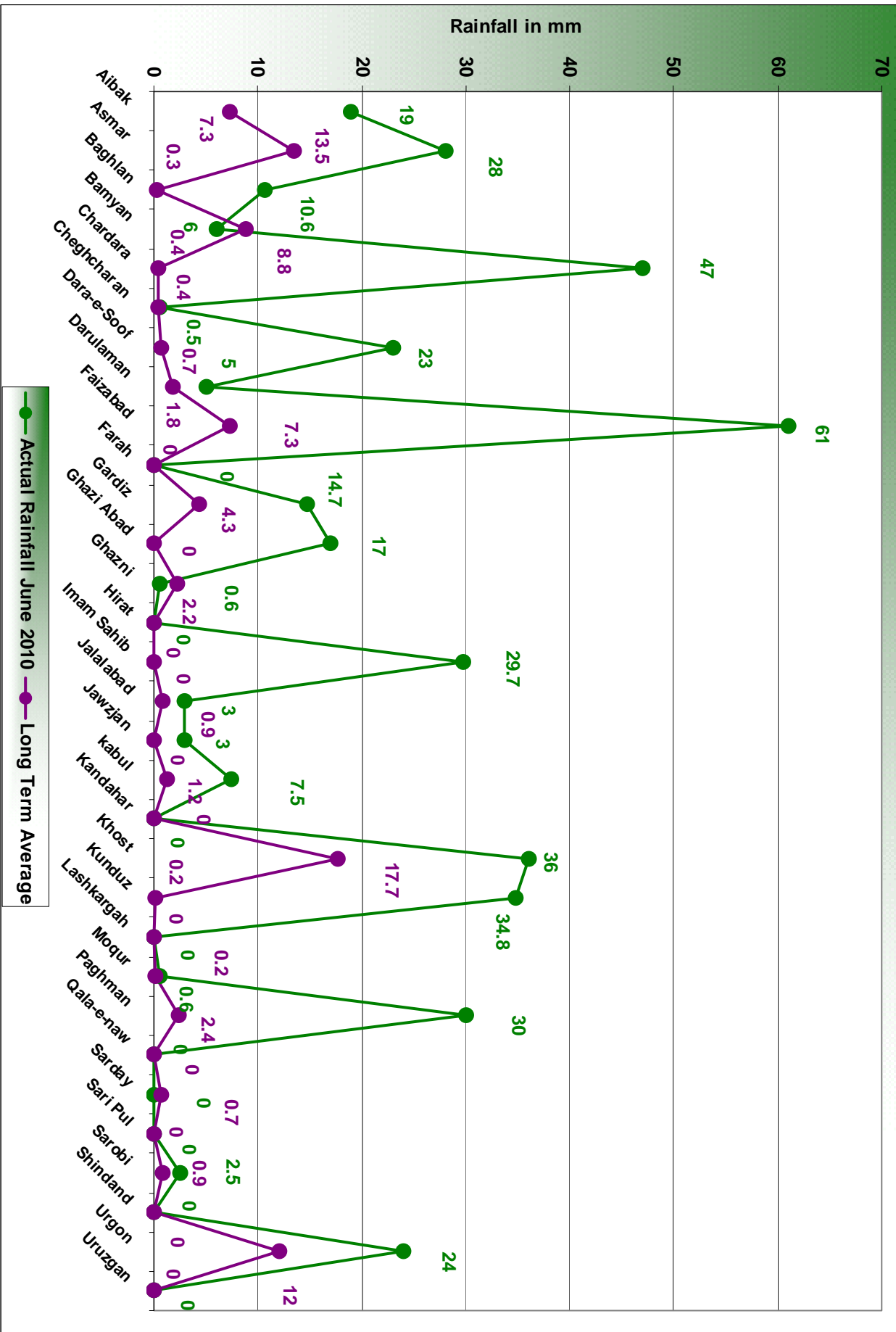
Chart 1





Comparison of Actual Rainfall June 2010 with the Same Month of Long Term Average

Chart 2



## Rainfall for the Month of June 2010

Table 1

Station	Last Year Rainfall June 2009	Actual Rainfall June 2010	Long Term Average
Aibak	7	19	7.3
Asmar	33	28	13.5
Baghlan	7	10.6	0.3
Bamyan	15	6	8.8
Chardara	10	47	0.4
Cheghcharan	17.2	0.5	0.4
Dara-e-Soof	4	23	0.7
Darulaman	3.9	5	1.8
Faizabad	62	61	7.3
Farah	0	0	0
Gardiz	13.3	14.7	4.3
Ghazi Abad	0	17	0
Ghazni	14	0.6	2.2
Hirat	0	0	0
Imam Sahib	0	29.7	0
Jalalabad	9	3	0.9
Jawzjan	0	3	0
kabul	10.8	7.5	1.2
Kandahar	0	0	0
Khost	18	36	17.7
Kunduz	7.5	34.8	0.2
Lashkargah	0	0	0
Moqur	0	0.6	0.2
Paghman	23	30	2.4
Qala-e-naw	0	0	0
Sarday	0	0	0.7
Sari Pul	0	0	0
Sarobi	4	2.5	0.9
Shindand	0	0	0
Urgon	0	24	12
Uruzgan	0	0	0

Comparison of Actual Rainy Days June 2010 with the Same Month of Last Year

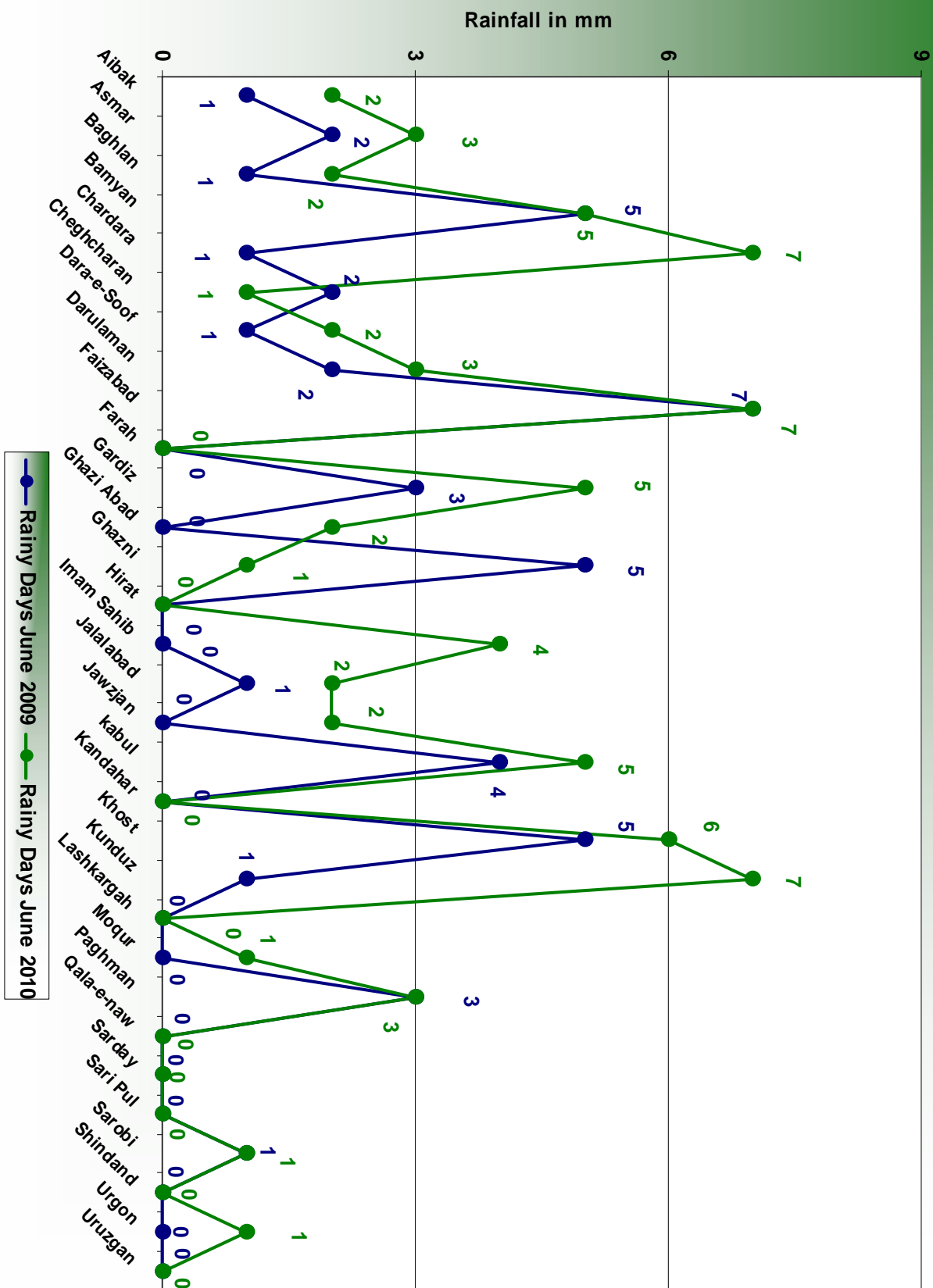
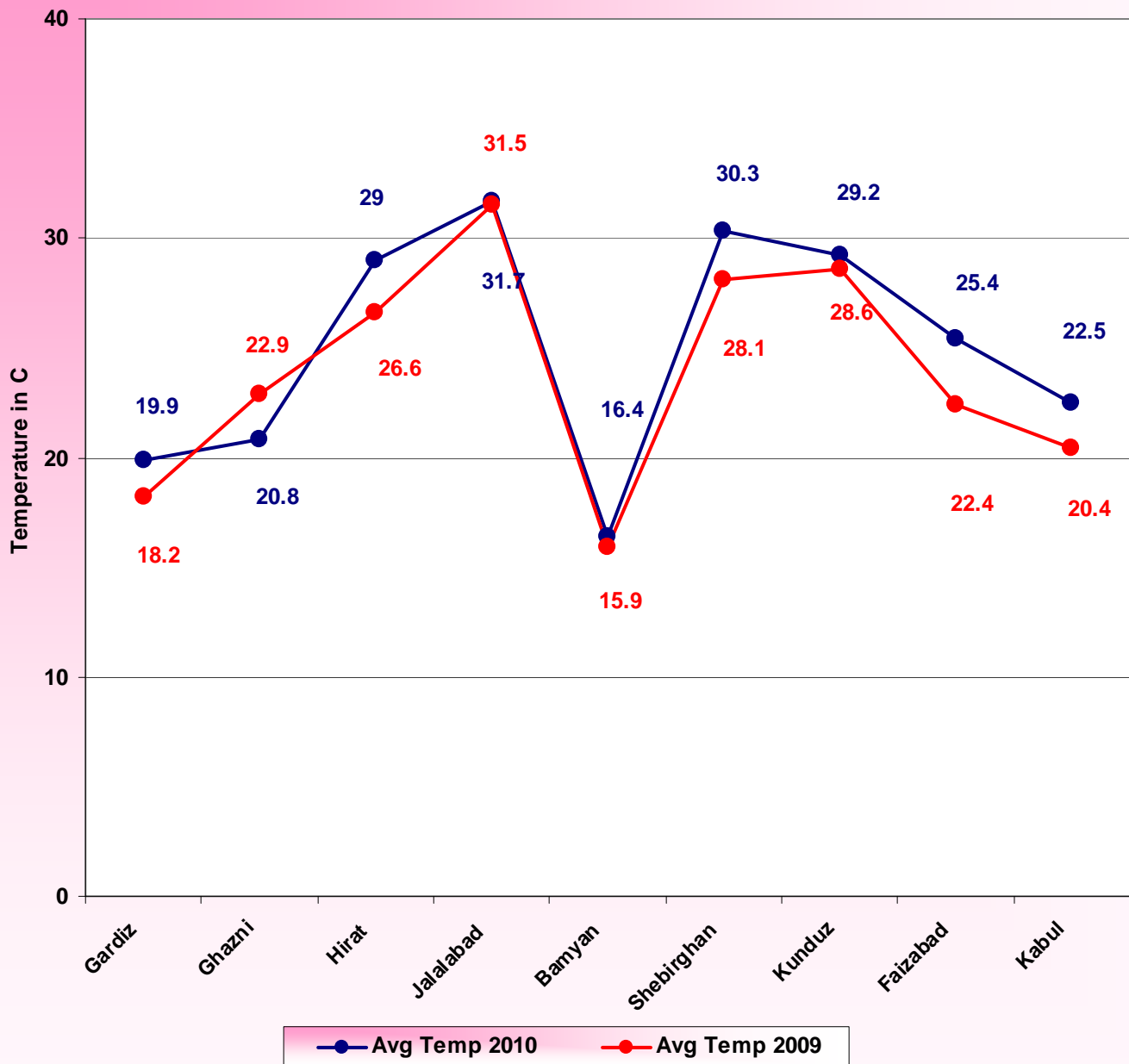


Chart 3

The country experienced more rainy days during June 2010 compared to the same month in 2009. As chart (3) shows rainy days had an increase in most parts of the

country during the month of June 2010 this year than the same month of last year except Cheghcheran and Gazni where rainy days had a decrease in this month.

Comparison of Average Temperature of 2009 and 2010



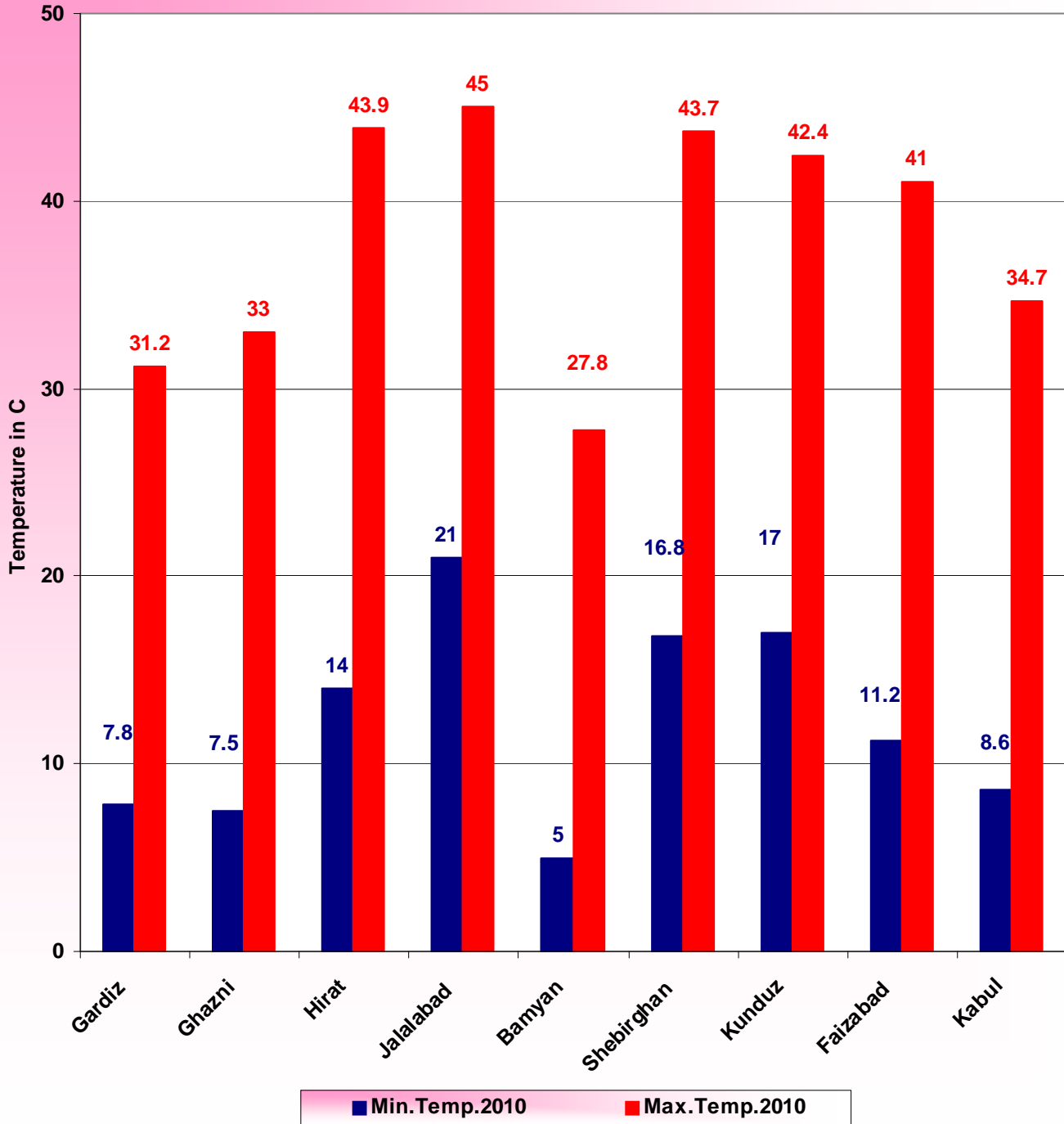
**During the month of June 2010, temperature was slightly lower than the same month of last year.**

Starting January 2010 up to May 2010 temperature was mostly higher compared to the same months of last year. The temperature had an increase in most parts of the country, and mostly temperature had positive departure, but during June 2010 the temperature was slightly lower than the same month of last year and was accompanied by negative departure in most parts.

Comparison of monthly average of temperature for the month of June 2010 with the same month in 2009 chart (4) shows small decrease of temperature during the month of June 2010 over the same month of last year in most parts of the country except Ghazni where temperature was slightly higher than the same month in 2009

Comparison of Minimum and Maximum Temperature of June 2010

Chart 5

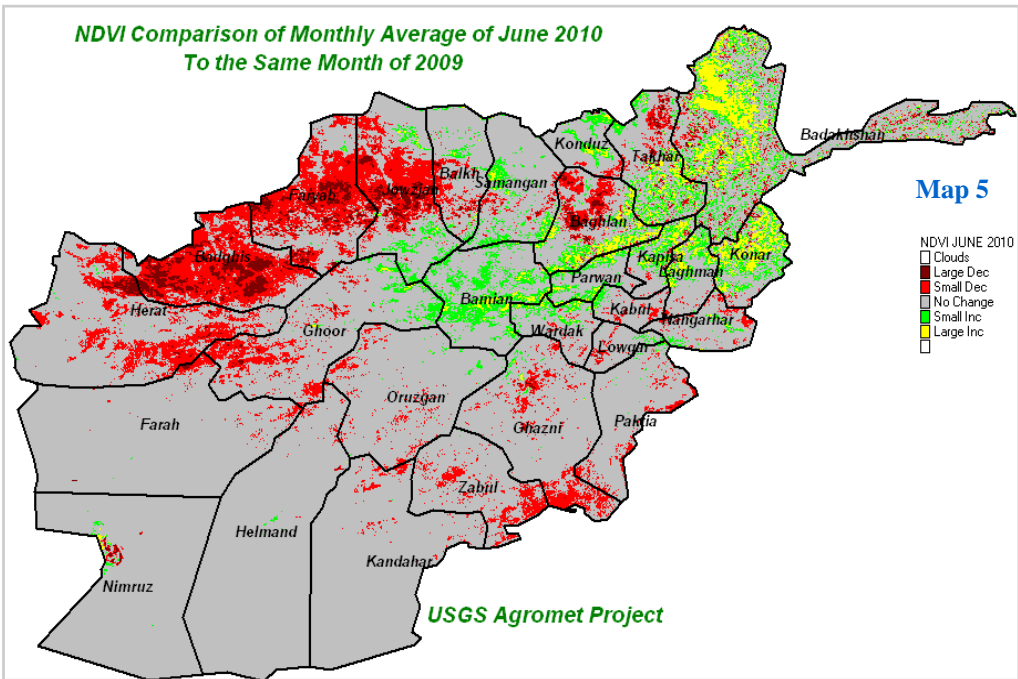


**Jalalabad with 45 C° was the warmest spot of the country during the month of June 2010.**

Chart (5) shows maximum and minimum temperatures for the month of June 2010. As chart (5) shows Jalalabad with 45 ° C was the warmest spot of the

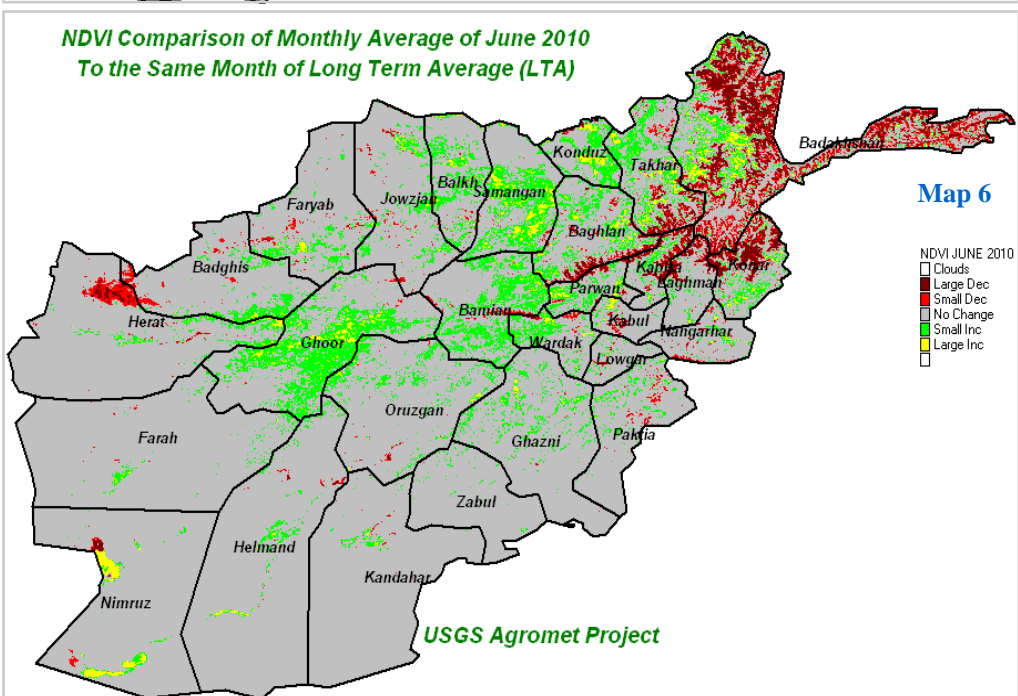
country during June and Bamyān with 5 ° C experienced lowest temperature.

NDVI Comparison of Monthly Average of June 2010 To the Same Month of 2009



Map 5

NDVI Comparison of Monthly Average of June 2010 To the Same Month of Long Term Average (LTA)



Map 6

Comparison of monthly average of NDVI for the month of June 2010 with the same month in 2009 Map (5) shows mostly large increase in the Northeastern region and some parts in the Eastern region during the month of June 2010 compared to the same month of last year, small increase of NDVI occurred in limited areas in the Central Highlands too. The Northern, Northwestern and some parts of the Western region experienced small decrease of NDVI during the month of June 2010 over the same month of last year. There is no change of NDVI in the remaining regions of the country during the month of June 2010 compared to the same month in 2009.

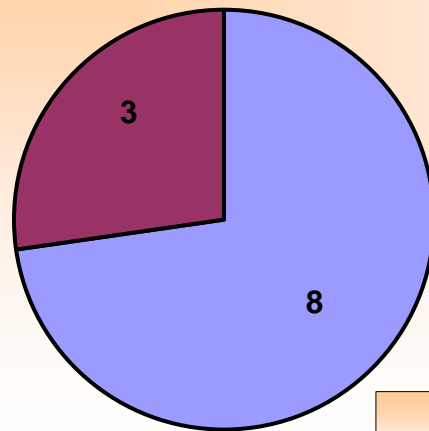
Comparison of monthly average of NDVI for the month of June 2010 with the same month of long term average Map (6) shows small increase of NDVI as separated in limited areas in the Central Highlands and some parts in the Northern region during the month of June 2010 over the same month of long term average and the same time mostly large decrease occurred in NDVI in the Northeastern and some parts in the Eastern regions too.

There is no change in NDVI in the remaining regions of the country during the month of June 2010 compared to the same month of long term average.

## Flood Information

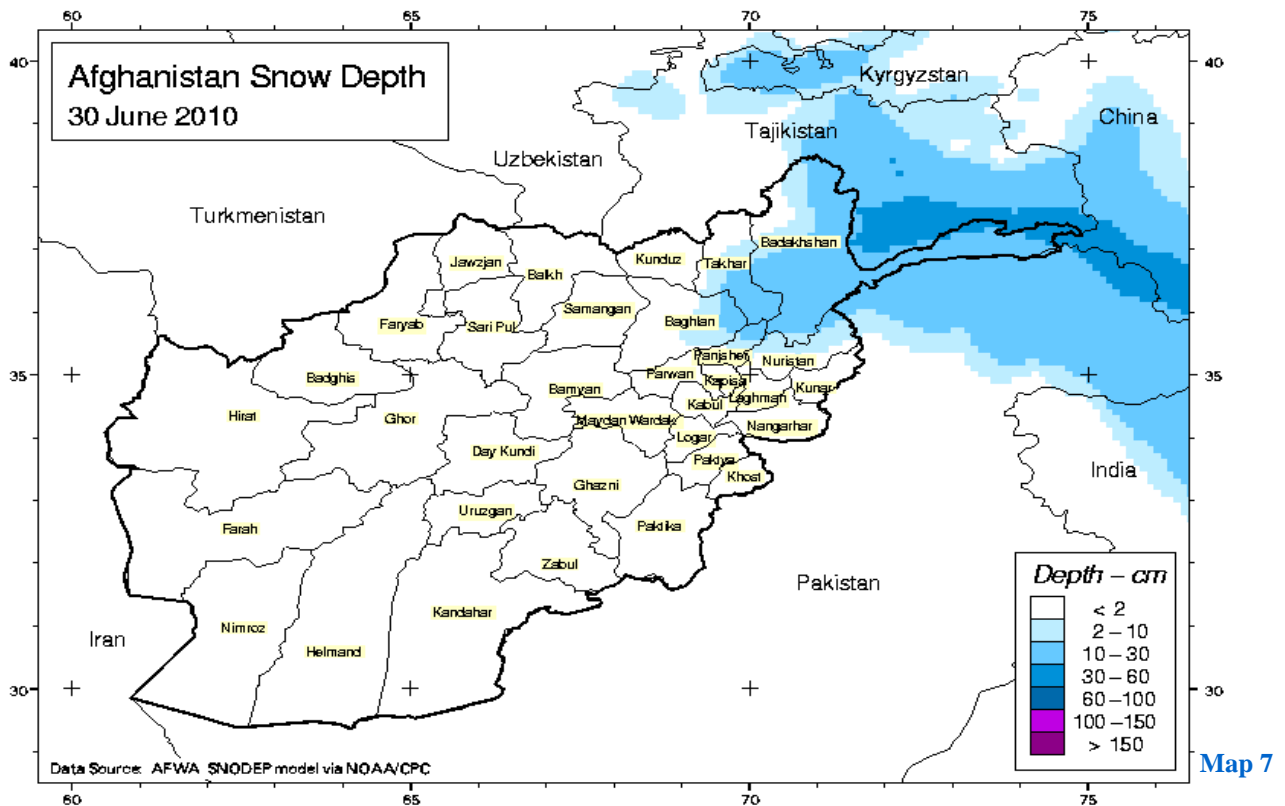
Date	Province	Damaged lands	Animal mortality
12 / June / 2010	Takhar	100 Jereb	
21 / June / 2010	Nangarhar	55 Jereb	
18 / June / 2010	Kunar	20 Jereb	

**Comparison of Historical Number of Floods in June to the Number of Reported Floods During June 2010**



■ Historical Floods in the Month of June  
■ Floods During June 2010

## Afghanistan Snow Depth for the of June 2010



The Northeastern region is mainly the snow covered area in the country, during the winter snow is being gathered in this region and usually reaming in the Northeastern high elevations for a long time, however rising temperature resulted rapid snow melt.

Map (7) show the existed snow pack in the Northeastern region, Map (7) shows existed snow in the end of June 2010 in the Northeastern region, which snow depth has been recorded 10 to 30 cm in above mentioned area.

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