

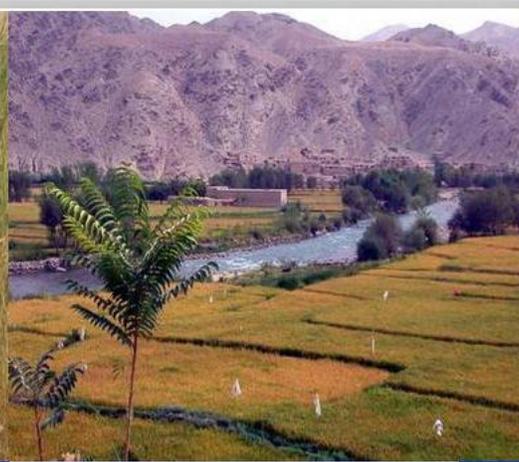
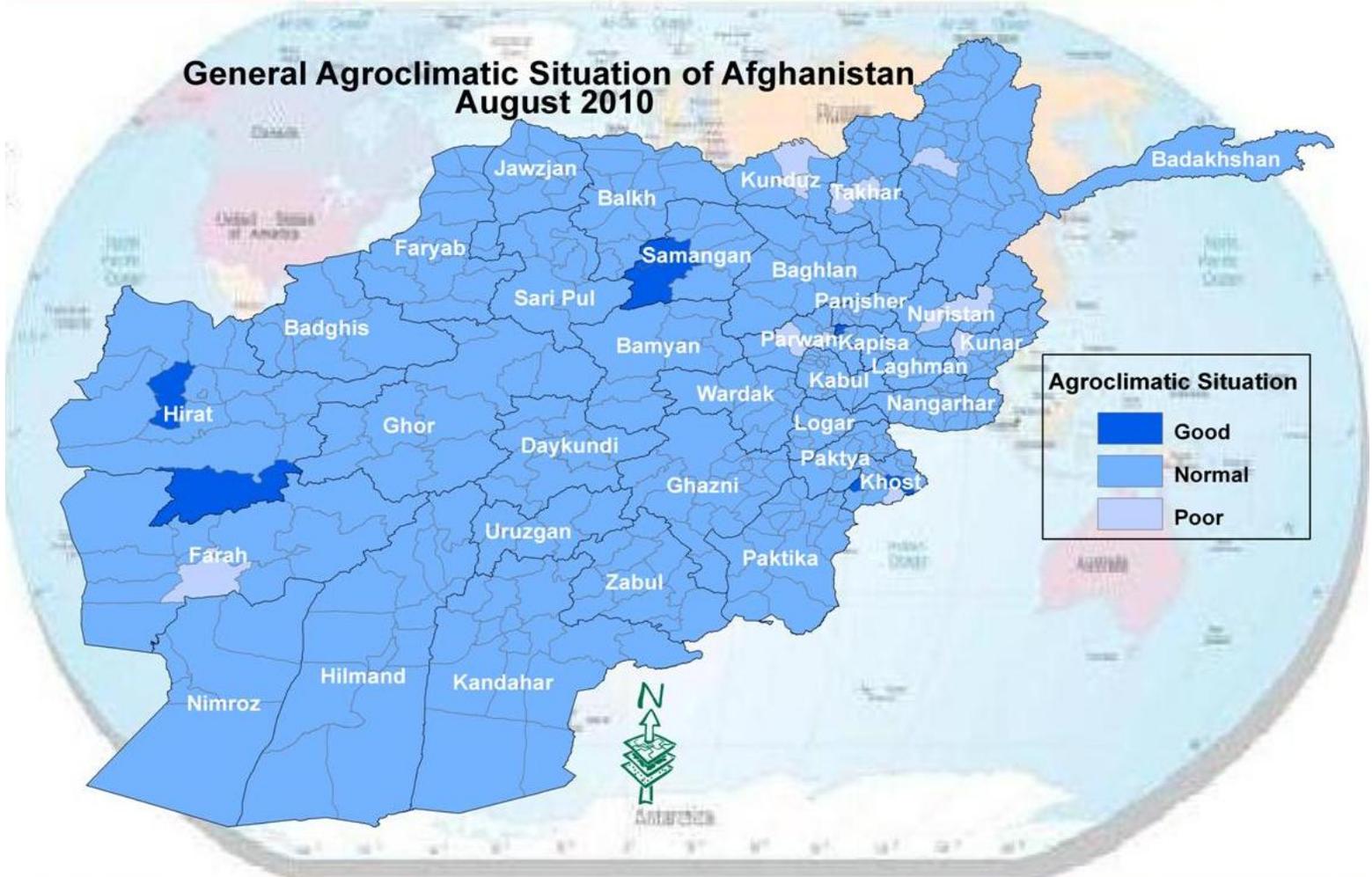


Issue No: 66  
August: 2010

# The **f**ghanistan grometeorological **AA**M Monthly Bulletin

Topics Crop Information Precipitation Temperature NDVI

## General Agroclimatic Situation of Afghanistan August 2010



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

The country received heavy rain during August and the rainfall recorded above average. The Eastern and Southeastern regions and some parts of the capital region experienced heavy rain, and some parts of the Northeastern region received moderate rain, while seasonal dryness continued in the rest of the country,

and no significant change occurred in temperature during August. Shiberghan and Mazar with 43.2 ° C were the warmest spots of the country, and lower temperature has been recorded 7.2 ° C in Bamyan province.

### Crop Stage, Crop Condition and Adverse Factor

| Zone    | Province     | District    | Station     | Wheat                           |                |                |                  |  |  |                  |        |             |
|---------|--------------|-------------|-------------|---------------------------------|----------------|----------------|------------------|--|--|------------------|--------|-------------|
|         |              |             |             | Crop Stage                      | Crop Condition | Adverse Factor |                  |  |  |                  |        |             |
| Central | Kabul        | Shakardara  | Karizmir    | <b>Harvested</b>                |                |                |                  |  |  |                  |        |             |
|         |              | Paghman     | Paghman     |                                 |                |                |                  |  |  |                  |        |             |
|         |              | Kabul       | Darulaman   |                                 |                |                |                  |  |  |                  |        |             |
|         |              | Surubi      | Surubi      |                                 |                |                |                  |  |  |                  |        |             |
|         | Panjsher     | Dara        | Dara        | <b>Ploughing (Winter Wheat)</b> |                |                |                  |  |  |                  |        |             |
|         |              | Dashtak     | Dashtak     |                                 |                |                |                  |  |  |                  |        |             |
|         | Parwan       | Syagerd     | Gor band    |                                 |                |                |                  |  |  |                  |        |             |
|         |              | Charikar    | Charikar    |                                 |                |                |                  |  |  |                  |        |             |
|         | Kapisa       | Mahmoodraqi | Mahmoodraqi |                                 |                |                |                  |  |  |                  |        |             |
|         |              | Kohistan    | Kohistan    |                                 |                |                |                  |  |  |                  |        |             |
|         | Wardak       | Chake       | Chake       |                                 |                |                | <b>Harvested</b> |  |  |                  |        |             |
|         |              | Jaghatoo    | Jaghatoo    |                                 |                |                |                  |  |  |                  |        |             |
|         | East Central | Bamyan      | Bamyan      |                                 |                |                |                  |  |  | Bamyan           |        |             |
|         |              |             | Yakawlang   |                                 |                |                |                  |  |  | Yakawlang        |        |             |
| Panjab  |              |             | Panjab      |                                 |                |                |                  |  |  |                  |        |             |
| Eastern | Noristan     | Paroon      | Paroon      |                                 |                |                |                  |  |  | Grain filling    | Normal | Weeds       |
|         |              | Duab        | Duab        |                                 |                |                |                  |  |  | Grain filling    | Normal | Not existed |
|         | Nangarhar    | Agam        | Agam        |                                 |                |                |                  |  |  | <b>Harvested</b> |        |             |
|         |              | Batikot     | Ghaziabad   |                                 |                |                |                  |  |  |                  |        |             |
|         |              | Jalalabad   | Sheshembagh |                                 |                |                |                  |  |  |                  |        |             |
|         |              | Asmar       | Asmar       |                                 |                |                |                  |  |  |                  |        |             |

## Crop Stage, Crop Condition and Adverse Factor

| Zone          | Province   | District   | Station          | Wheat                           |                |                    |
|---------------|------------|------------|------------------|---------------------------------|----------------|--------------------|
|               |            |            |                  | Crop Stage                      | Crop Condition | Adverse Factor     |
| Eastern       | Kunar      | Asmar      | Asmar            | <b>Harvested</b>                |                |                    |
|               |            | Asad Abad  | Asad Abad        |                                 |                |                    |
|               | Laghman    | Mihtarlam  | Mihtarlam        |                                 |                |                    |
|               | Noristan   | Paroon     | Paroon           | Grain filling                   | Normal         | Good rainfall      |
|               |            | Do Ab      | Do Ab            | Grain filling                   | Normal         | Good rainfall      |
| North Eastern | Takhar     | Bangi      | Bangi            | <b>Harvested</b>                |                |                    |
|               |            | Taluqan    | Taluqan          |                                 |                |                    |
|               | Kunduz     | Imam Sahib | Imam Sahib       |                                 |                |                    |
|               |            | Qaliazal   | Aqtipa           |                                 |                |                    |
|               |            | Chardara   | Chardara         |                                 |                |                    |
|               |            | Kunduz     | Kunduz           |                                 |                |                    |
|               | Ali Abad   | Ali Abad   |                  |                                 |                |                    |
|               | Baghlan    | Pulikhomri | Pozaishan        |                                 |                |                    |
|               | Badakhshan | Faiz Abad  | Faiz Abad        |                                 |                |                    |
|               |            | Argo       | Argo             | Grain filling                   | Normal         | Pests and diseases |
| Khash         |            | Khash      | <b>Harvested</b> |                                 |                |                    |
| Ashkashm      |            | Ashkashm   |                  |                                 |                |                    |
| South Eastern | Khost      | Khost      | Khost            | <b>Harvested</b>                |                |                    |
|               |            | Khost      | Shimal           |                                 |                |                    |
|               |            | Ali Sher   | Ali Sher         |                                 |                |                    |
|               | Paktia     | Zormat     | Rohani Baba      |                                 |                |                    |
|               |            | Gardiz     | Tera             |                                 |                |                    |
|               | Paktika    | Urgon      | Urgon            |                                 |                |                    |
|               |            | Sharana    | Sharana          |                                 |                |                    |
|               |            | Tera       | Tera             | <b>Ploughing (Winter Wheat)</b> |                |                    |
|               | Ghazni     | Muqur      | Muqur            |                                 |                |                    |
|               |            | Andar      | Bande Sardi      | <b>Harvested</b>                |                |                    |
| Southern      | Nimroz     | Zaranj     | Zaranj           |                                 |                |                    |
|               | Kandahar   | Kandahar   | Kandahar         |                                 |                |                    |
|               | Zabul      | Qalat      | Qalat            |                                 |                |                    |
|               | Urozgan    | Tirin Kot  | Tirin Kot        | <b>Harvested</b>                |                |                    |
|               | Hilmand    | Nad Ali    | Nad Ali          |                                 |                |                    |
|               |            | Greshk     | Greshk           |                                 |                |                    |
| Nawa          |            | Nawa       |                  |                                 |                |                    |
| Lashkargah    |            | Bolan      |                  |                                 |                |                    |

## Crop Stage, Crop Condition and Adverse Factor

| Zone            | Province        | District    | Station       | Wheat            |                |                |
|-----------------|-----------------|-------------|---------------|------------------|----------------|----------------|
|                 |                 |             |               | Crop Stage       | Crop Condition | Adverse Factor |
| <b>Northern</b> | <b>Balkh</b>    | Takhta pol  | Dihdadi       | <b>Harvested</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   | Dara Souf     |                  |                |                |
| Sar bagh        |                 | Sarbagh     |               |                  |                |                |
| <b>Western</b>  | <b>Badghis</b>  | Qalainow    | Qalainow      |                  |                |                |
|                 |                 | Muqur       | Muqur         |                  |                |                |
|                 | <b>Ghor</b>     | Chaghcharan | Chaghcharan   |                  |                |                |
|                 | <b>Hirat</b>    | Shindand    | Shindand      |                  |                |                |
|                 |                 | Zindajan    | Zindajan      |                  |                |                |
|                 |                 | Gwazara     | Falahat       |                  |                |                |
|                 |                 | Hirat       | Farm Urdokhan |                  |                |                |
|                 | <b>Farah</b>    | Farah       | Farah         |                  |                |                |

## Crop Stage, Crop Condition and Adverse Factor

| Zone           | Province        | District         | Station     | Maize         |                |                |
|----------------|-----------------|------------------|-------------|---------------|----------------|----------------|
|                |                 |                  |             | Crop Stage    | Crop Condition | Adverse Factor |
| <b>Central</b> | <b>Kabul</b>    | Surubi           | Surubi      | Flowering     | Good           | Not existed    |
|                |                 | Shaker dara      | Shaker dara | Flowering     | Normal         | Not existed    |
|                | <b>Parwan</b>   | Charikar         | Charikar    | Grain filling | Normal         | Good rain fall |
|                |                 | Syagerd          | Syagerd     | Flowering     | Normal         | Late planting  |
|                | <b>Panjshir</b> | Dashtak          | Dashtak     | Grain filling | Normal         | Not existed    |
|                | <b>Kapisa</b>   | Kapisa           | Mahmod Raqi | Vegetative    | Normal         | Not existed    |
|                |                 | Kohistan         | Kohistan    | Grain filling | Good           | Not existed    |
|                | <b>Eastern</b>  | <b>Nangarhar</b> | Agam        | Agam          | Grain filling  | Normal         |
| Batikot        |                 |                  | Ghazi Abad  | Emergence     | Normal         | Not existed    |
| Jalalabad      |                 |                  | Sheshembagh | Flowering     | Normal         | Not existed    |
| Jalalabad      |                 |                  | Farm Jadeed | Grain filling | Normal         | Good rain fall |

## Crop Stage, Crop Condition and Adverse Factor

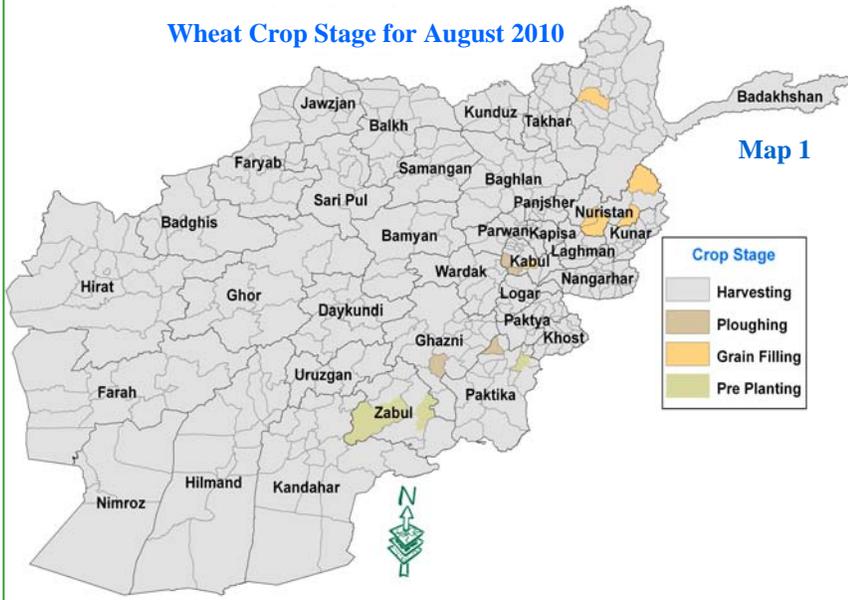
| Zone          | Province      | District       | Station     | Maize            |                |                  |
|---------------|---------------|----------------|-------------|------------------|----------------|------------------|
|               |               |                |             | Crop Stage       | Crop Condition | Adverse Factor   |
| Eastern       | Kunar         | Asmar          | Asmar       | vegetative       | Normal         | Poor Rain fall   |
|               |               | Asadabad       | Asadabad    | Flowering        | Normal         | Good rain fall   |
|               | Noristan      | Paroon         | Paroon      | Grain filling    | Normal         | Good rain fall   |
|               |               | Waigal         | Waigal      | Flowering        | Normal         | Good rain fall   |
|               |               | Norgaram       | Norgaram    | Flowering        | Normal         | Good rain fall   |
|               |               | Do Ab          | Do Ab       | Grain filling    | Normal         | Good rain fall   |
| North Eastern | Kunduz        | Imam Sahib     | Imam Sahib  | Flowering        | Normal         | Pest and disease |
|               |               | Qala - e - Zal | Aqtipa      | Planting         | Normal         | Not existed      |
|               |               | Chardara       | Chardara    | Planting         | Normal         | Not existed      |
|               |               | Kunduz         | Kunduz      | Flowering        | Normal         | Pest and disease |
|               |               | Ali Abad       | Ali Abad    | Planting         | Normal         | Not existed      |
|               | Takhar        | bangi          | Bangi       | Flowering        | Good           | Weeds            |
|               |               | Taloqan        | Taloqan     | Flowering        | Good           | Weeds            |
|               | Baghlan       | Polikhomri     | Poza ieshan | Vegetative       | Normal         | Not existed      |
|               |               | Polikhomri     | Polikhomri  | Vegetative       | Normal         | Not existed      |
|               | South Eastern | Khost          | Khost       | Khost            | Vegetative     | Good             |
| Khost         |               |                | Shimal      | Flowering        | Good           | Good rain fall   |
| Ali Sher      |               |                | Ali Sher    | Flowering        | Poor           | Good rain fall   |
| Paktia        |               | Zormat         | Rohani Baba | Flowering        | Normal         | Not existed      |
|               |               | Gardiz         | Tera        | Flowering        | Good           | Not existed      |
| Paktika       |               | Urgon          | Urgon       | Grain filling    | Normal         | Not existed      |
|               |               | Sharana        | Sharana     | Grain filling    | Normal         | Not existed      |
| Southern      | Hilmand       | Nad Ali        | Nad Ali     | Vegetative       | Normal         | Not existed      |
|               |               | Greshk         | Greshk      | Vegetative       | Normal         | Not existed      |
|               |               | Nawa           | Nawa        | Vegetative       | Normal         | Not existed      |
|               |               | Lashkargah     | Bolan       | Flowering        | Normal         | Not existed      |
|               | Urozgan       | Urozgan        | Urozgan     | Emergence        | Normal         | Not existed      |
| Northern      | Samangan      | Dara Souf      | Dara Souf   | Vegetative       | Good           | Not existed      |
|               |               | Sar bagh       | Sar bagh    | Grain filling    | Normal         | Not existed      |
| Western       | Hirat         | Shendand       | Shendand    | Grain filling    | Normal         | Not existed      |
|               |               | Zenda jan      | Zenda jan   | <b>Harvested</b> |                |                  |
|               | Farah         | Farah          | Farah       | Flowering        | Normal         | Poor rainfall    |
|               | Ghazni        | Moqur          | Muqur       | Vegetative       | Normal         | Not existed      |

## Crop Stage, Crop Condition and Adverse Factor

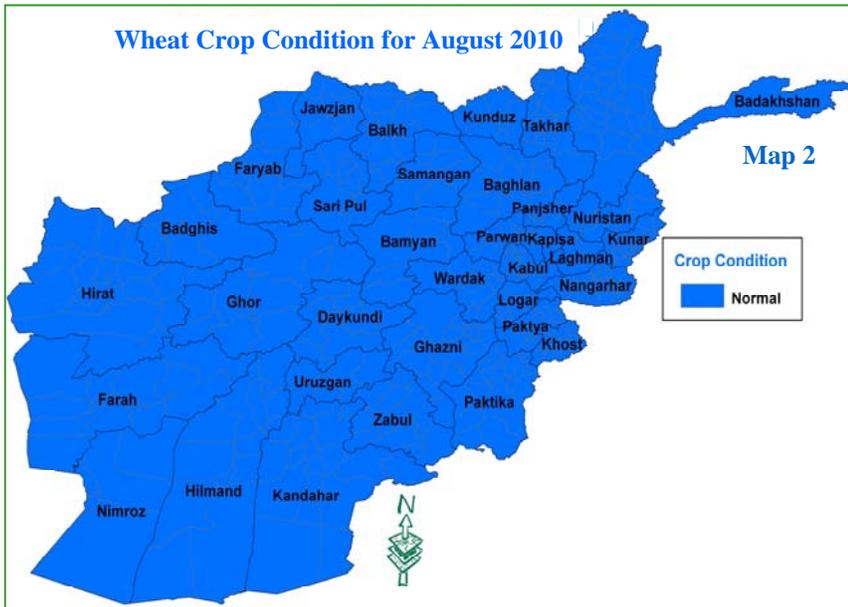
| Zone                 | Province             | District     | Station     | Rice             |                |                  |
|----------------------|----------------------|--------------|-------------|------------------|----------------|------------------|
|                      |                      |              |             | Crop Stage       | Crop Condition | Adverse Factor   |
| <b>Central</b>       | <b>Kabul</b>         | Sarubi       | Sarubi      | Flowering        | Normal         | Not existed      |
| <b>Eastern</b>       | <b>Nangarhar</b>     | Agam         | Agam        | Flowering        | Normal         | Not existed      |
|                      |                      | Batikot      | Ghazi Abad  | Emergence        | Normal         | Not existed      |
|                      |                      | Jalalabad    | Sheshembagh | Vegetative       | Normal         | Not existed      |
|                      |                      | Jalalabad    | Farm Jadeed | Grain filling    | Normal         | Weeds            |
|                      | <b>Kunar</b>         | Asmar        | Asmar       | Emergence        | Normal         | Pest and disease |
|                      |                      | Asad Abad    | Asad Abad   | Flowering        | Normal         | Good rain fall   |
|                      | <b>Laghman</b>       | Mihtarlam    | Mihtarlam   | Flowering        | Normal         | Not existed      |
| <b>North Eastern</b> | <b>Kunduz</b>        | Imam Sahib   | Imam Sahib  | Flowering        | Normal         | Weeds            |
|                      |                      | Qaliazal     | Aqtipa      | Flowering        | Normal         | Weeds            |
|                      |                      | Chardara     | Chardara    | Flowering        | Normal         | Not existed      |
|                      |                      | Kunduz       | Kunduz      | Flowering        | Normal         | Weeds            |
|                      |                      | Khan Abad    | Khan Abad   | Grain filling    | Normal         | Not existed      |
|                      |                      | Ali Abad     | Ali Abad    | Flowering        | Normal         | Not existed      |
|                      | <b>Takhar</b>        | Bangi        | Bangi       | Flowering        | Normal         | Weeds            |
|                      |                      | Taloqan      | Taloqan     | Flowering        | Normal         | Weeds            |
|                      | <b>Baghlan</b>       | Taloqan      | Taloqan     | Flowering        | Normal         | Not existed      |
|                      |                      | Polikhomri   | Polikhomri  | Vegetative       | Normal         | Not existed      |
|                      |                      | Pozaishan    | Pozaishan   | Emergence        | Normal         | Not existed      |
|                      | <b>South Eastern</b> | <b>Khost</b> | Khost       | Khost            | Vegetative     | Good             |
| Khost                |                      |              | Shimal      | Emergence        | Good           | Good rain fall   |
| Ali Sher             |                      |              | Ali Sher    | Flowering        | Normal         | Good rain fall   |
| <b>Southern</b>      | <b>Urozgan</b>       | Urozgan      | Urozgan     | Emergence        | Normal         | Not existed      |
| <b>Western</b>       | <b>Hirat</b>         | Shendand     | Shendand    | Grain filling    | Normal         | Not existed      |
|                      |                      | Zenda jan    | Zenda jan   | <b>Harvested</b> |                |                  |

# Wheat Crop Stage, Condition and Adverse Factor Maps

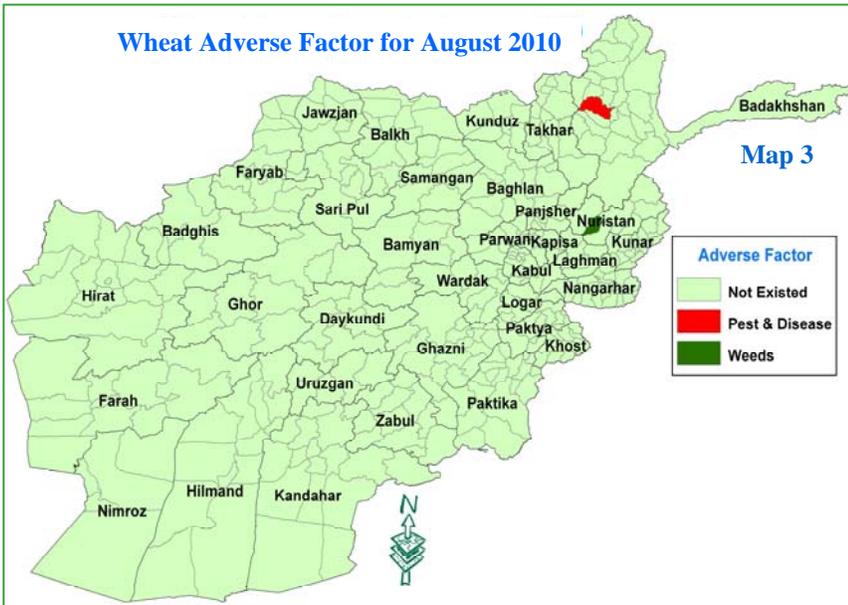
Wheat Crop Stage for August 2010



Wheat Crop Condition for August 2010

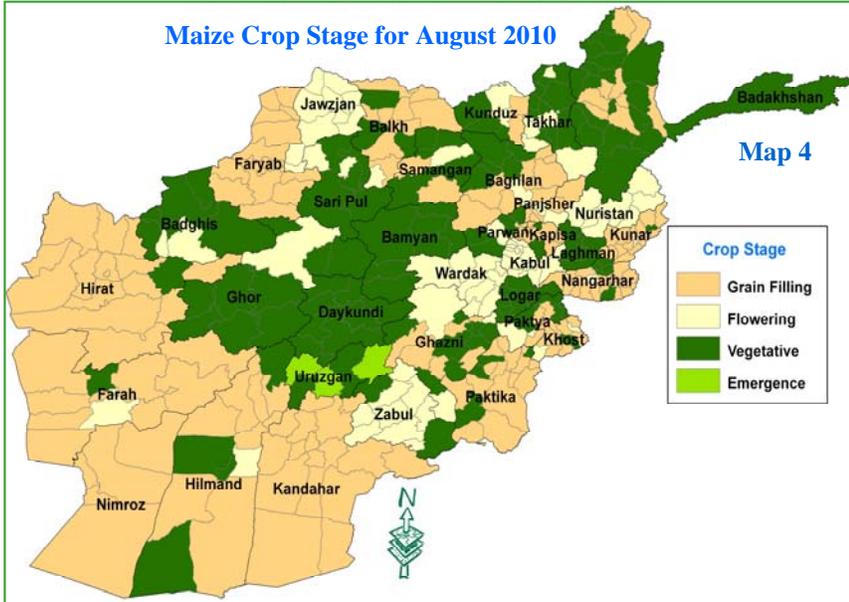


Wheat Adverse Factor for August 2010

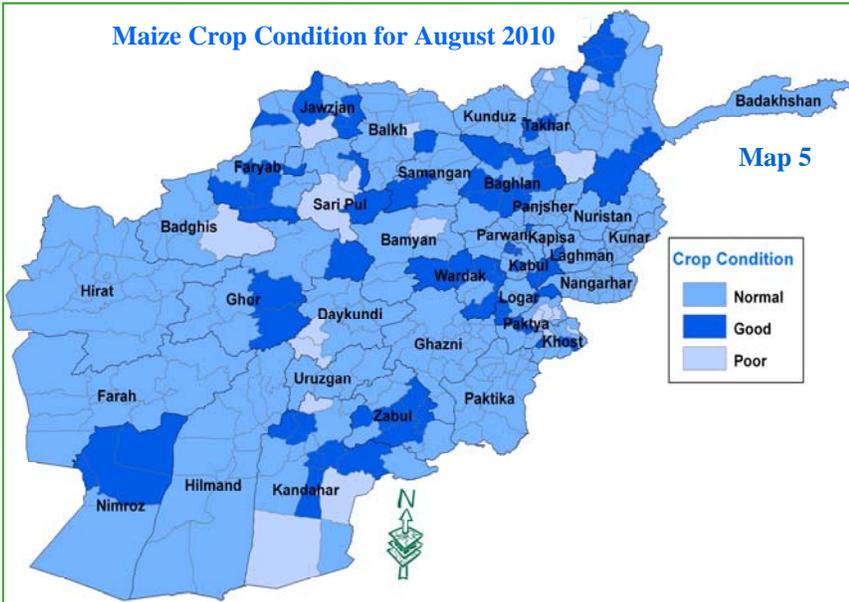


# Maize Crop Stage, Condition and Adverse Factor Maps

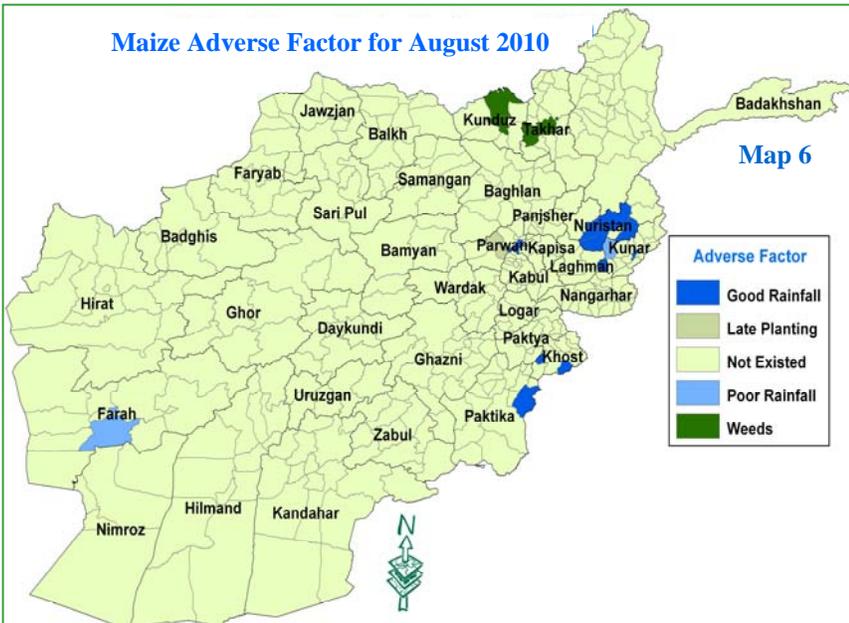
Maize Crop Stage for August 2010



Maize Crop Condition for August 2010

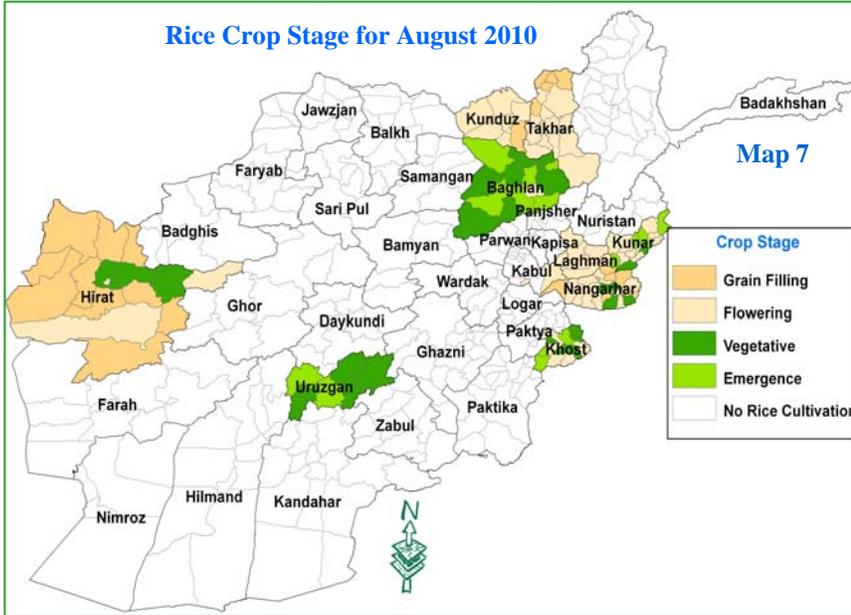


Maize Adverse Factor for August 2010

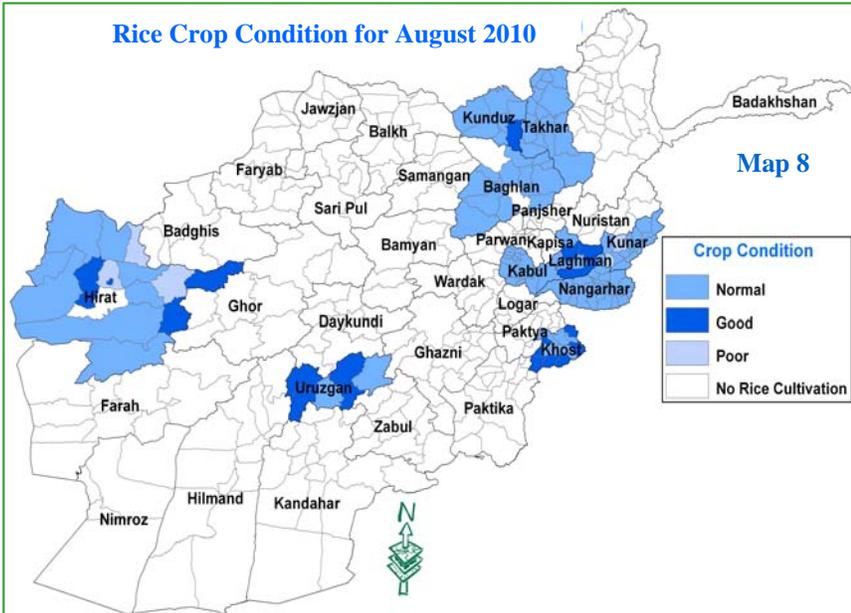


# Rice Crop Stage, Condition and Adverse Factor Maps

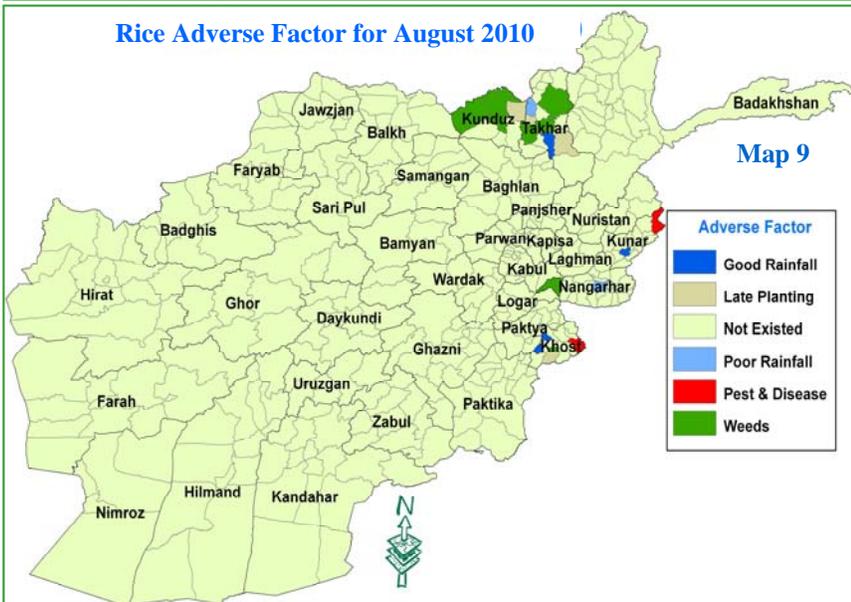
Rice Crop Stage for August 2010



Rice Crop Condition for August 2010



Rice Adverse Factor for August 2010



## Precipitation

At the result of seasonal monsoon, heavy precipitation continued in the country during the month of August 2010, which resulted unusual heavy rainfall in most parts of the country. The Eastern region, Southeastern, and some parts of the Capital region has received above normal precipitation in this month. Heavy rainfall during August 2010 caused some problems to the farmers and people for example, flash flooding which has destroyed considerable Agricultural lands in above mentioned regions.

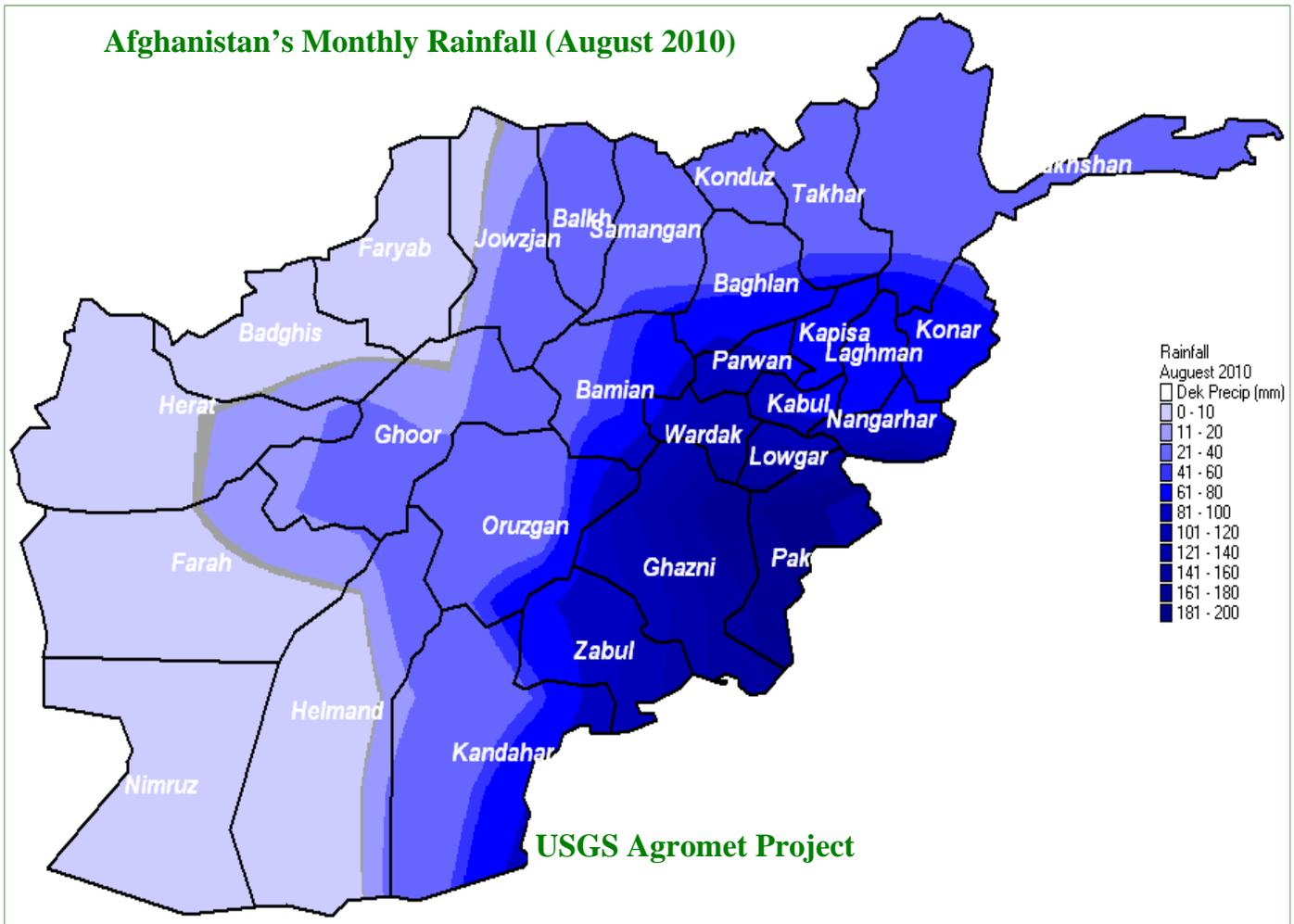
Comparison of rainfall data for the month of August 2010 with the same month in 2009 (chart 1) shows significant increase of rainfall in most parts of the country particularly in the Eastern region, Southeastern and Capital region during the month of August 2010 over the same month of last year.

Significant increasing of rainfall during the month of August 2010 was unusual in the long time of recent years.

Comparison of rainfall data for the month of August 2010 with the same month of long term average (chart 2), shows significant increase of rainfall during the month of August 2010 over the same month of long term average.

Distribution of rainfall as usual was variable in different provinces of the country.

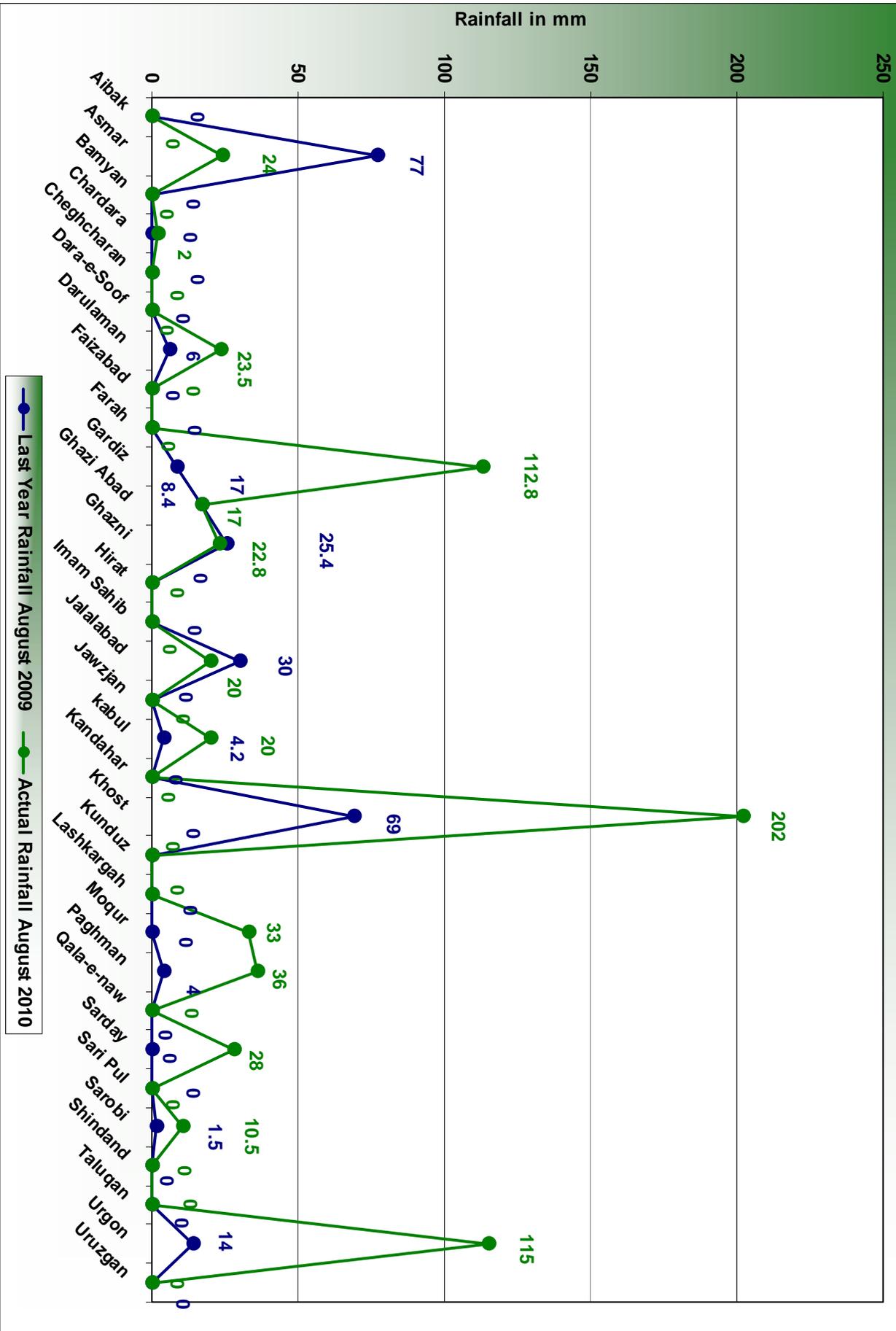
As map (10) shows the Eastern and Southeastern regions and some parts of the capital region has experienced heavy rain, while some parts of the Northeastern region received moderate rain, seasonal dryness continued in the rest of the country.



# Rainfall Graphs for the Month of August 2010

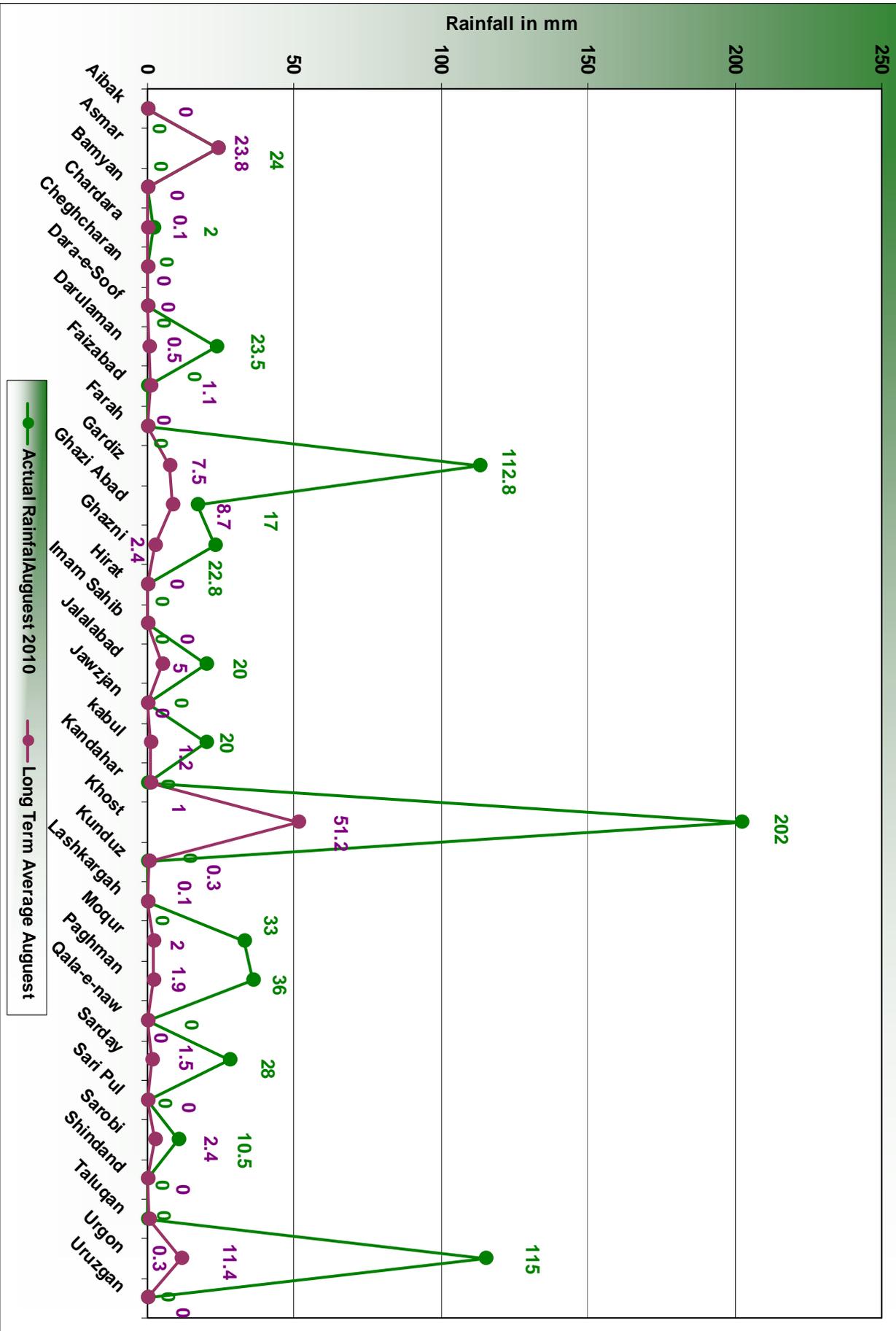
Comparison of Actual Rainfall August 2010 with the Same Month of Last Year

Chart 1



Comparison of Actual Rainfall August 2010 with the Same month of Long Term Average

Chart 2



## Rainfall for the Month of August 2010

Table 1

| Station     | Last Year Rainfall August 2009 | Actual Rainfall August 2010 | Long Term Average August |
|-------------|--------------------------------|-----------------------------|--------------------------|
| Aibak       | 0                              | 0                           | 0                        |
| Asmar       | 77                             | 24                          | 23.8                     |
| Bamyan      | 0                              | 0                           | 0                        |
| Chardara    | 0                              | 2                           | 0.1                      |
| Cheghcharan | 0                              | 0                           | 0                        |
| Dara-e-Soof | 0                              | 0                           | 0                        |
| Darulaman   | 6                              | 23.5                        | 0.5                      |
| Faizabad    | 0                              | 0                           | 1.1                      |
| Farah       | 0                              | 0                           | 0                        |
| Gardiz      | 8.4                            | 112.8                       | 7.5                      |
| Ghazi Abad  | 17                             | 17                          | 8.7                      |
| Ghazni      | 25.4                           | 22.8                        | 2.4                      |
| Hirat       | 0                              | 0                           | 0                        |
| Imam Sahib  | 0                              | 0                           | 0                        |
| Jalalabad   | 30                             | 20                          | 5                        |
| Jawzjan     | 0                              | 0                           | 0                        |
| kabul       | 4.2                            | 20                          | 1.2                      |
| Kandahar    | 0                              | 0                           | 1                        |
| Khost       | 69                             | 202                         | 51.2                     |
| Kunduz      | 0                              | 0                           | 0.3                      |
| Lashkargah  | 0                              | 0                           | 0.1                      |
| Moqur       | 0                              | 33                          | 2                        |
| Paghman     | 4                              | 36                          | 1.9                      |
| Qala-e-naw  | 0                              | 0                           | 0                        |
| Sarday      | 0                              | 28                          | 1.5                      |
| Sari Pul    | 0                              | 0                           | 0                        |
| Sarobi      | 1.5                            | 10.5                        | 2.4                      |
| Shindand    | 0                              | 0                           | 0                        |
| Taluqan     | 0                              | 0                           | 0.3                      |
| Urgon       | 14                             | 115                         | 11.4                     |
| Uruzgan     | 0                              | 0                           | 0                        |

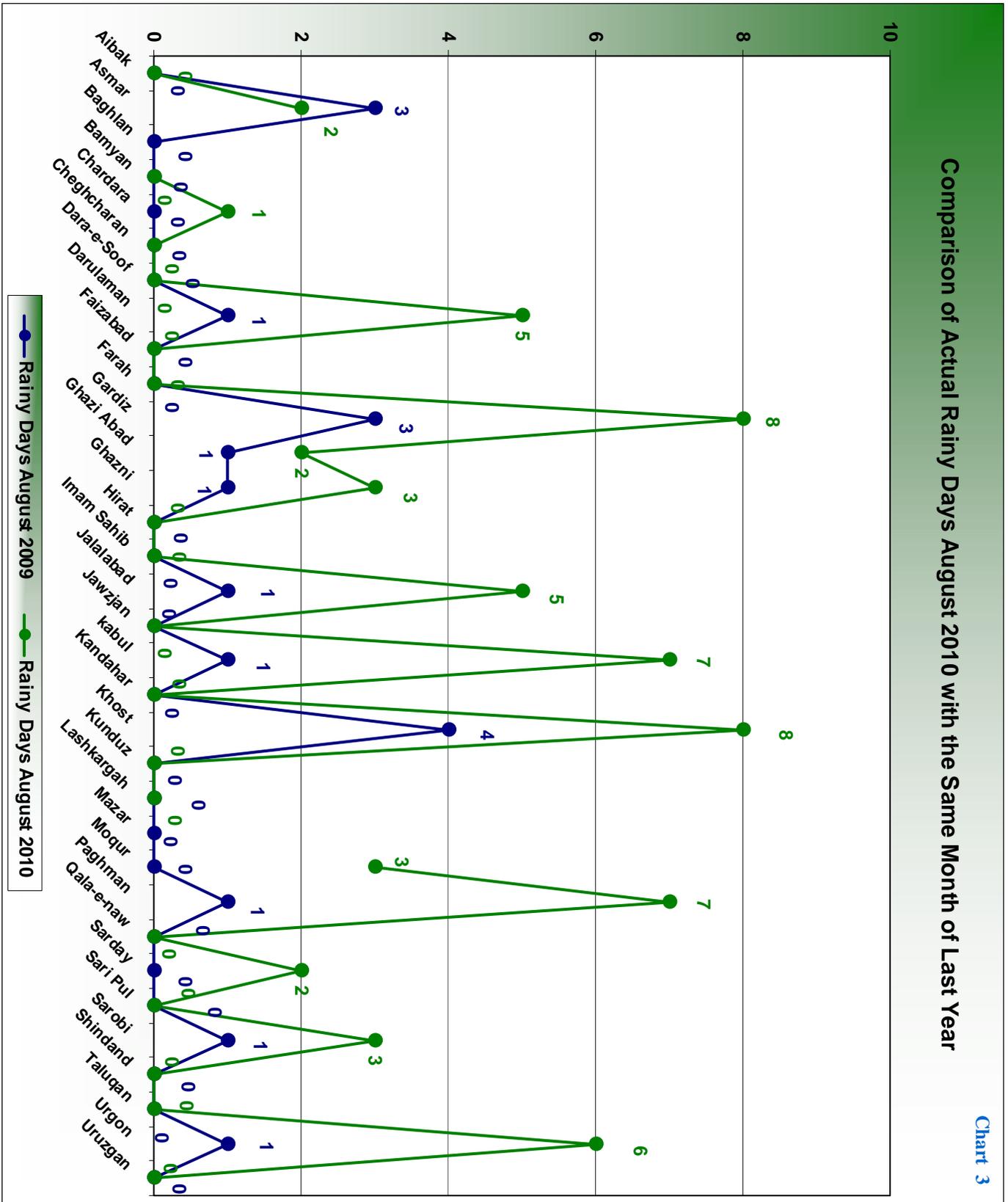


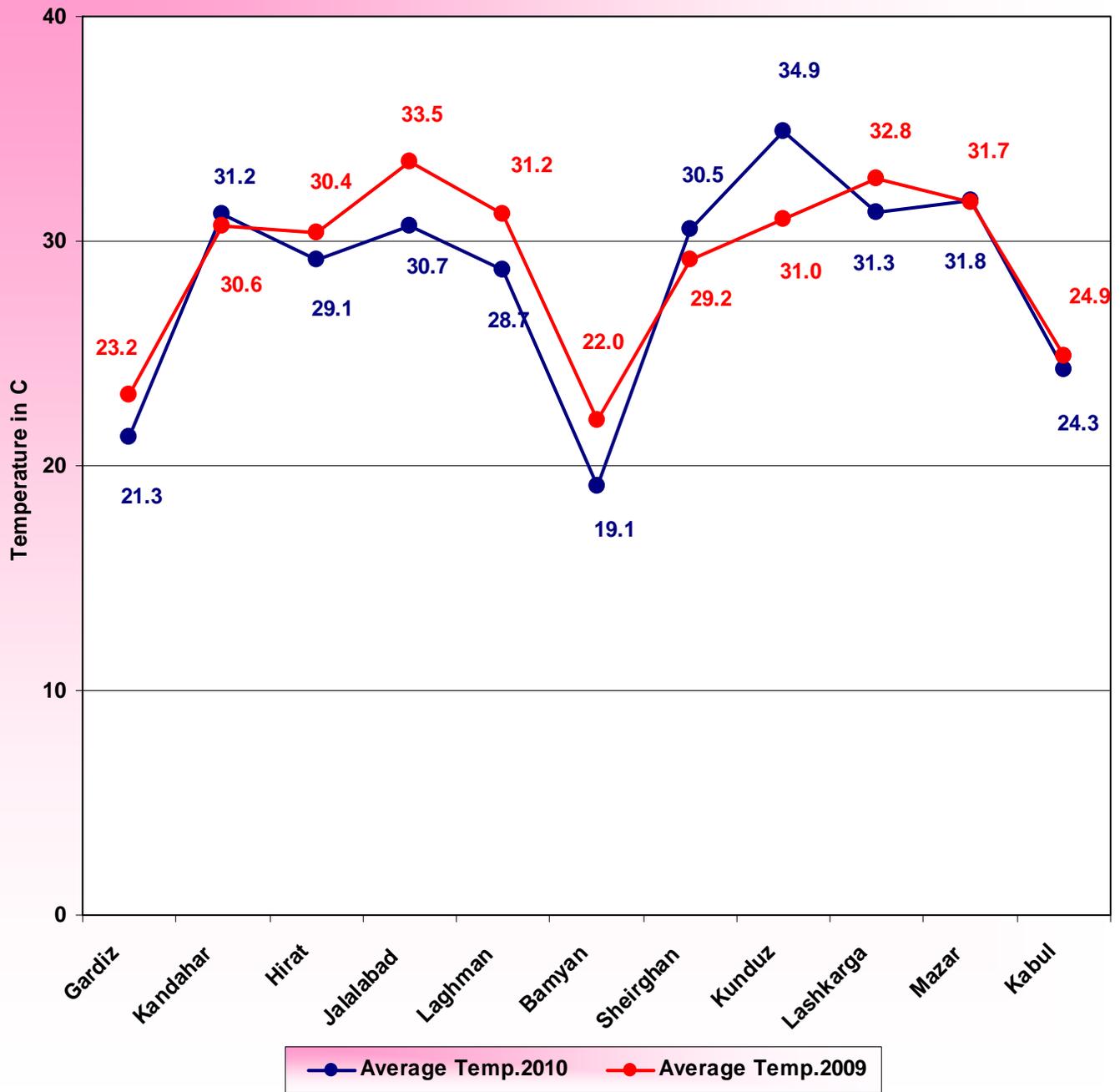
Chart 3

In the month of August 2010 Afghanistan experienced more rainy days than last year and even more than the normal time. particularly in the Eastern region, Southeastern and Capital region.

Comparison of rainy days for the month of August 2010 with the same month in 2009 (chart 3) shows significant increase of rainy days during the month of August 2010 over the same month of last year.

Chart 4

Comparison of average Temperature of August 2010 and 2009

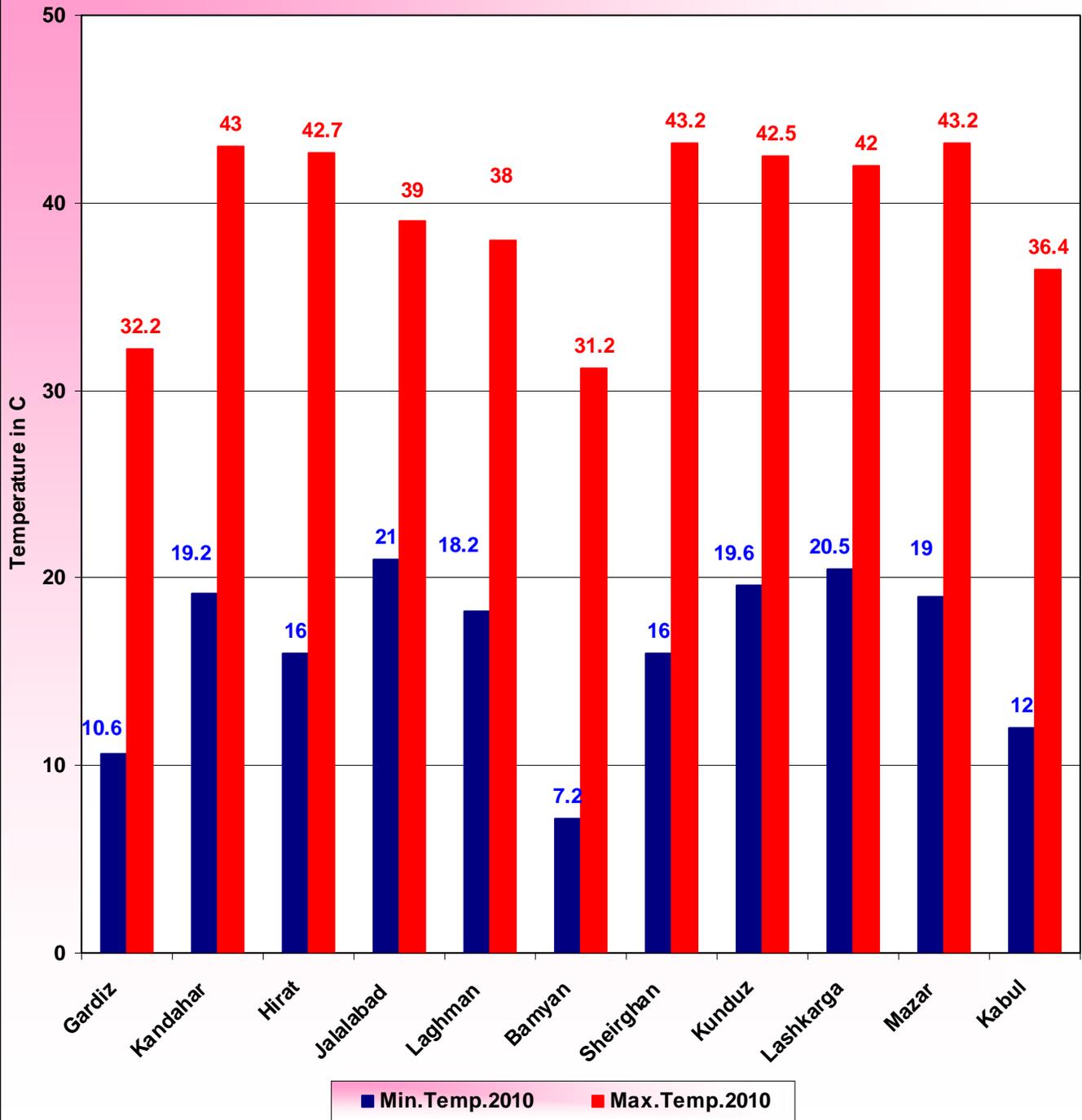


**Temperature had an increase in some parts during the month of August 2010.**

Comparison of monthly average of temperature for the month of August 2010 with the same month in 2009 (chart 4) shows variable situation around the country and no significant change has been occurred in temperature during the month of August, but

temperature had an increase in some parts of the country during the month of August 2010 over the same month of last year, while temperature had a decrease in other parts of the country.

Comparison of Minimum and Maximum Temperature of August 2010 Chart 5



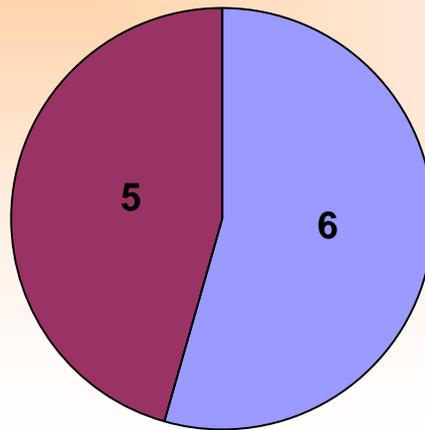
**Shiberghān and Mazar with 43.2 ° C was the warmest spot of the country during the month of August 2010.**

Chart (5) shows maximum and minimum temperature for the month of August 2010. As chart (5) shows Shiberghān and Mazar with 43.2 ° C was the warmest spots of the country during the month of August 2010 and Bamyān with 7.2 ° C experienced lowest temperature in this month.

## Flood Information

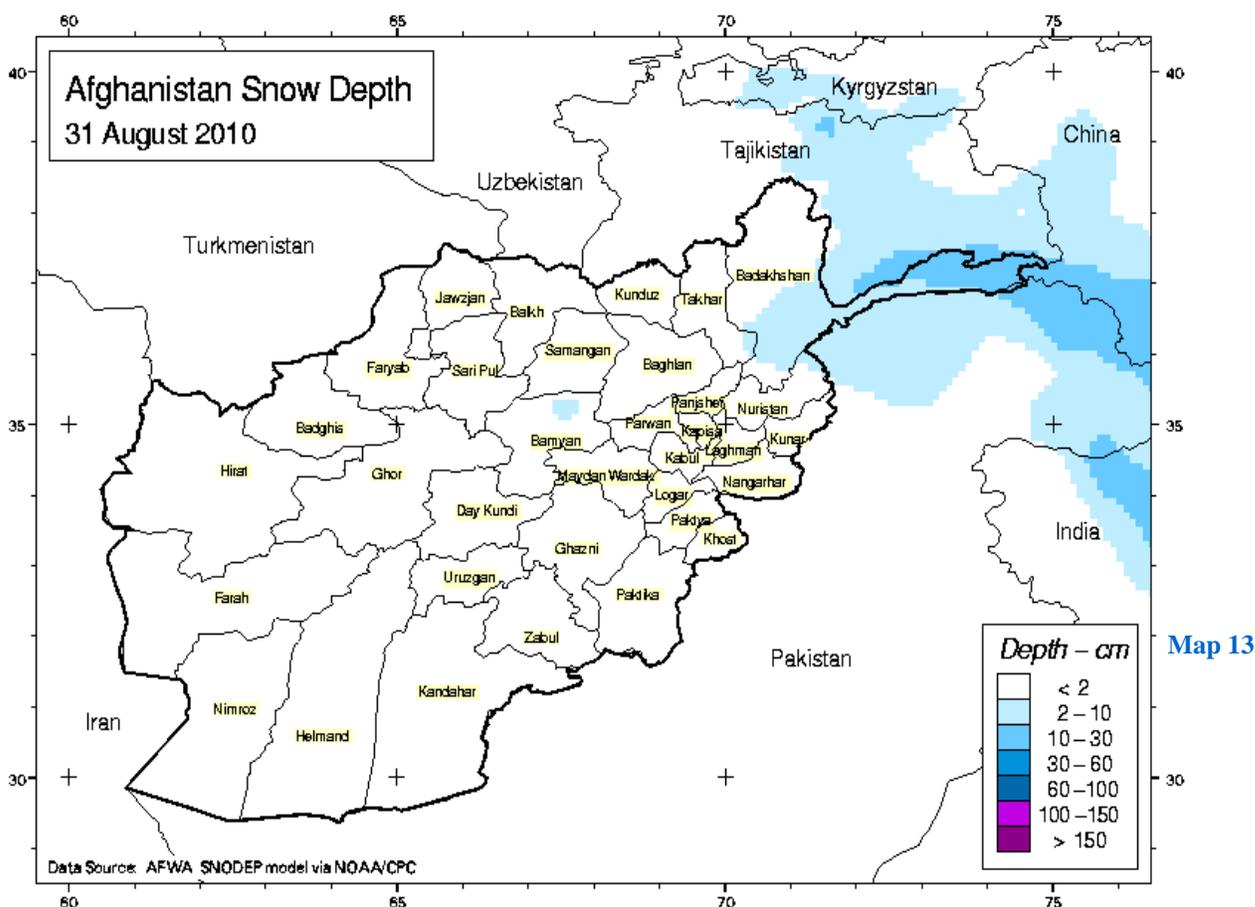
| Date           | Province   | Damaged lands                  | Animal mortality |
|----------------|------------|--------------------------------|------------------|
| 24/August/2010 | Badakhshan | 250 Jereb                      | 0                |
| 15/August/2010 | Kunar      | 300 Jereb                      | 0                |
| 25/August/2010 | Kabul      | <b>No Report on Casualties</b> |                  |
| 25/August/2010 | Laghman    |                                |                  |
| 25/August/2010 | Nangarhar  |                                |                  |

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



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

## Afghanistan Snow Depth for the of August 2010



Map (13) shows the remaining snow in the extreme Northeastern region at the end of August 2010, the snow depth has been recorded 10 cm to 30 cm in above mentioned areas.

**For more information please contact:**

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|-------------------|---|------------|--|
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| Nasir Ahmad Fayez | Director of Irrigation<br>(Ministry of Agriculture) | 0700476311 | <a href="mailto:Abc.fna.2008@yahoo.com">Abc.fna.2008@yahoo.com</a>                               |

You can download the Afghanistan’s Agromet Bulletins from these site:

- <http://afghanistan.cr.usgs.gov/documents.php?cat=1>
- <http://bit.ly/cXzTo6>
- <http://www.mail.gov.af/m>