

The Afghanistan Agrometeorological Monthly Bulletin



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Bamyan



Kabul



Ghazni

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Agromet Network



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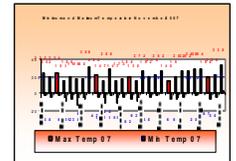
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Summary

Rainfall for the month of March 2008 had significant decrease over the same month in 2007 in the whole country. Herat with 37 ° C was the warmest spot and Gazni with – 3.5 ° C had lower temperature during the month of March 2008.

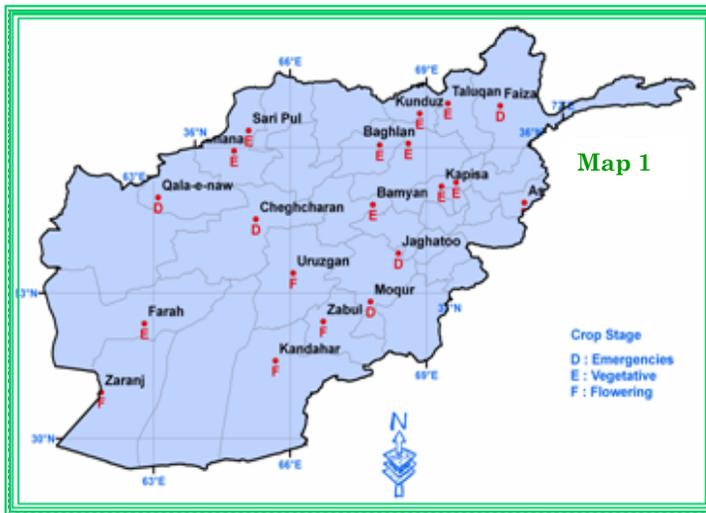
Region	Provinces	District	Station	Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Emergence	Not visible	Not seen
		Paghman	Paghman	Emergence	Not visible	Not seen
		Sarobi	Sarobi	Flowering	Normal	Not sufficient rainfall
	Panjsher	Dara	Dara	Vegetative	Normal	Sharp frost
		Dashtak	Dashtak	Vegetative	Normal	Sharp frost, Excessive weeds
	Parwan	Syagerd	Ghorband	Vegetative	Good (better than normal)	Not improved seed, Shortage of inputs Excessive weeds
		Charikar	Charikar	Vegetative	Good (better than normal)	Not improved seed, Shortage of inputs
	Kapisa	Mahmoodraqi	Mahmoodraqi	Vegetative	Normal	Less amount of rainfall
	Wardak	Chak	Chak	Emergence	Not visible	Not seen
Jaghatoos		Jaghatoos	Emergence	Not visible	Not seen	
East Central	Bamyan	Bamyan	Bamyan	Vegetative	Normal	Lack of improved seed and Shortage of inputs
		Yakawlang	Yakawlang	Vegetative	Normal	Lack of improved seed and Shortage of inputs
		Panjab	Panjab	Emergence	Normal	Not seen
North	Balkh	Dihdadi	Dihdadi	Vegetative	Crop failure (no harvest is expected)	Lack of rainfall
		Nahrishahi	Nahrishahi	Vegetative	Poor (below normal)	Lack of rainfall
	Jawzjan	Sheberghan	Sheberghan	Vegetative	Poor (below normal)	Lack of rainfall
	Saripul	Saripul	Saripul	Vegetative	Poor (below normal)	Lack of rainfall
		Sozmaqala	Sozmaqala	Vegetative	Poor (below normal)	Lack of rainfall
	Faryab	Maimana	Maimana	Vegetative	Normal	Lack of rainfall , Sharp frost
	Samangan	Aibak	Aibak	Vegetative	Crop failure (no harvest is expected)	Lack of rainfall , Sharp frost
Northeast	Takhar	Bangi	Bangi	Vegetative	Normal	Not seen
		Taloqan	Taloqan	Vegetative	Normal	Not seen
	Kunduz	Imam Sahib	Imam Sahib	Vegetative	Normal	Not seen
		Aqtipa	Aqtipa	Vegetative	Normal	Not seen
		Chardara	Chardara	Vegetative	Normal	Not seen
		Kunduz	Kunduz	Vegetative	Normal	Excessive weeds
	Baghlan	Baghlan Jadid	Pozaishan	Vegetative	Normal	Excessive weeds
	Badakhshan	Faizabad	Faizabad	Emergence	Normal	Excessive weeds

Crop Stage, Crop Condition and Adverse Factor

Region	Provinces	District	Station	Crop Stage	Crop Condition	Adverse Factor
South Eastern	Khost	Khost	Khost	Flowering	Normal	Not seen
		Shimal	Shimal	Flowering	Poor (below normal)	Not seen
		Ali Sher	Ali Sher	Flowering	Poor (below normal)	Not seen
	Paktai	Gardiz	Tera	Vegetative	Good (better than normal)	Not seen
	Paktika	Urgon	Urgon	Emergence	Not visible	Low precipitation
		Sharana	Sharana	Emergence	Not visible	Low precipitation
		Kairkot	Kairkot	Emergence	Not visible	Low precipitation
	Ghazni	Muqur	Muqur	Vegetative	Poor (below normal)	Late planting, Less amount of rainfall
Bande Sardi		Bande Sardi	Emergence	Poor (below normal)	Less amount of rainfall	
Southern	Nimroz	Zaranj	Zaranj	Flowering	Good (better than normal)	Report not received
	Kandahar	Kandahar	Kandahar	Flowering	Poor (below normal)	Low precipitation
	Zabul	Qalat	Qalat	Flowering	Poor (below normal)	Low precipitation
	Urozgan	Tarikot	Tarikot	Flowering	Poor (below normal)	Low precipitation
	Hilmand	Nad Ali	Nad Ali	Flowering	Normal	Low precipitation
		Greshk	Greshk	Flowering	Normal	Low precipitation
		Nawa	Nawa	Flowering	Crop failure (no harvest is expected)	Low precipitation
		Lashkargah	Bolan	Flowering	Crop failure (no harvest is expected)	Low precipitation
Eastern	Nangarhar	Agam	Agam	Vegetative	Normal	Not improved seed, Shortage of inputs
		Batikot	Ghaziabad	Flowering	Normal	Low precipitation
		Jalalabad	Sheshembagh	Flowering	Good (better than normal)	Low precipitation
		Jalalabad	Farm Jadeed	Flowering	Normal	Not improved seed, Shortage of inputs
	Konar	Asmar	Asmar	Flowering	Normal	Excessive Weeds
		Asadabad	Asadabad	Flowering	Normal	Not seen
	Laghman	Mihtarlam	Mihtarlam	Flowering	Normal	Not seen
Western	Badghis	Qalainow	Qalainow	Emergence	Poor	Low precipitation
		Muqur	Muqur	Emergence	Poor	Low precipitation
	Ghor	Chaghcharan	Chaghcharan	Emergence	Normal	Low precipitation
	Hirat	Shindand	Shindand	Vegetative	Poor	Low precipitation
		Hirat	Farm Urdokhan	Vegetative	Normal	Low precipitation
	Farah	Farah	Farah	Vegetative	Normal	Low precipitation

Crop Stage, Crop Condition and Adverse Factor Maps

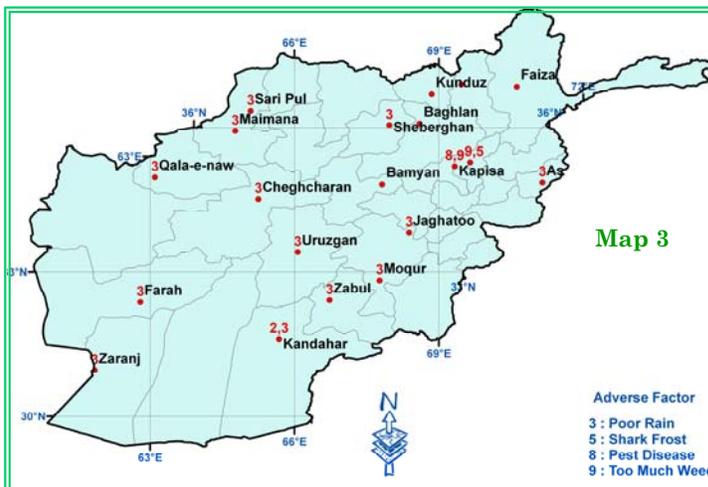
Wheat Crop Stage - March 2008



Wheat Crop Condition - March 2008



Wheat - Adverse Factor March 2008



Rainfall Situation

Rainfall for the month of March 2008 had significant decrease over the same month in 2007 in the whole country.

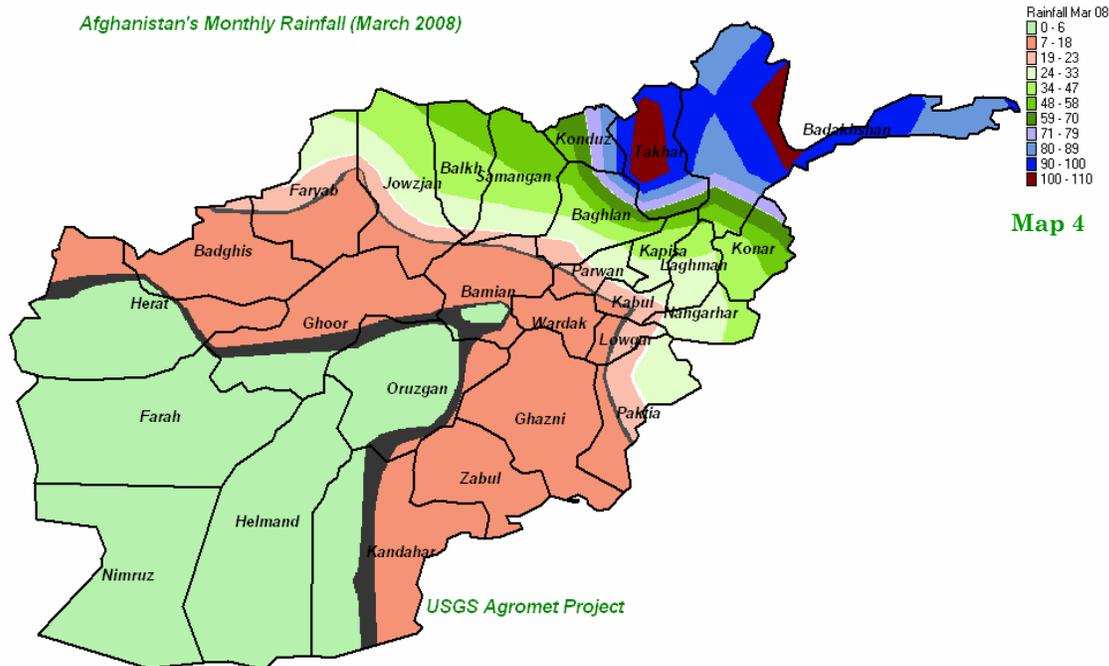
Comparison of rainfall data for the month of March 2008 with the same month in 2007 (chart 1), shows significant decrease in rainfall during the month of March 2008 compared to the same month of last year across the country, however the rainfall had small increase but was not considerable. Inadequate of moisture and dryness resulted significant decrease in rainfall during the month of February and March and the country experienced low amount of precipitation during the month of March and will stress water resources, thus more precipitation is needed to reduce the deficit of rainfall. The percentage +/- of rainfall is as follow:

In Baghlan - 75 %, Darul Aman - 95 %, Faiz Abad 700 %, Farah 3 %, Gardiz - 83 %, Ghazni - 100 %, Ghaziabad - 78 %, Heart - 100 %, Jabul Seraj - 92 %, Jalalabad - 88 %, Kabul - 88 %, Kandahar - 91 %, Kariz Mir - 91 %, Kunduz - 80 %, Logar 0 %, Maimana- 93 %,

Mazar - 99 %, Paghman - 93 %, Sheberghan - 95 %, Sarobi - 82 %, Sari Pul, - 93 %, Taluqn - 48 %.

Comparison of rainfall data for the month of March 2008 with the same month of long term average (Chart 2) shows significant decrease of rainfall compared to the same month of long term average in most parts of the country except Kunduz and Logar where the rainfall had small increase during the month of March 2008. The percentage +/- of rainfall is as follow:

In Baghlan - 73 %, Darul Aman - 92 %, Faiz Abad - 67 %, Farah - 100 %, Gardiz - 83 %, Ghazni - 100 %, Ghaziabad - 63 %, Heart - 100 %, , Jabul Seraj - 77 %, Jalalabad 85 %, Kabul - 80 %, Kandahar - 85 %, Kariz Mir - 88 %, Kunduz + 49 %, Logar + 35 %, Maimana - 95 %, Mazar - 98 %, Paghman - 84 %, Sheberghan - 96 %, Sarobi - 59 %, Sari Pul - 59 %, Taluqn - 75 %.

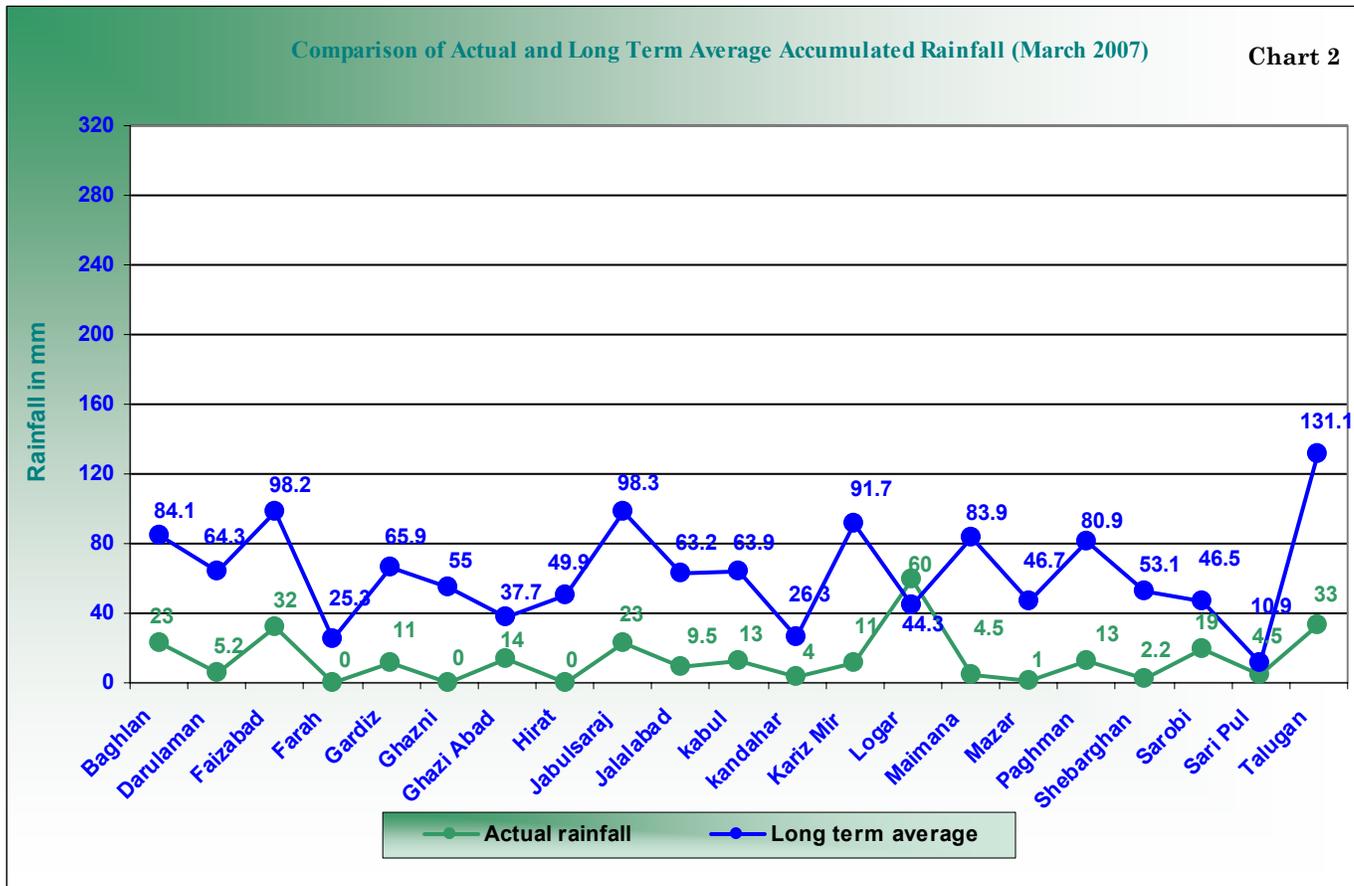
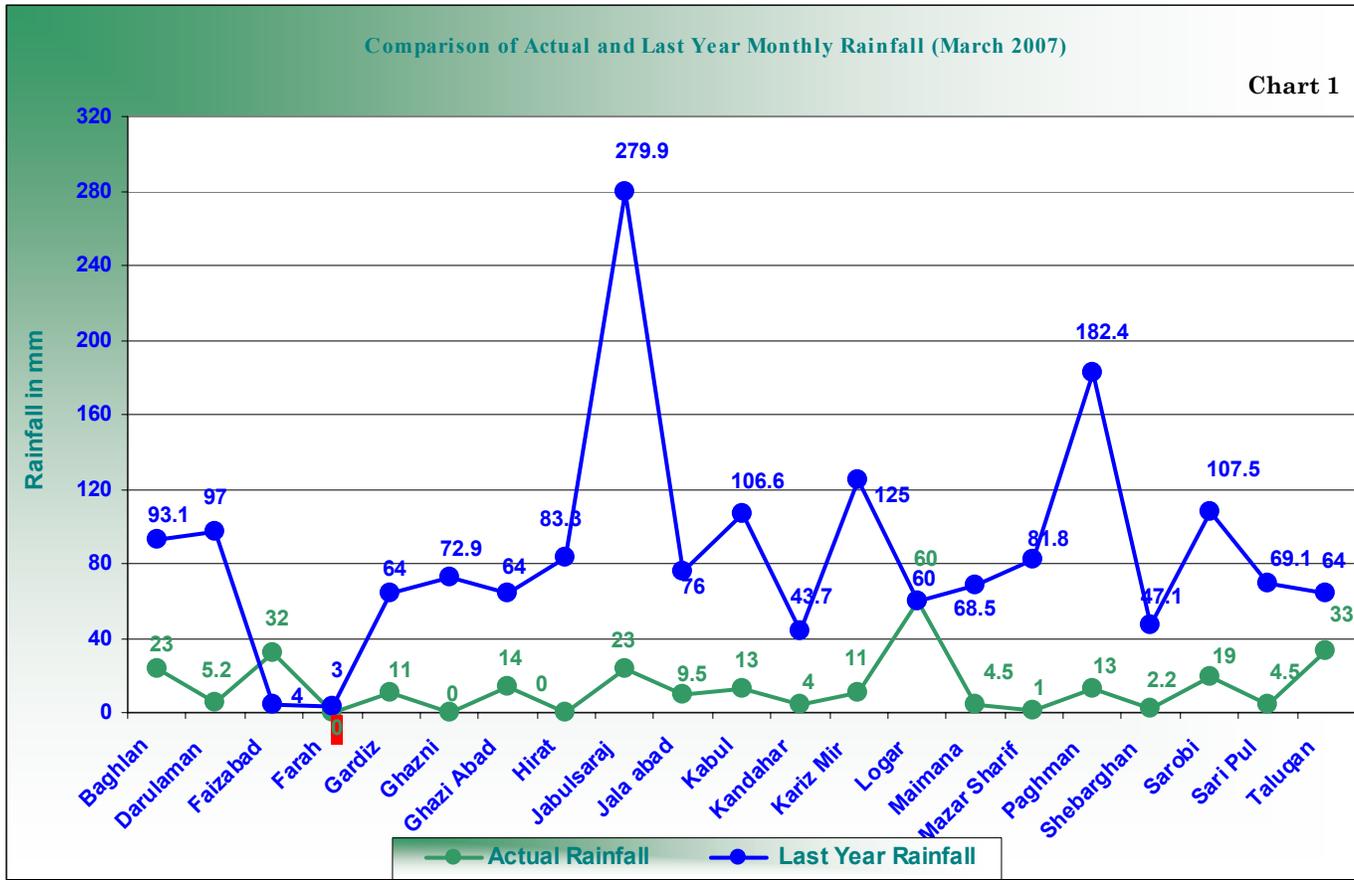


Map 4

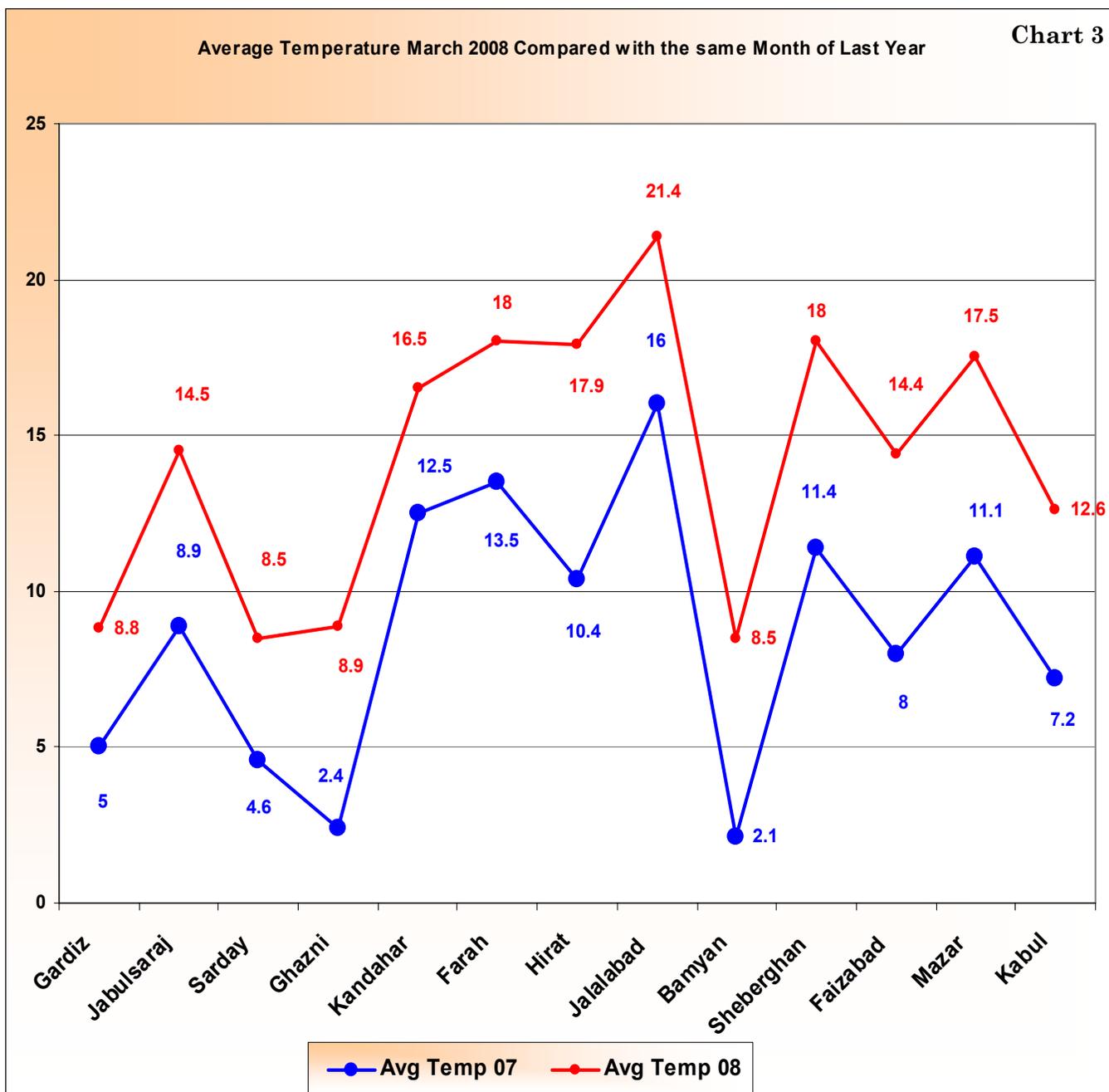
Map (4) shows distribution of rainfall for the month of March 2008 across the country. As map (4) shows most amount of rainfall occurred in some parts of the Northeastern region particularly in Kunduz province and some parts of Badakhshan , and the western

Regions, Southwestern, most parts of Southern region and some parts of the Central Highlands reached lower precipitation during the month of March 2008.

Rainfall Graphs for the Month of March 2008



Average Temperature for the Month of March 2008

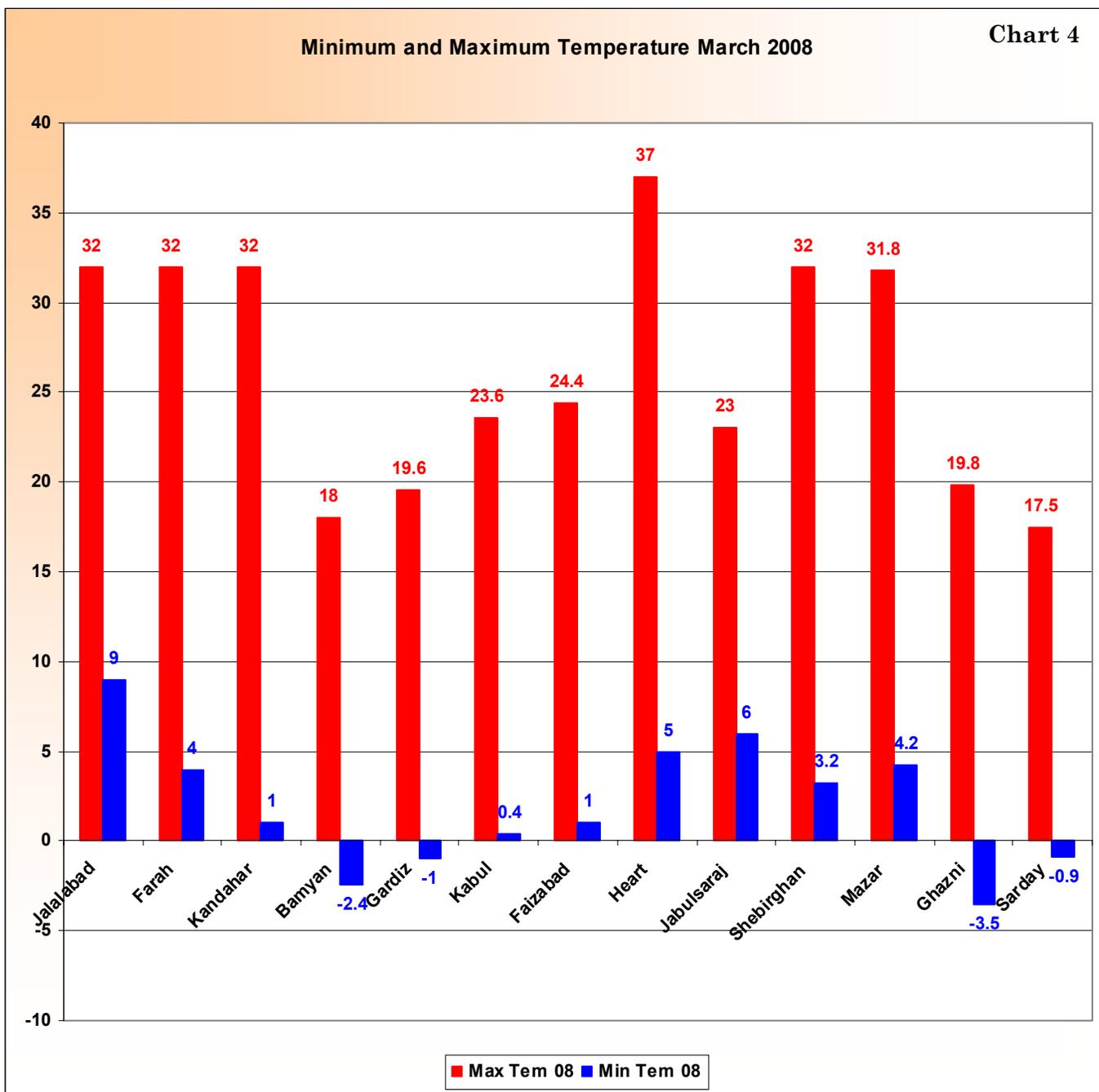


Temperature for the month of March 2008 was Higher compared to the same month in 2007.

The temperature had significantly an increase during the month of March 2008 compared to the same month in 2007 across the country. The deferent of temperature in some where such as Heart the temperature 7.5 ° C was higher for the month of March 2008 than the same month of last year.

Rising of temperature during he month of March 2008 cased rapid snow melt and resulted decrease in snow extent in the month of March over the same month of last year and long term average.

Temperature for the Month of March 2008

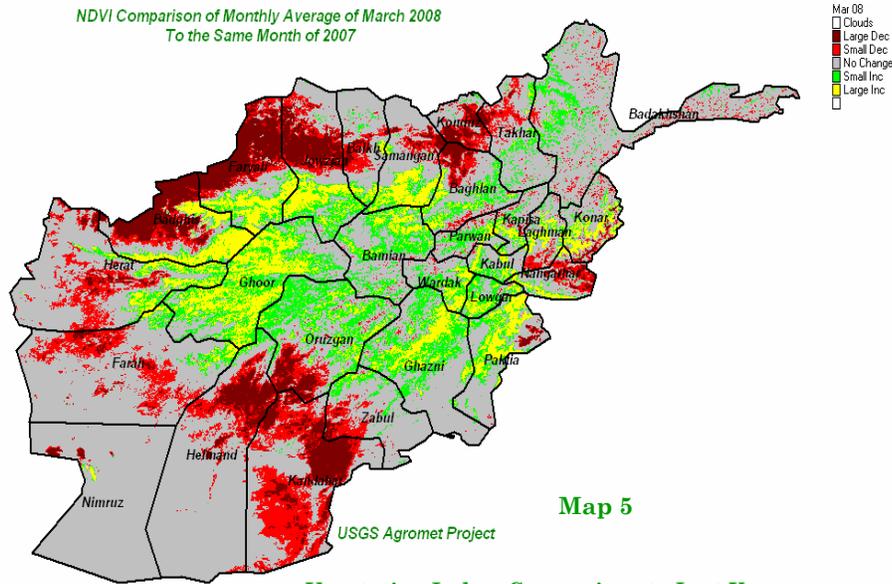


Hirat with 37 C was the warmest Spot in the Country.

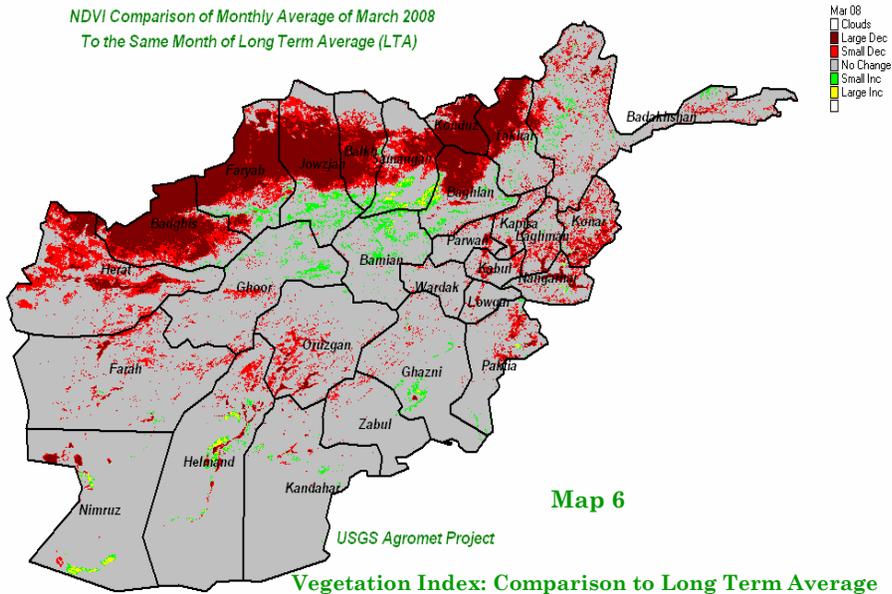
Chart (4) shows maximum and minimum temperature around the country, as chart (4) shows minimum temperature was above freezing point in most parts of the country except Baman, Gardiz, Gazni and Sarday where the minimum temperature has

Been recorded at freezing point. Herat with 37 ° C was the warmest spot and Gazni with – 3.5 ° C had lower temperature during the month of March 2008.

Comparison of NDVI March 2008



Vegetation Index: Comparison to Last Year



Vegetation Index: Comparison to Long Term Average

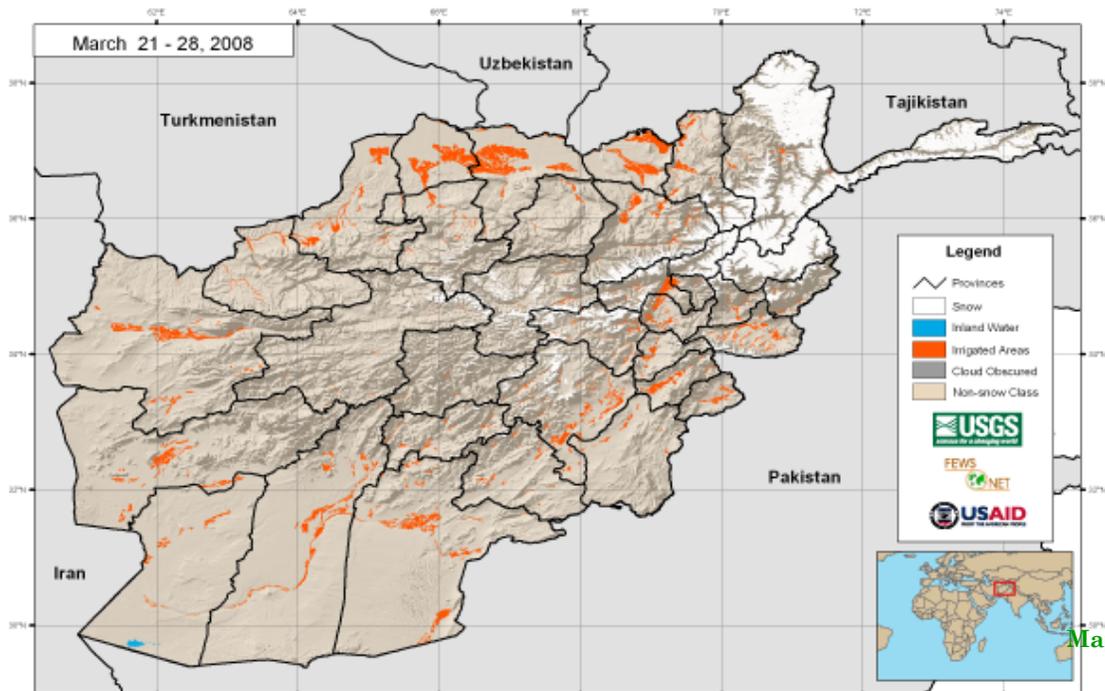
NDVI: March 2008

Comparison of monthly average of NDVI for the month of March 2008 with the same month in 2007 (Map 5) shows large increase of NDVI in the Northwestern regions, Northern and some parts of the Southern region, small increase occurred in NDVI value in the Central Highlands and neighboring areas during the month of March 2008 compared to the same month of last year. Large decrease occurred in NDVI value in the Northwestern flat areas, some parts in the Northern region, some parts in the Northeastern and some parts in the Southern region during the month of March 2008 over the same month in 2007. Comparison of monthly average of

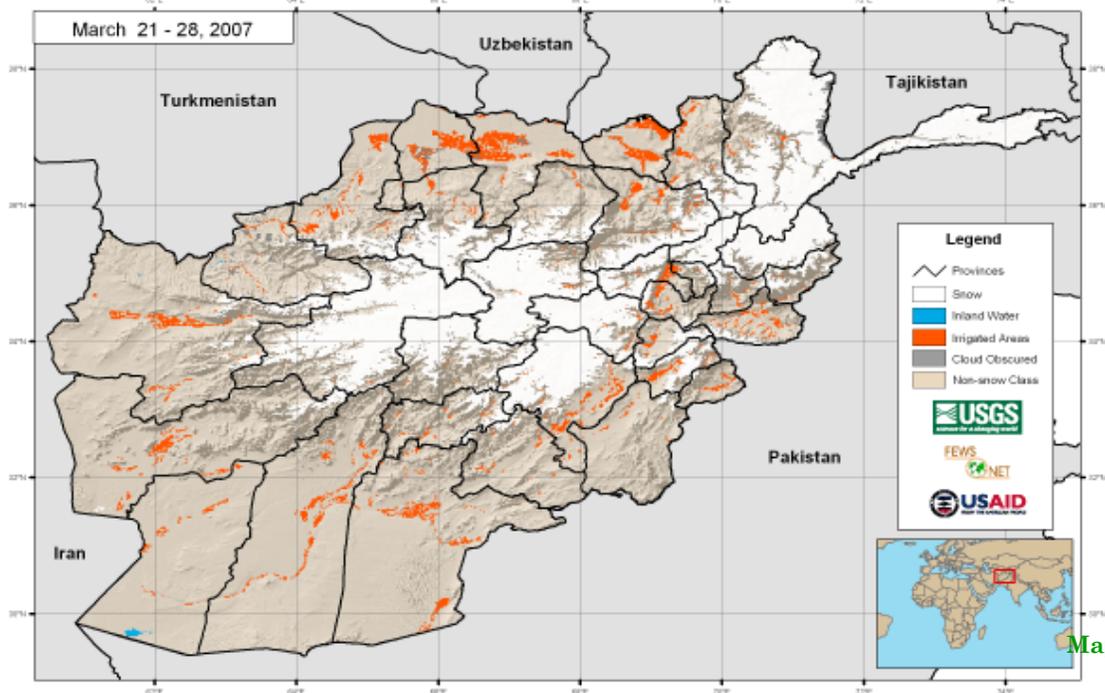
NDVI for the month of March 2008 with the same month of long term average (Map 6) shows large decrease of NDVI in the Northwestern regions, Northern and some parts of the Northeastern region during the month of March 2008 compared to same month of long term average, and small decrease occurred in NDVI value in some parts in the Eastern region too. There is no change in NDVI value in Southwestern region during the month of March 2008 compared to the same month of long term average.

Comparison of Snow Extent

MODIS 8-day Snow Cover Extent - Current Period 2008 vs 2007



Map 7



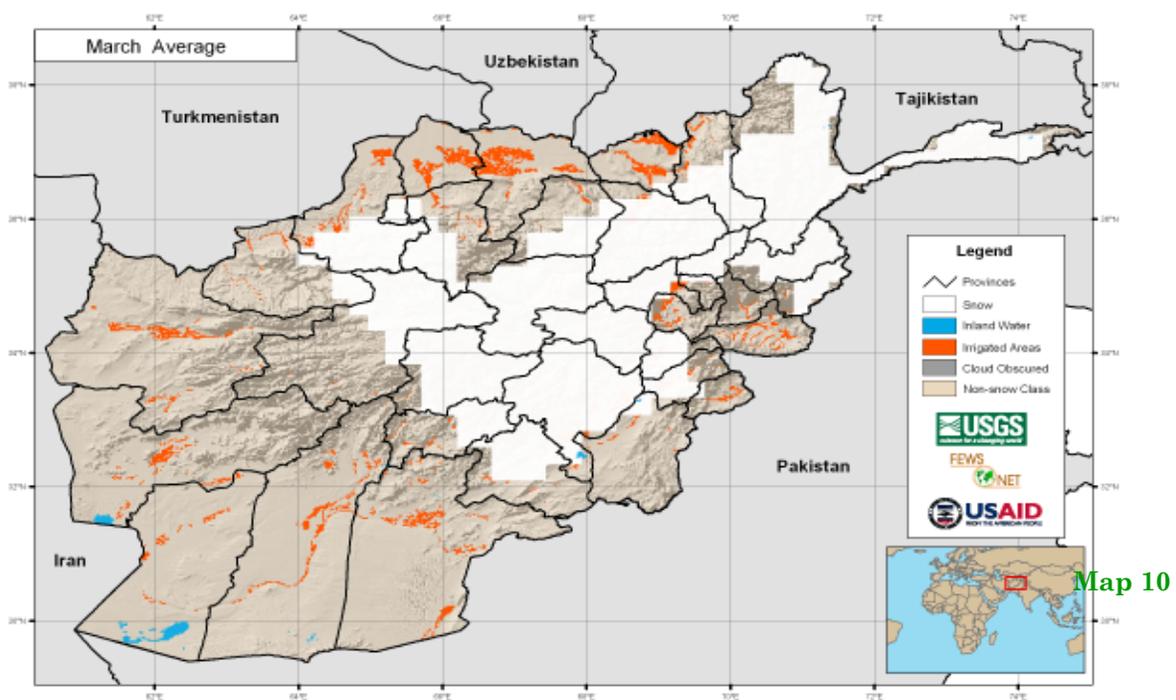
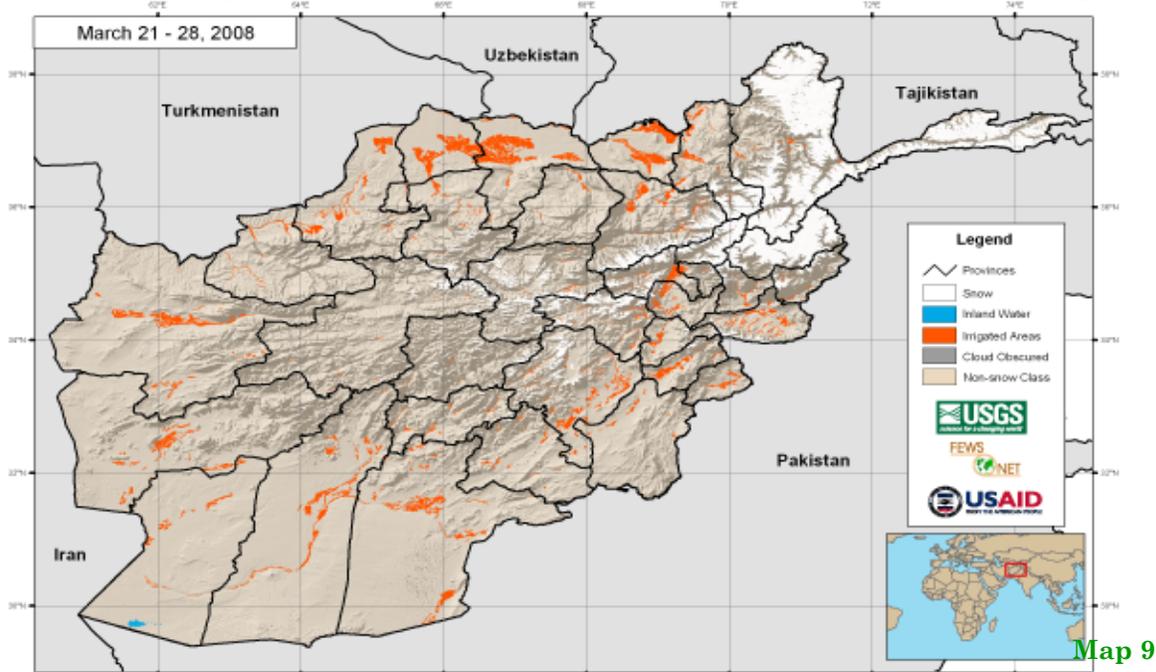
Map 8

Comparison of snow extent for the period (21 – 28) March 2008 with the same period in 2007 (Maps 7 , 8) shows significant decrease of snow extent in the snow coverage area particularly in the Central Highlands and some parts in the Northeastern region during the month of March 2008 compared to the same period in 2007. The month of March 2008 was

dry as well as February and the country reached low amount of snowfall particularly for the Central Highlands the snow extent had significant decrease during the month of March 2008 over the same month in 2007. The decrease of snowfall will stress water recourses for the upcoming agricultural season.

Comparison of Snow Extent

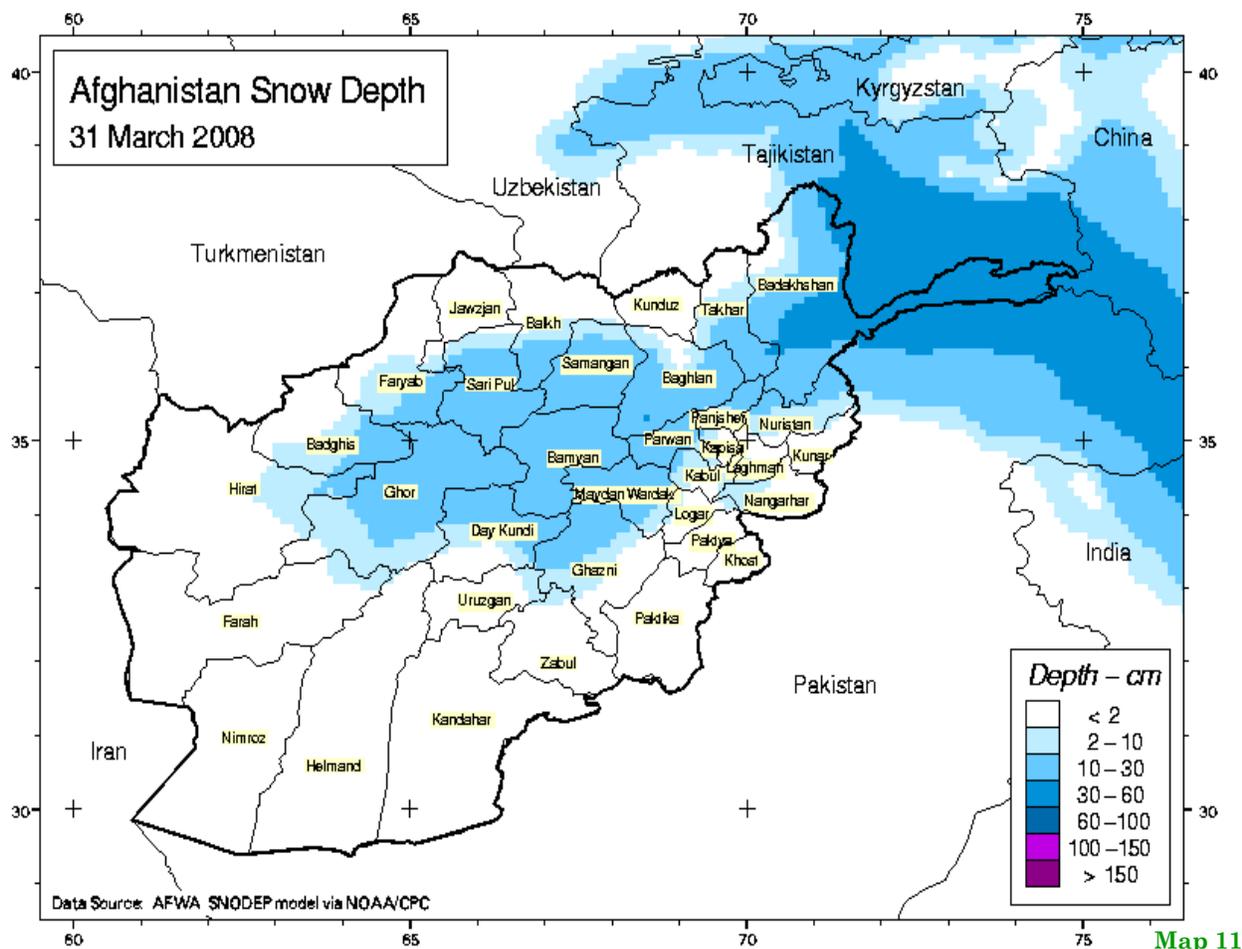
MODIS 8-day Snow Cover Extent - Current vs. Historical Average



Comparison of snow extent for the month of March 2008 with the same month of long term average (Maps 9 , 10) shows significant decrease of snow extent during the month of March 2008 compared to same month of long term average all over the snow coverage areas in the country. Large decrease of snow extent which

clearly shows in Maps (9 , 10) strongly will stress water recourses for the country and more precipitation is needed to cover the lake of water resources in the future.

Afghanistan Snow Depth for the month of March 2008



Map (11) shows snow depth in the end of March 2008 for the country. As map shows the snow depth 30 up to 60 cm for the Northeastern region and 10 up to 30 cm has been recorded for the Central

highlands and neighboring areas including some parts of the Capital region.

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