

The Afghanistan Agrometeorological Monthly Bulletin



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October 2009



Kapisa



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Agromet Network

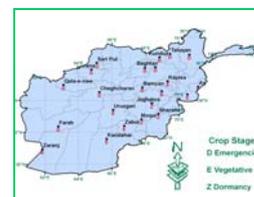


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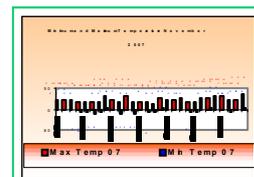
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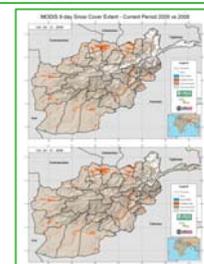
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Summary

In general, rainfall had large decrease during the month of October over the same month of last year across the country. The month of October 2009 shows significant decrease of rainfall compared to the same month of last year and long term average.

However rainfall had small increase in Kabul and Ghazia-bad during the month of October 2009 over the same month of long term average, but in most parts of the country the rainfall had large decrease in October 2009 compared to long term average.

At the beginning of October 2009, temperature slipped below zero over night in the highest elevations in the

Northeastern region, Hindokosh Mountains and Central Highlands.

There is no change of NDVI in the remaining regions of the country during the month of October 2009 over the same month in 2008. Wheat as a dominated cereal crop has been in ploughing and planting stages during October 2009 in all over the country.

The other crops, Maize and Rice are harvested in most parts of the country during October 2009. Maize and Rice cultivation had significant increase than last year in most parts of the country.

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter wheat Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Shakardara	Karizmir	Planting	Not visible	Not seen
		Paghman	Paghman	Planting	Not visible	Not seen
		Kabul	Darulaman	Planting	Not visible	Not seen
		Surubi	Surubi	Ploughing	Not visible	Not seen
	Panjsher	Dara	Dara	Planting	Not visible	Not seen
		Dashtak	Dashtak	Planting	Not visible	Not seen
	Parwan	Syagerd	Syagerd	Planting	Not visible	Not seen
		Charikar	Charikar	Ploughing	Not visible	Not seen
	Kapisa	Mahmoodraqi	Mahmoodraqi	Planting	Not visible	Not seen
		Kohistan	Kohistan	Planting	Not visible	Not seen
Wardak	Chak	Chak	Planting	Not visible	Not seen	
	Jaghato	Jaghato	Planting	Not visible	Not seen	
East Central	Bamyan	Bamyan	Bamyan	Ploughing	Not visible	Not seen
		Yakawlang	Yakawlang	Planting	Not visible	Not seen
		Panjab	Panjab	Planting	Not visible	Not seen
Eastern	Noristan	Paroon	Paroon	Planting	Not visible	Not seen
	Nangarhar	Agam	Agam	Pre planting	Not visible	Not seen
		Batikut	Ghaziabad	Pre planting	Not visible	Not seen
		Jalalabad	Sheshembagh	Pre planting	Not visible	Not seen
		Jalalabad	Farm Jadeed	Pre planting	Not visible	Not seen
	Kunar	Asmar	Asmar	Ploughing	Not visible	Not seen
		Asadabad	Asadabad	Ploughing	Not visible	Not seen
	Laghman	Mihtarlam	Mihtarlam	Pre planting	Not visible	Not seen
Northeastern	Takhar	Bangi	Bangi	Ploughing	Not visible	Not seen
		Taluqan	Taluqan	Ploughing	Not visible	Not seen
	Kunduz	Imam Sahib	Imam Sahib	Pre planting	Not visible	Not seen
		Qaliagal	Aqtipa	Pre planting	Not visible	Not seen
		Chardara	Chardara	Pre planting	Not visible	Not seen
		Kunduz	Kunduz	Pre planting	Not visible	Not seen
	Baghlan	Pulikhomri	Pozaishan	Ploughing	Not visible	Not seen
	Badakhshan	Faizabad	Faizabad	Emergence	Not visible	Not seen

Data Source: MAIL, Agromet Network, AMA, USGS, FAO

Crop Stage, Crop Condition and Adverse Factor

Zone	Province	District	Station	Winter wheat Crop Stage	Crop Condition	Adverse Factor
South Eastern	Khost	Khost	Khost	Pre planting	Not visible	Not seen
		Khost	Shimal	Pre planting	Not visible	Not seen
		Ali Sher	Ali Sher	Pre planting	Not visible	Not seen
	Paktai	Zormat	Rohani Baba	Planting	Not visible	Not seen
		Gardiz	Tera	Planting	Not visible	Not seen
	Paktika	Urgon	Urgon	Ploughing	Not visible	Not seen
		Sharana	Sharana	Planting	Not visible	Not seen
		Khairkot	Khairkot	Planting	Not visible	Not seen
	Ghazni	Muqur	Muqur	Planting	Not visible	Not seen
		Andar	Bande Sardi	Planting	Not visible	Not seen
Southern	Nimroz	Zaranj	Zaranj	Pre planting	Not visible	Not seen
	Kandahar	Kandahar	Kandahar	Pre planting	Not visible	Not seen
	Zabul	Qalat	Qalat	Planting	Not visible	Not seen
	Urozgan	Tarinkot	Tarinkot	Ploughing	Not visible	Not seen
	Hilmand	Nad Ali	Nad Ali	Pre planting	Not visible	Not seen
		Greshk	Greshk	Pre planting	Not visible	Not seen
		Nawa	Nawa	Pre planting	Not visible	Not seen
		Lashkargah	Bolan	Pre planting	Not visible	Not seen
Northern	Balkh	Dihdadi	Dihdadi	Pre planting	Not visible	Not seen
		Nahrishahi	Nahrishahi	Pre planting	Not visible	Not seen
	Jawzjan	Sheberghan	Sheberghan	Ploughing	Not visible	Not seen
		Darzab	Darzab	Ploughing	Not visible	Not seen
	Saripul	Saripul	Saripul	Planting	Not visible	Not seen
		Sozmaqala	Sozmaqala	Planting	Not visible	Not seen
	Faryab	Maimana	Maimana	Planting	Not visible	Not seen
	Samangan	Aibak	Aibak	Planting	Not visible	Not seen
		Dara Souf Bala	Dara Souf Bala	Planting	Not visible	Not seen
Western	Badghis	Qalainow	Qalainow	Ploughing	Not visible	Not seen
		Muqur	Muqur	Ploughing	Not visible	Not seen
	Ghor	Chaghcharan	Chaghcharan	Planting	Not visible	Not seen
	Hirat	Shindand	Shindand	Ploughing	Not visible	Not seen
		Zindajan	Zindajan	Ploughing	Not visible	Not seen
		Gwazara	Falahat	Ploughing	Not visible	Not seen
		Hirat	Urdokhan	Ploughing	Not visible	Not seen
	Farah	Farah	Farah	Emergence	Not visible	Not seen

Crop Stage, Crop Condition and Adverse Factor

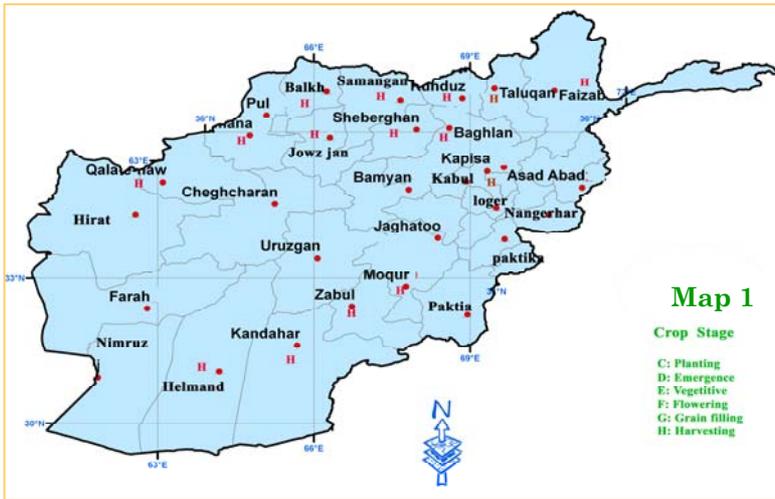
Zone	Province	District	Station	Winter Maize Crop Stage	Crop Condition	Adverse Factor
Central	Kabul	Surubi	Surubi	Maize is already harvested in this area.		
	Panjsher	Dashtak	Dashtak	Harvesting	Normal	Not existed
	Karizmir	Shakardara	Karizmir	Harvesting	Normal	Frost damaged maize and vineyards
	Parwan	Charikar	Charikar	Harvesting	Good (better than normal)	Not existed
	Kapisa	Mahmoodraqi	Mahmoodraqi	Harvesting	Good (better than normal)	Not existed
Eastern	Noristan	Paroon	Paroon	Harvesting	Poor	Late planting and Frost
	Nangarhar	Agam	Agam	Maize is already harvested in these areas.		
		Batikot	Ghaziabad			
		Jalalabad	Sheshembagh			
		Jalalabad	Farm Jadeed			
	Kunar	Asmar	Asmar	Maize is already harvested in these areas.		
		Asadabad	Asadabad			
Laghman	Mihtarlam	Mihtarlam				
Northeastern	Takhar	Bangi	Bangi	Harvesting	Normal	Not existed
		Taluqan	Taluqan	Harvesting	Normal	Not existed
	Kunduz	Imam Sahib	Imam Sahib	Harvesting	Normal	Not existed
		Qaliazal	Aqtipa	Harvesting	Normal	Not existed
		Chardara	Chardara	Harvesting	Normal	Not existed
		Kunduz	Kunduz	Harvesting	Normal	Not existed
	Baghlan	Pulikhomri	Pozaishan	Harvesting	Normal	Not existed
	Badakhshan	Faizabad	Faizabad	Harvesting	Normal	Not existed
South Eastern	Khost	Khost	Khost	Maize is already harvested in these areas.		
		Khost	Shimal			
		Ali Sher	Ali Sher			
	Paktai	Zormat	Rohani Baba	Maize is already harvested in these areas.		
		Gardiz	Tera			
	Paktika	Urgon	Urgon	Maize is already harvested in these areas.		
		Sharana	Sharana			
		Khairkot	Khairkot	Harvesting	Normal	Not existed
Ghzni	Muqur	Muqur	Maize is already harvested in this area.			
South Western	Kandahar	Kandahar	Kandahar	Harvesting	Good (better than normal)	Not existed
	Zabul	Qalat	Qalat	Harvesting	Normal	Not existed
	Urozgan	Tarinkot	Tarinkot	Harvesting	Normal	Not existed
	Hilmand	Nad Ali	Nad Ali	Harvesting	Normal	Not existed
		Greshk	Greshk	Harvesting	Normal	Not existed
		Nawa	Nawa	Harvesting	Normal	Not existed
		Lashkargah	Bolan	Harvesting	Good (better than normal)	Not existed
Northern	Balkh	Dihdadi	Dihdadi	Harvesting	Good (better than normal)	Not existed
		Nahrishahi	Nahrishahi	Harvesting	Good (better than normal)	Not existed
	Jawzjan	Sheberghan	Sheberghan	Harvesting	Normal	Not existed
		Darzab	Darzab	Harvesting	Normal	Not existed
	Saripul	Saripul	Saripul	Maize is already harvested in these areas.		
		Sozmaqala	Sozmaqala			
	Faryab	Maimana	Maimana	Harvesting	Normal	Not existed
	Samangan	Aibak	Aibak	Harvesting	Normal	Not existed
Dara Souf Bala		Dara Souf Bala	Harvesting	Poor	Frost damaged 40% maize production	
Western	Badghis	Qalainow	Qalainow	Harvesting	Normal	Not existed
		Muqur	Muqur	Harvesting	Normal	Not existed
	Hirat	Shindand	Shindand	Maize is already harvested in these areas.		
		Hirat	Zindajan			
	Farah	Farah	Farah			

Crop Stage, Crop Condition and Adverse Factor

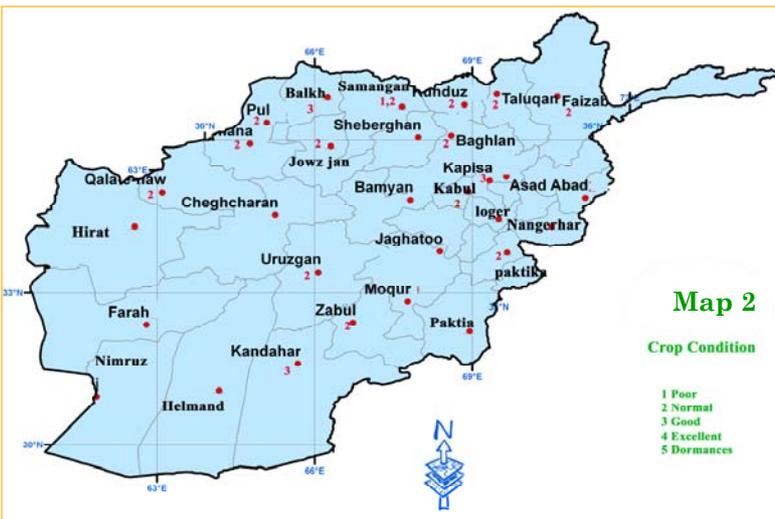
Zone	Province	District	Station	Winter Rice Crop Stage	Crop Condition	Adverse Factor	
Central	Kabul	Surubi	Surubi	Rice is already harvested in these areas.			
		Agam	Agam				
Eastern	Nangarhar	Batikot	Ghaziabad				
		Jalalabad	Sheshembagh				
		Jalalabad	Farm Jadeed				
		Kunar	Asmar		Asmar	Harvesting	Good (better than normal)
	Kunar	Asadabad	Asadabad		Harvesting	Good (better than normal)	Not existed
	Laghman	Mihtarlam	Mihtarlam		Rice is already harvested in this area.		
Northeastern	Takhar	Bangi	Bangi		Harvesting	Normal	Not existed
		Taluqan	Taluqan		Harvesting	Normal	Not existed
	Kunduz	Imam Sahib	Imam Sahib	Rice is already harvested in this area.			
		Qaliazal	Aqtipa	Harvesting	Good (better than normal)	Not existed	
		Chardara	Chardara	Harvesting	Good (better than normal)	Not existed	
		Kunduz	Kunduz	Rice is already harvested in this area.			
	Baghlan	Pulikhomri	Pozaishan	Harvesting	Normal	Not existed	
	Badakhshan	Faizabad	Faizabad	Harvesting	Normal	Not existed	
South Eastern	Khost	Khost	Khost	Harvesting	Good (better than normal)	Not existed	
		Khost	Shimal	Harvesting	Good (better than normal)	Not existed	
		Ali Sher	Ali Sher	Harvesting	Good (better than normal)	Not existed	
	Paktai	Zormat	Rohani Baba	Harvesting	Normal	Not existed	
	Paktika	Urgon	Urgon	Harvesting	Good (better than normal)	Not existed	
		Sharana	Sharana	Harvesting	Normal	Not existed	
		Khairkot	Khairkot	Harvesting	Normal	Not existed	
Northern	Balkh	Dihdadi	Dihdadi	Harvesting	Normal	Not existed	
		Nahrishahi	Nahrishahi	Harvesting	Normal	Not existed	
	Jawzjan	Sheberghan	Sheberghan	Harvesting	Normal	Not existed	
		Darzab	Darzab	Harvesting	Normal	Not existed	
	Faryab	Maimana	Maimana	Harvesting	Normal	Not existed	
	Samangan	Aibak	Aibak	Harvesting	Normal	Not existed	
		Dara Souf Bala	Dara Souf Bala	Harvesting	Normal	Not existed	
Western	Hirat	Shindand	Shindand	Rice is already harvested in these areas.			
		Hirat	Zindajan				

Crop Stage, Crop Condition and Adverse Factor, Maps

Maize - Crop Stage - October 2009



Maize - Crop Condition - October 2009

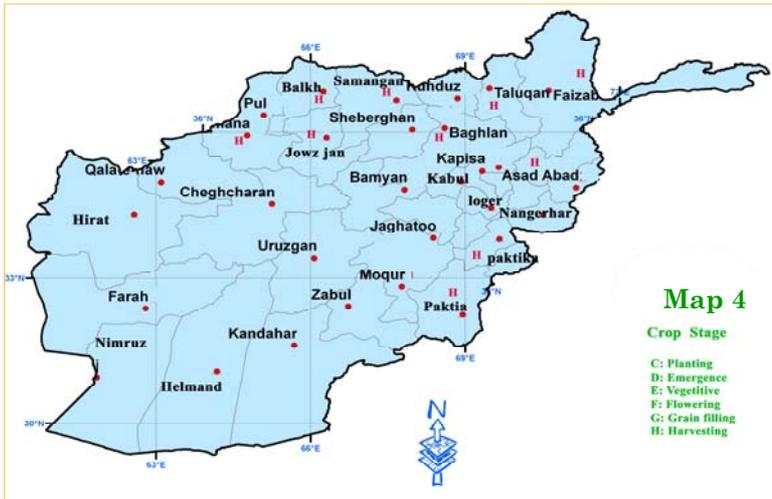


Maize - Adverse Factor - October 2009

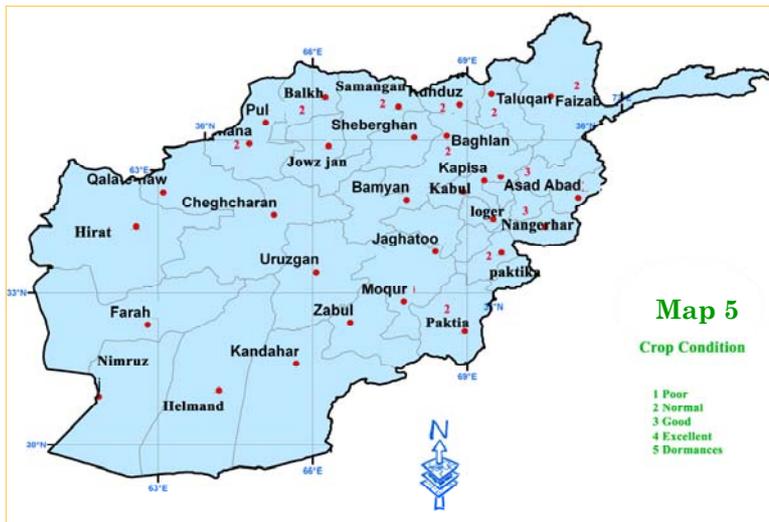


Crop Stage, Crop Condition and Adverse Factor, Maps

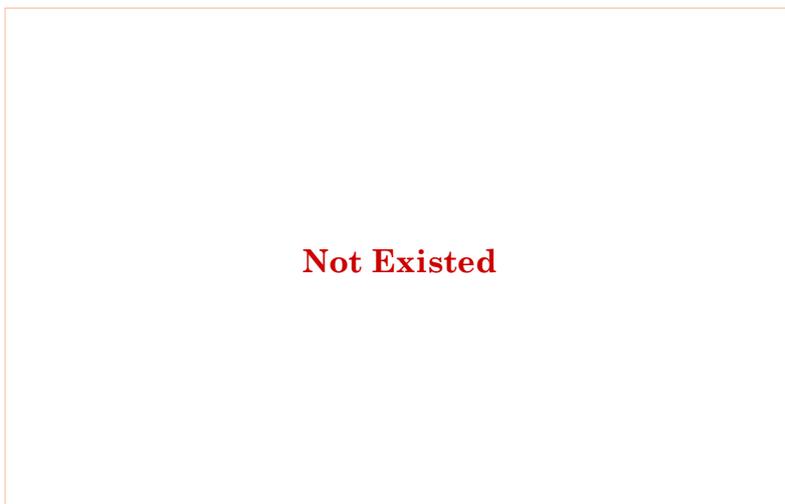
Rice - Crop Stage - October 2009



Rice - Crop Condition - October 2009



Rice - Adverse Factor –October 2009



Precipitation

Dry season has given way relatively to light wet season in October 2009, as it is typical in this time of the season. Although precipitation was light during the month of October 2009, snow pack developed in the highest elevations of the Northeastern region and the Central Highlands.

However rainfall had small increase in Kabul and Ghaziabad during the month of October 2009 over the same month of long term average, in most parts of the country the rainfall had large decrease in October 2009 compared to same month of long term average.

Rainfall had large decrease during the month of October 2009 over the same month of last year across the country.

The percentage +/- of rainfall shown in table (2) next page.

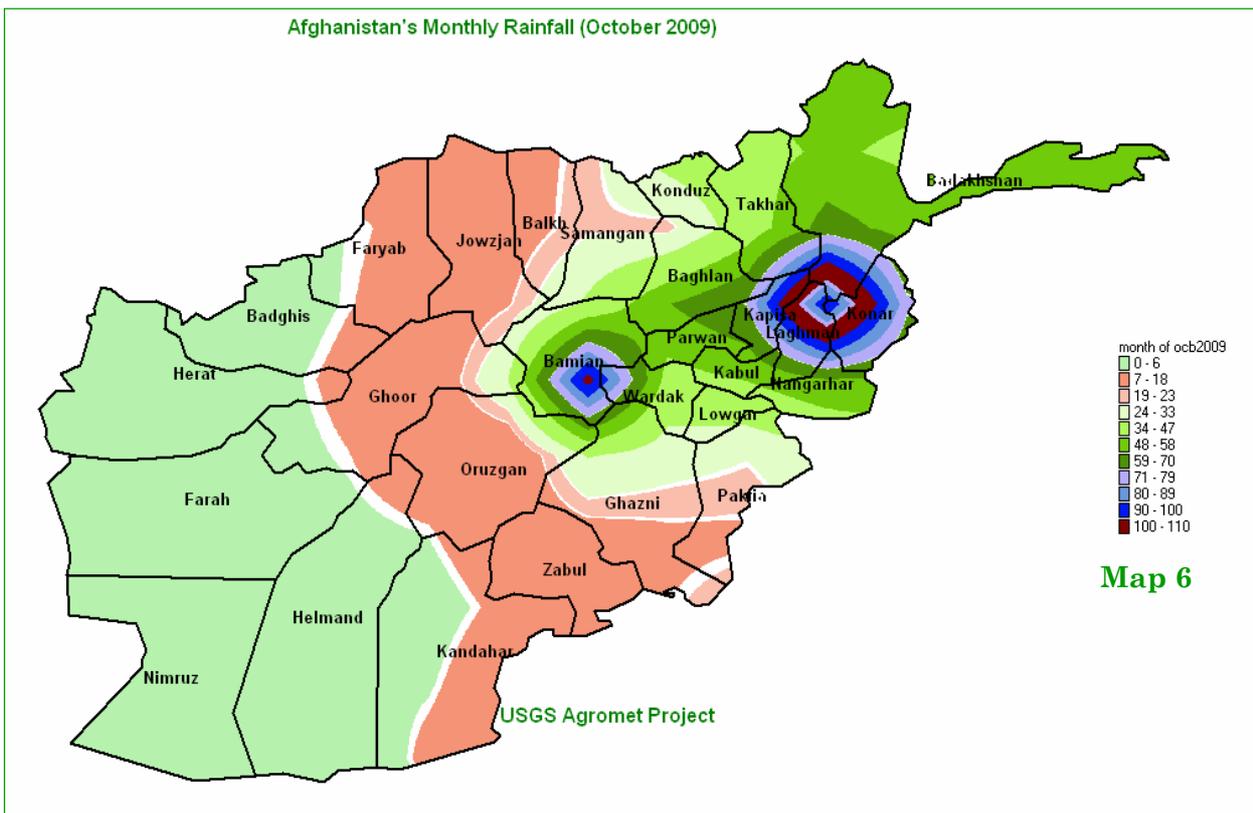
Comparison of rainfall data for the month of October 2009 with the same month in 2008 chart (1) shows significant decrease of rainfall during the month of October 2009 compared to the same month of last year. The percentage +/- of rainfall shown in next page table (2).

Distribution of rainfall as usual was variable in different regions in the country during October.

As map (6) shows most amount of rainfall occurred in the Eastern region and Central Highlands during October.

Comparison of rainfall data for the month of October 2009 with the same month of long term average chart (2) shows significant decrease of rainfall during the month of October 2009 compared to the same month of long term average.

The Capital region and Northeastern regions received low amount of rainfall, but the Southern, Southwestern and Western regions did not experienced visible rainfall.

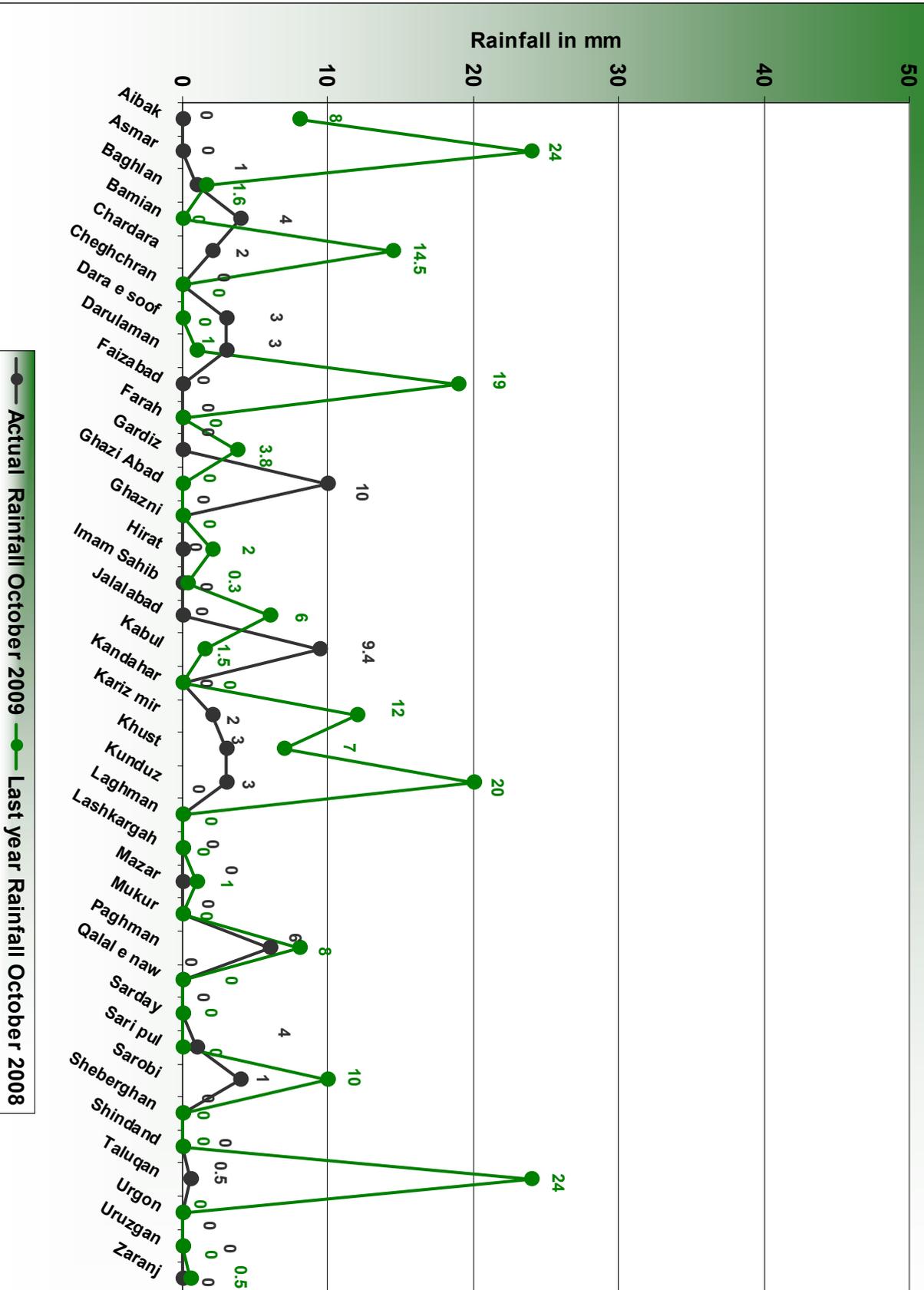


Map 6

Rainfall Graphs for the Month of October 2009

Comparison of Actual Rainfall (October 2009) with the same month in 2008

Chart 1



Data Source: MAIL, Agromet Network, AMA, USGS, FAO

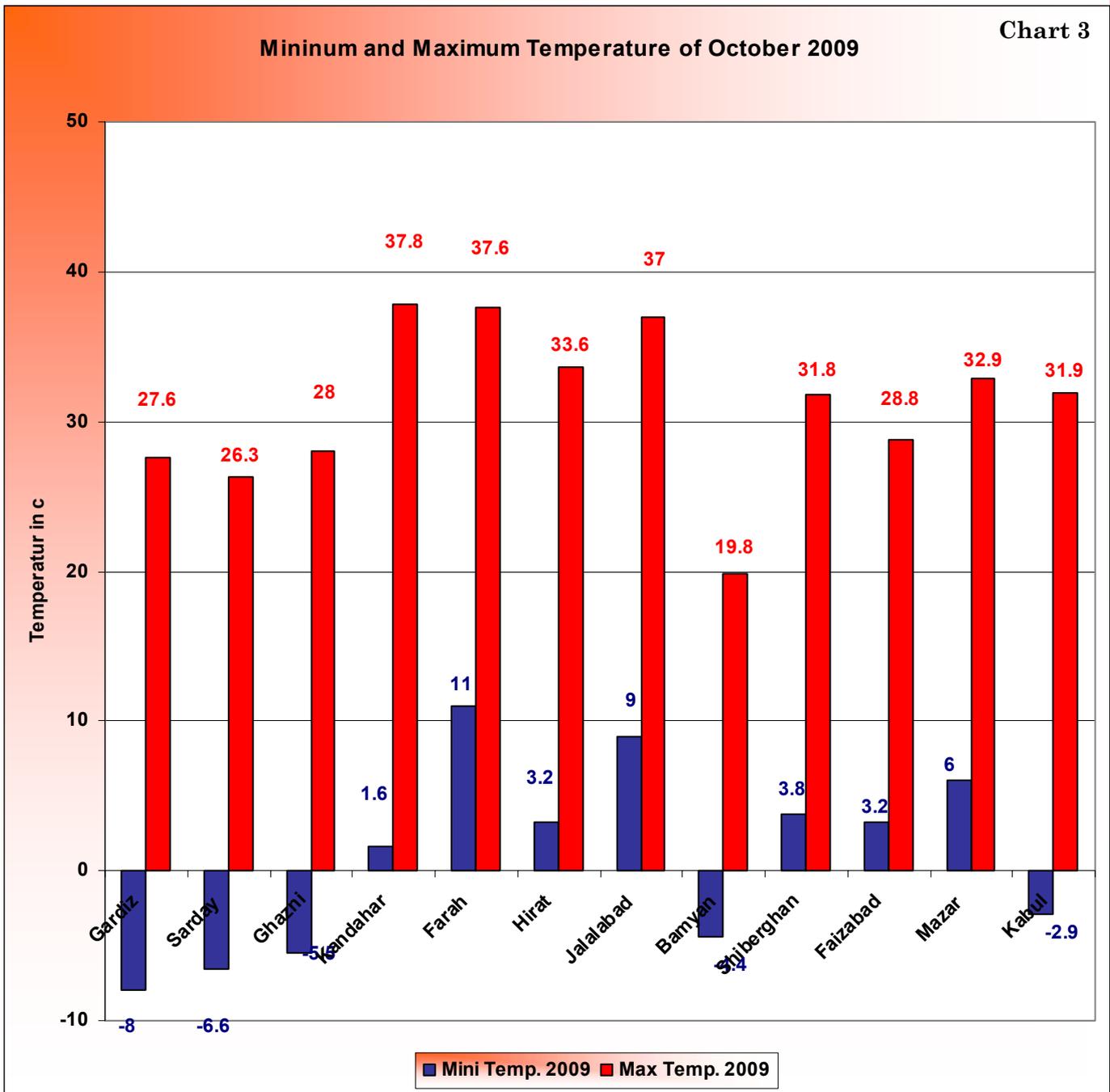
Rainfall for the Month of October 2009

Table 2

Name	Actual Rainfall October 2009	Last year Rainfall October 2008	Long Term Average
Aibak	0	8	11.2
Asmar	0	24	39.5
Baghlan	1	1.6	4.7
Bamian	4	0	3.9
Chardara	2	14.5	9.5
Cheghchran	0	0	6.4
Dara e soof	3	0	9.9
Darulaman	3	1	1
Faizabad	0	19	25.6
Farah	0	0	0.5
Gardiz	0	3.8	3.7
Ghazi Abad	10	0	0.8
Ghazni	0	0	1.3
Hirat	0	2	1.2
Imam Sahib	0	0.3	18.9
Jalalabad	0	6	7.8
Kabul	9.4	1.5	2.3
Kandahar	0	0	0.3
Kariz mir	2	12	4.8
Khust	3	7	6.3
Kunduz	3	20	8.6
Laghman	0	0	5
Lashkargah	0	0	0.1
Mazar	0	1	4.9
Mukur	0	0	2
Paghman	6	8	4.9
Qalal e naw	0	0	5.2
Sarday	0	0	0.1
Sari pul	1	0	19.2
Sarobi	4	10	3.5
Sheberghan	0	0	8.2
Shindand	0	0	1.9
Taluqan	0.5	24	18.3
Urgon	0	0	0
Uruzgan	0	0	0.6
Zaranj	0	0.5	0

Average Temperature for the Month of October 2009

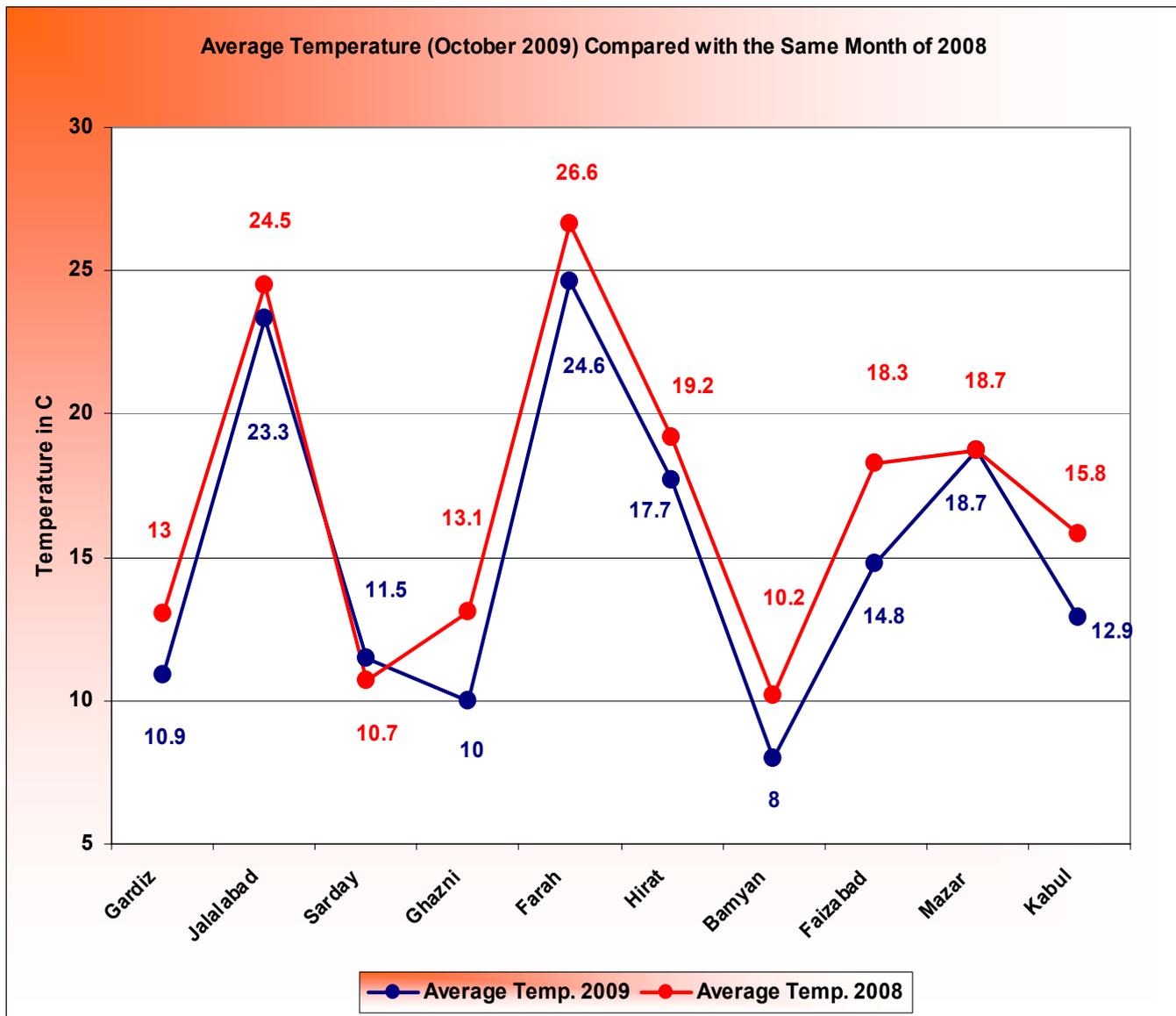
Chart 3



Kandahar with 37.8 C° was the warmest spot of the country during the month of October 2009.

Chart (3) shows maximum and minimum temperature for the month of October 2009, as chart (3) shows Kandahar with 37.8 °C was the warmest spot of the

country during this month but, Sarday with – 6.6 °C experienced extreme cold weather during this month.

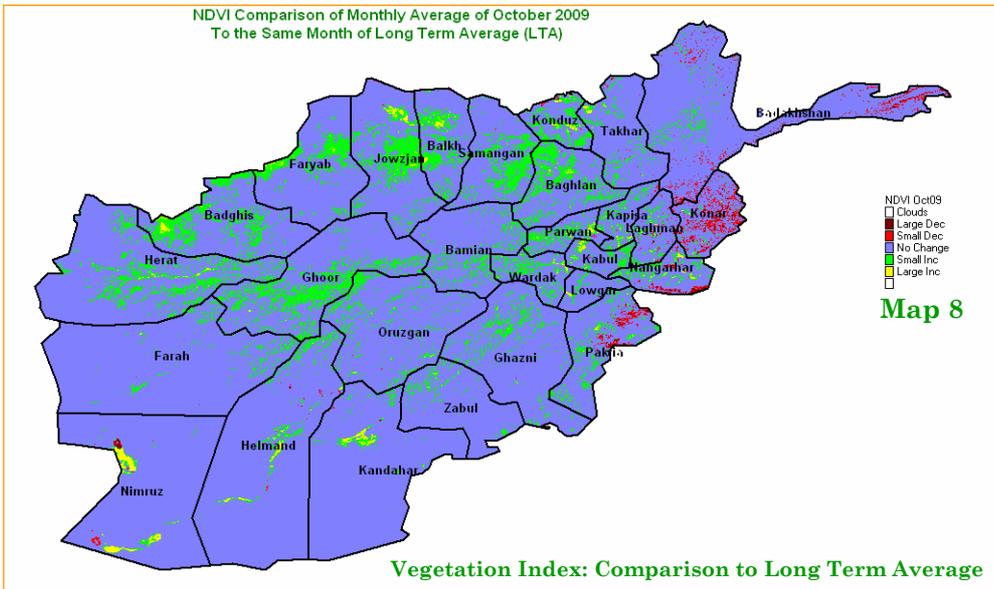
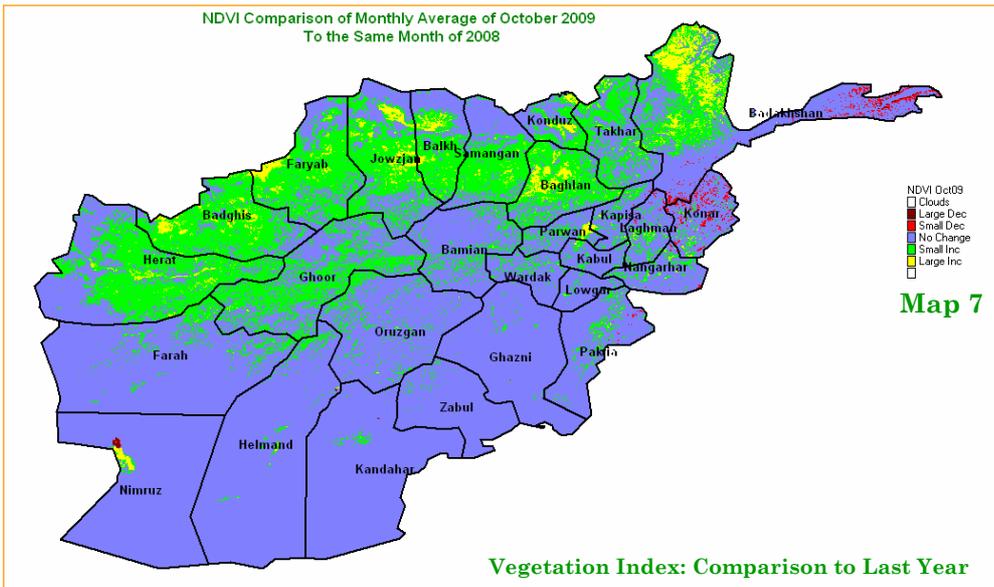


Temperature for the month of October 2009 was lower compared to the same month of last year 2008 across the country.

Below freezing Seasonal temperature have moved gradually in to the country at the beginning of October 2009, temperature slipped below zero over night in the highest elevations in the Northeastern region, Hindokosh mountains and Central Highlands, after mid of October 2009 high temperature also continued to drop. Temperature for the month of October 2009 was lower

compared to the same month of last year across the country. Comparison of monthly average of temperature for the month of October 2009 with the same month in 2008 chart (4) shows a decrease of temperature during the month of October 2009 compared to the same month of last year around the country and temperature departure was 1 to 4 C°.

Comparison of NDVI October 2009



NDVI: October 2009

Comparison of monthly average of NDVI for the month of October 2009 with the same month in 2008 map (7) shows small increase of NDVI in the Northern, Northwestern and Western, regions during the month of October 2009 compared to the same month of last year.

There is no change of NDVI in the remaining regions of the country during the month of October 2009 over the same month in 2008.

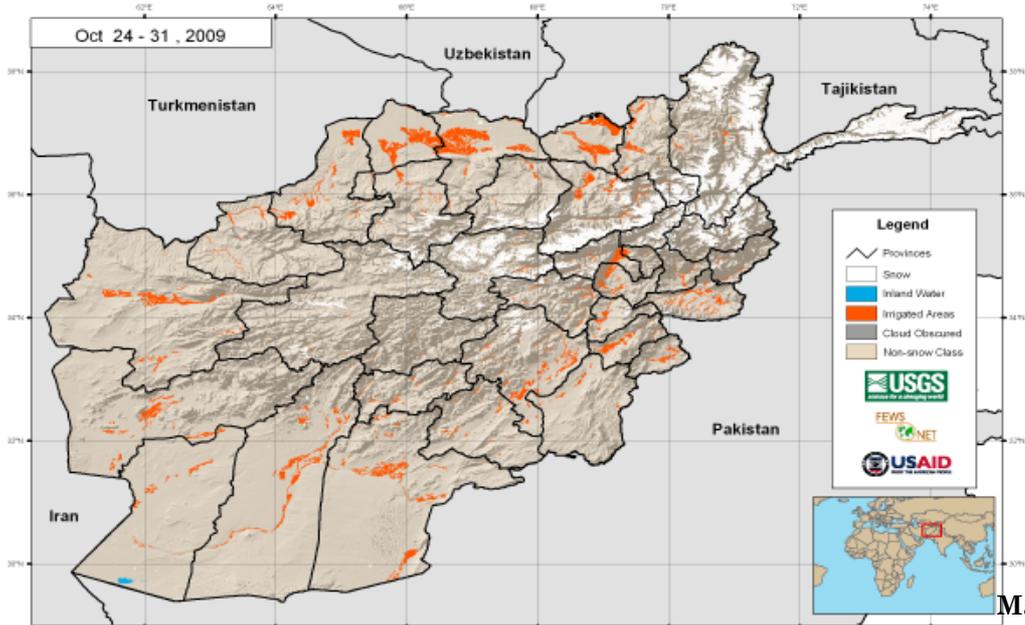
Comparison of monthly average of NDVI for the month of October 2009 with the same month of long term average

map (8) shows small increase of NDVI as separated in limited areas in the Northern regions, some parts in the Western region, some parts in the western regions and limited area in the Central Highlands during the month of October 2009 over the same month of long term average.

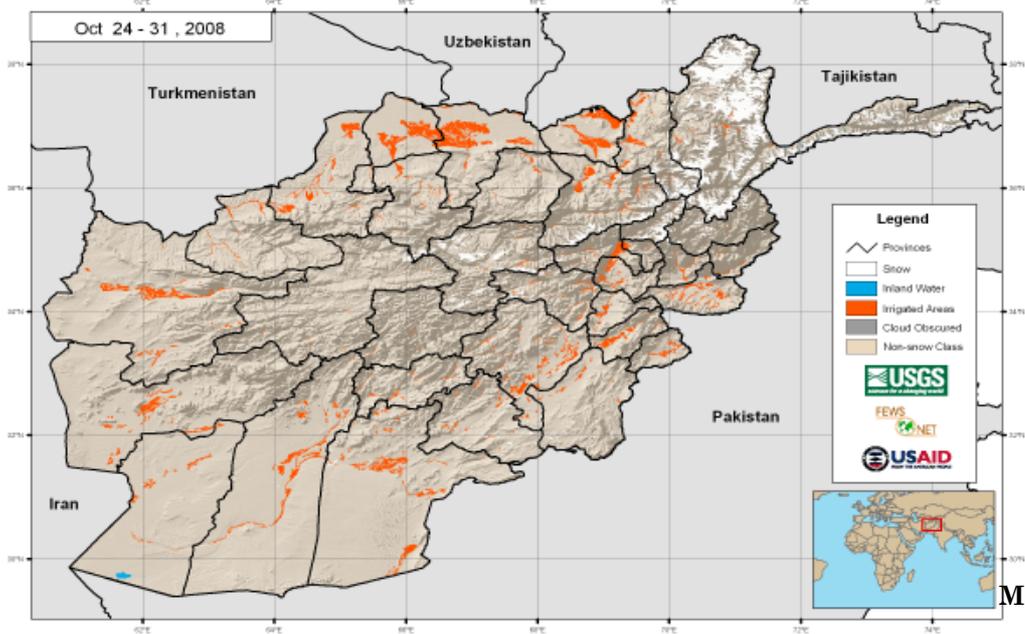
There is no change in NDVI value in the remaining regions of the country during the month of October 2009 compared to the same month of long term average.

Comparison of Snow Extent

MODIS 8-day Snow Cover Extent - Current Period 2009 vs 2008



Map 9



Map 10

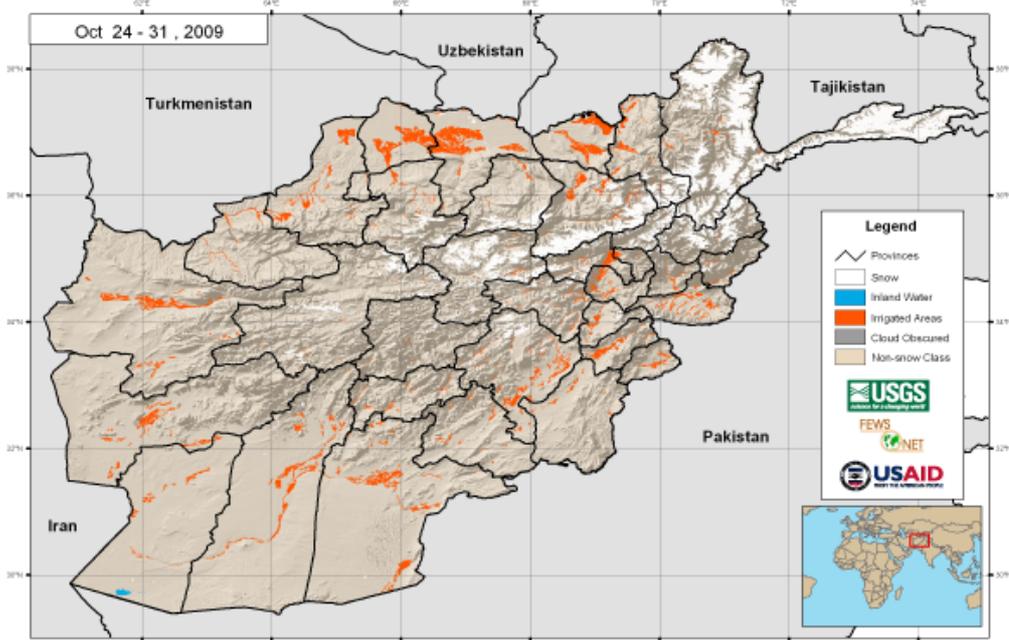
Normally Snow starts in October in the Northeastern Hindokosh mountains and Central Highlands.

Snow pack developed in above mentioned regions during October 2009, snow will increase during the upcoming months.

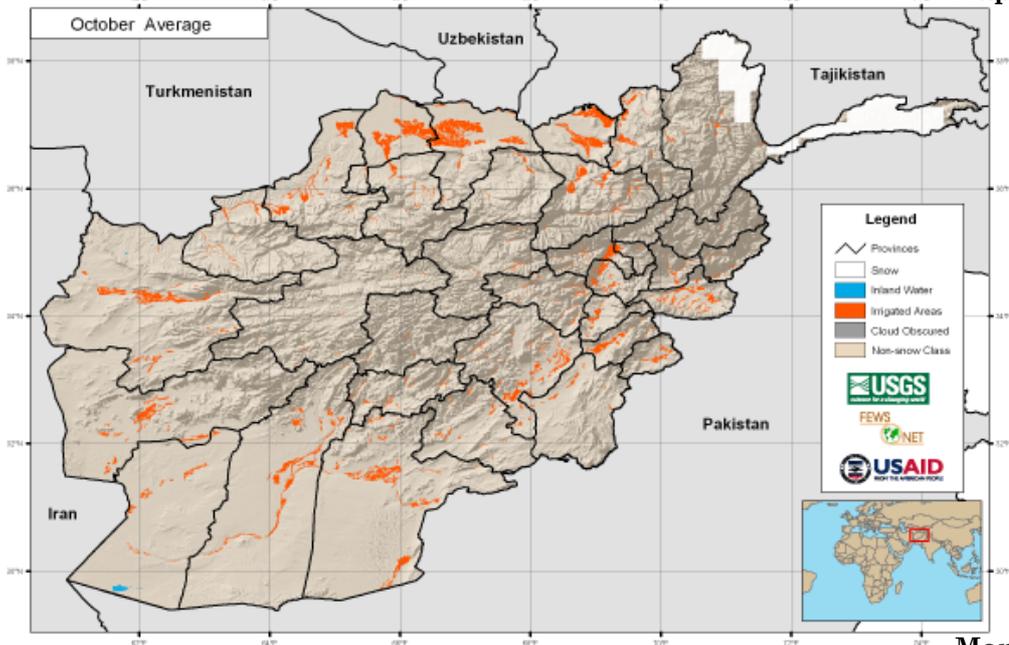
Comparison of snow extent for the period (24–31) October 2009 with the same period in 2008 as in map (9) shows small increase of snow extent in limited areas in the northeastern region, Hindokosh areas and some parts in the Central Highlands during the above mentioned period of October 2009 compared to the same period of last year.

Comparison of Snow Extent

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



Map 11

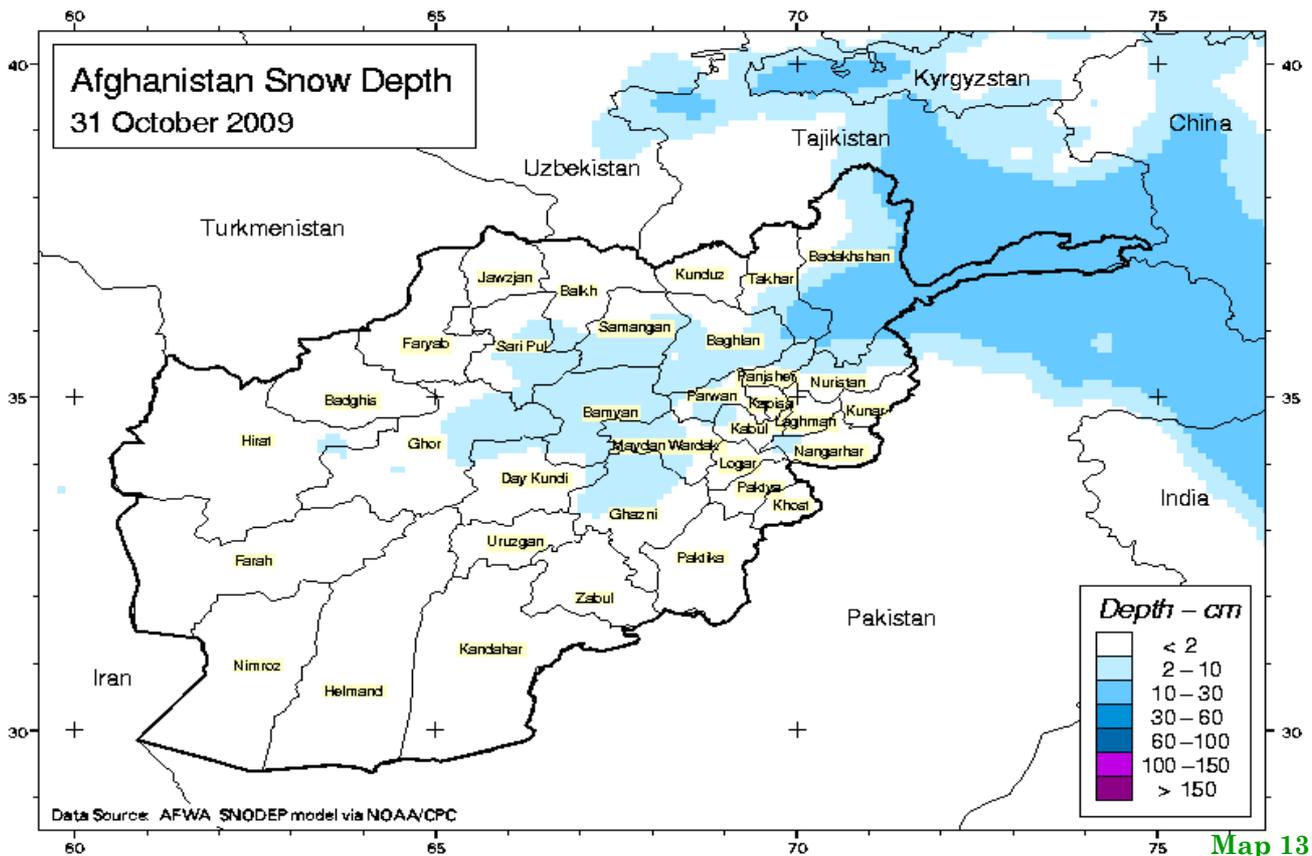


Map 12

Comparison of snow extent for the month of October 2009 with the same month of long term average map (11) show an increase of snow extent during the month

of October 2009 over the same month of long term average.

Afghanistan Snow Depth for the of October 2009



Map (13) shows snow depth in the end of October 2009 10 to 30 cm in the northeastern region and 2 to 10 cm in snow coverage area.. recorded for Central Highlands and neighboring areas.

As map (13) shows the snow depth has been recorded

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<http://afghanistan.cr.usgs.gov/agro.asp>
<http://www.mail.gove.af/m>