ضمیمه: ۱

شبکه هواشناسی زراعتی
وضعیت پروژه هواشناسی زراعتی

الف : استیشن های هواشناسی.
ب : نظارت بر محصولات و علفچرها .
ج : شبکه مخابراتی رادیو کودان.

معرفی مختصر پروژه هواشناسی زراعتی اداره سروی جیولوجی آمریکا و وزارت زراعت ،مالداری و آبیاری:

۱- پروژه هواشناسی زراعتی در اکتوبر ۲۰۰۲ بمنظور نصب شبکه استیشن های هوا شناسی زراعتی ایجاد شد و هدف آن انکشاف و عرضه کامل خدمات هواشناسی زراعتی میباشد. از آن زمان تا کنون در حدود ۱۰۸ استیشن مشاهداتی را نصب و مراقبت نموده است. تمام ۱۰۸ استیشن در محلات مختلف روزانه مقدار بارندگی و ارتفاع برف را ثبت مینماید و برعلاوه آن ۸۰ استیشن، مشاهدات غله جات از قبیل گندم، برنج، جو، جواری را ماهانه دو مرتبه گزارش میدهند و مشاهدات غله جات معلومات را در مورد تمام شرایط مخالف جوی، کمبود امکانات، گیاه هرزه، آفات و امراض زراعتی و غیره شامل میشود.

معلومات راجع به مراحل فینالوژیکی غله جات (بشمول آماده بودن زمین)، ساحات تحت کشت ، (فیصدی تمام منطقه زراعتی)، تاریخ کشت غله و برداشت محصول، محصول متوقع و محصول واقعی نیز جمع آوری میگردد. در ۲۵ محل استیشن های هواشناسی بصورت مکمل روز سه مرتبه مشاهدات هواشناسی زراعتی را انجام میدهند. از جمله ۱۹ استیشن کلاسیک بوده و ۷ پارامتر جوی را ثبت و مشاهده مینماید و ۴ استیشن بصورت اتومات روزانه ۲۱ پارامتر جوی را مشاهده مینمایند.

۲- پروژه هواشناسی زراعتی همچنان سیستم معلومات و ثبت ارقام هواشناسی را انکشاف داده است که هم اکنون تمام علاقه مندان میتوانند از آن استفاده کنند ، سیستم ارقام دیتای قبلی از ۱۹۴۲ الی ۱۹۹۸ (اخذ شده از ۲۸ استیشن)، به شمول ۲۹ پارامتر های جوی و فایل ها سرسبزی از ۱۹۹۸ به این طرف. سیستم ارقام به اساس استفاده از پروگرام اگرومیت شیل USGSاست که شامل در حدود ۲۰ پروگرام مکمل کمپیوتری میباشد.

۳- پروژه هواشناسی زراعتی هم اکنون ۱۰۸ مشاهد بخش مشاهدات هواشناسی زراعتی را تربیه مینماید و هم متخصصین بخش های دیگر که از ادارات مختلف آمده اند به شمول NGOها و چهار وزارتخانه . جمعاً ۲۶۰ نفر پرسونل در بخش میتود های هواشناسی زراعتی، تخنیک مشاهده، سامان آلات و کمپیوتر تربیه شده اند.

۴- برای ۱۲۰ نفر مشاهد و چهار نفر همکار وزارتخانه ها معاش تشویقی پرداخت می گردد.

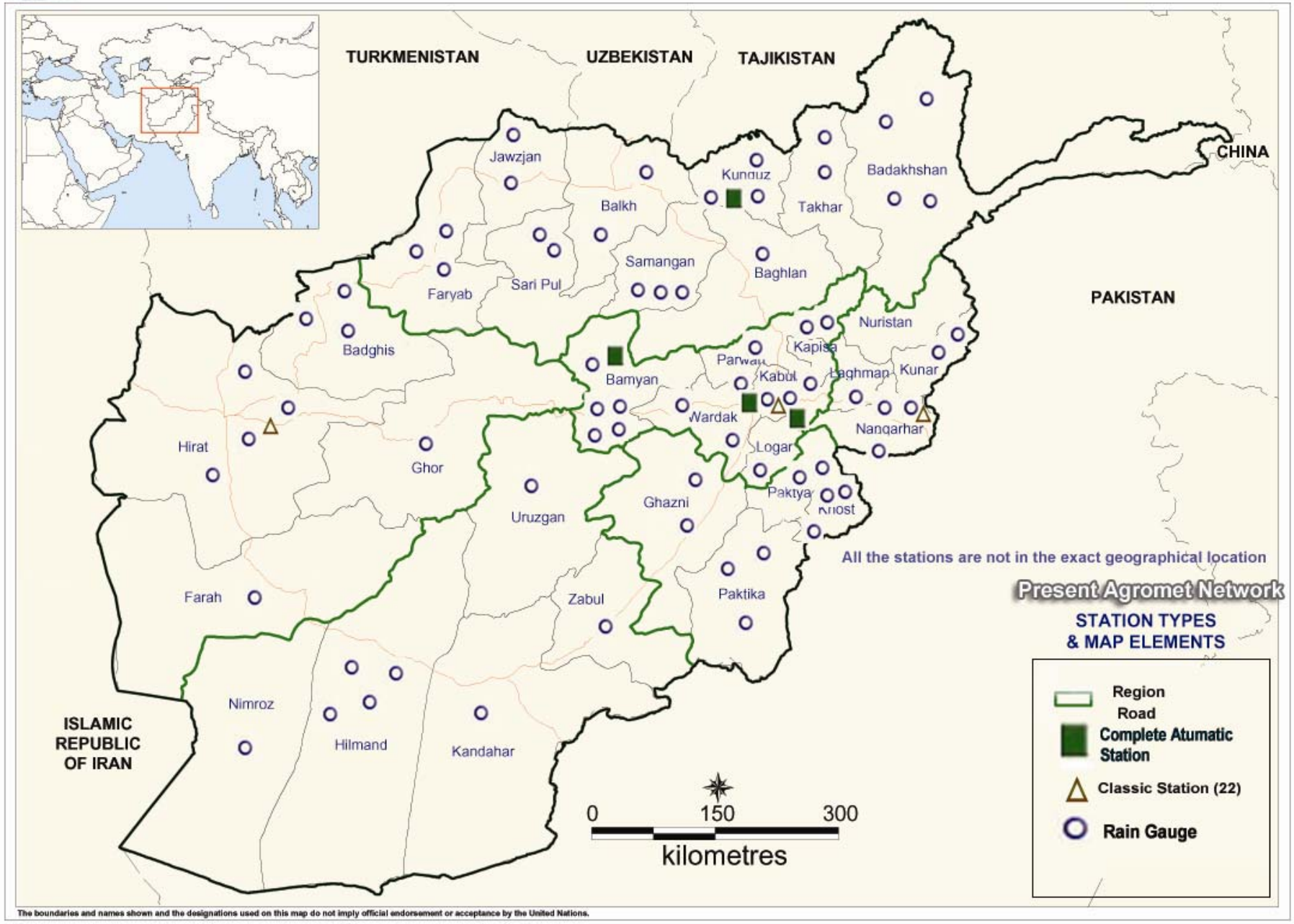
۵- اکثر تحلیل های احصایوی اطلس خطرات اگرواقلیمی برای افغانستان تا کنون تکمیل گردیده که تمام ۲۹ پارامتر های اگرومیتیورولوژیکی را تحت پوشش قرار میدهد به شمول ارقام اساسی پروژه اگرومیتیورولوژی که تماماً در تماس با محصولات زراعتی و مصوونیت غذا میباشد.

۶- پروژه اگرومیتیورولوژی هم اکنون ماهنامه و فصلنامه هواشناسی زراعتی را چاپ و به نشر میرساند که به اساس مشاهدات سطح زمین و اقمار مصنوعی، مودل بیلانس آبی، احتمالات بارندگی و غیره تدوین میشود که با تحلیل وضع اگرومیتیورولوژیکی، گراف ها ، نقشه ها و غیره تجدید می کردد. ماهنامه به دو زبان عمده انگلیسی و دری چاپ و نشر میگردد، پروژه اگرومیتیورولوژی هم چنان مطالب برای جلسات تخنیکی ، مطبوعات،اطلاعات امور زراعتی را در طول فصل زراعتی تهییه میدارد.

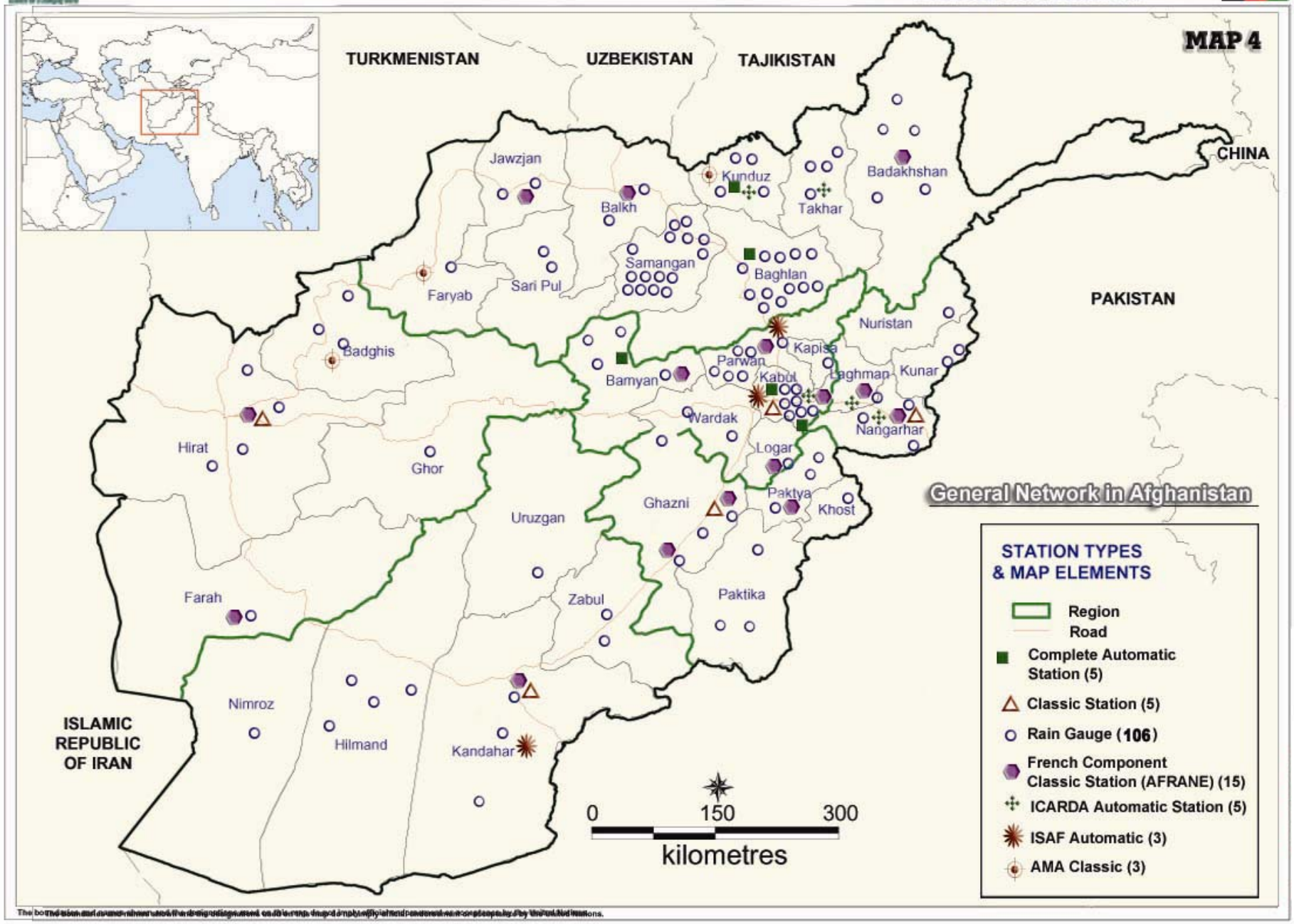
۷- پروژه اگرومیتیورولوژی به تعداد ۱۸ جلد کتب رهنمای تخنیکی و تربیوی را به نشر رسانیده که شامل ۱۴۹ صفحه رهنمای تربیوی به زبان دری و ۱۵۴ صفحه تحلیل اگرومیتیورولوژیکی شامل ۱۱ پارامتر اگرومیتیورولوژیکی است. اکثر این رهنما ها به زبان دری ترجمه گردیده است.

۸- پروژه اگرومیتیورولوژی در همکاری نزدیک با سروی جیولوجیکی آمریکا (USGS) و کمیسیون اروپایی مرکز پیشگویی آسیای مرکزی قرار دارد که با مودل های منحصر به آنها دیتا تهیه میگردد. دیتای مورد نظر به صورت قانونی برای بیشتر از ۷۰۰ استفاده کننده محلی و بین المللی فرستاده میشود. بصورت عموم پروژه هواشناسی زراعتی معلومات اقلیمی را وقتاً فوقتاً برای مقاصد زراعت و مصوونیت غذا تهیه مید ا رد. این پروژه از لحاظ مالی توسط اداره انکشافی ایالات متحده آمریکا تمویل میگردد.

AGRICULTURAL RESEARCH DEPARTMENT - METEOROLOGICAL DEPARTMENT - USGS AGROMET PROJECT



Data Source : USGS Agromet Component
Data Date: 10-08-2007



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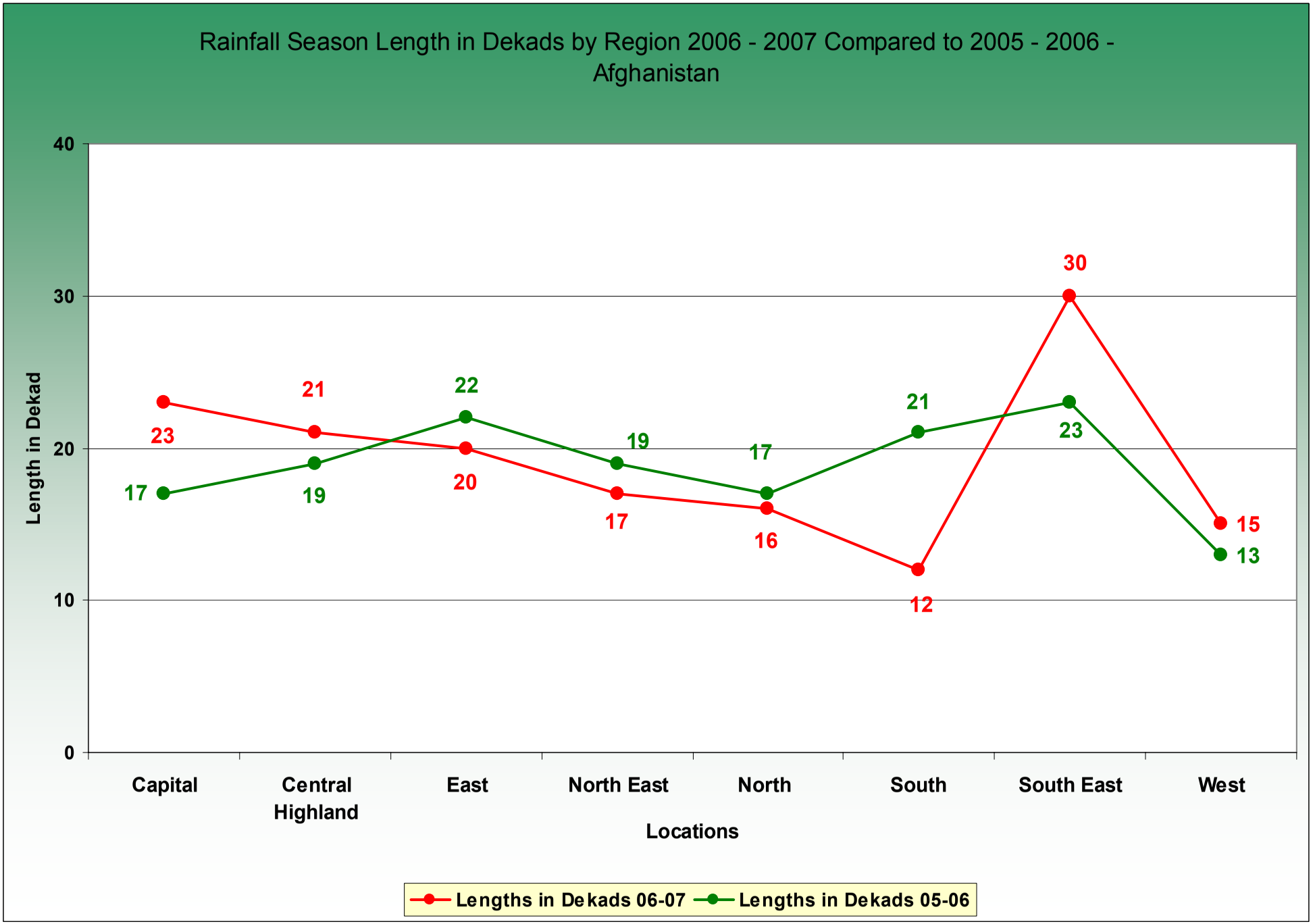
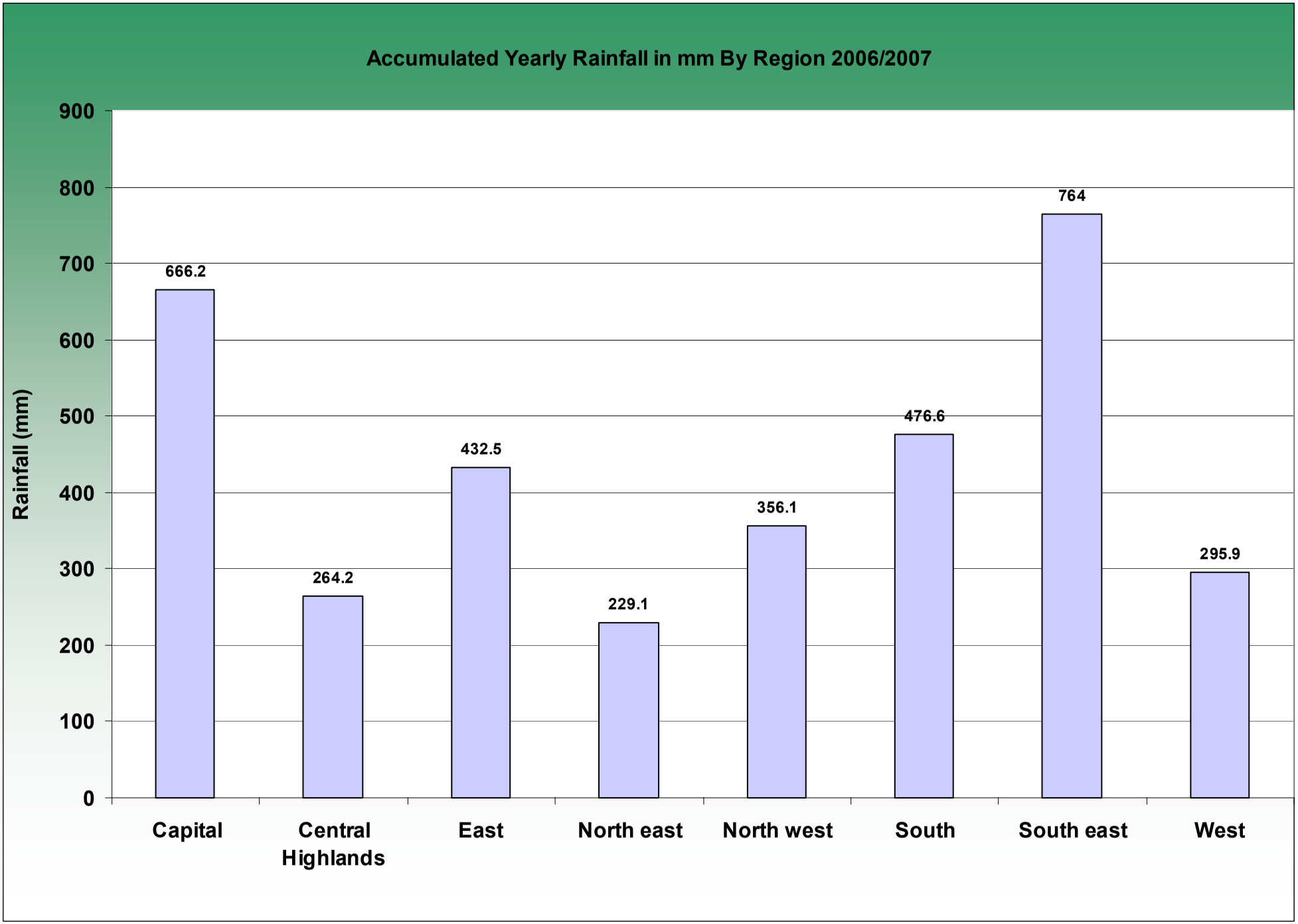
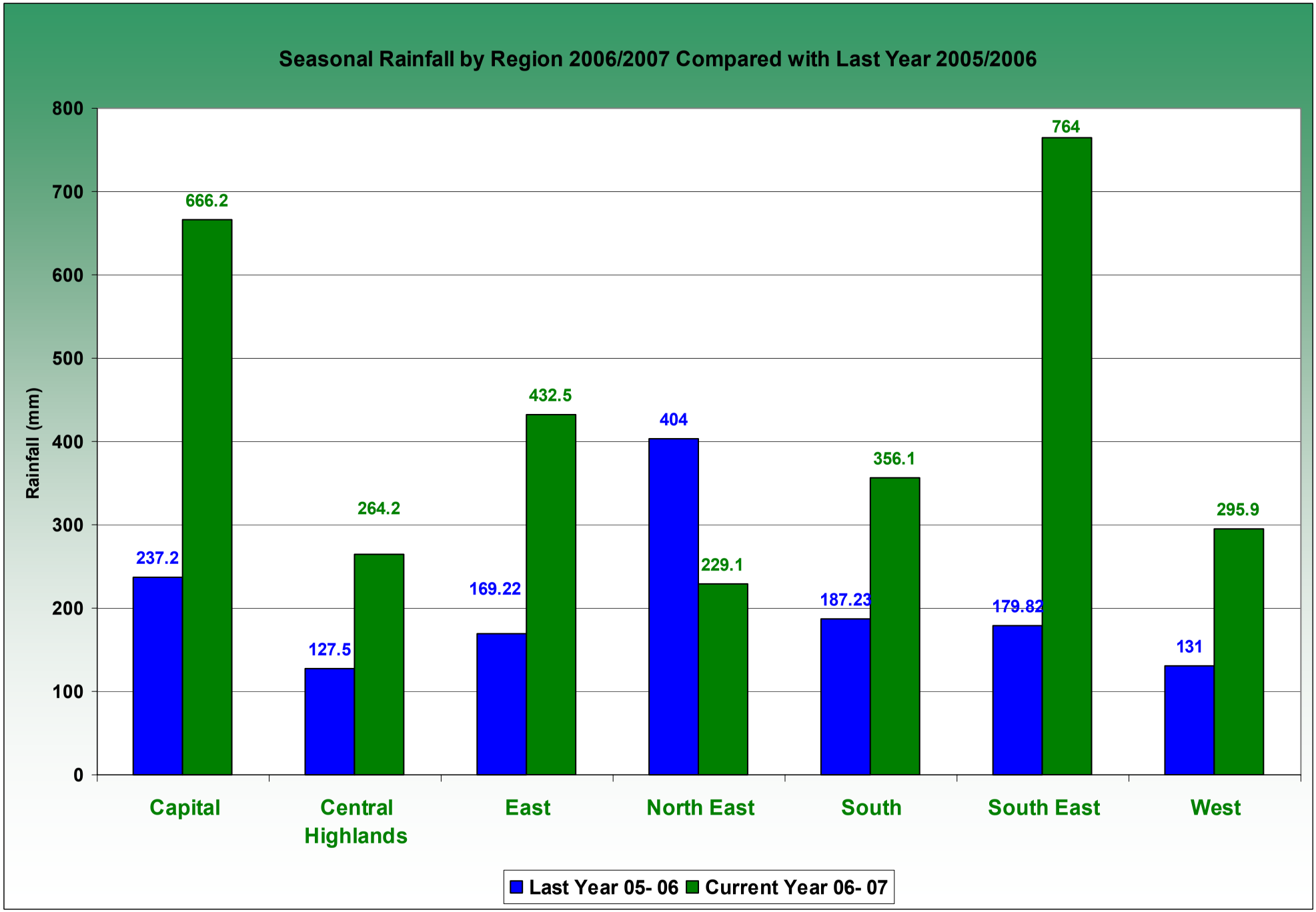
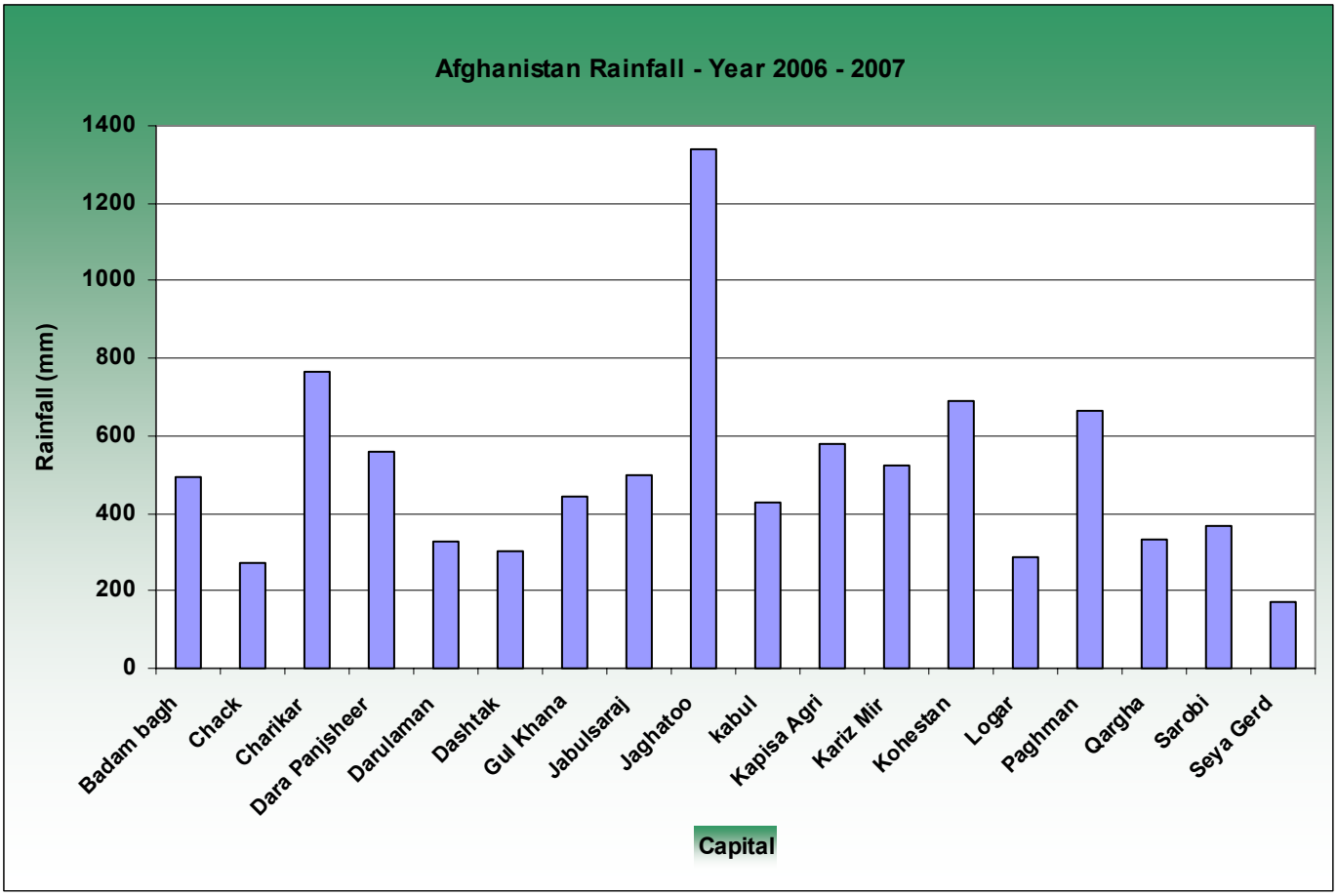

Rainfall Season Length in Dekads by Region 2006 - 2007 Compared to 2005 - 2006 - Afghanistan
Length in Dekad
40
30
20
10
0
23
21
20
17
16
12
30
15
17
19
22
19
17
21
23
13
Capital
Central Highland
East
North East
North
South
South East
West
Locations
Lengths in Dekads 06-07
Lengths in Dekads 05-06

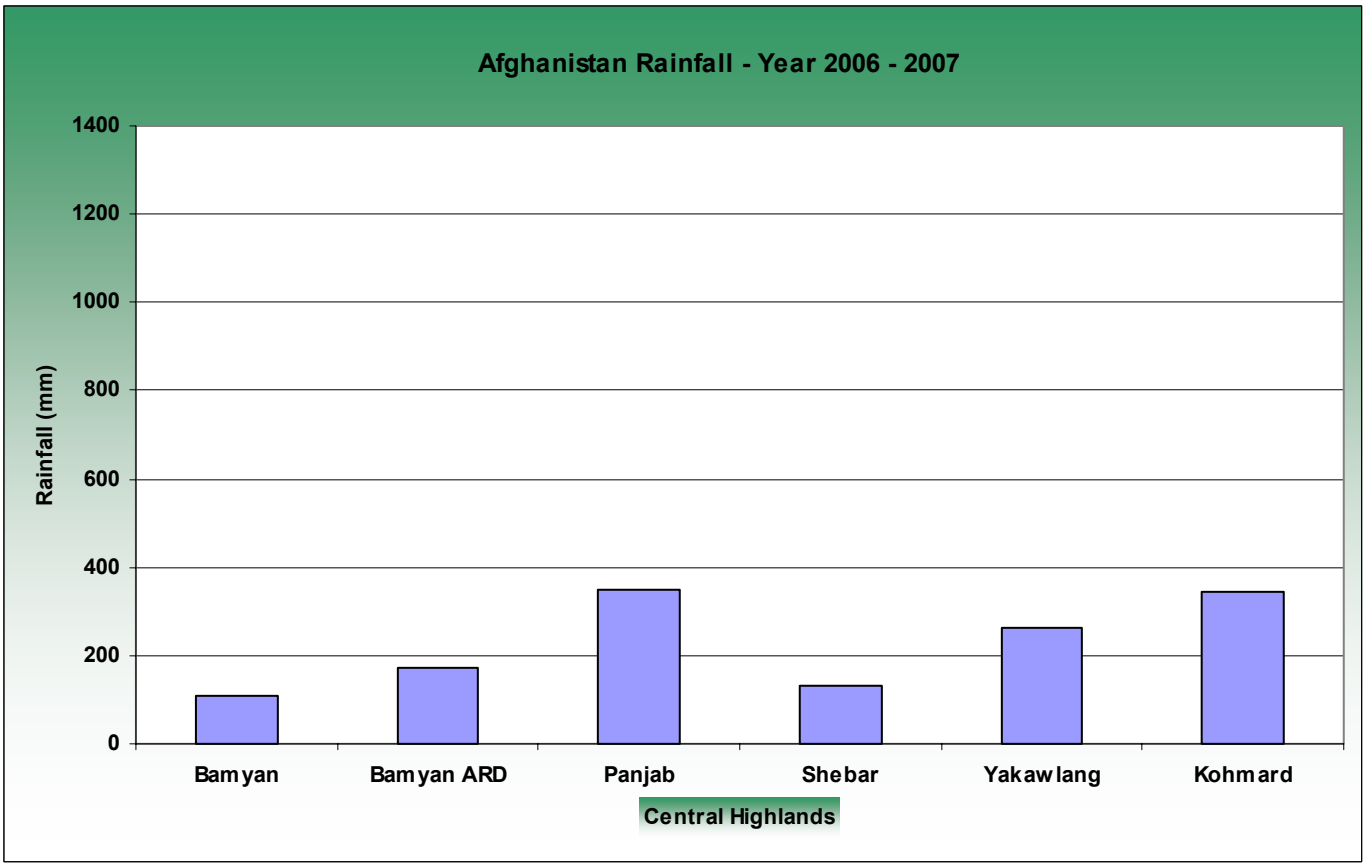
Average Recorded Rainfall (mm) by Region - Afghanistan Season 2006 - 2007													
Region	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Yearly Total
Capital	0.3	0.9	16.0	43.7	4.1	25.5	35.5	2.6	1.9	4.0	1.2	5.4	141.2
Central High-lands	0.0	0.0	14.0	8.4	5.0	7.3	36.0	4.7	5.3	6.7	0.0	0.6	88.0
East	5.0	7.0	3.8	21.2	0.3	32.8	51.8	0.0	0.0	12.0	0.0	3.6	137.6
North east	0.0	0.8	12.1	8.5	1.3	11.9	31.0	6.3	1.9	2.5	0.0	0.0	76.2
North west	0.0	0.0	14.0	16.6	10.0	30.6	22.8	12.3	12.6	0.0	0.0	0.0	118.9
South	0.0	0.0	42.3	54.0	8.3	16.1	14.6	0.0	15.3	8.5	0.0	0.0	159.2
South east	3.3	16.8	9.3	31.7	63.0	44.3	44.0	9.2	16.3	7.3	9.3	0.0	254.7
West	0.0	0.0	25.3	12.6	8.3	20.2	27.8	4.3	0.0	0.0	0.0	0.0	98.6
Minimum	0.0	0.0	3.8	8.4	0.3	7.3	14.6	0.0	0.0	0.0	0.0	0.0	76.2
Maximum	5.0	16.8	42.3	54.0	63.0	44.3	51.8	12.3	16.3	12.0	9.3	5.4	254.7
Average	1.1	3.2	17.1	24.6	12.5	23.6	32.9	4.9	6.7	5.1	1.3	1.2	134.3

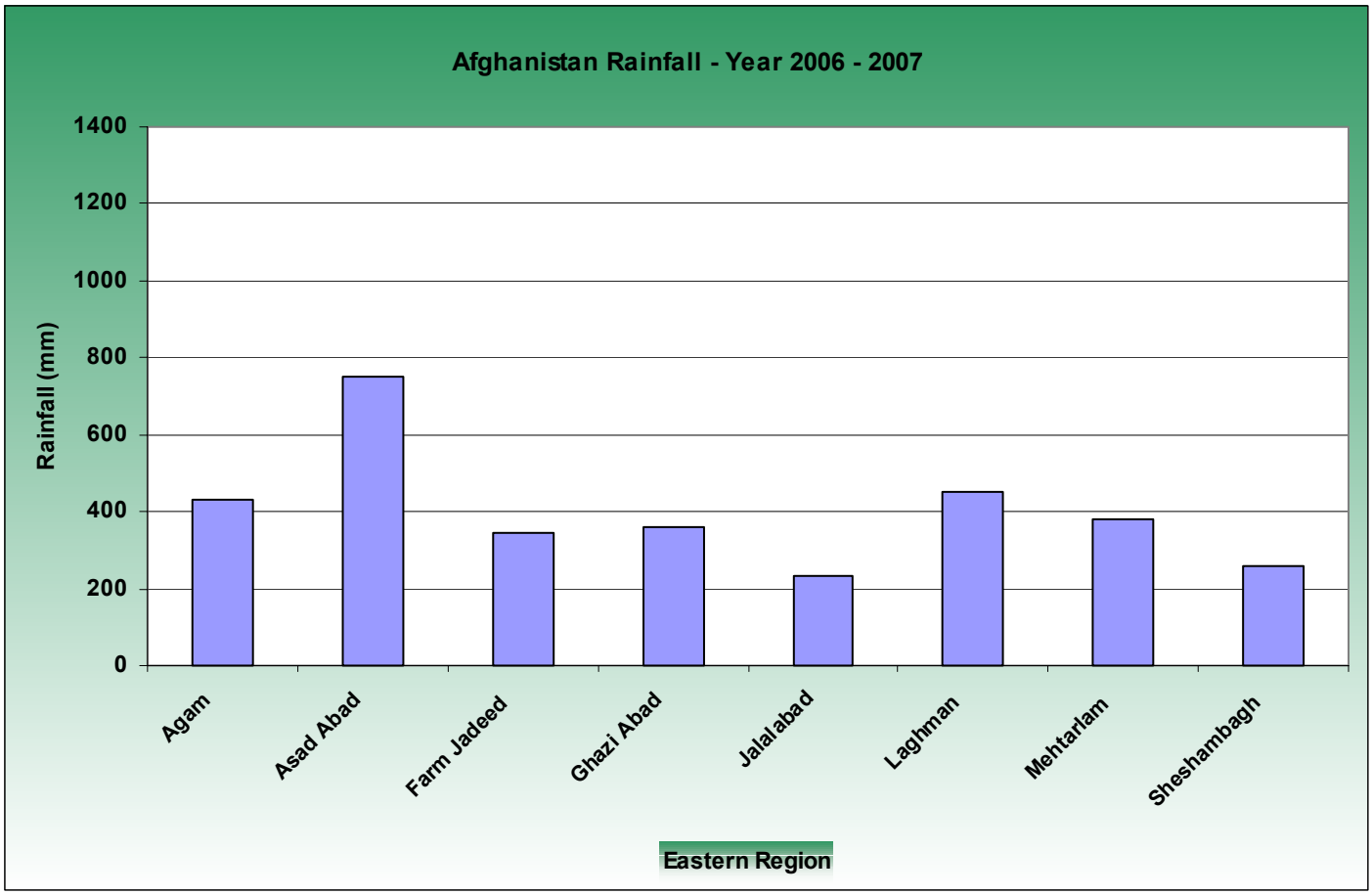

Accumulated Yearly Rainfall in mm By Region 2006/2007
Rainfall (mm)
900
800
700
600
500
400
300
200
100
0
666.2
264.2
432.5
229.1
356.1
476.6
764
295.9
Capital
Central Highlands
East
North east
North west
South
South east
West

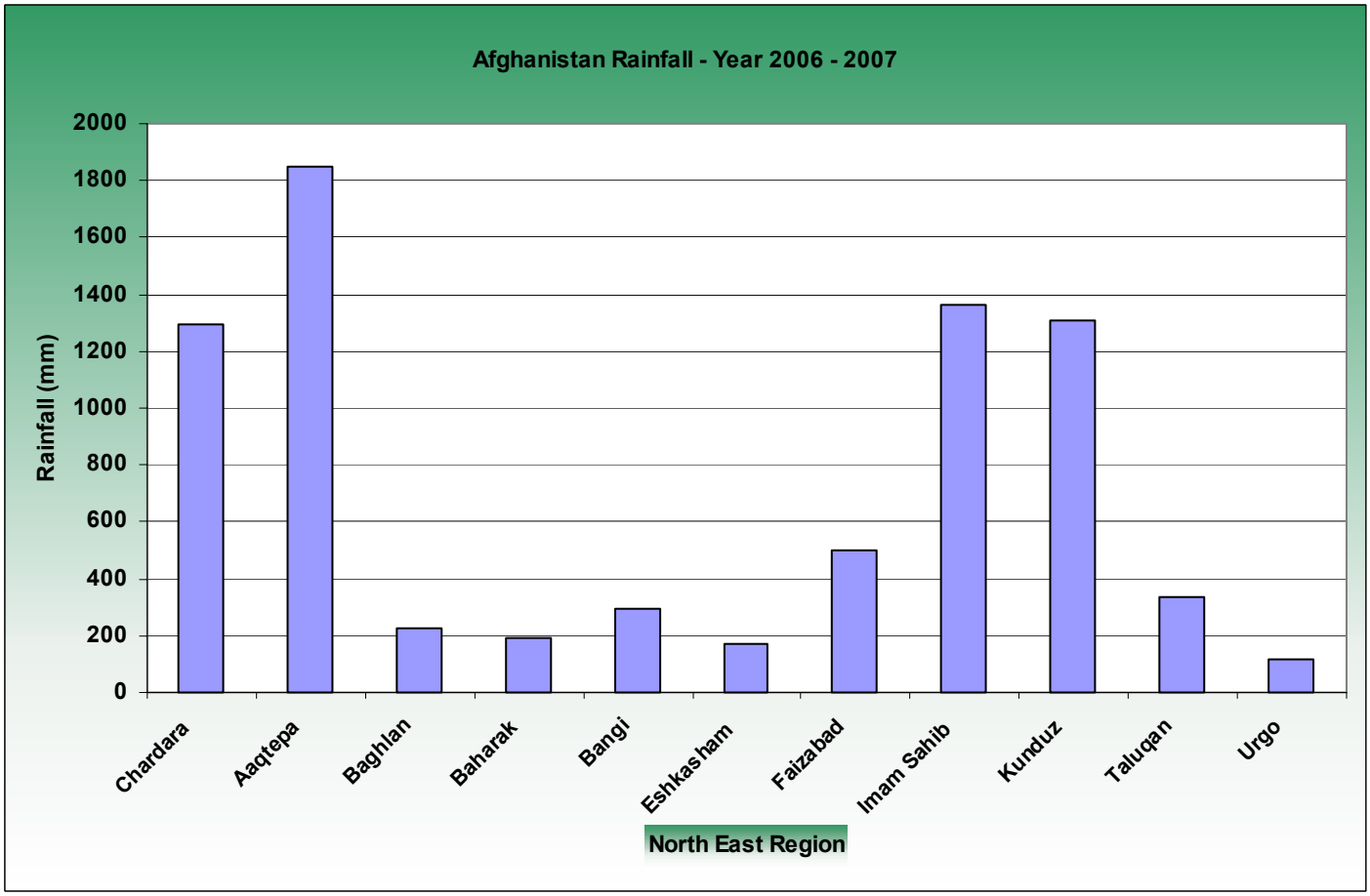

Seasonal Rainfall by Region 2006/2007 Compared with Last Year 2005/2006
Rainfall (mm)
800
700
600
500
400
300
200
100
0
237.2
666.2
127.5
264.2
169.22
432.5
404
229.1
187.23
356.1
179.82
764
131
295.9
Capital
Central Highlands
East
North East
South
South East
West
Last Year 05- 06
Current Year 06- 07

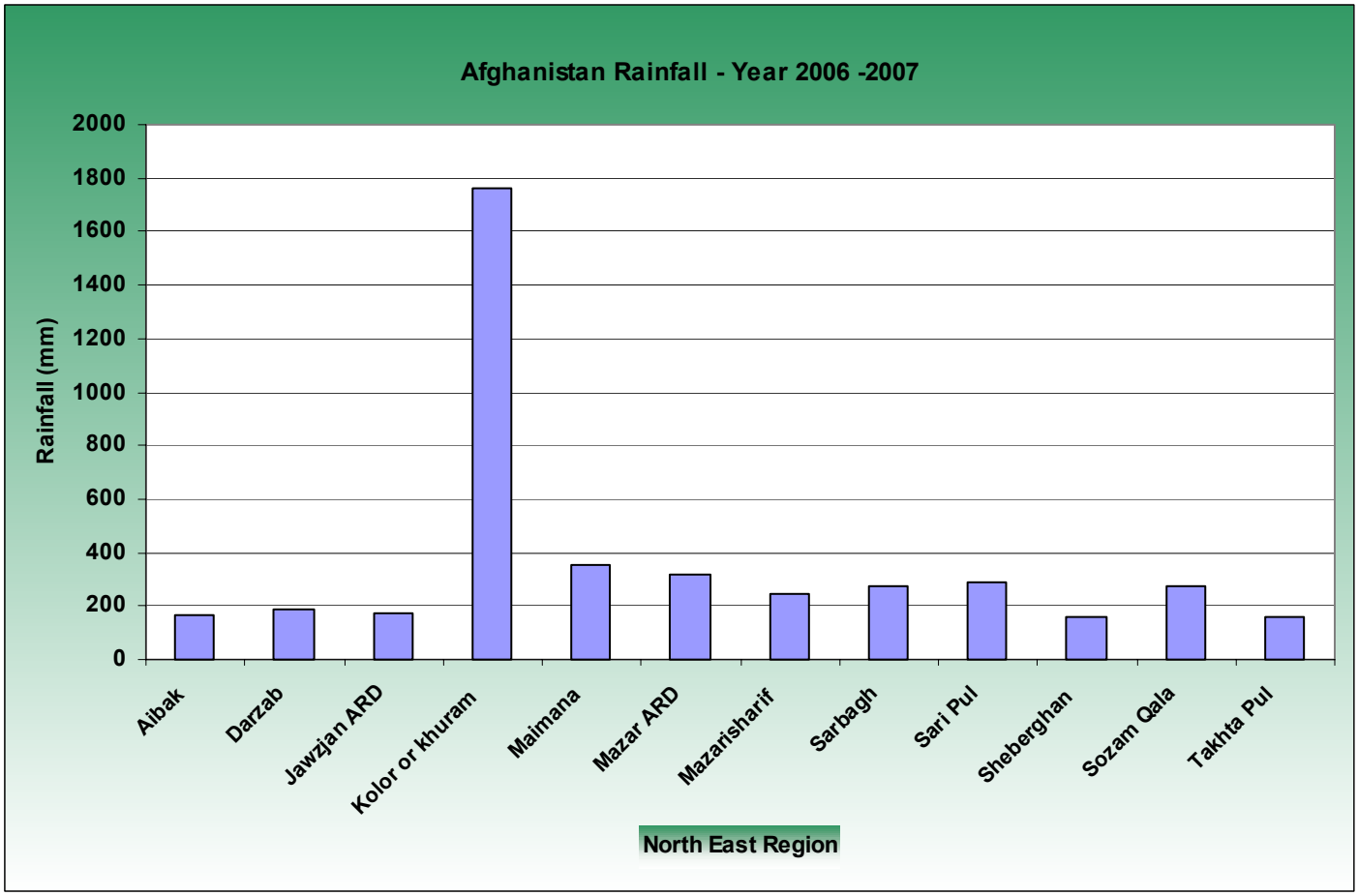
بارندگی سالانه فصل (۲۰۰۶-۲۰۰۷) نظر به مناطق

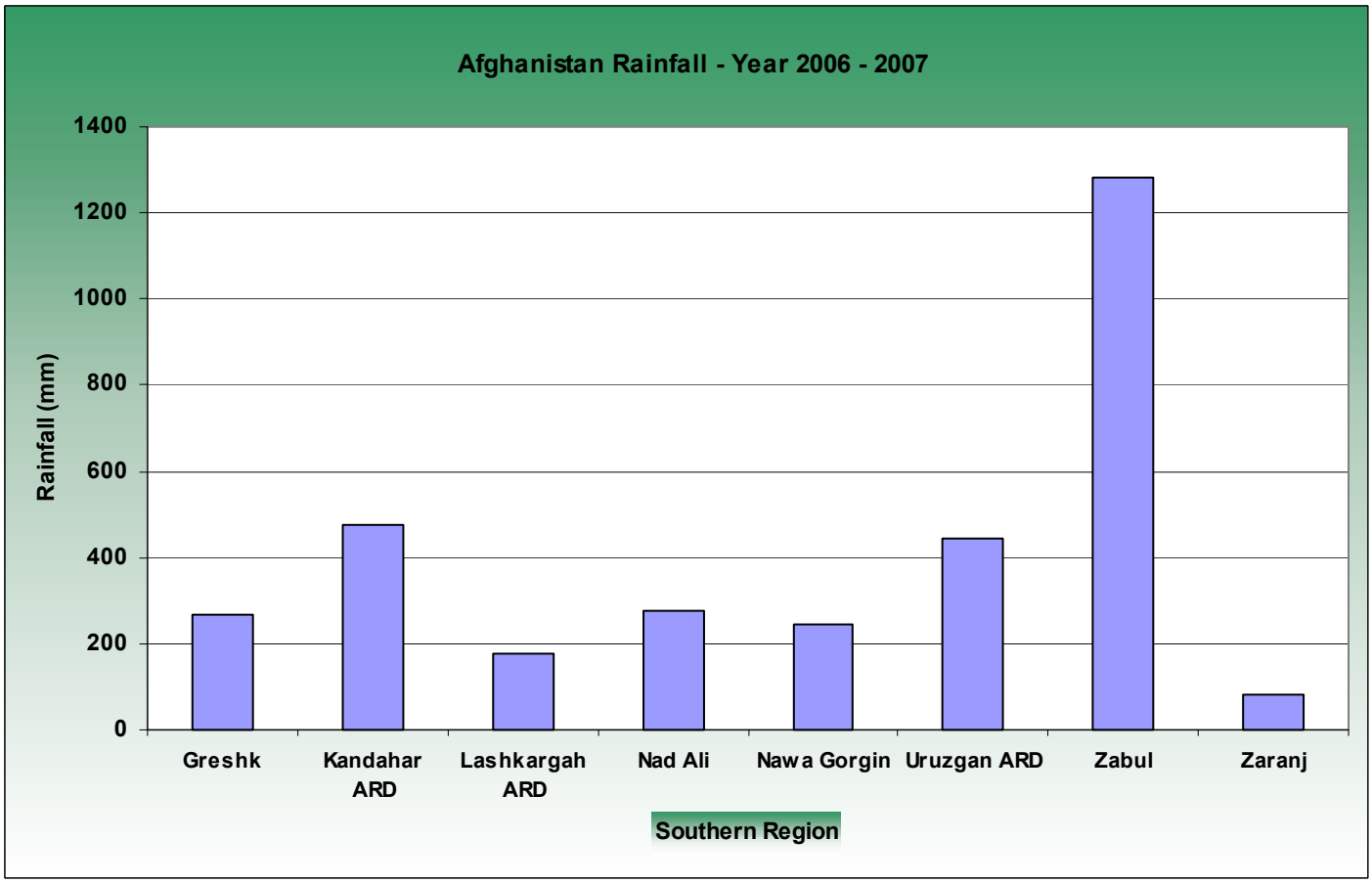


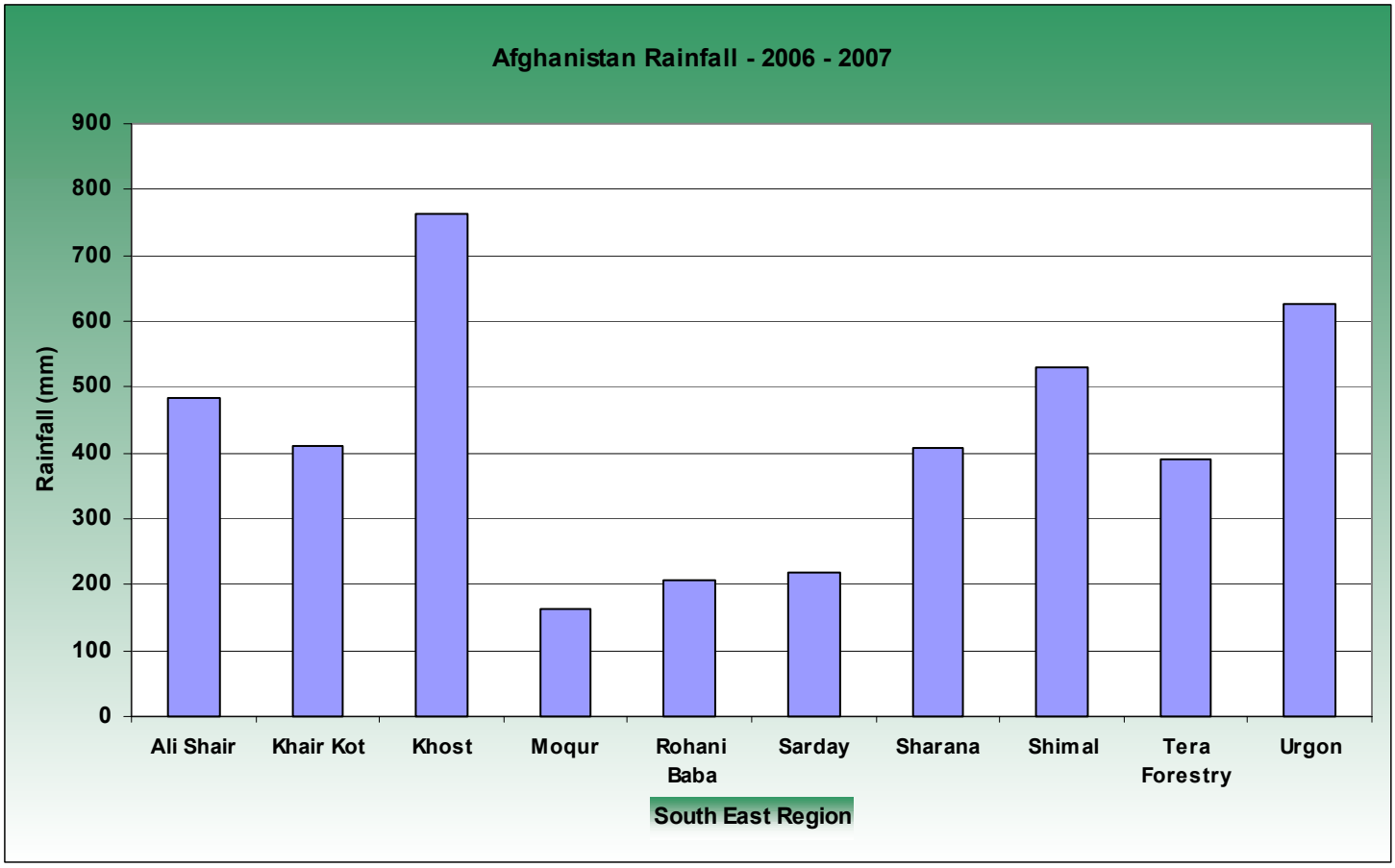


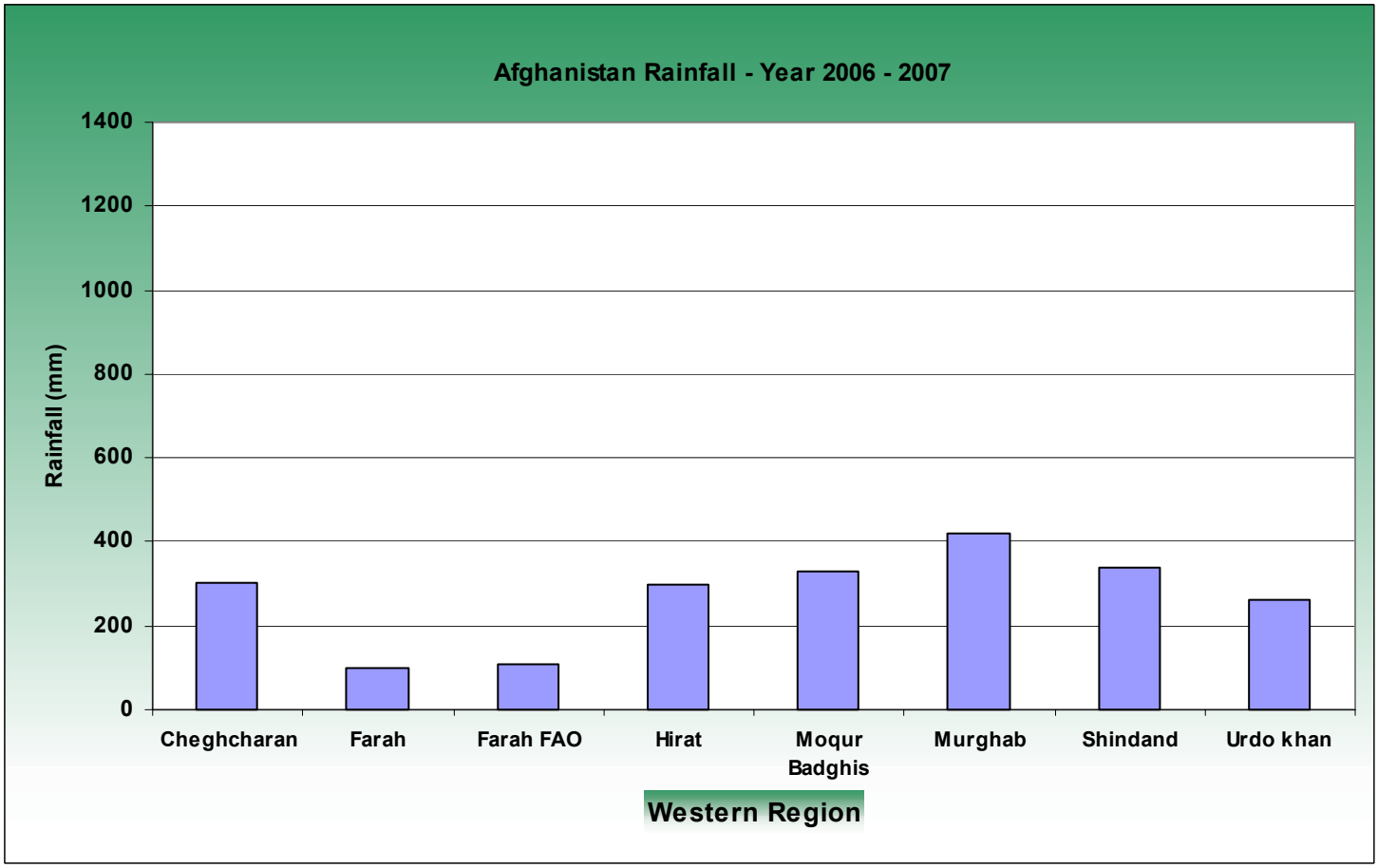

Afghanistan Rainfall - Year 2006 - 2007
Rainfall (mm)
1400
1200
1000
800
600
400
200
0
Agam
Asad Abad
Farm Jadeed
Ghazi Abad
Jalalabad
Laghman
Mehtarlam
Sheshambagh
Eastern Region


Afghanistan Rainfall - Year 2006 - 2007
Rainfall (mm)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Chardara
Aaqtepa
Baghlan
Baharak
Bangi
Eshkasham
Faizabad
Imam Sahib
Kunduz
Taluqan
Urgo
North East Region


Afghanistan Rainfall - Year 2006 -2007
Rainfall (mm)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Aibak
Darzab
Jawzjan ARD
Kolor or khuram
Maimana
Mazar ARD
Mazarisharif
Sarbagh
Sari Pul
Sheberghan
Sozam Qala
Takhta Pul
North East Region


Afghanistan Rainfall - Year 2006 - 2007
Rainfall (mm)
1400
1200
1000
800
600
400
200
0
Greshk
Kandahar ARD
Lashkargah ARD
Nad Ali
Nawa Gorgin
Uruzgan ARD
Zabul
Zaranj
Southern Region


Afghanistan Rainfall - 2006 - 2007
Rainfall (mm)
900
800
700
600
500
400
300
200
100
0
Ali Shair
Khair Kot
Khost
Moqur
Rohani Baba
Sarday
Sharana
Shimal
Tera Forestry
Urgon
South East Region

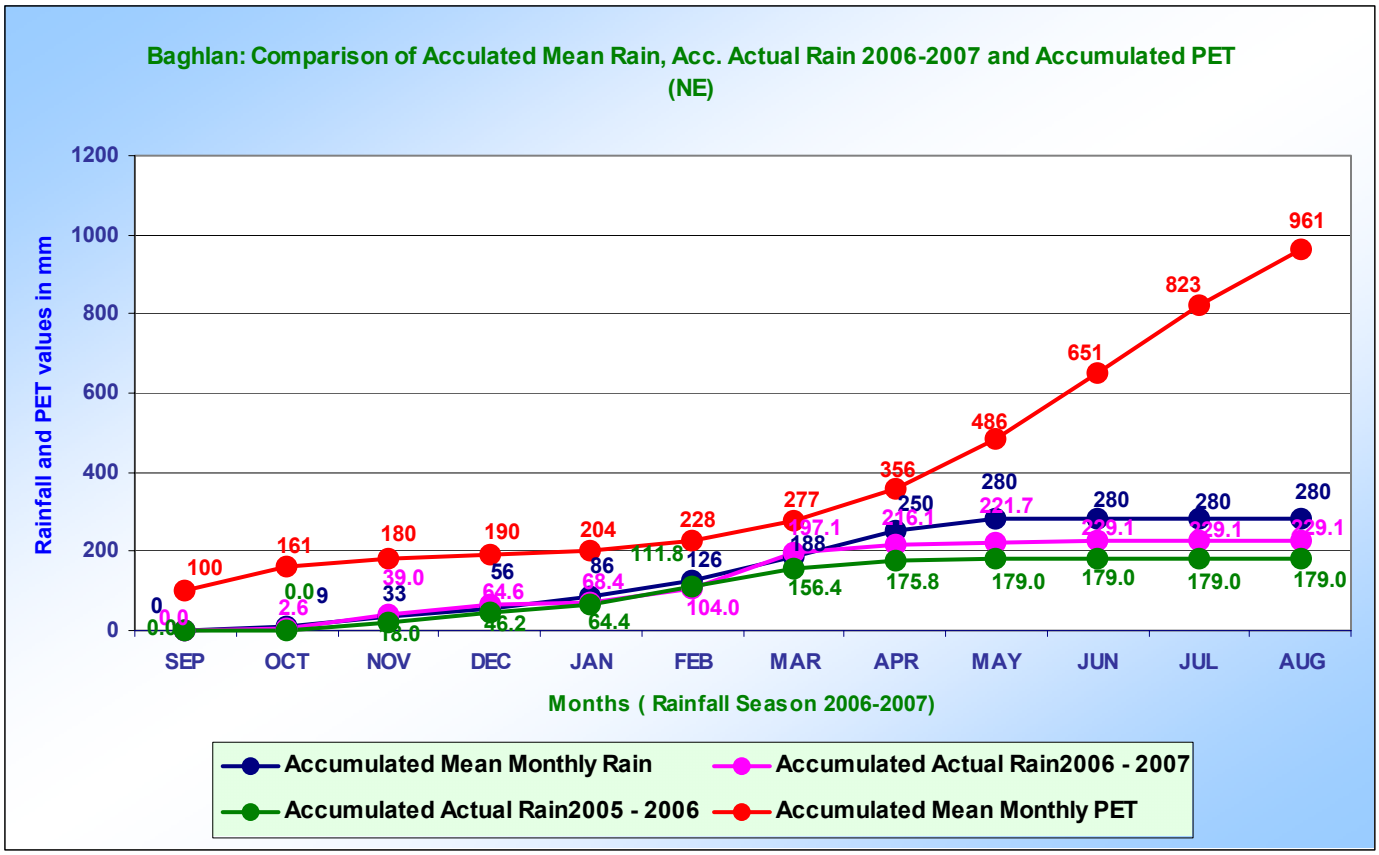

Afghanistan Rainfall - Year 2006 - 2007
Rainfall (mm)
1400
1200
1000
800
600
400
200
0
Cheghcharan
Farah
Farah FAO
Hirat
Moqur Badghis
Murghab
Shindand
Urdo khan
Western Region

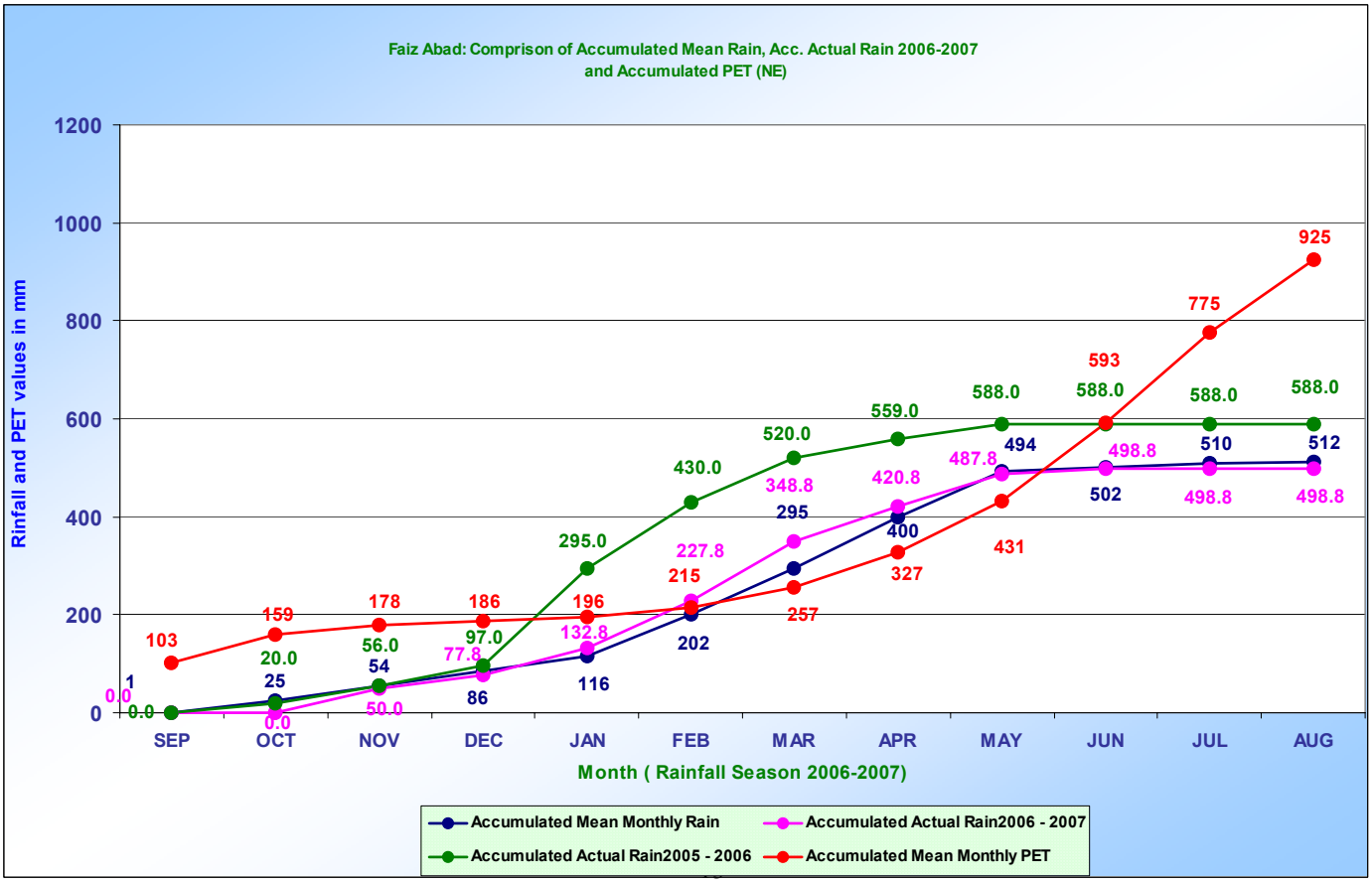
بارندگی مجموعی
فصل (۲۰۰۶ - ۲۰۰۷)
به ملی متر

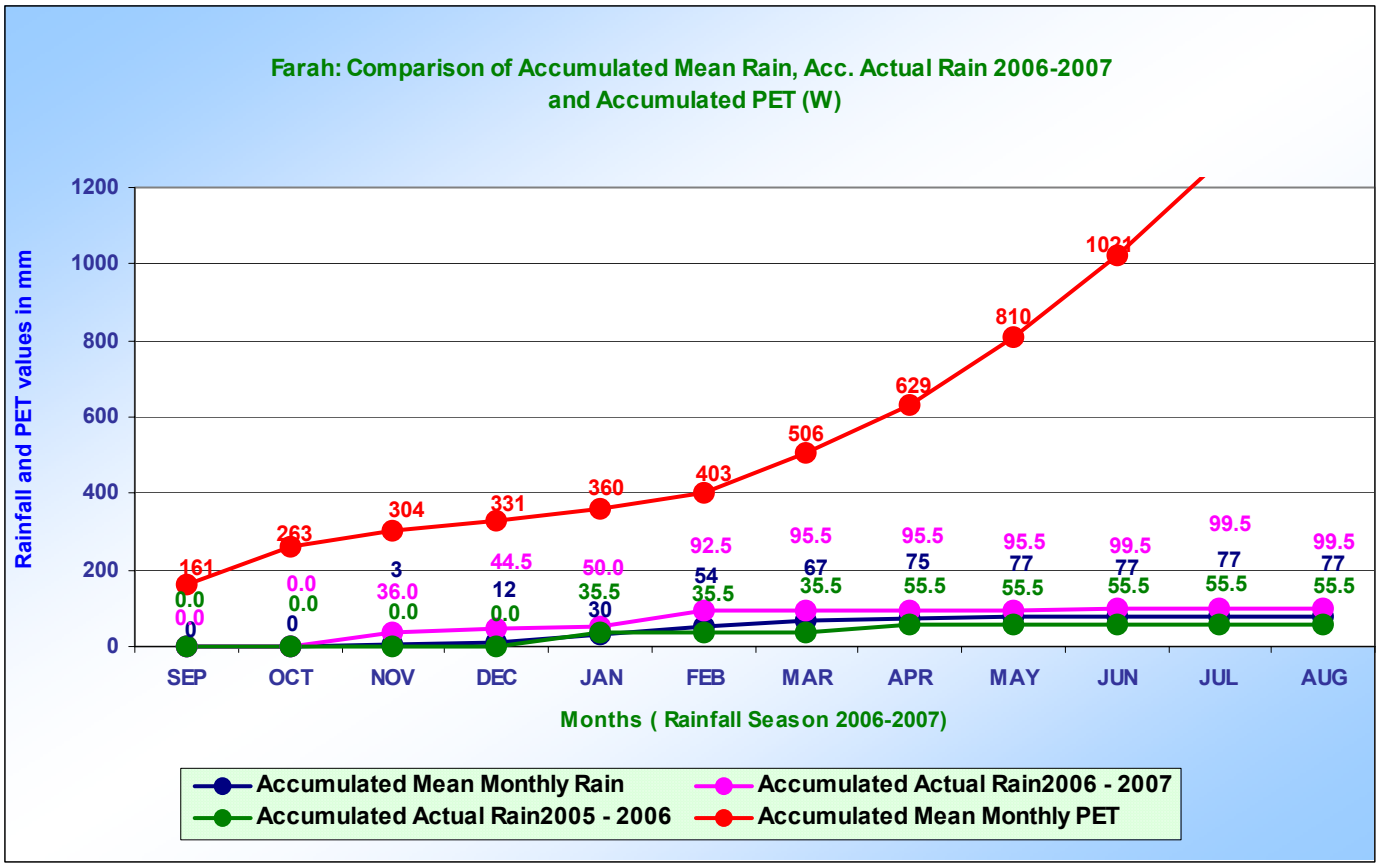
مقایسه با :

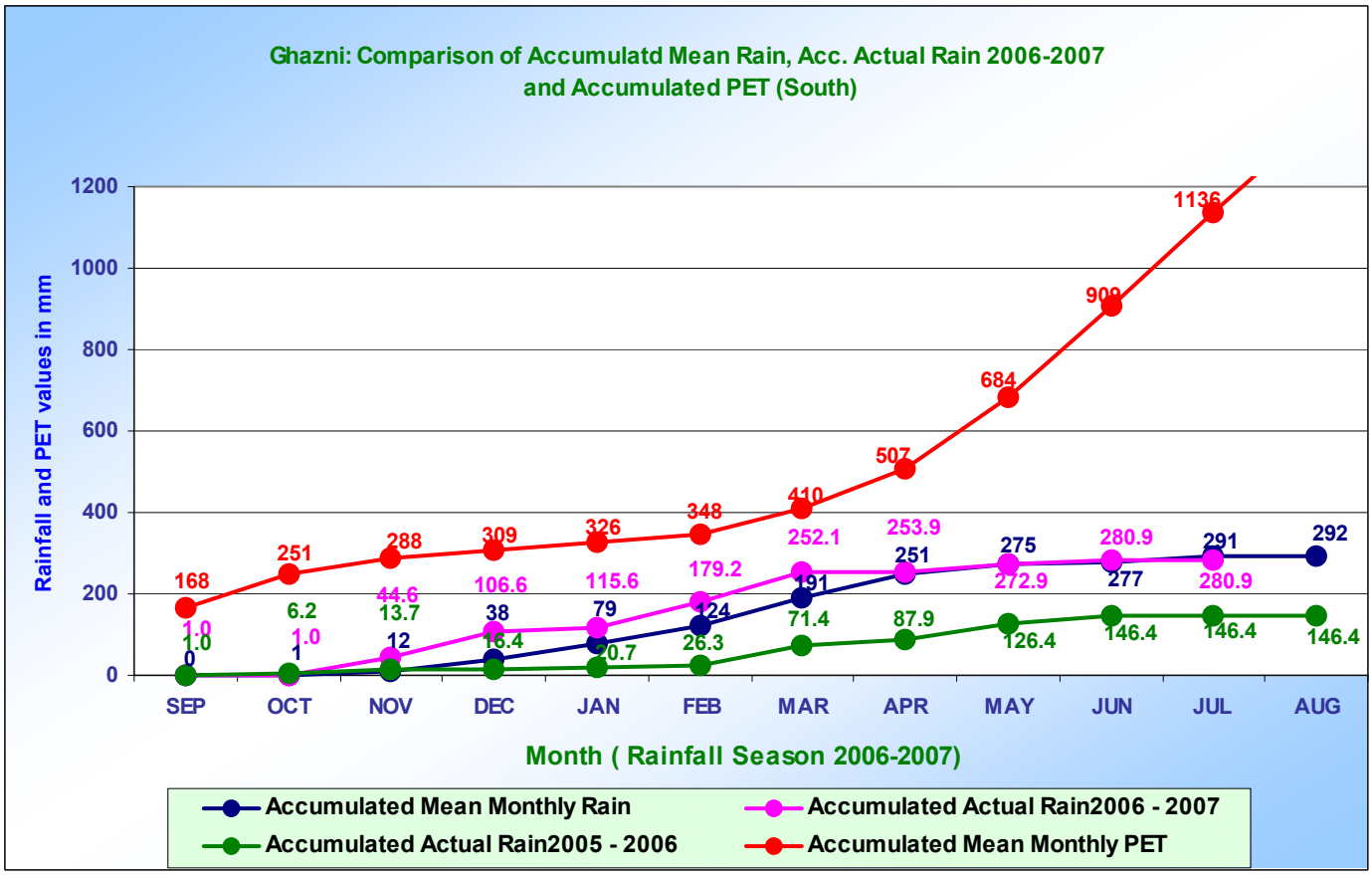
- سال قبل .
- پوتانسیل تبخیر و تعرق.
- اوسط درازمدت.

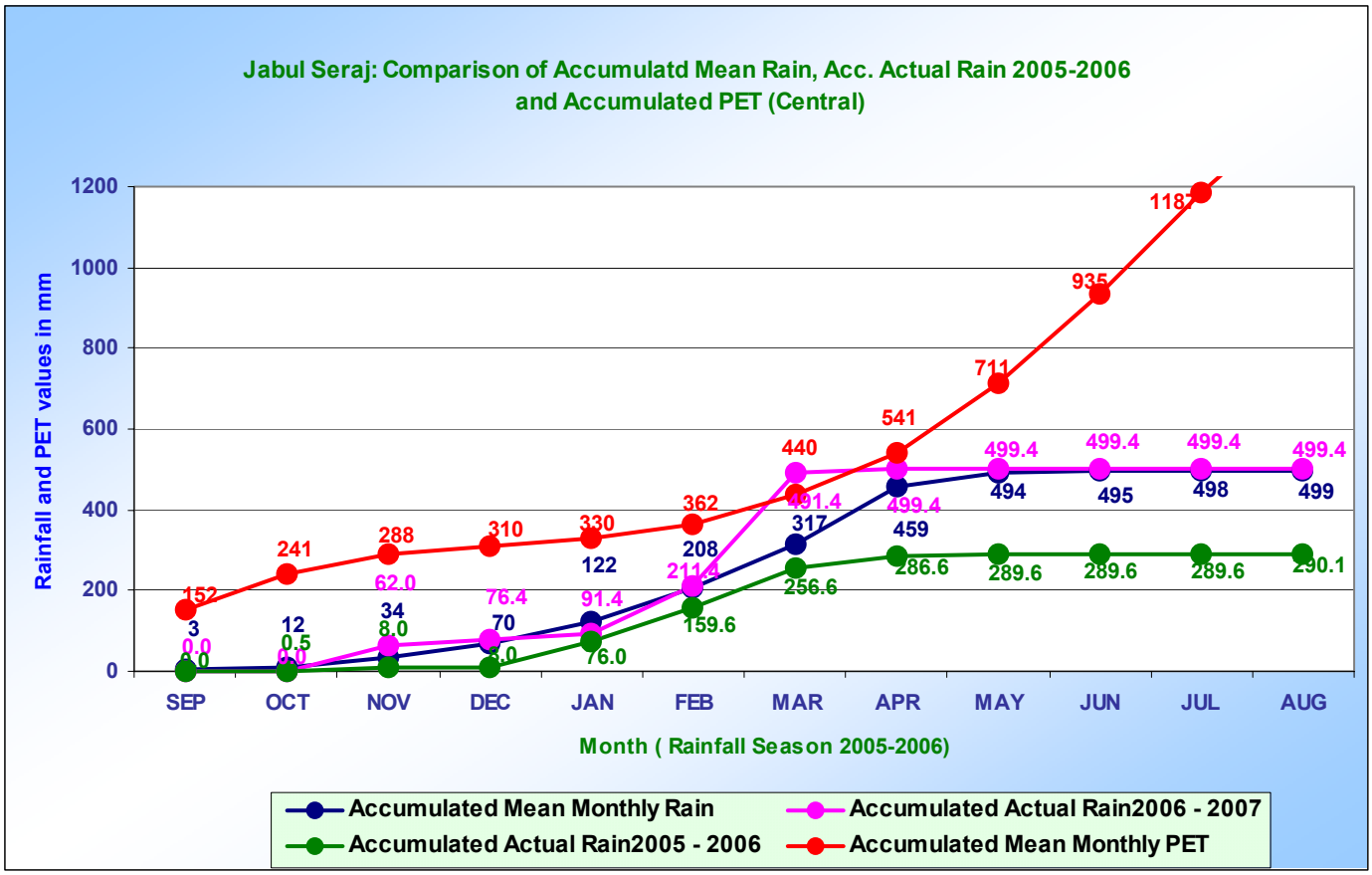
Accumulated Rainfall Comparison Graphs

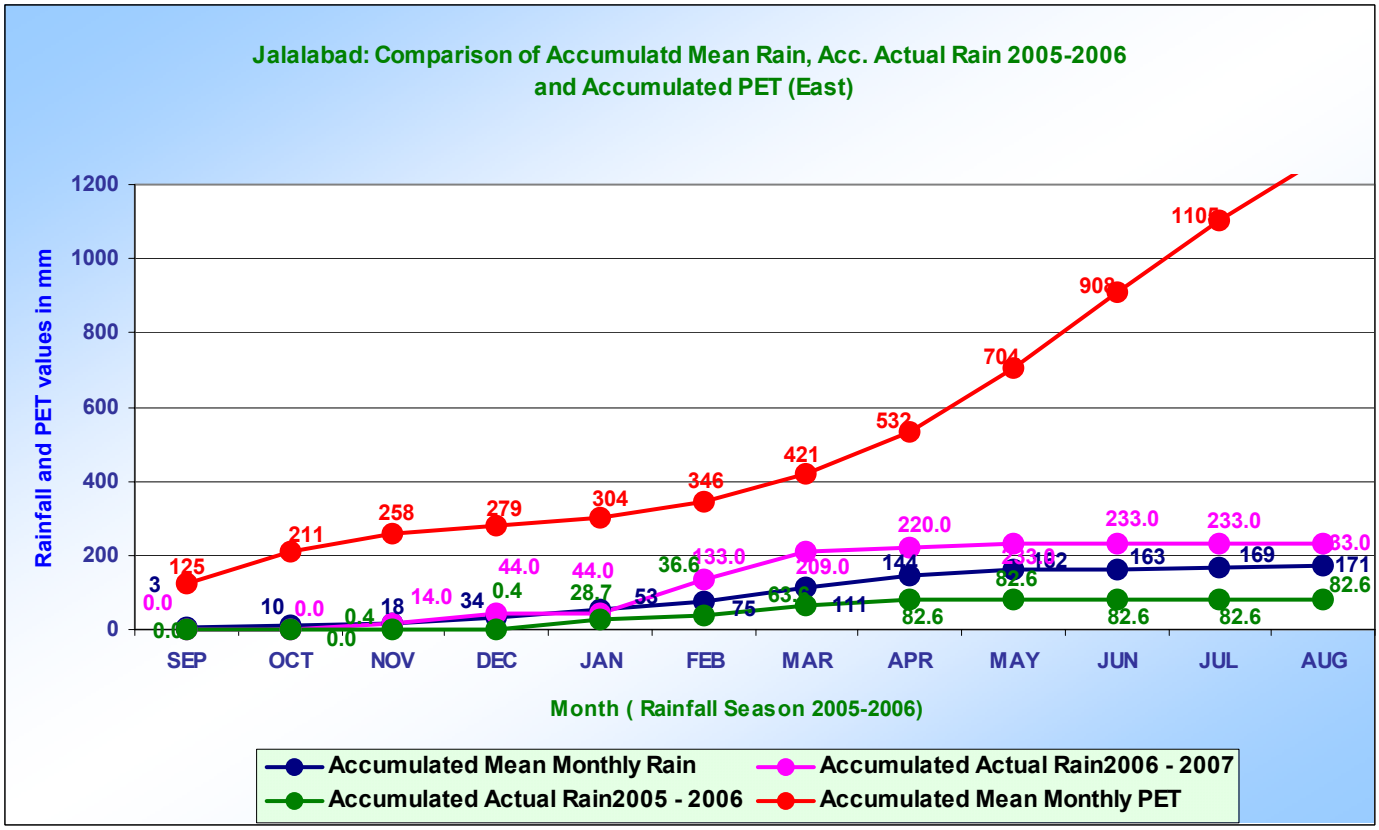


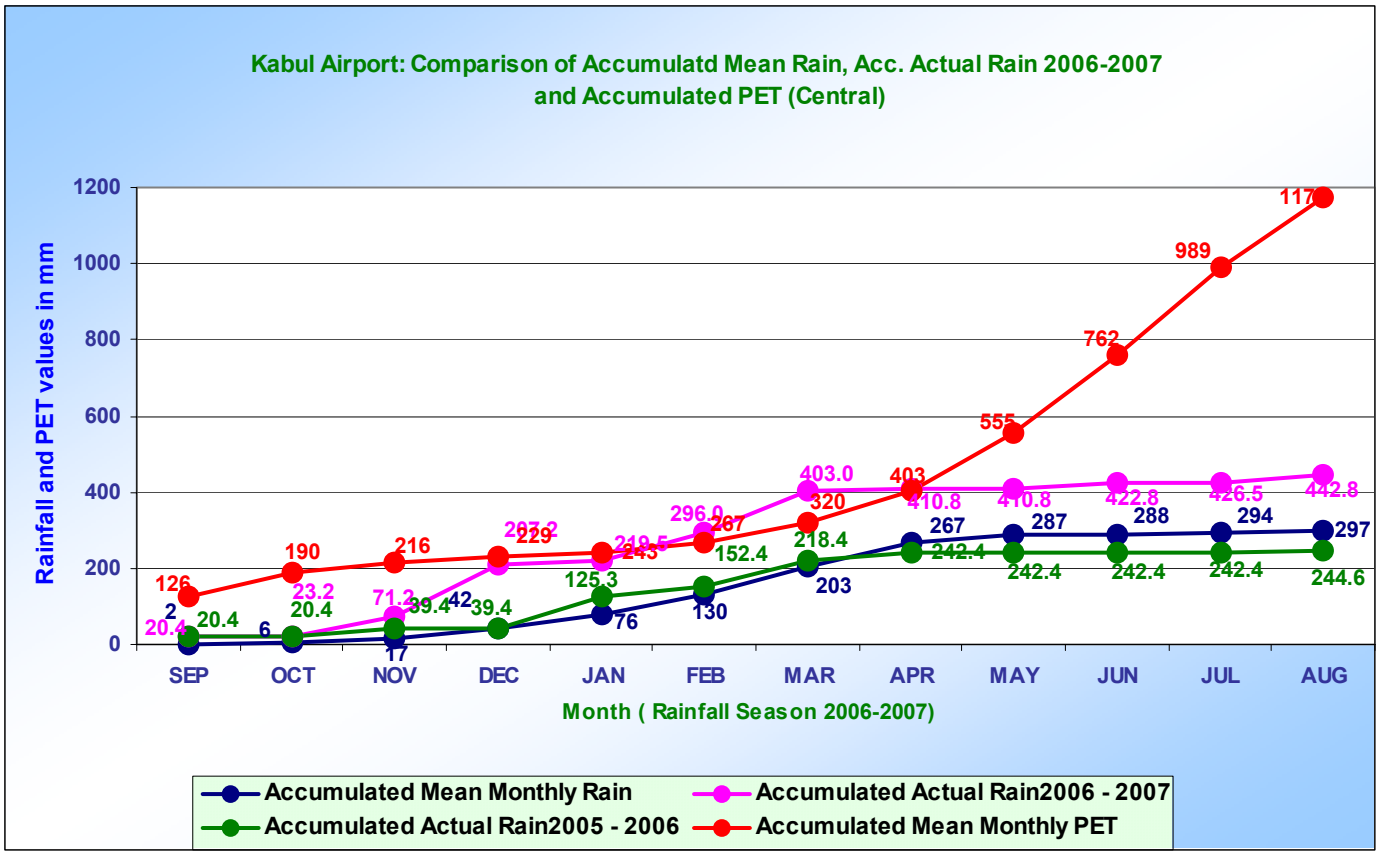


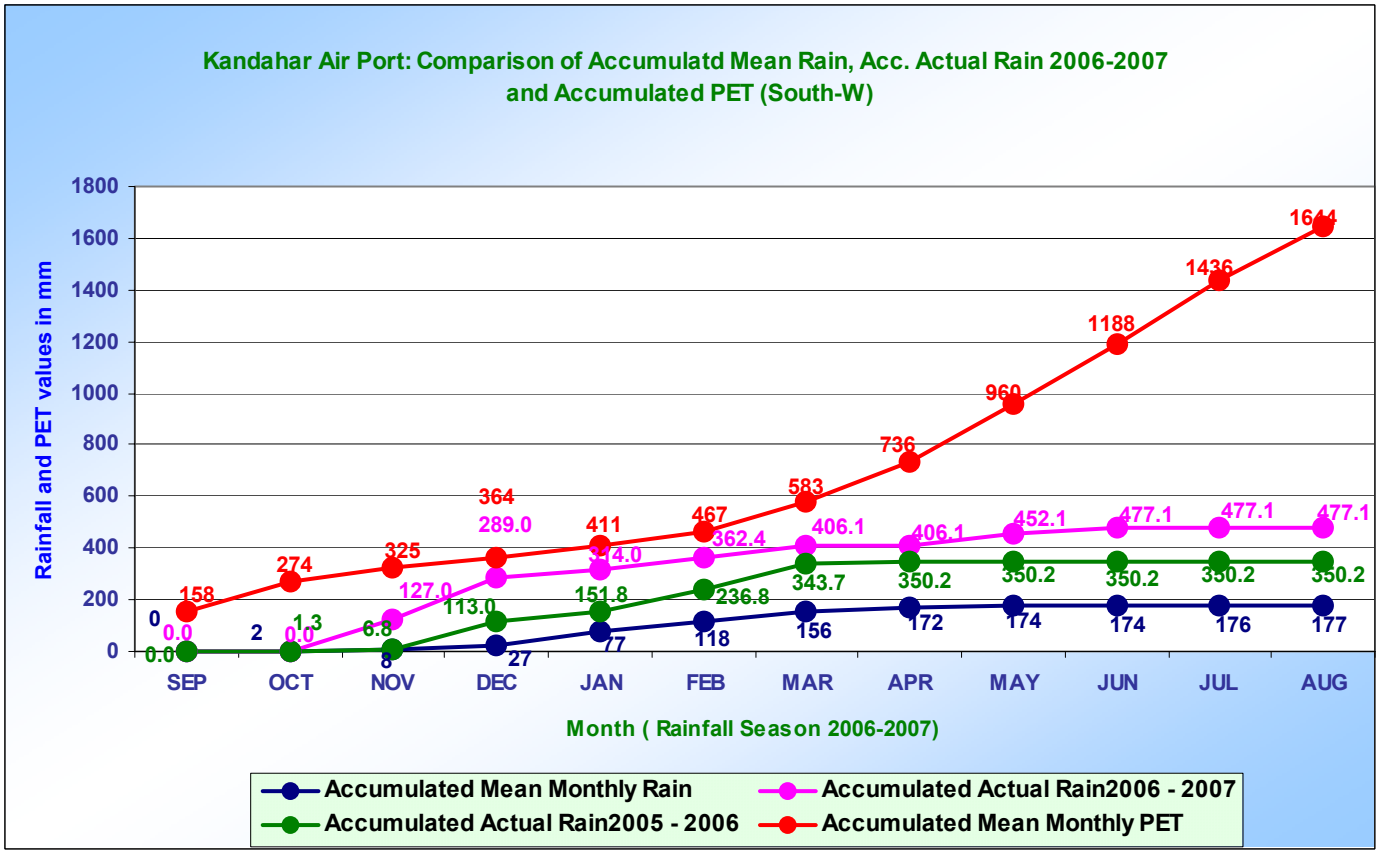

Farah: Comparison of Accumulated Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (W)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Months (Rainfall Season 2006-2007)
161
263
304
331
360
403
506
629
810
1021
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

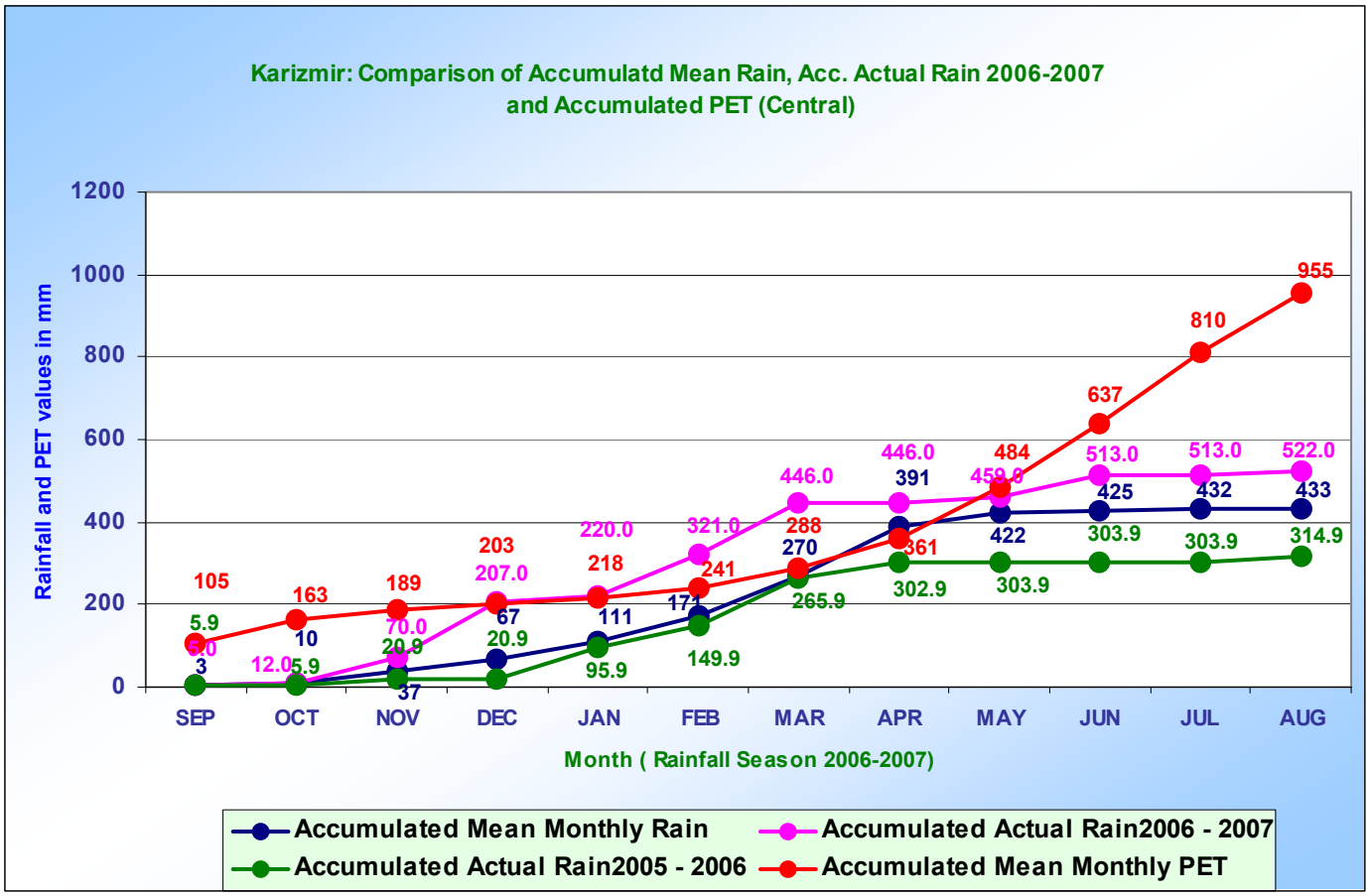

Ghazni: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (South)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
168
251
288
309
326
348
410
507
684
909
1136
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

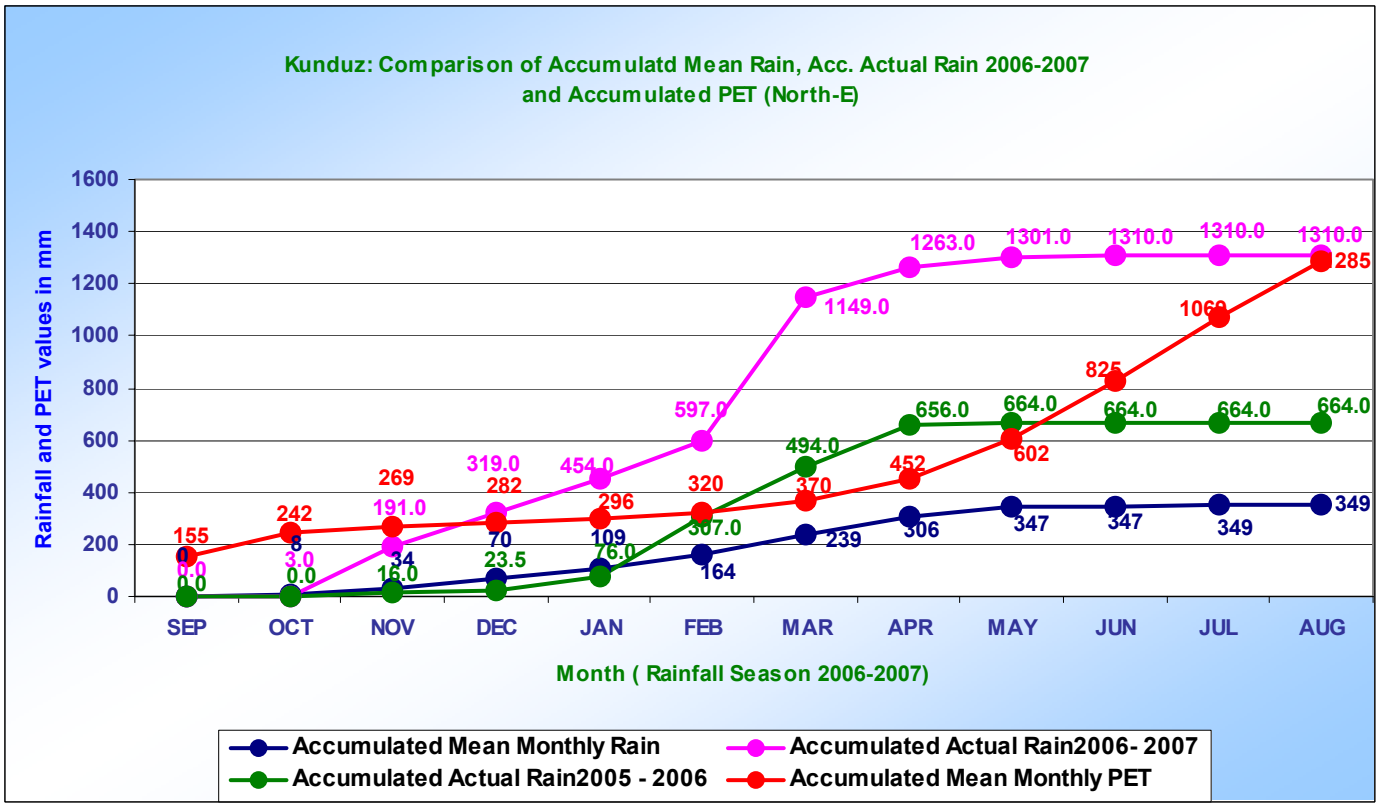

Jabul Seraj: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

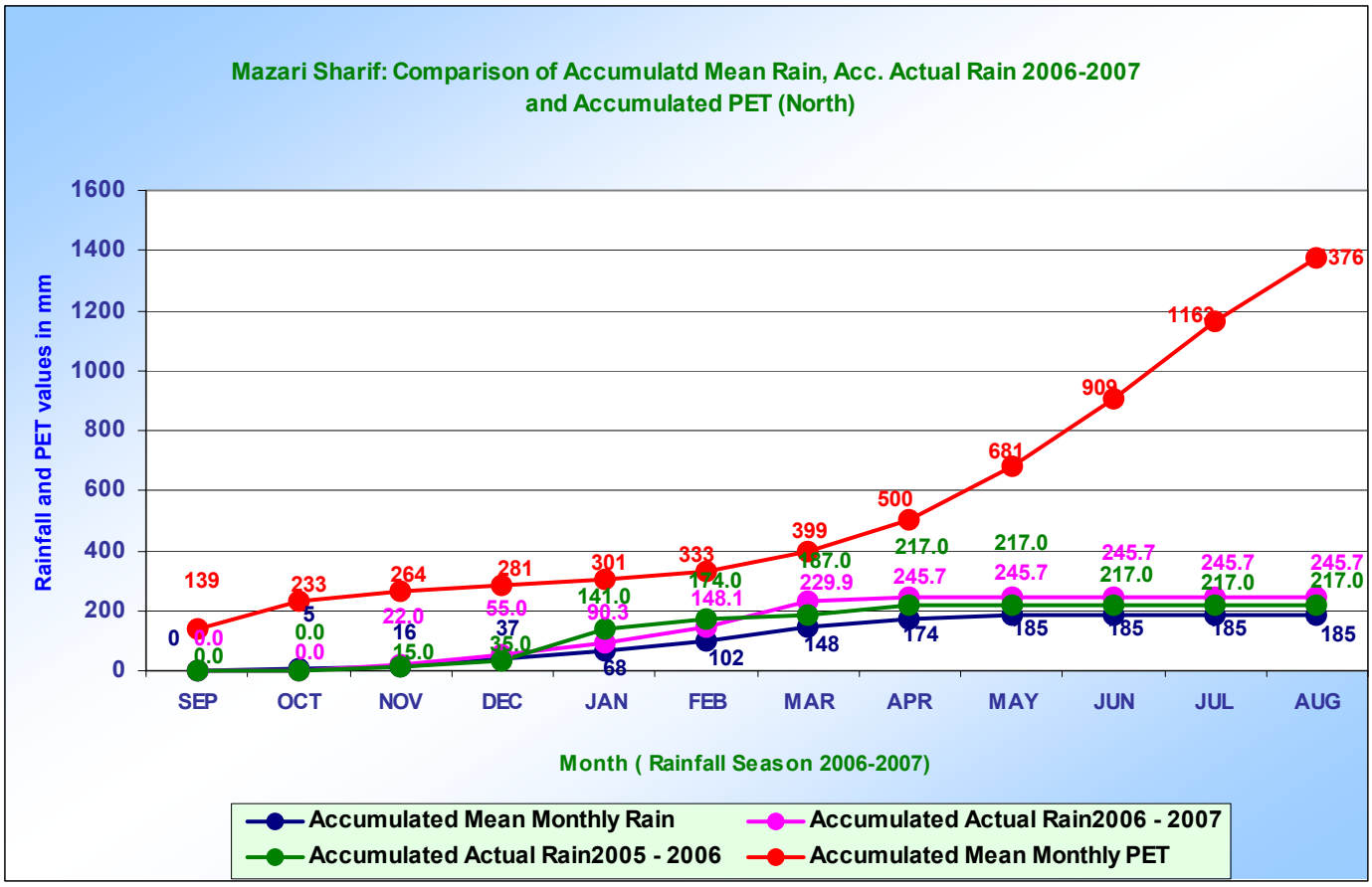

Jalalabad: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (East)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

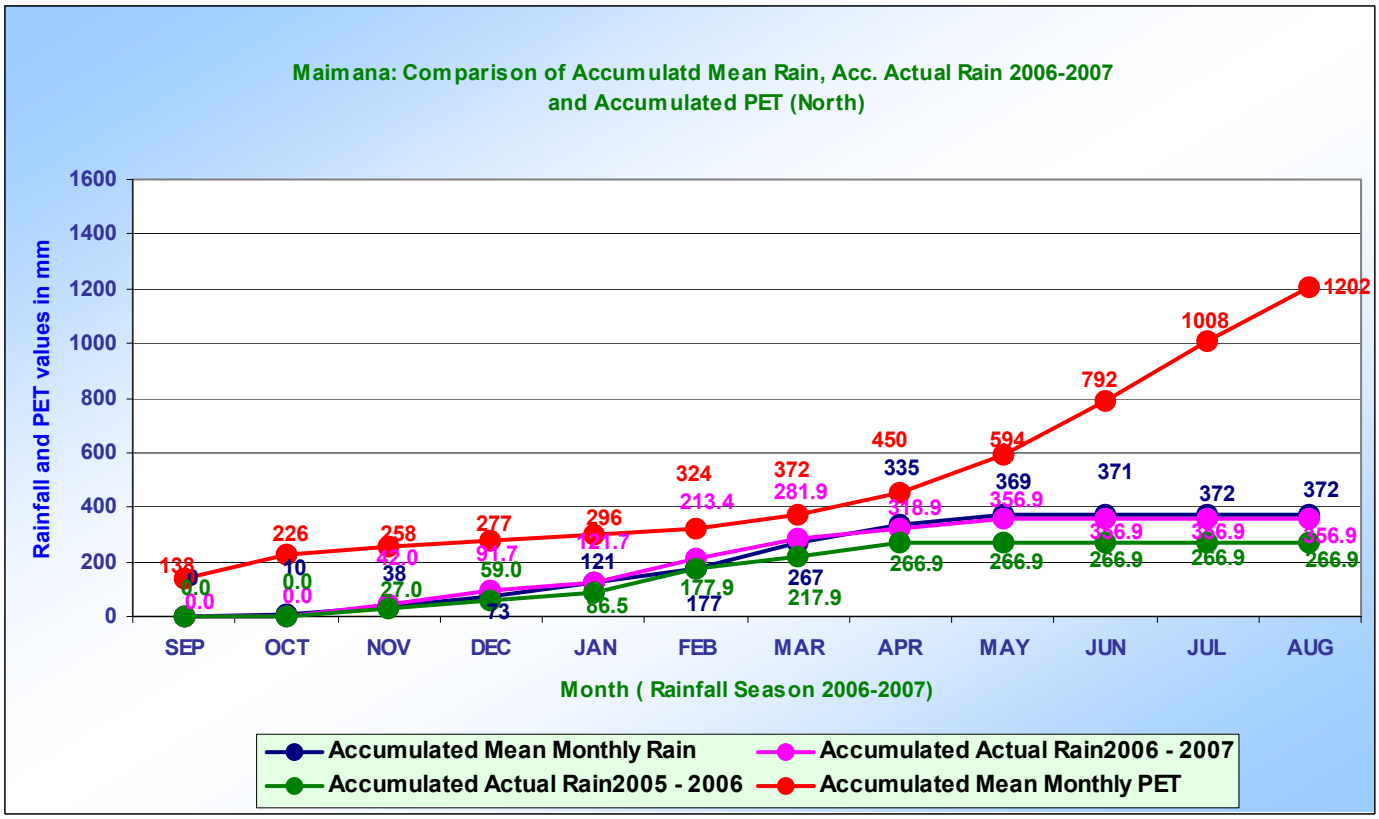

Kabul Airport: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

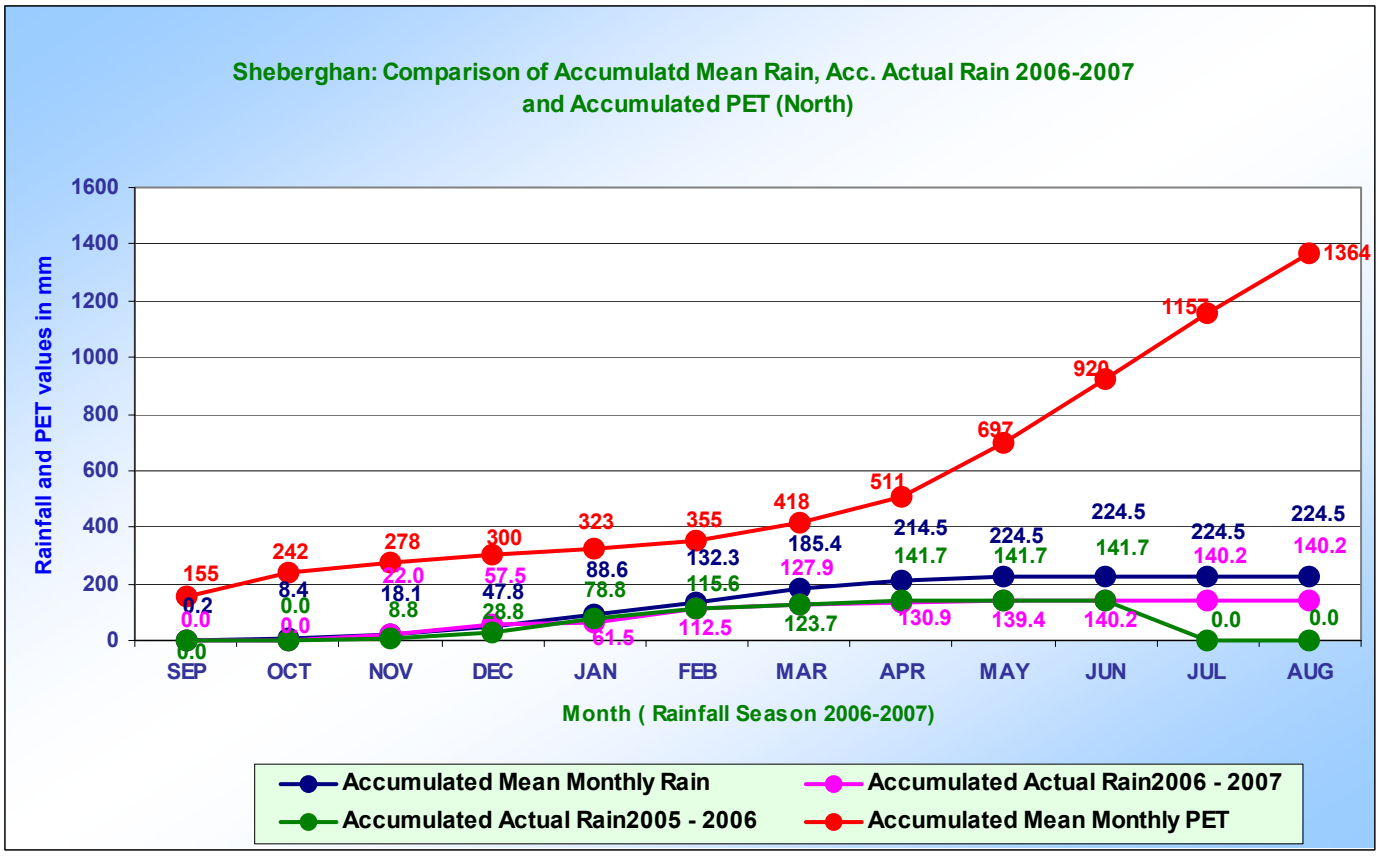

Kandahar Air Port: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (South-W)
Rainfall and PET values in mm
1800
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

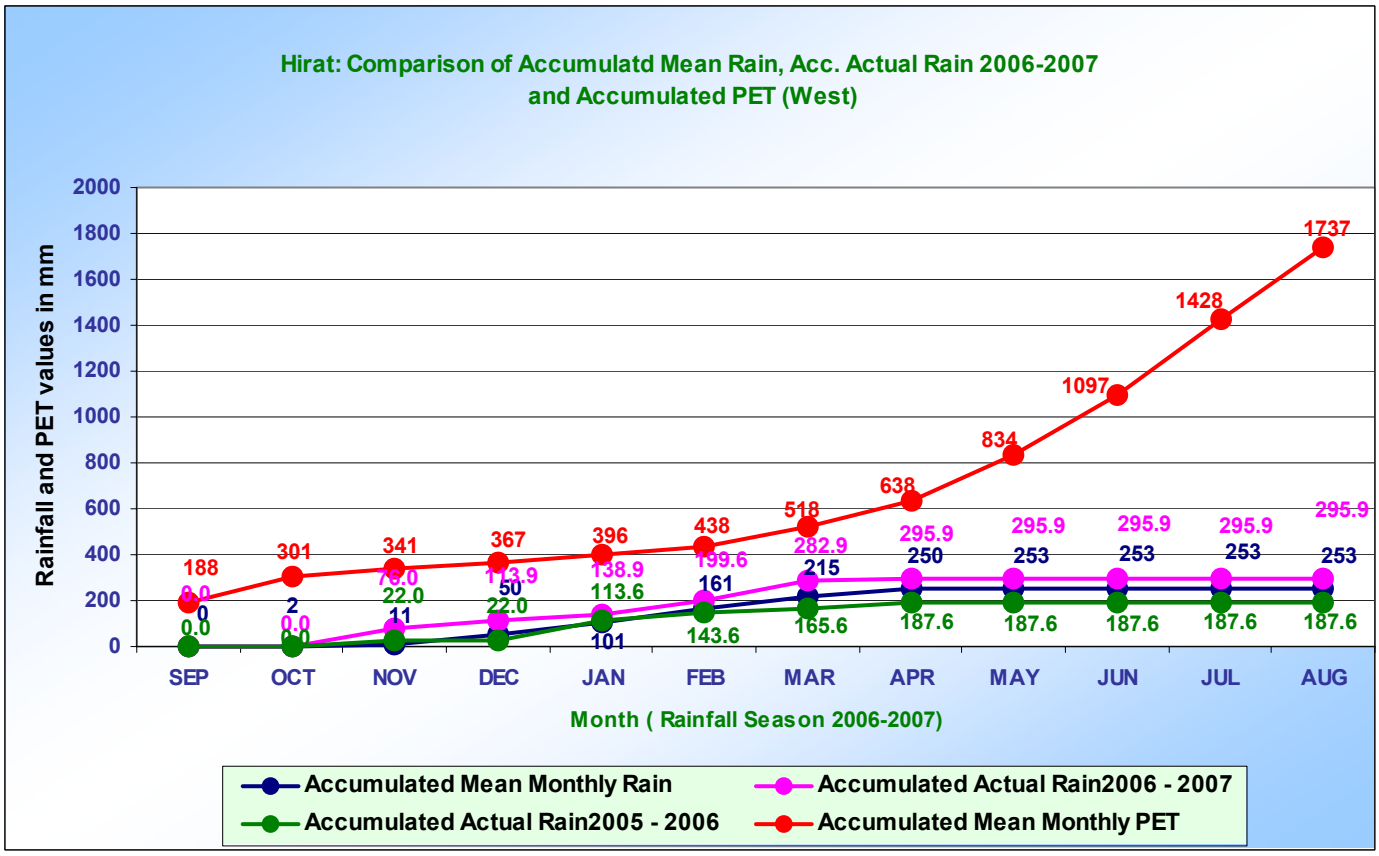

Karizmir: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

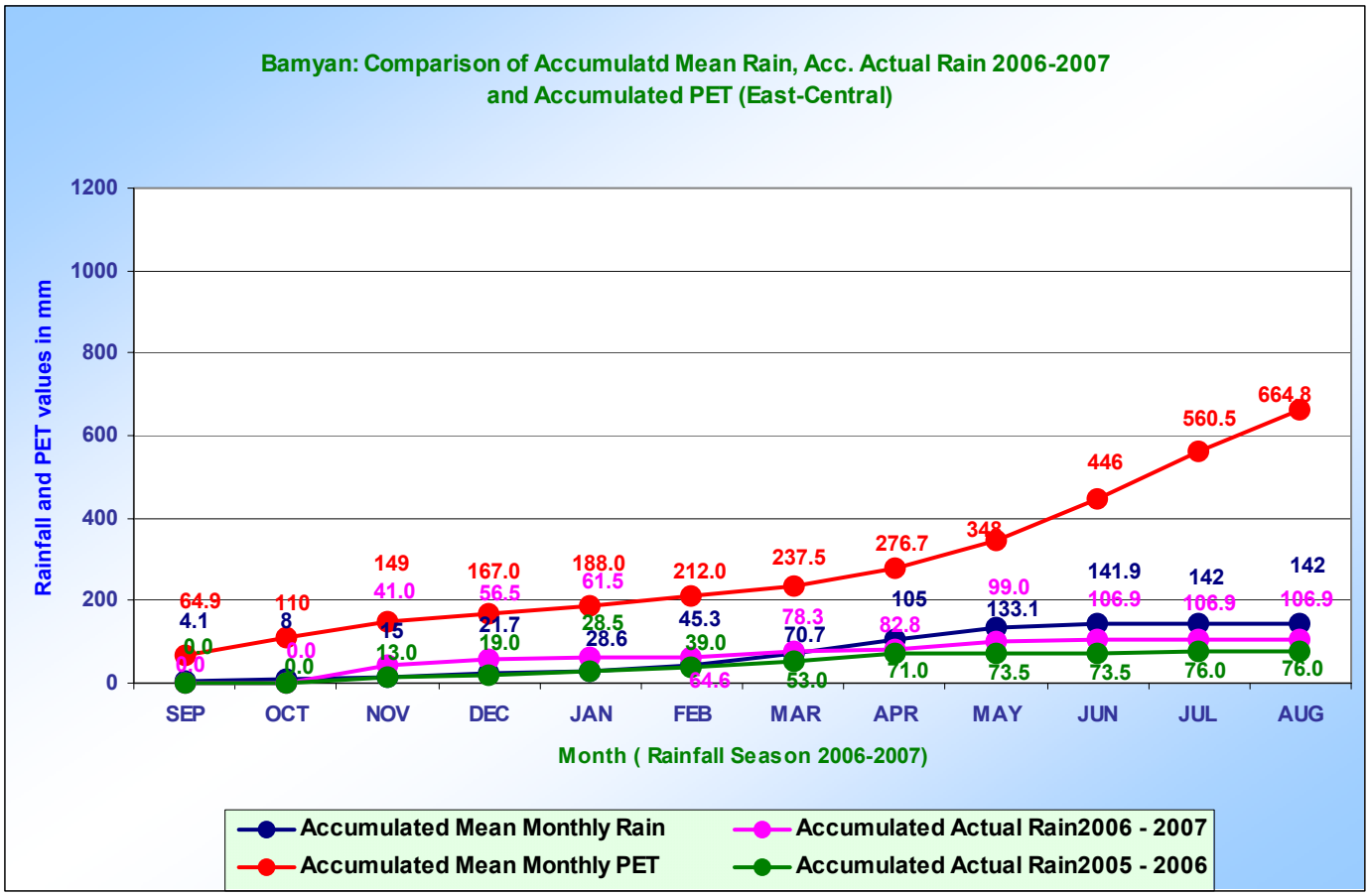

Kunduz: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (North-E)
Rainfall and PET values in mm
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006- 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

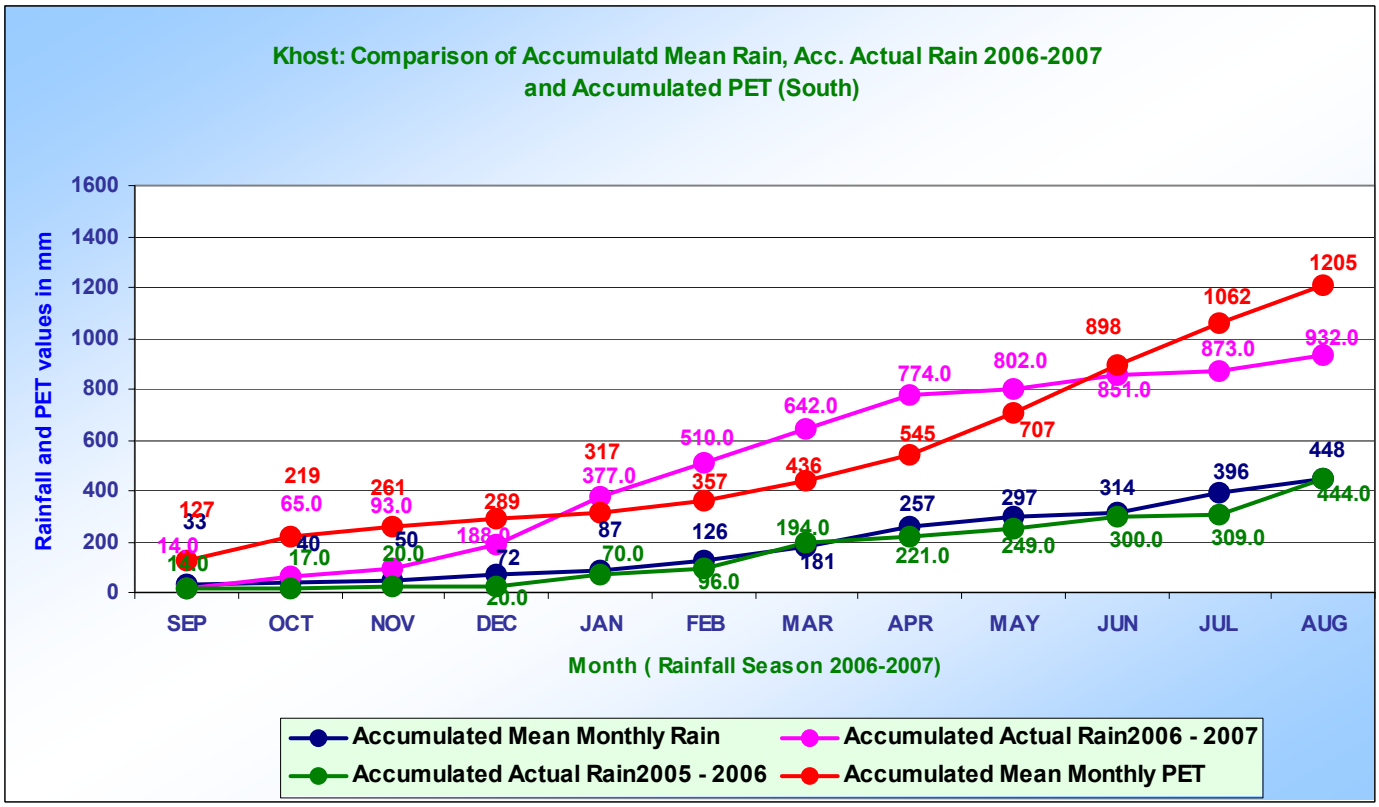

Mazari Sharif: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (North)
Rainfall and PET values in mm
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

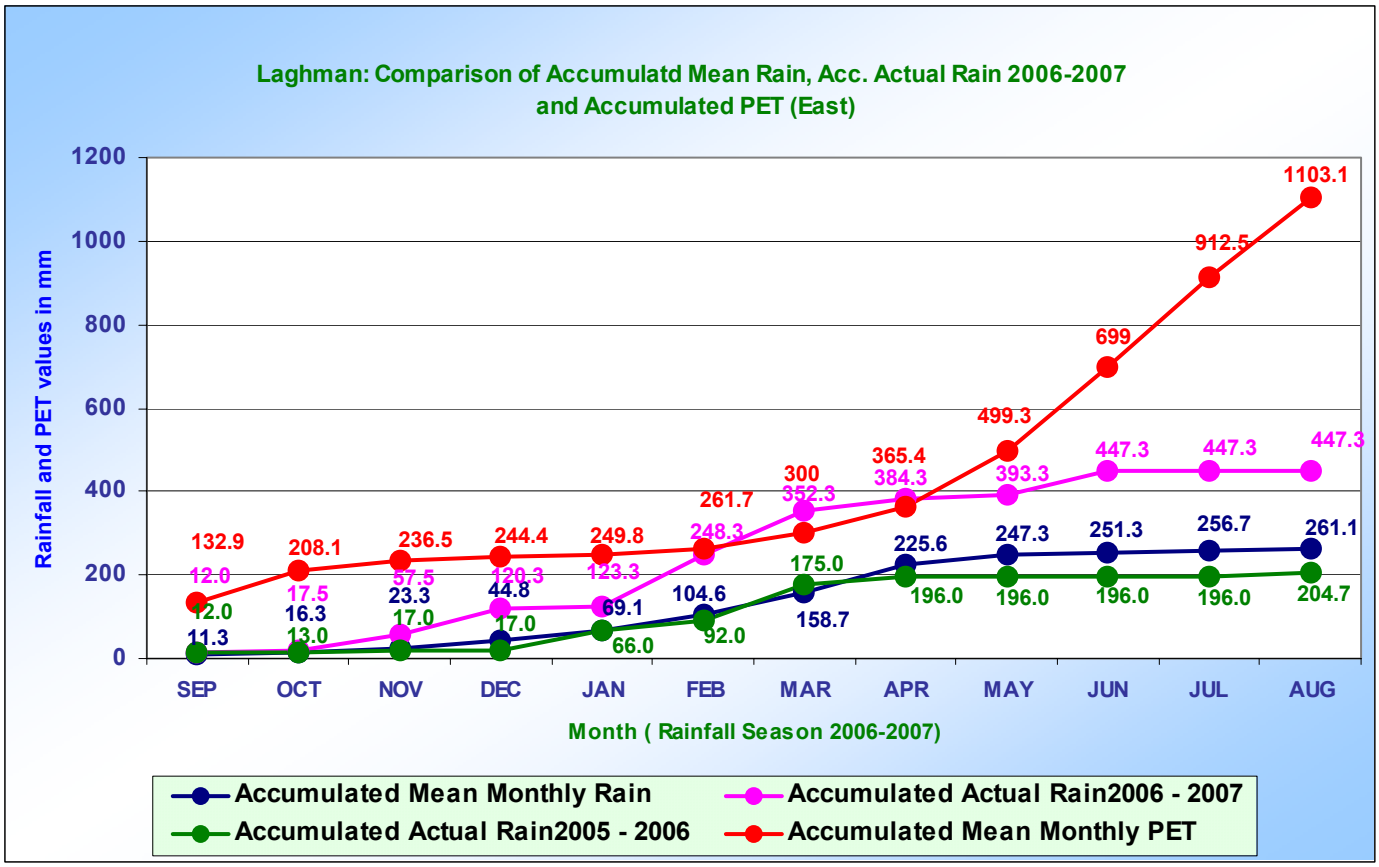

Maimana: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (North)
Rainfall and PET values in mm
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

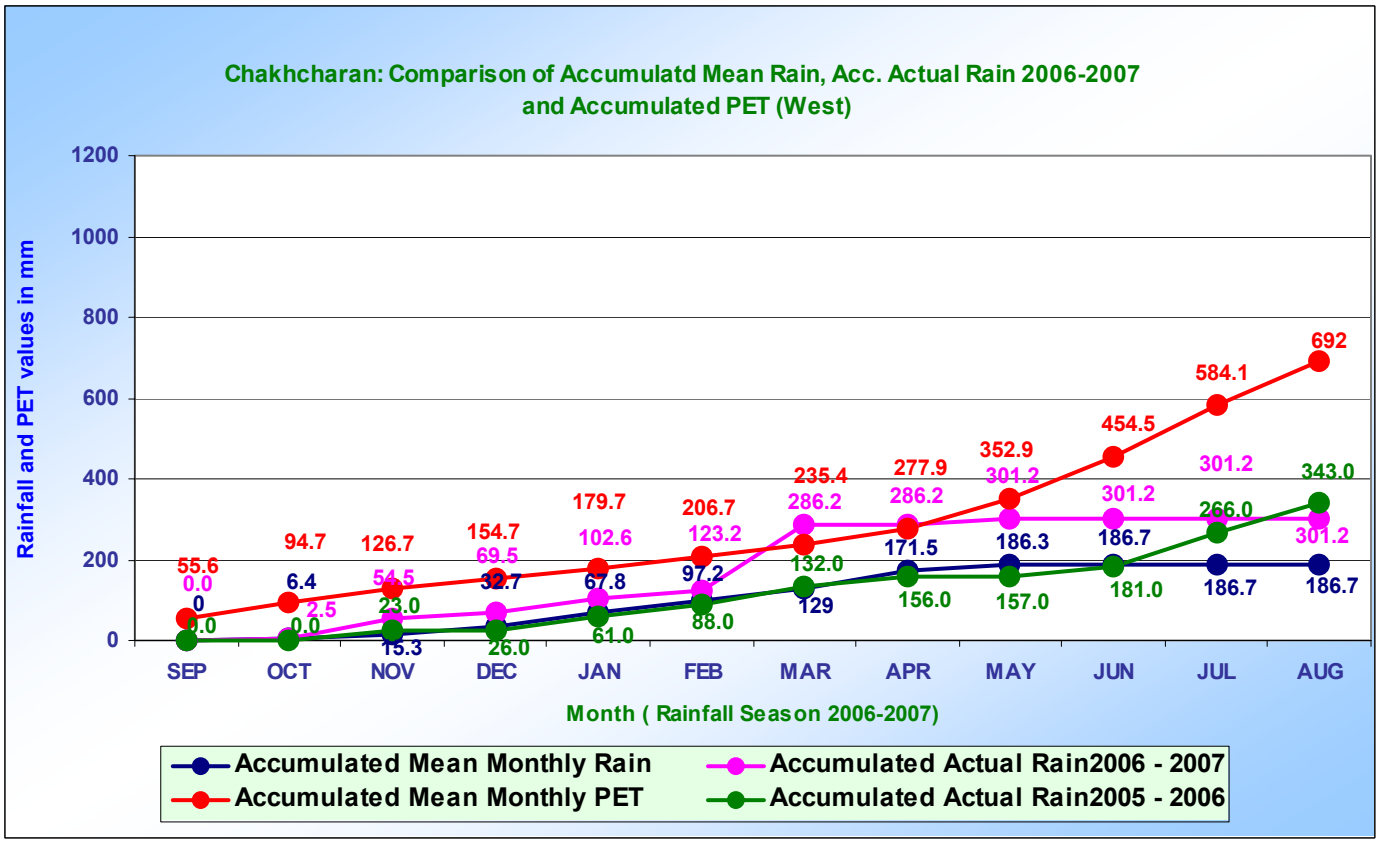

Sheberghan: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (North)
Rainfall and PET values in mm
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
155
242
278
300
323
355
418
511
697
920
1157
1364
0.2
8.4
18.1
47.8
88.6
132.3
185.4
214.5
224.5
224.5
224.5
224.5
0.0
0.0
8.8
28.8
78.8
115.6
127.9
141.7
141.7
141.7
140.2
140.2
0.0
0.0
22.0
57.5
61.5
112.5
123.7
130.9
139.4
140.2
0.0
0.0
0.0
0.0
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

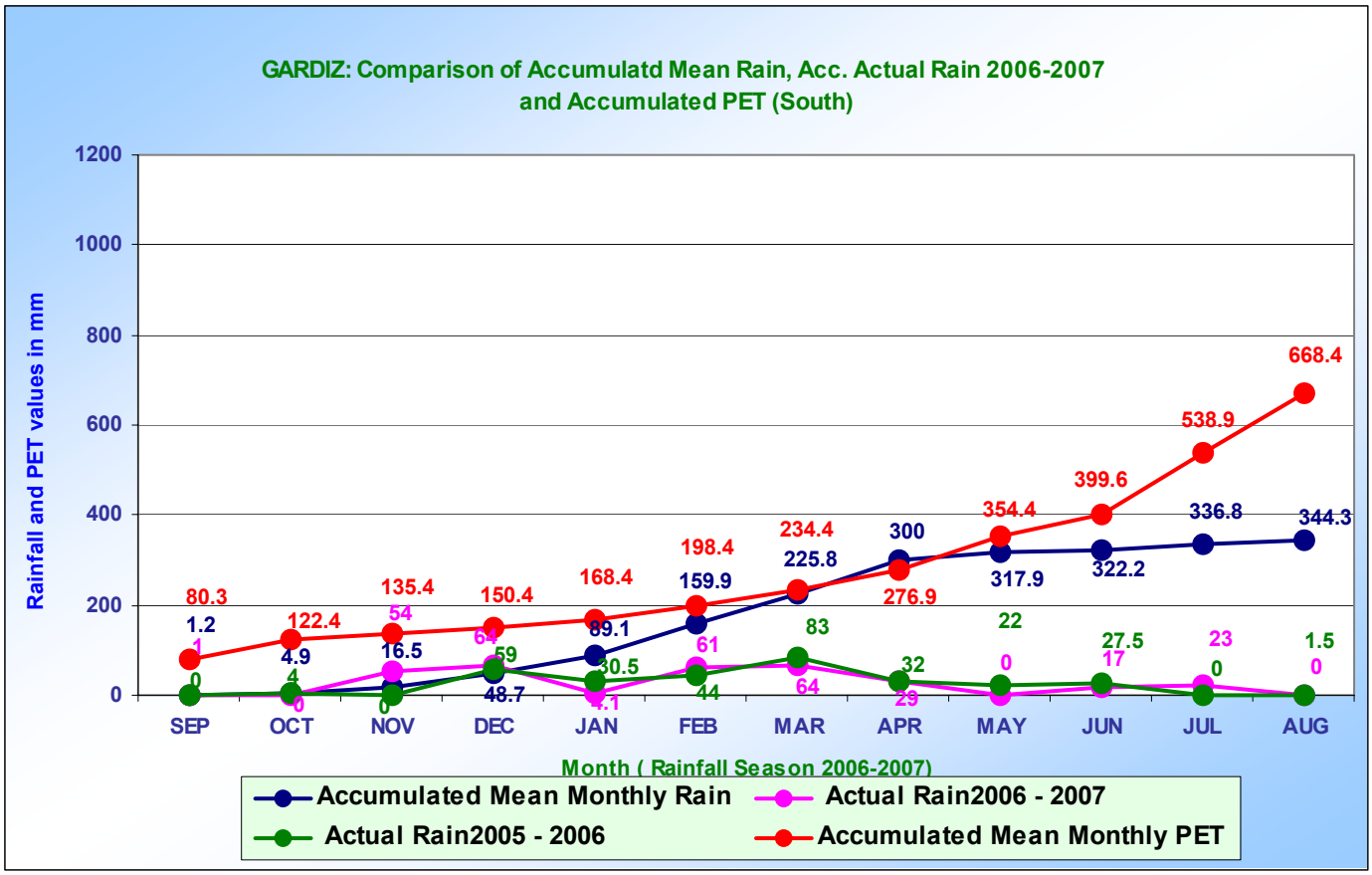

Hirat: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (West)
Rainfall and PET values in mm
2000
1800
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
188
301
341
367
396
438
518
638
834
1097
1428
1737
0
2
11
50
101
161
215
250
253
253
253
253
0.0
0.0
22.0
22.0
113.6
143.6
165.6
187.6
187.6
187.6
187.6
187.6
0.0
0.0
76.0
113.9
138.9
199.6
282.9
295.9
295.9
295.9
295.9
295.9
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

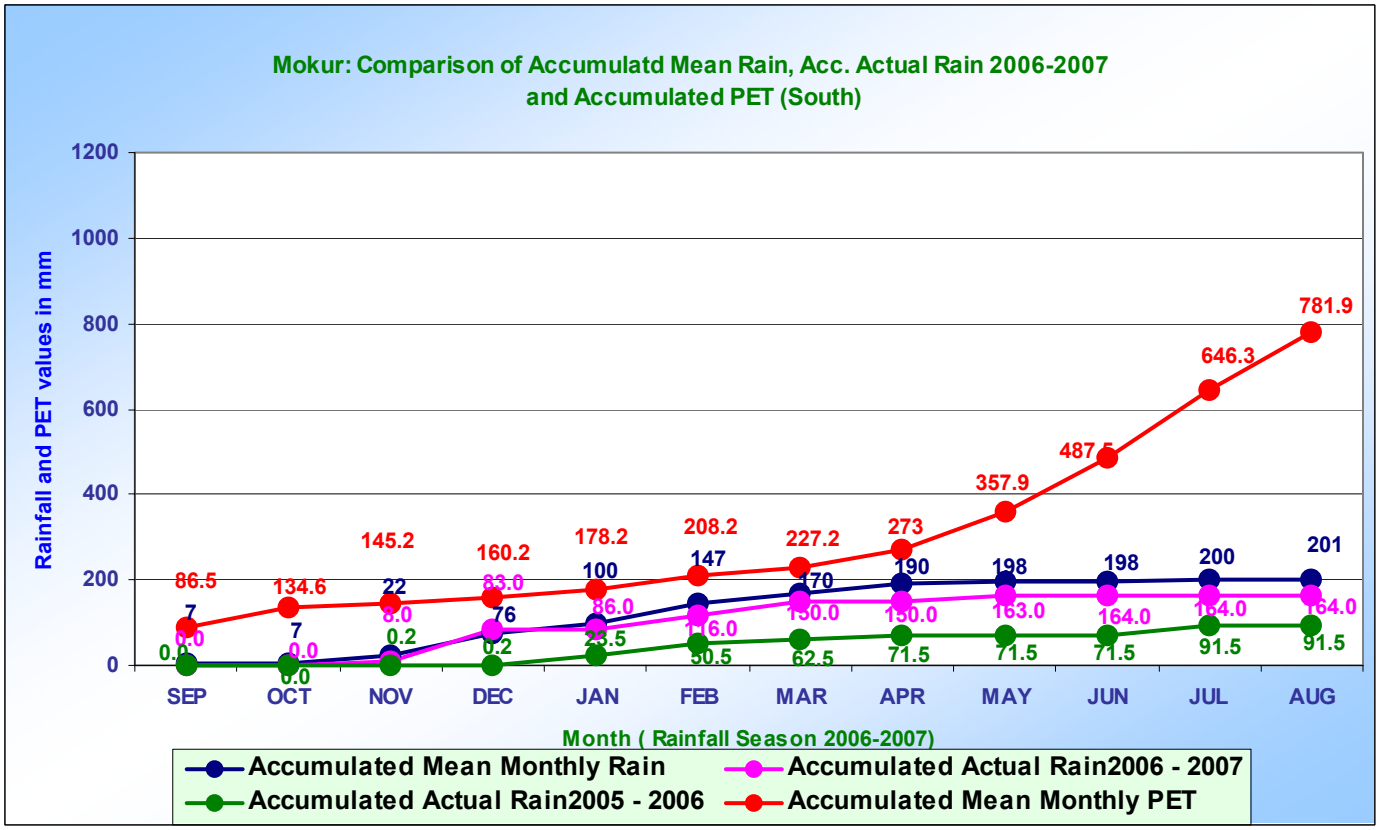

Bamyan: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (East-Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Mean Monthly PET
Accumulated Actual Rain2005 - 2006

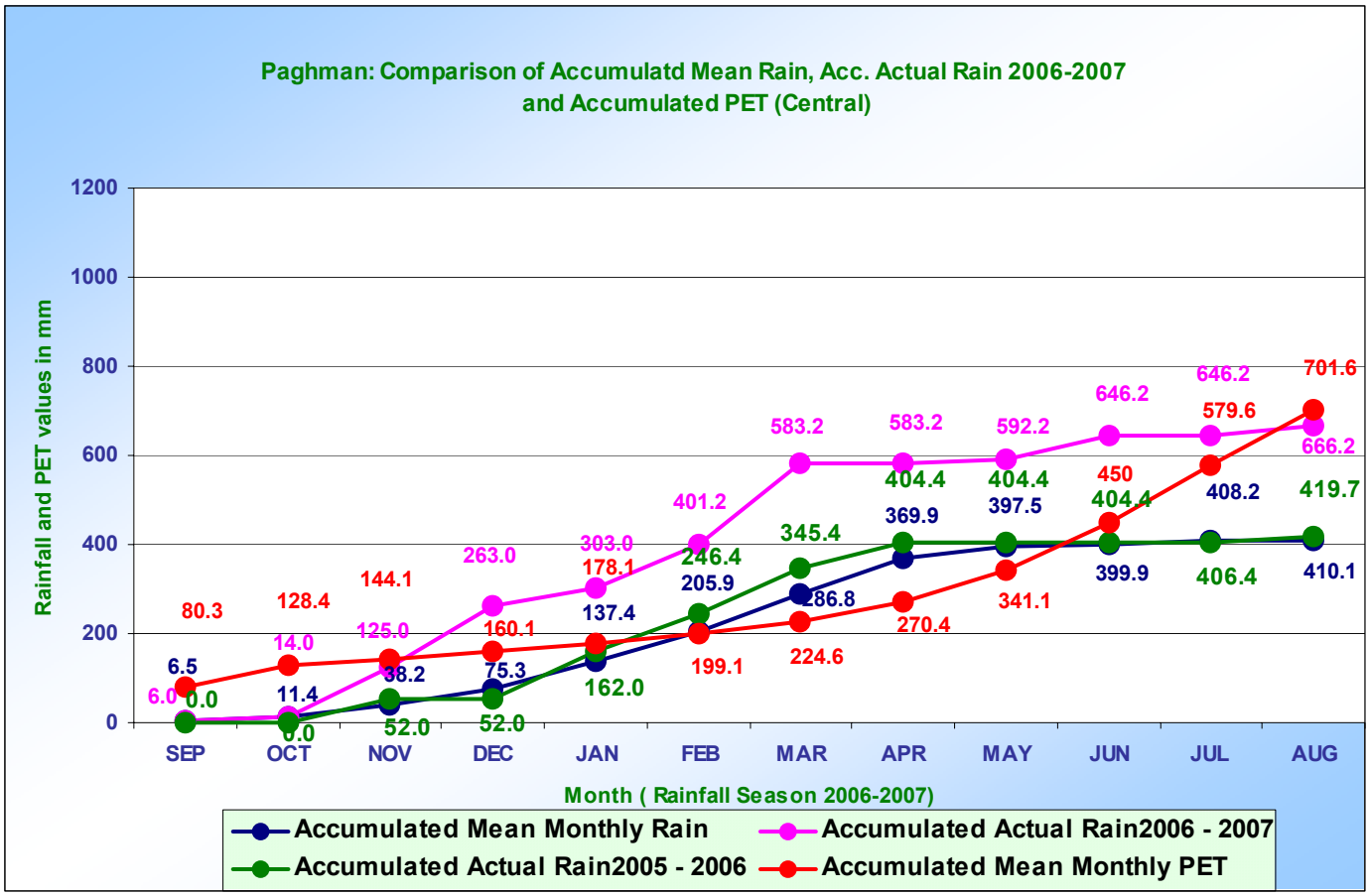

Khost: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (South)
Rainfall and PET values in mm
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

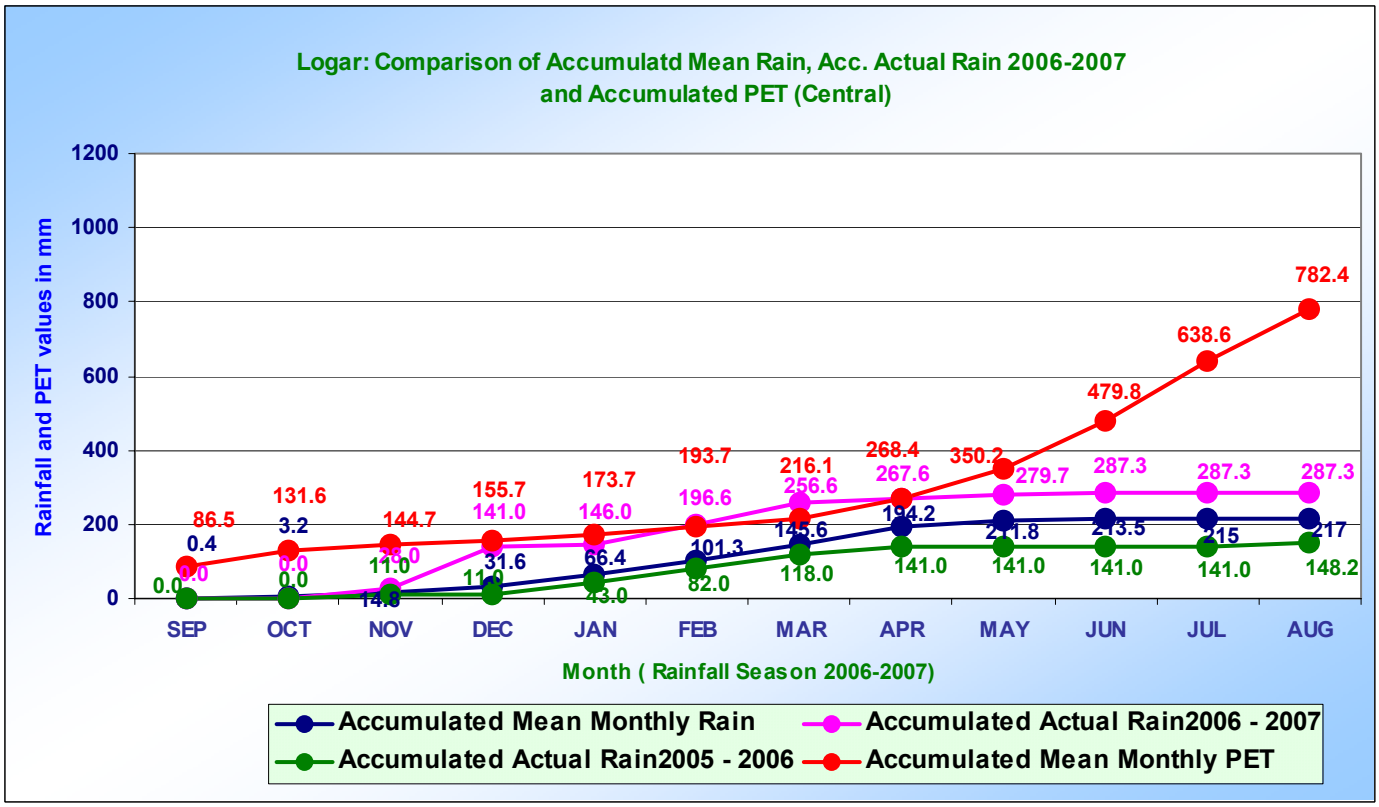

Laghman: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (East)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
132.9
208.1
236.5
244.4
249.8
261.7
300
365.4
499.3
699
912.5
1103.1
12.0
17.5
57.5
120.3
123.3
248.3
352.3
384.3
393.3
447.3
447.3
447.3
11.3
16.3
23.3
44.8
69.1
104.6
158.7
225.6
247.3
251.3
256.7
261.1
12.0
13.0
17.0
17.0
66.0
92.0
175.0
196.0
196.0
196.0
196.0
204.7
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET


Chakhcharan: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (West)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
55.6
94.7
126.7
154.7
179.7
206.7
235.4
277.9
352.9
454.5
584.1
692
0.0
2.5
54.5
69.5
102.6
123.2
286.2
286.2
301.2
301.2
301.2
301.2
0
6.4
15.3
26.0
61.0
88.0
129
156.0
157.0
181.0
266.0
343.0
0.0
0.0
23.0
32.7
67.8
97.2
132.0
171.5
186.3
186.7
186.7
186.7
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Mean Monthly PET
Accumulated Actual Rain2005 - 2006


GARDIZ: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (South)
Rainfall and PET values in mm
Month (Rainfall Season 2006-2007)
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Accumulated Mean Monthly Rain
Actual Rain2006 - 2007
Actual Rain2005 - 2006
Accumulated Mean Monthly PET


Mokur: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (South)
Rainfall and PET values in mm
Month (Rainfall Season 2006-2007)
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

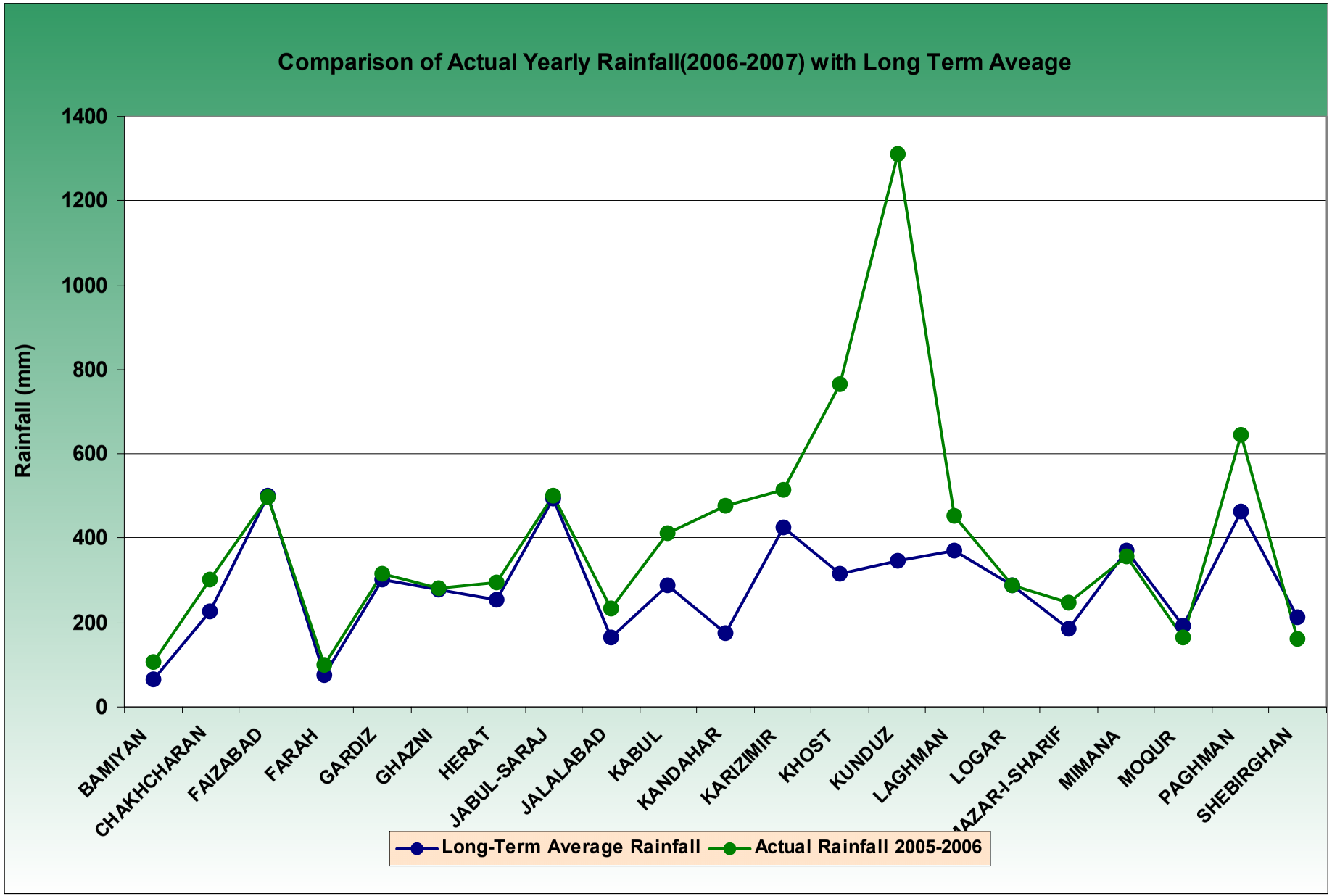

Paghman: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET


Logar: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2006-2007
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2006-2007)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2006 - 2007
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET

مقایسه بارندگی فصل (۲۰۰۵-۲۰۰۶)

با

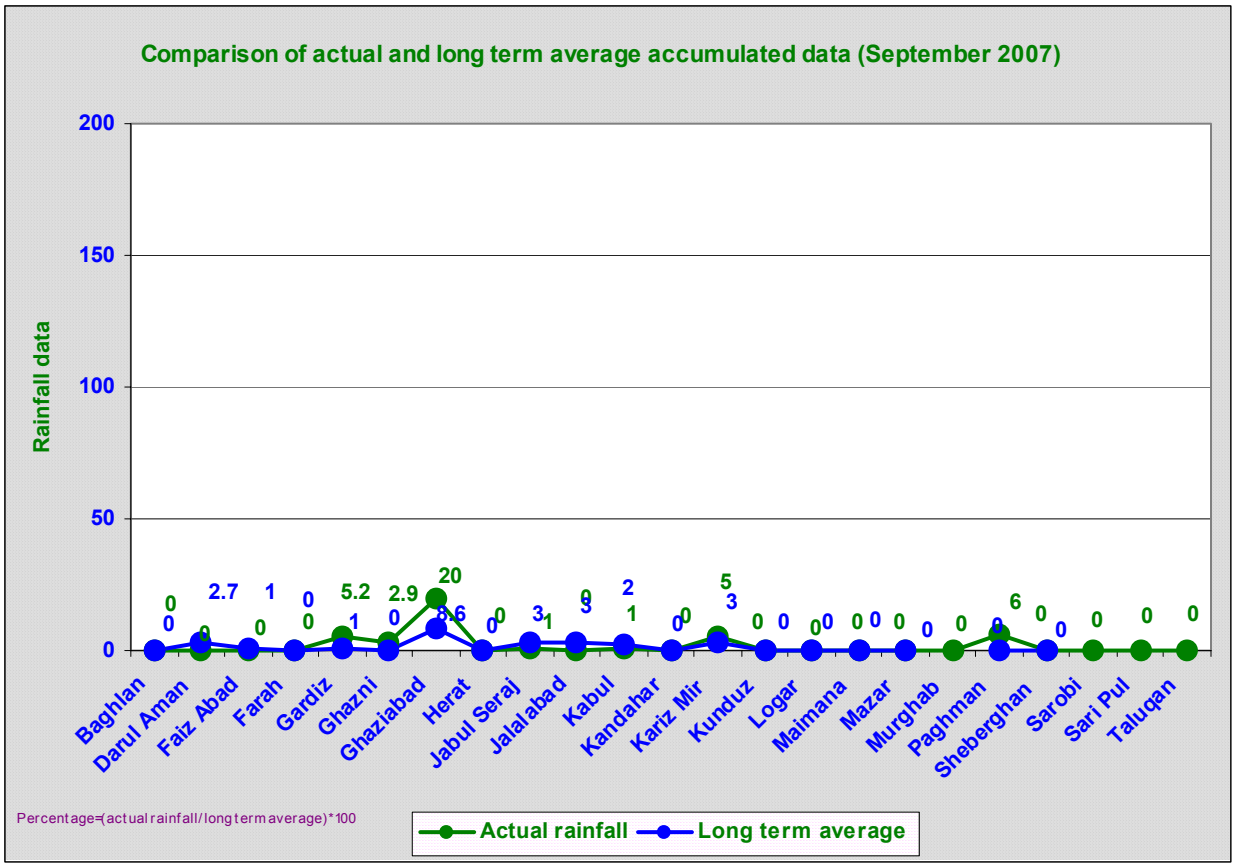
اوسط درازمدت
(به ملی متر)

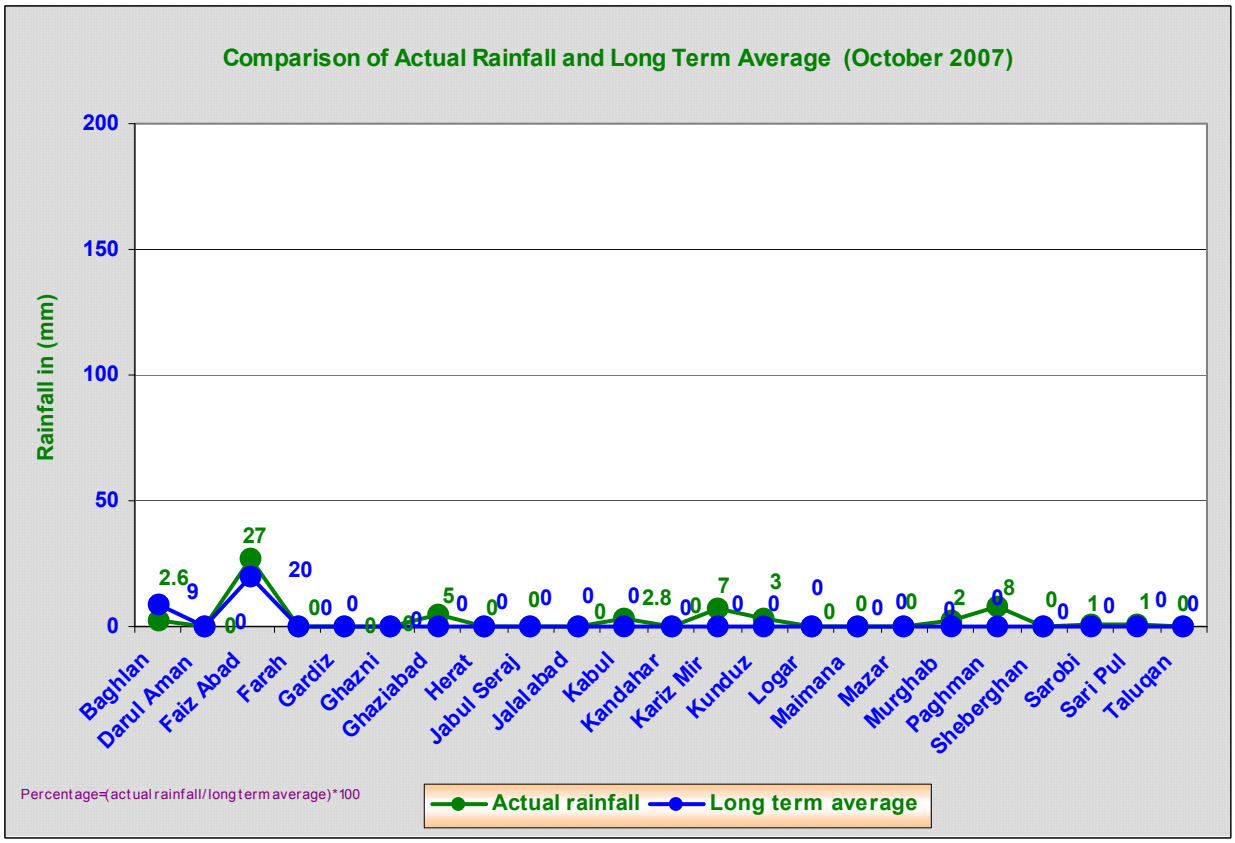

Comparison of Actual Yearly Rainfall(2006-2007) with Long Term Aveage
Rainfall (mm)
1400
1200
1000
800
600
400
200
0
BAMIYAN
CHAKHCHARAN
FAIZABAD
FARAH
GARDIZ
GHAZNI
HERAT
JABUL-SARAJ
JALALABAD
KABUL
KANDAHAR
KARIZIMIR
KHOST
KUNDUZ
LAGHMAN
LOGAR
AZAR-I-SHARIF
MIMANA
MOQUR
PAGHMAN
SHEBIRGHAN
Long-Term Average Rainfall
Actual Rainfall 2005-2006

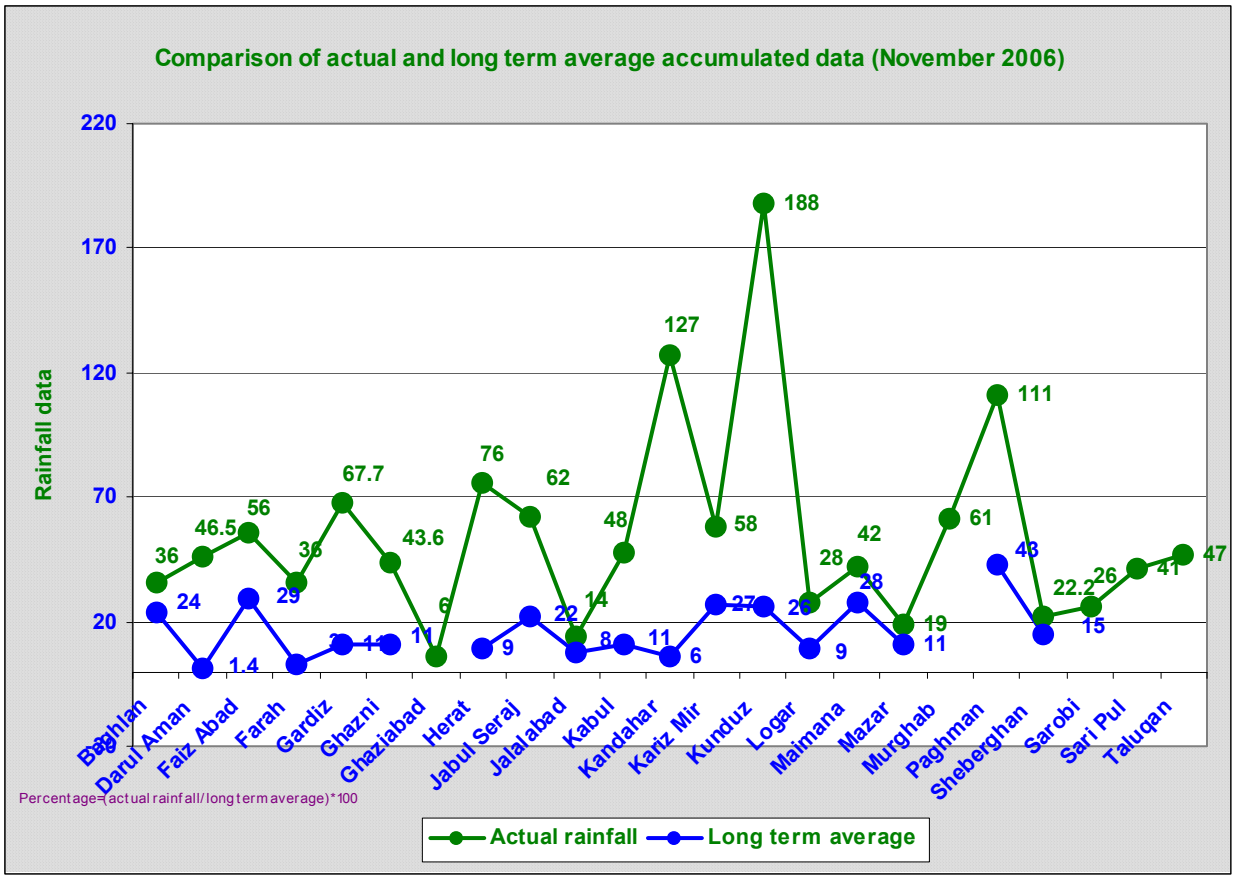
مقایسه بارندگی فصل (۲۰۰۵-۲۰۰۶)

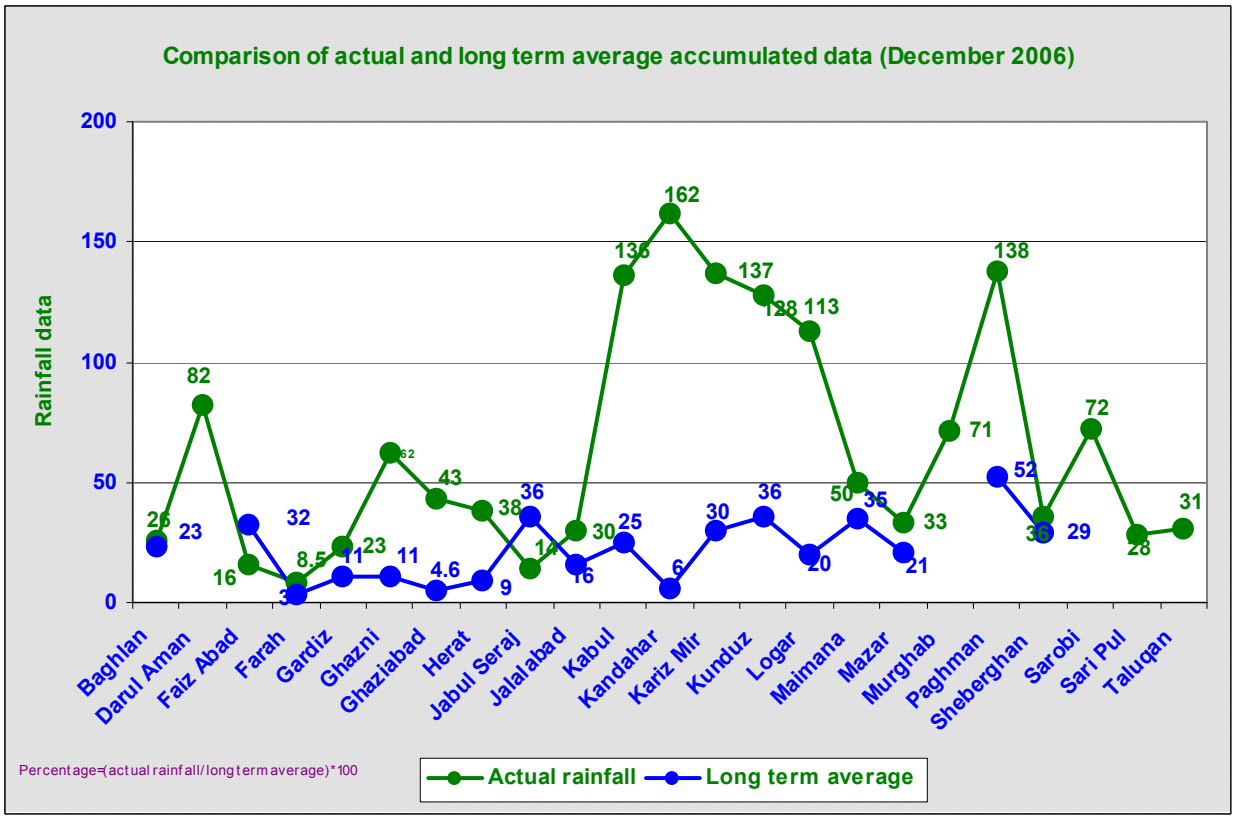
با

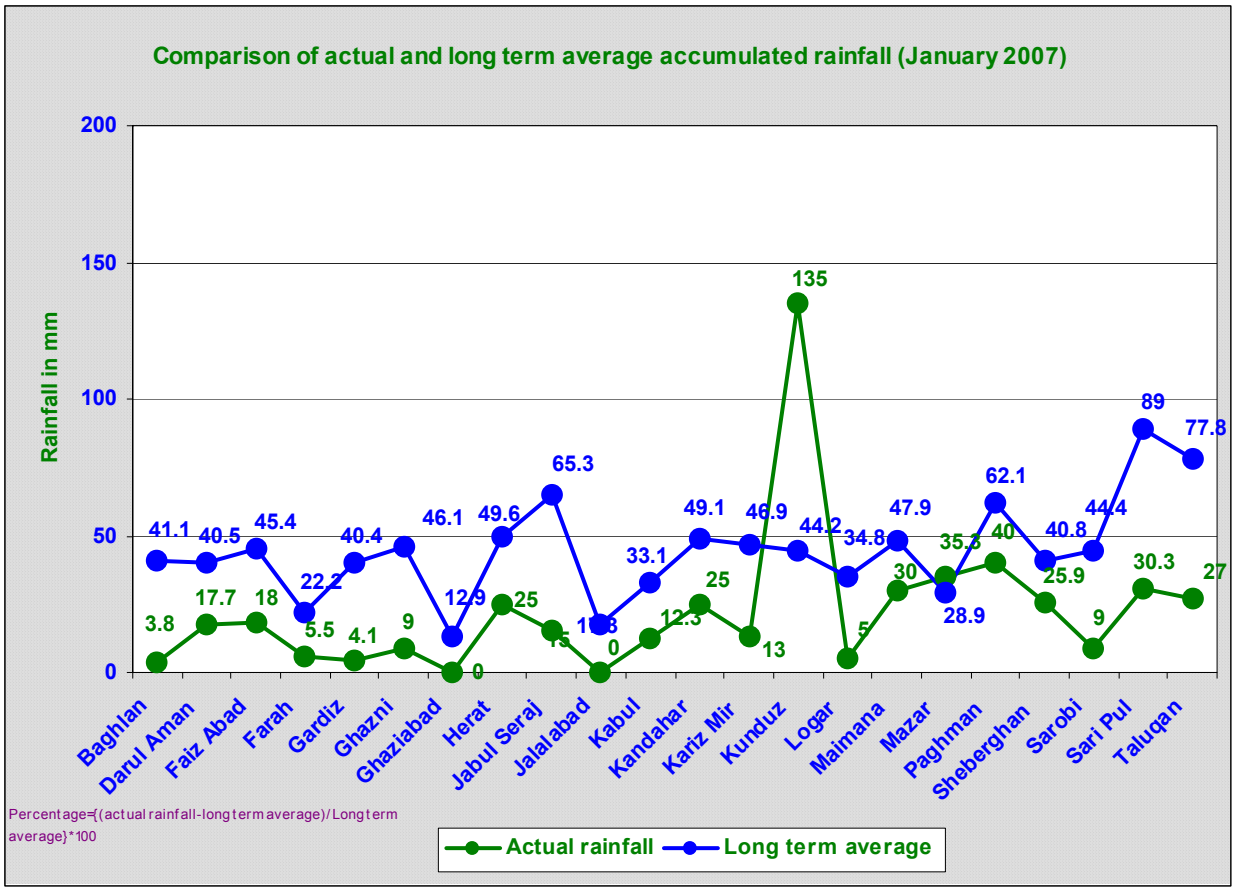
اوسط درازمدت
(به ملی متر)

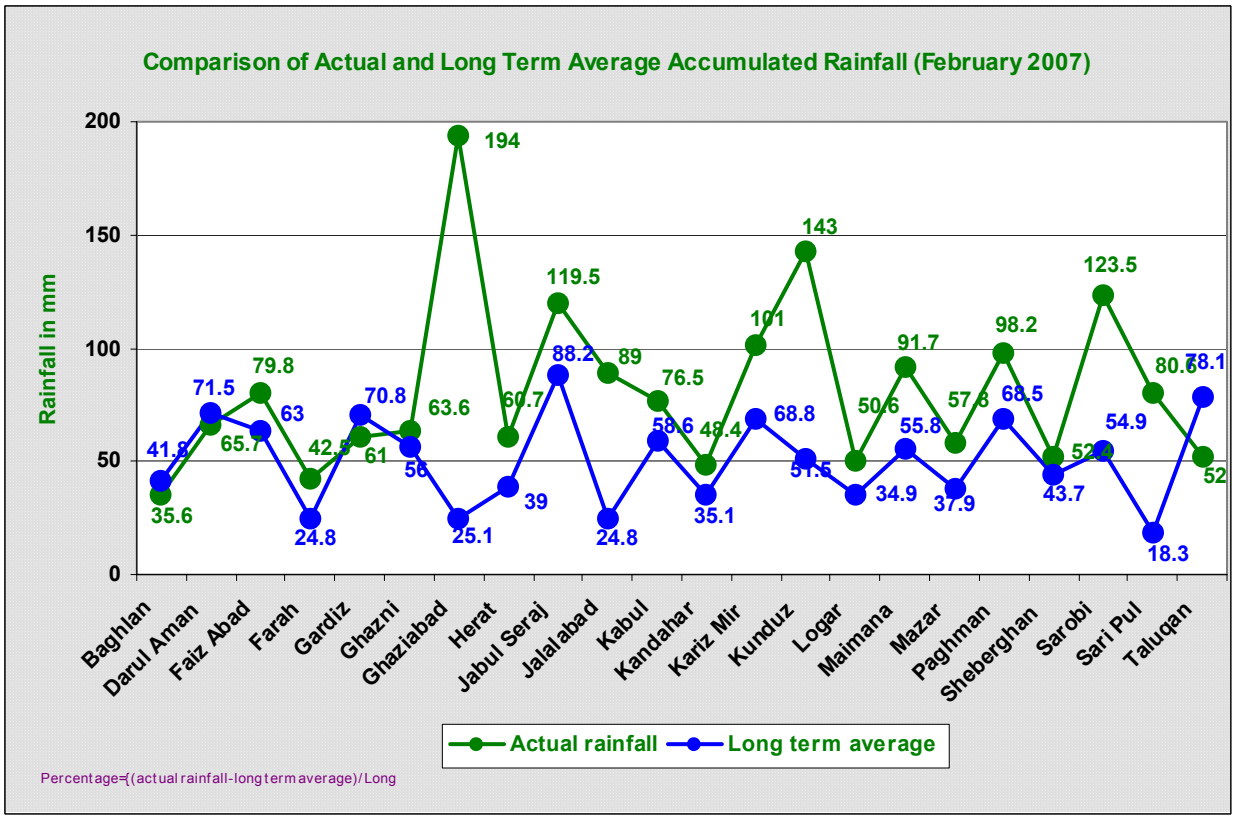

Comparison of actual and long term average accumulated data (September 2007)
Rainfall data
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Percentage=(actual rainfall/long term average)*100
Actual rainfall
Long term average

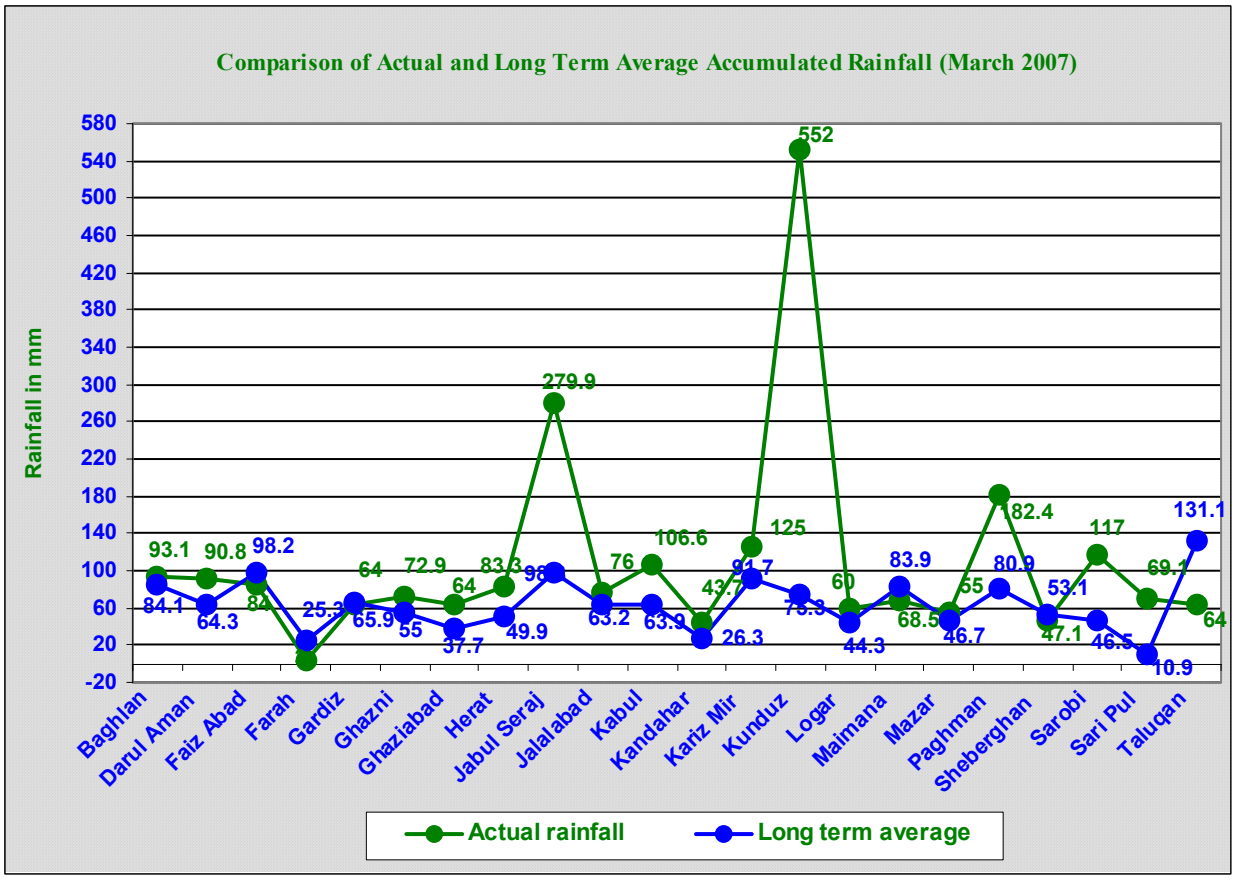

Comparison of Actual Rainfall and Long Term Average (October 2007)
Rainfall in (mm)
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Percentage=(actual rainfall/long term average)*100
Actual rainfall
Long term average

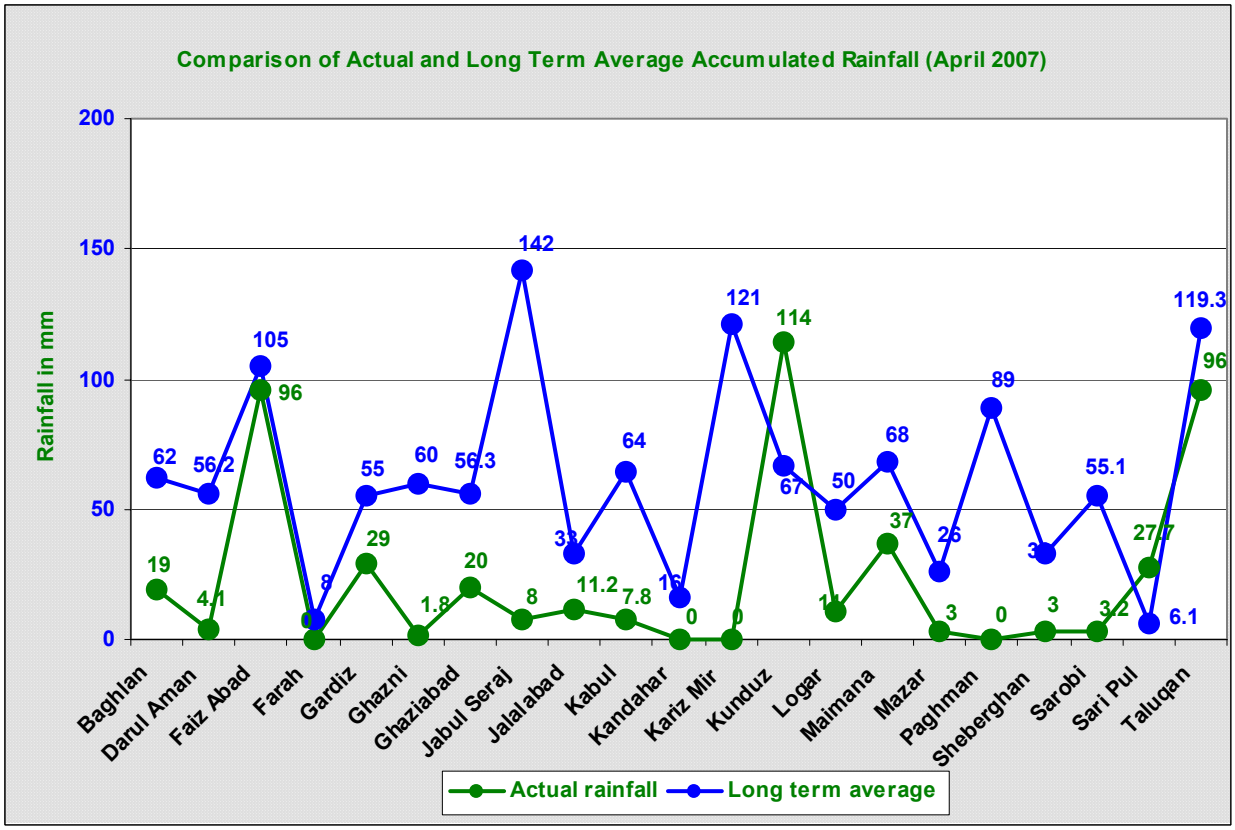

Comparison of actual and long term average accumulated data (November 2006)
Rainfall data
220
170
120
70
20
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Percentage=(actual rainfall/long term average)*100
Actual rainfall
Long term average

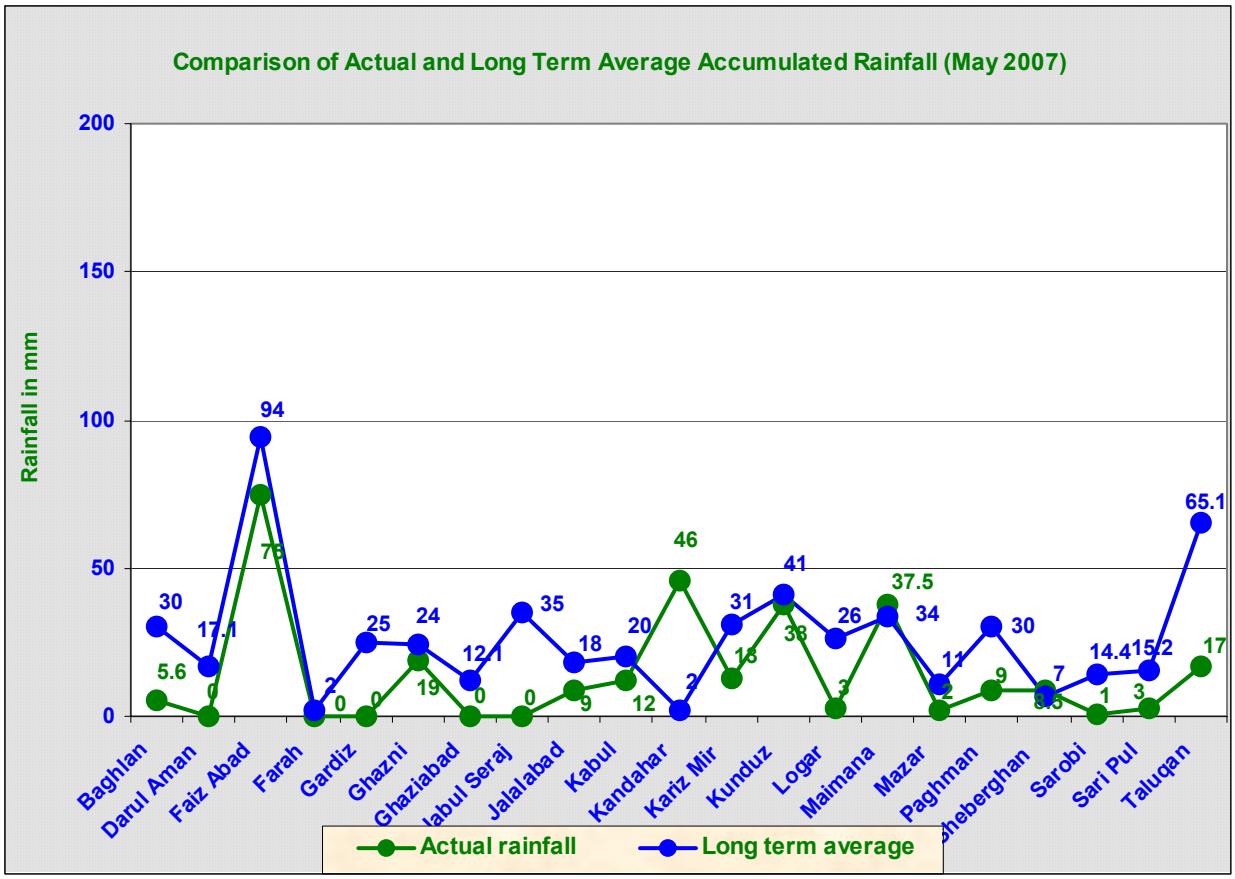

Comparison of actual and long term average accumulated data (December 2006)
Rainfall data
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Percentage=(actual rainfall/long term average)*100
Actual rainfall
Long term average

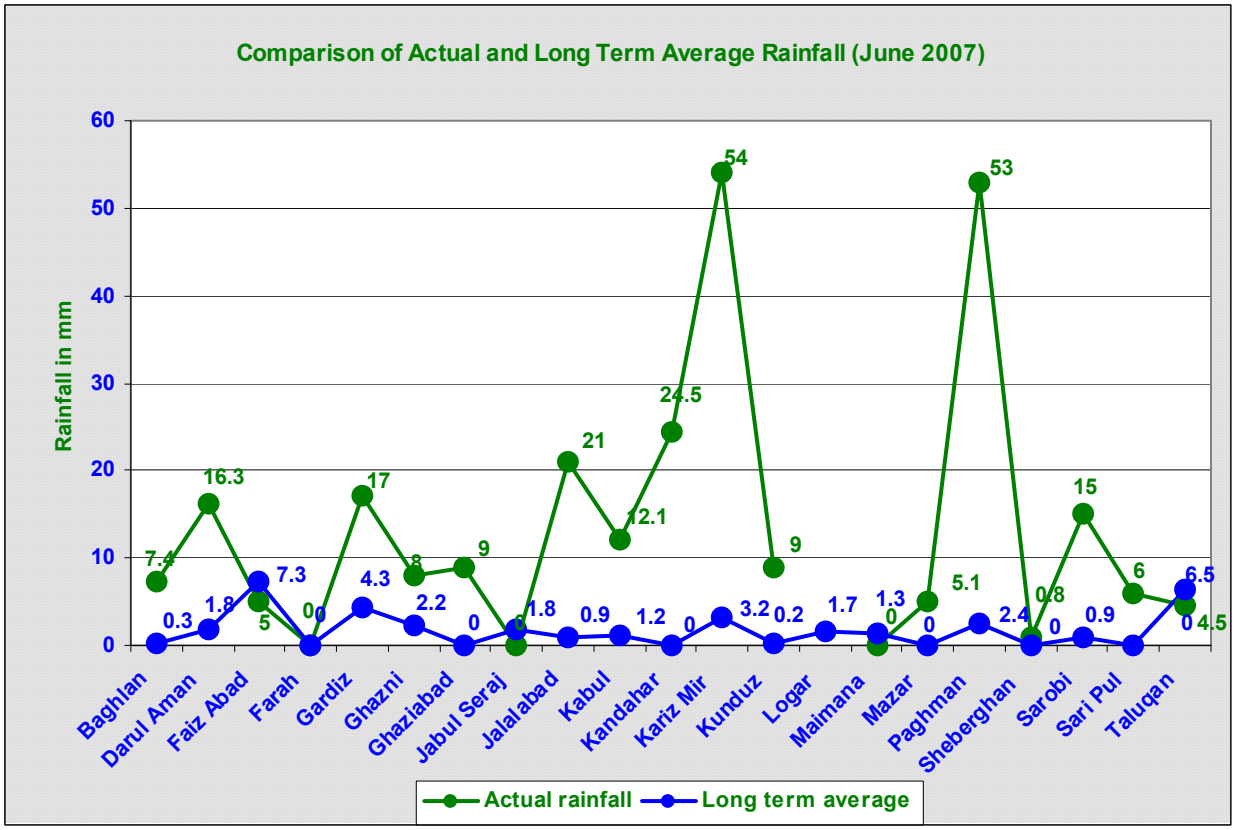

Comparison of actual and long term average accumulated rainfall (January 2007)
Rainfall in mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Percentage={(actual rainfall-long term average)/Long term average}*100
Actual rainfall
Long term average

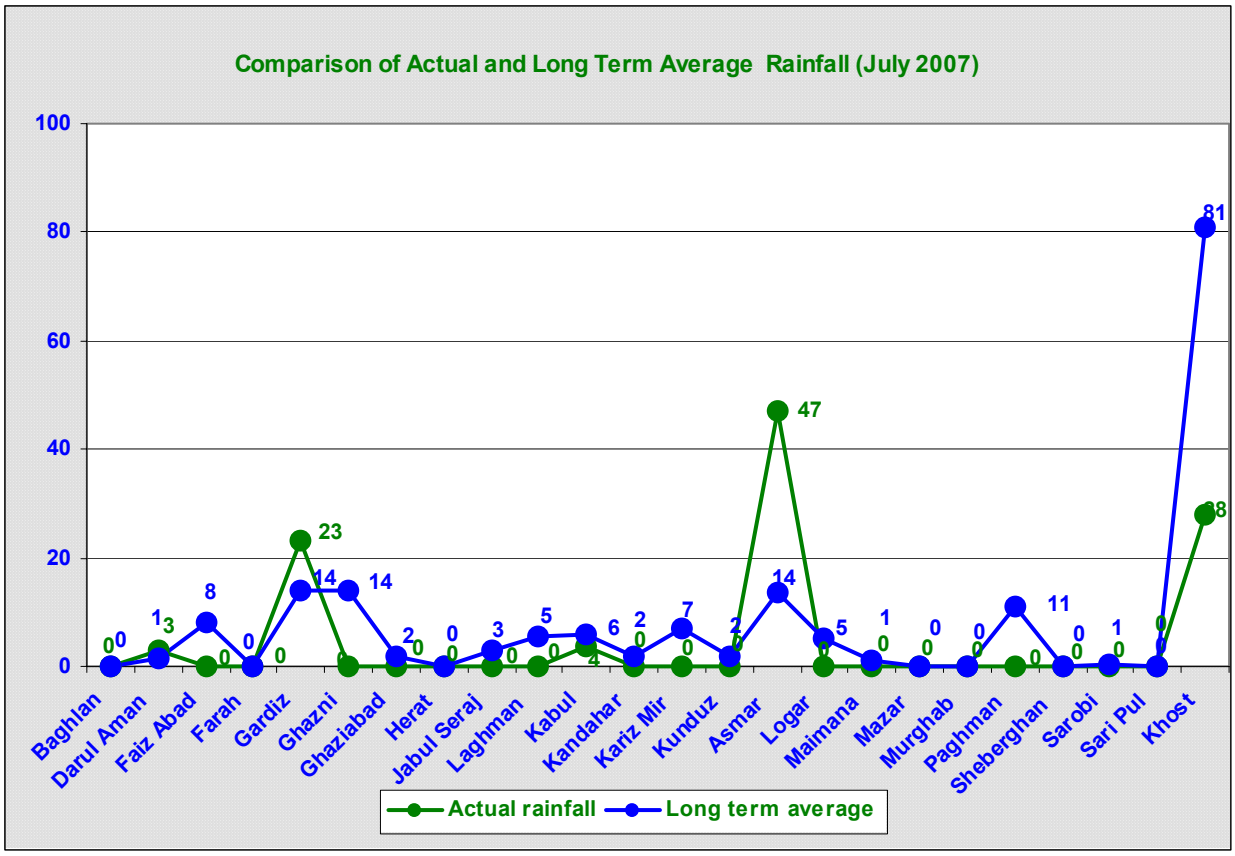

Comparison of Actual and Long Term Average Accumulated Rainfall (February 2007)
Rainfall in mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Percentage={(actual rainfall-long term average)/Long
Actual rainfall
Long term average

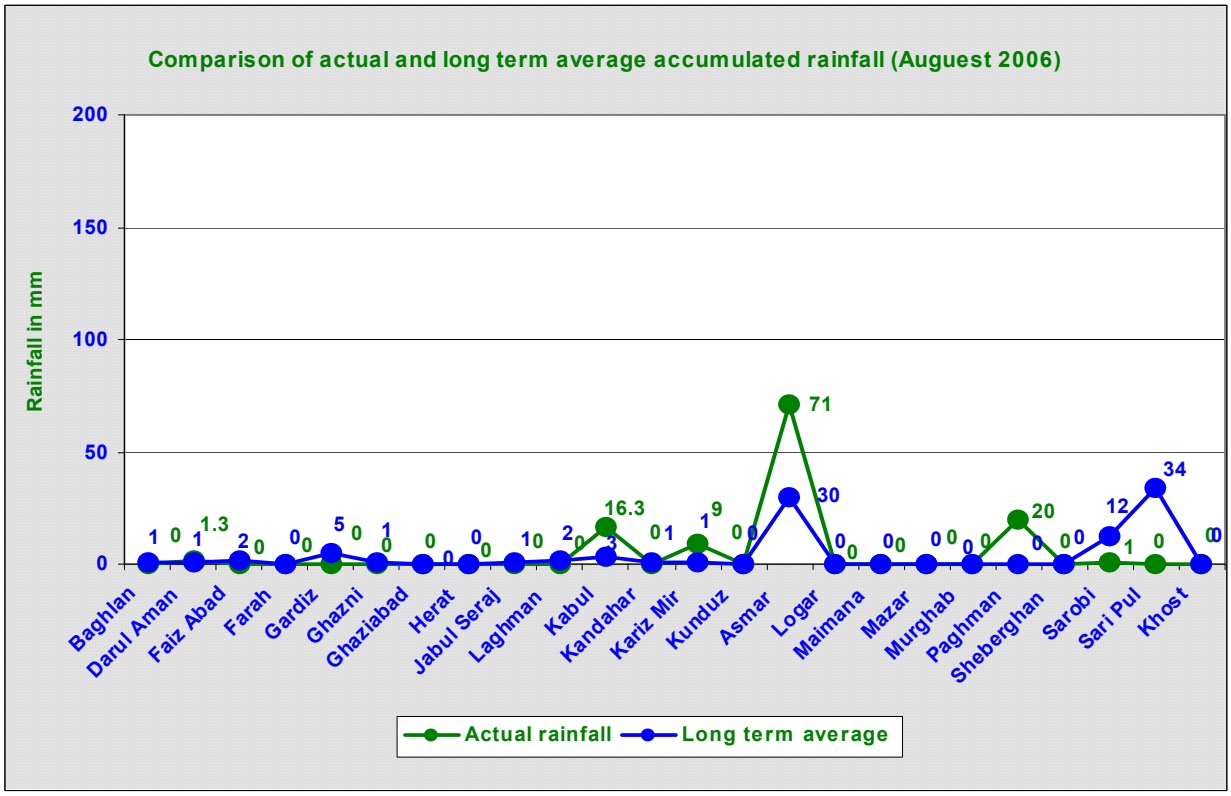

Comparison of Actual and Long Term Average Accumulated Rainfall (March 2007)
Rainfall in mm
580
540
500
460
420
380
340
300
260
220
180
140
100
60
20
-20
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long term average


Comparison of Actual and Long Term Average Accumulated Rainfall (April 2007)
Rainfall in mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long term average


Comparison of Actual and Long Term Average Accumulated Rainfall (May 2007)
Rainfall in mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long term average


Comparison of Actual and Long Term Average Rainfall (June 2007)
Rainfall in mm
60
50
40
30
20
10
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long term average


Comparison of Actual and Long Term Average Rainfall (July 2007)
100
80
60
40
20
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Laghman
Kabul
Kandahar
Kariz Mir
Kunduz
Asmar
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Khost
Actual rainfall
Long term average

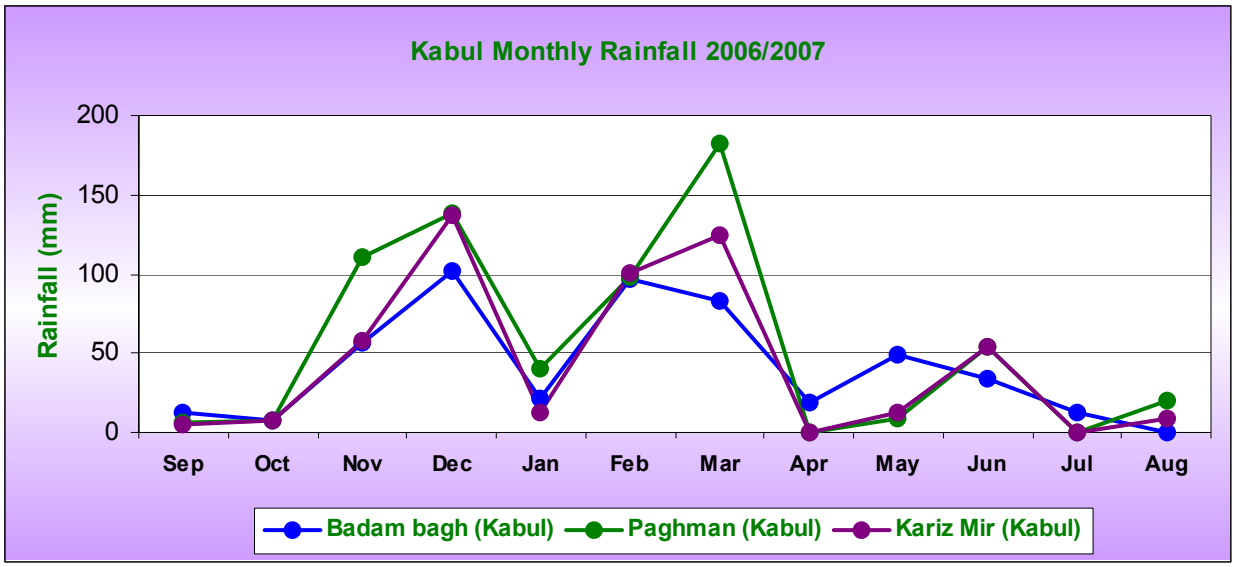

Comparison of actual and long term average accumulated rainfall (Auguest 2006)
Rainfall in mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Laghman
Kabul
Kandahar
Kariz Mir
Kunduz
Asmar
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Khost
Actual rainfall
Long term average

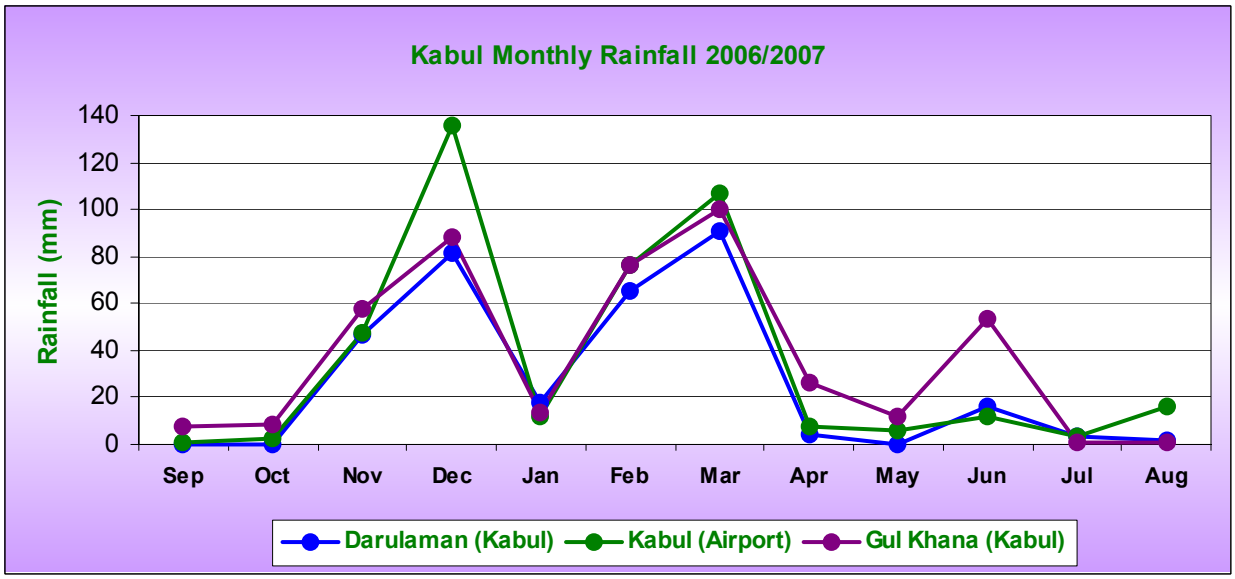
گراف های بارندگی دهه وار

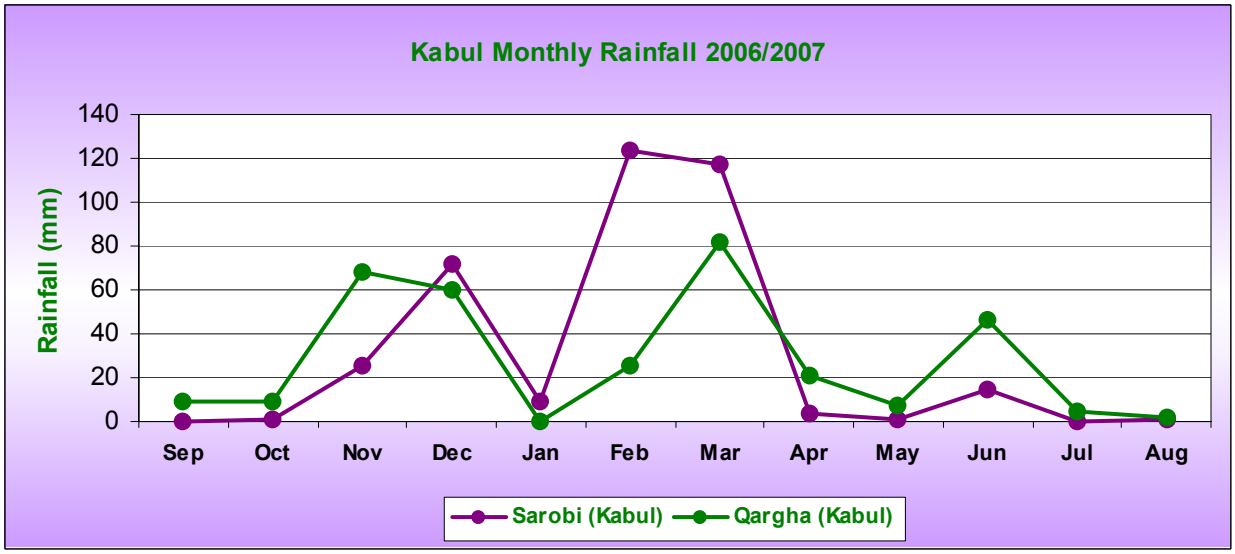
فصل (۲۰۰۵ - ۲۰۰۶)
نظر به مناطق

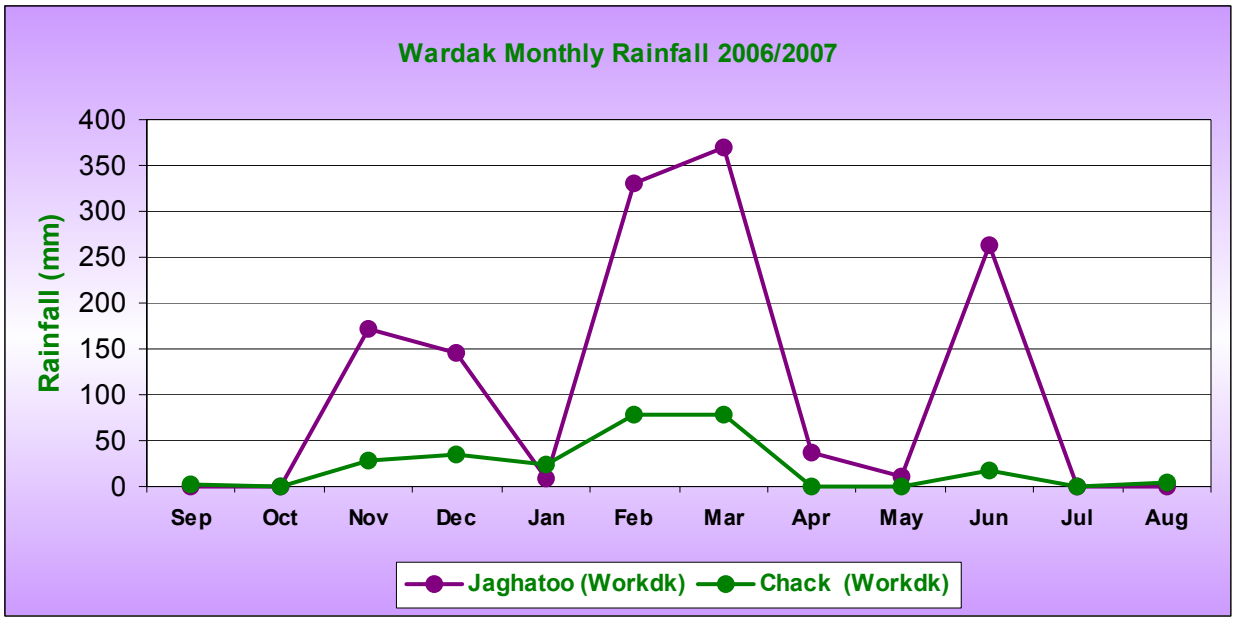
Dekadal Rainfall Graphs by Region

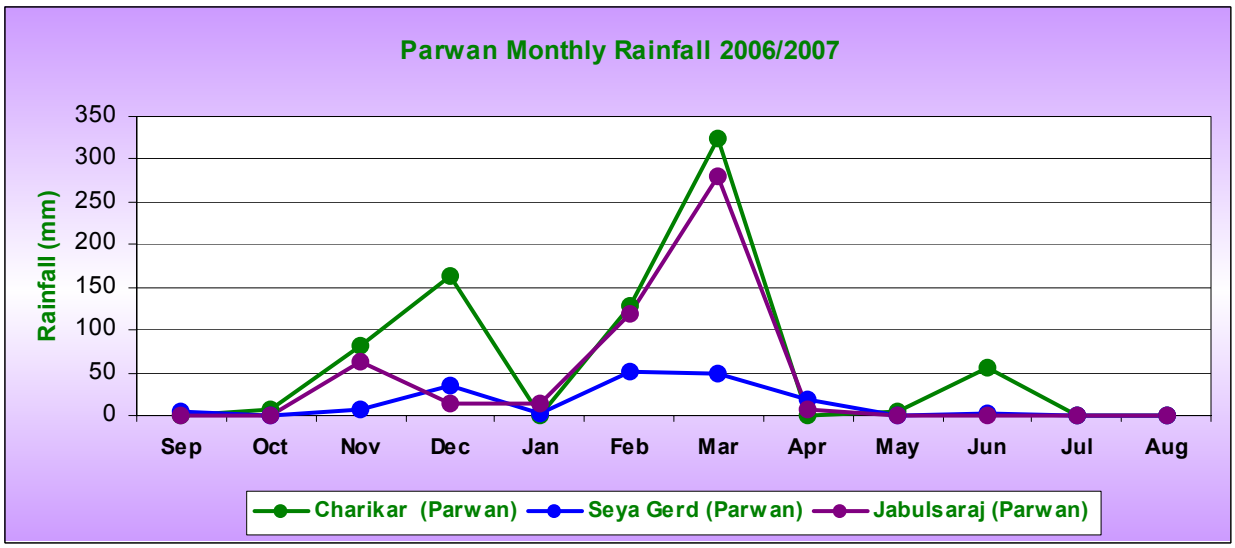
Capital Region

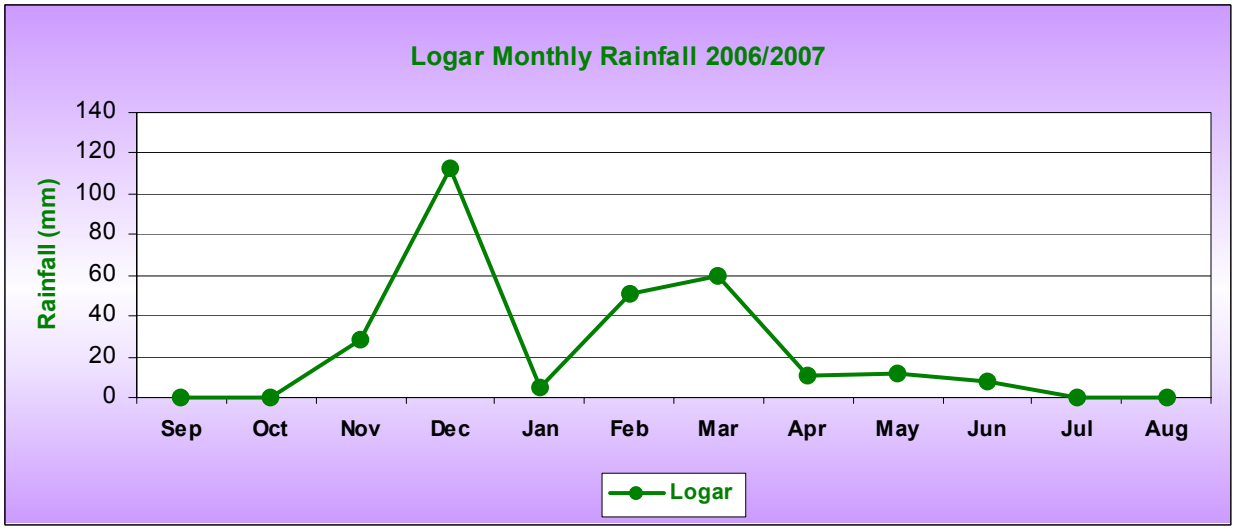


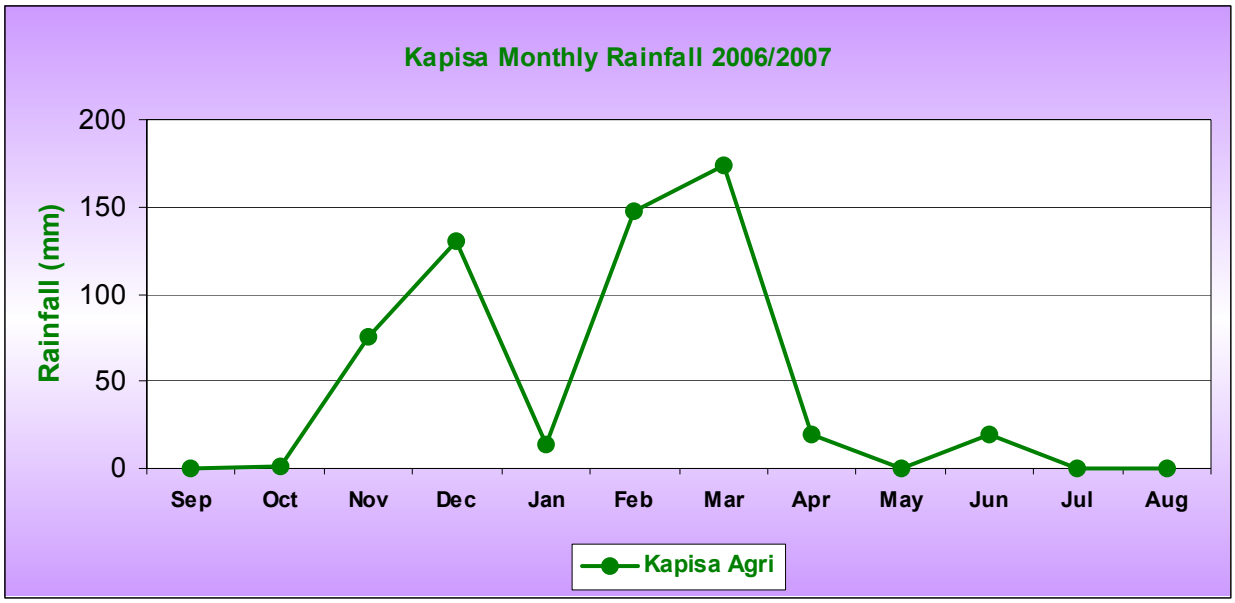


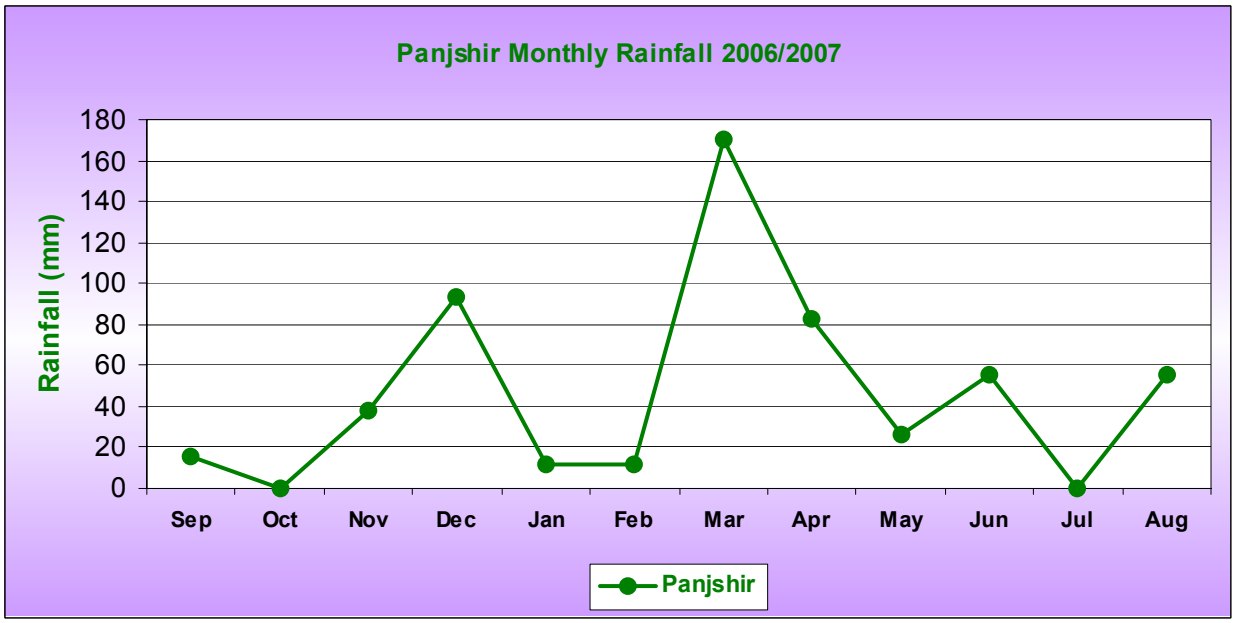


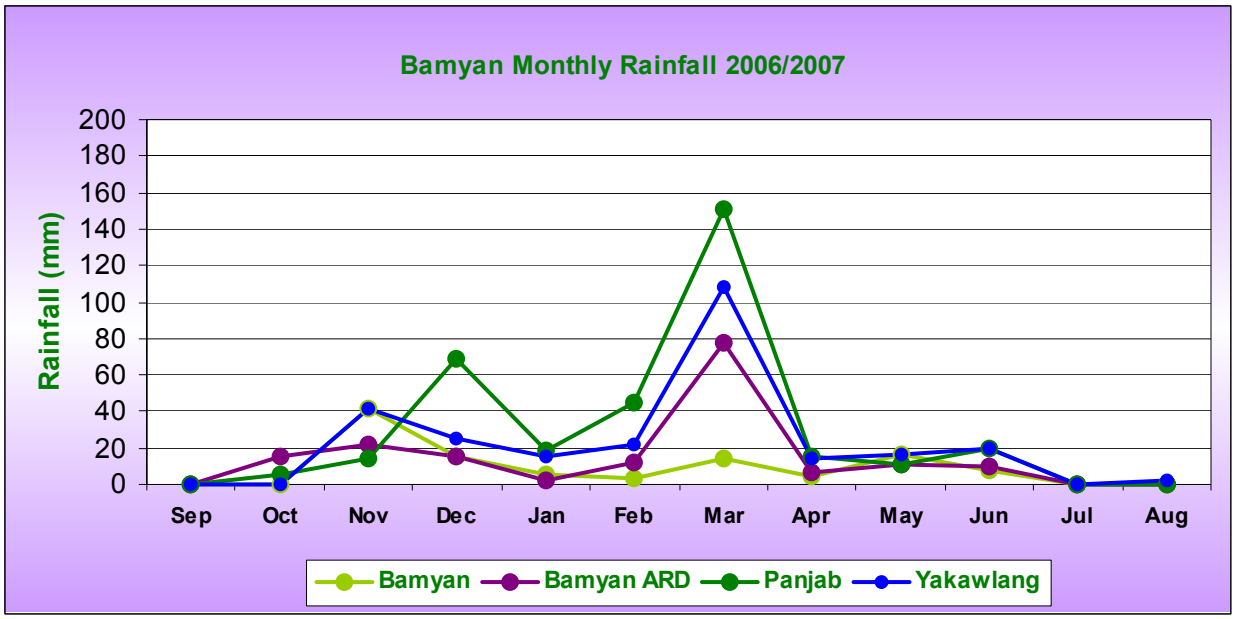

Wardak Monthly Rainfall 2006/2007
Rainfall (mm)
400
350
300
250
200
150
100
50
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Jaghatoo (Workdk)
Chack (Workdk)

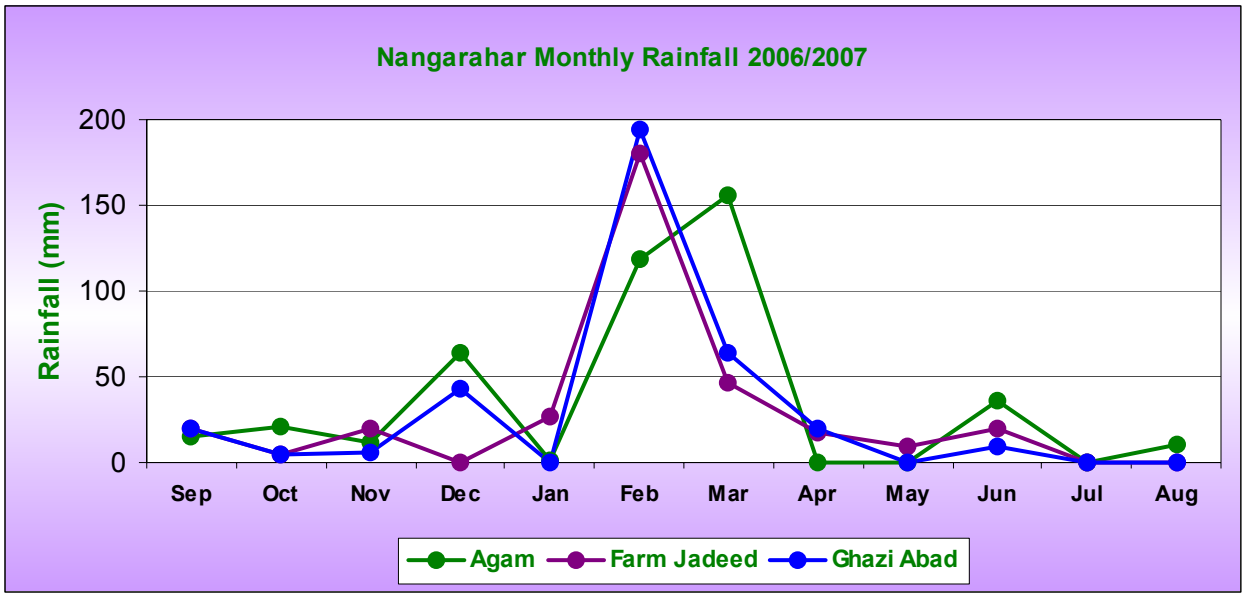

Parwan Monthly Rainfall 2006/2007
Rainfall (mm)
350
300
250
200
150
100
50
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Charikar (Parwan)
Seya Gerd (Parwan)
Jabulsaraj (Parwan)

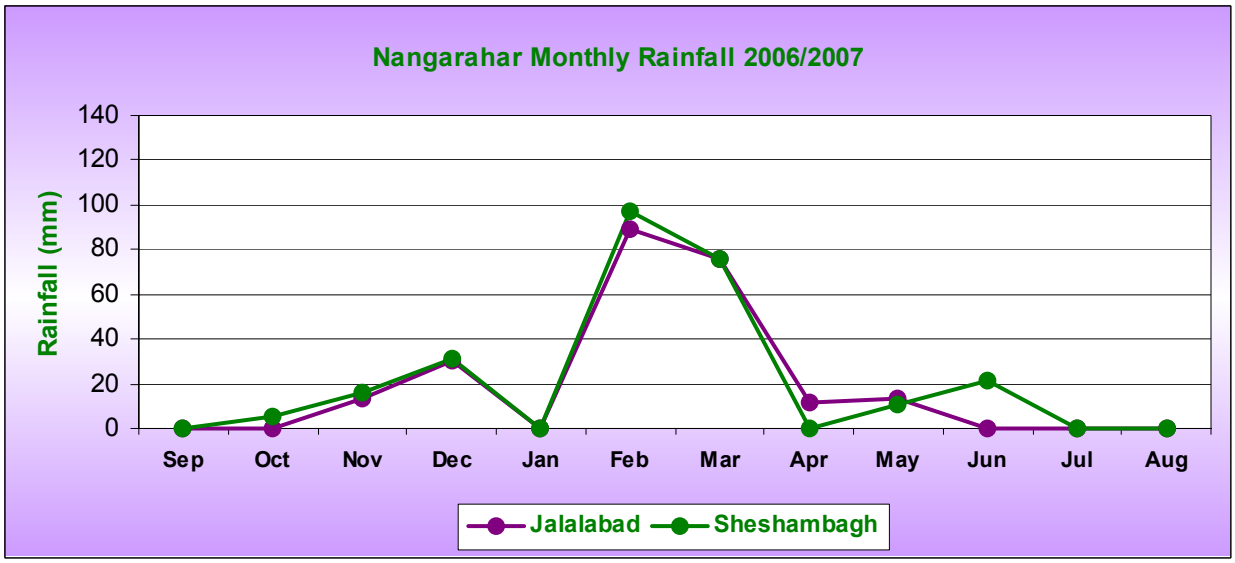

Logar Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Logar

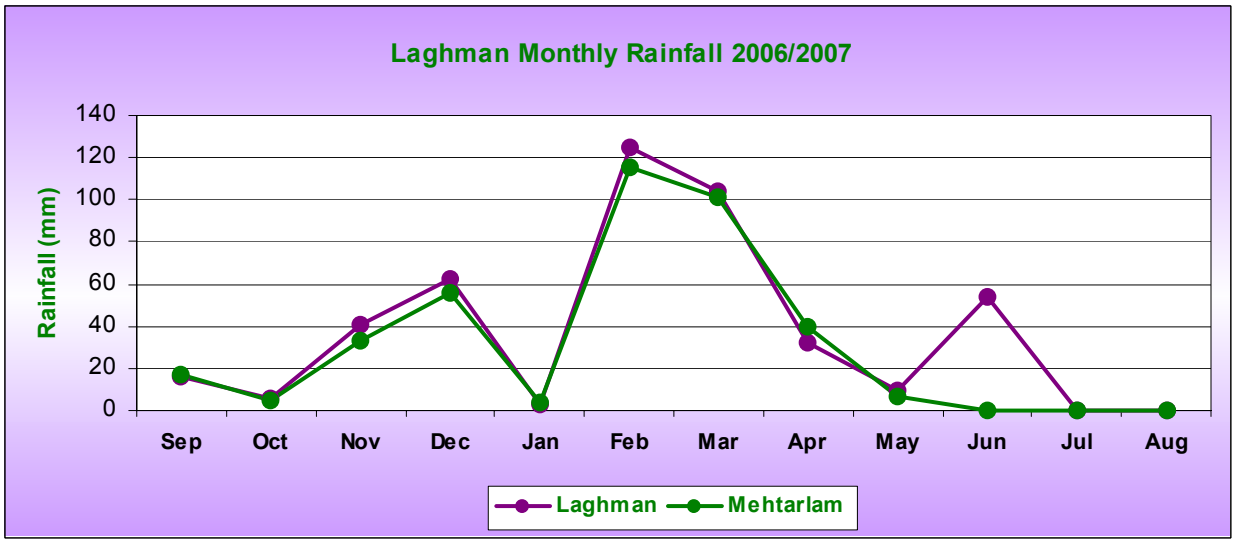

Kapisa Monthly Rainfall 2006/2007
Rainfall (mm)
200
150
100
50
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Kapisa Agri

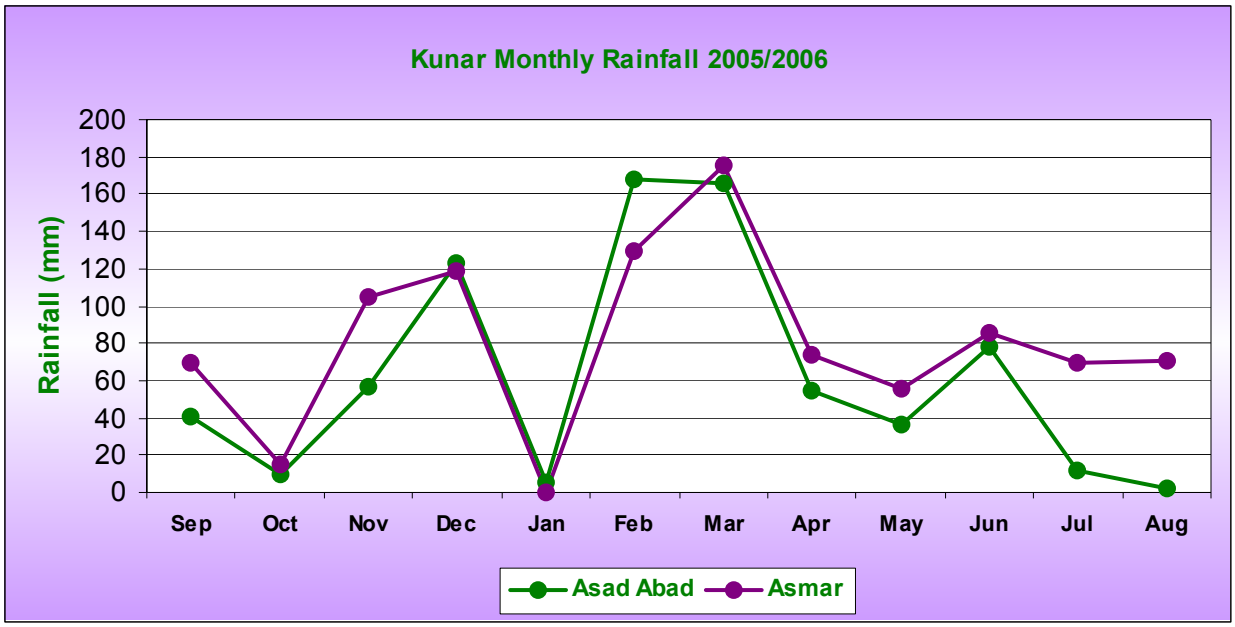

Panjshir Monthly Rainfall 2006/2007
Rainfall (mm)
180
160
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Panjshir

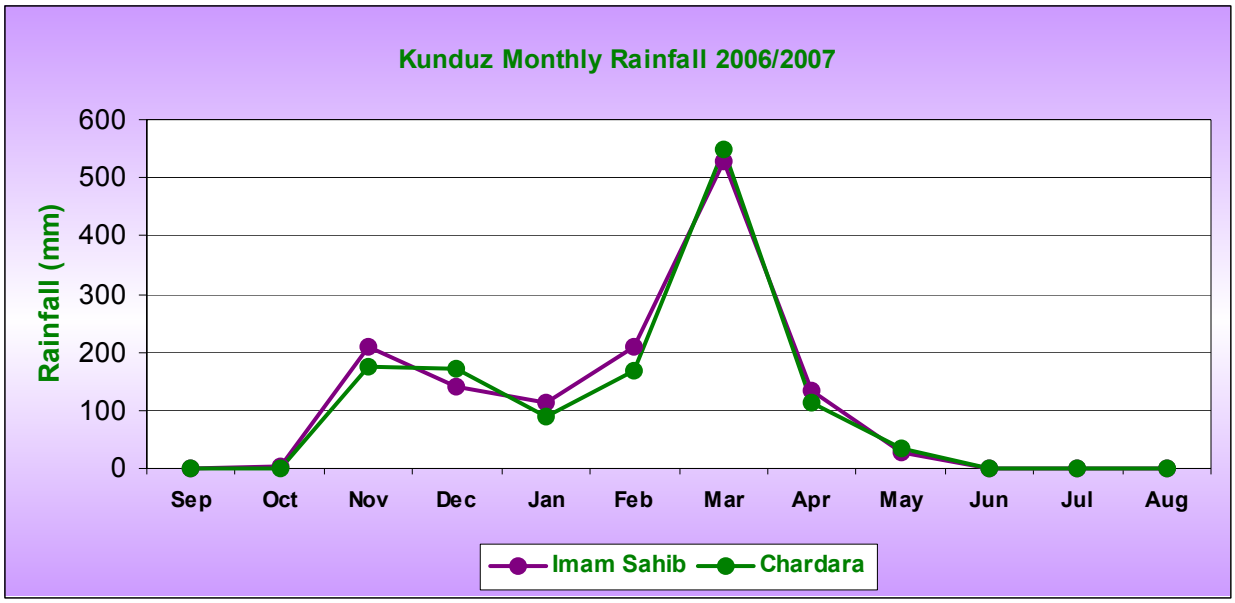

Bamyan Monthly Rainfall 2006/2007
Rainfall (mm)
200
180
160
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Bamyan
Bamyan ARD
Panjab
Yakawlang

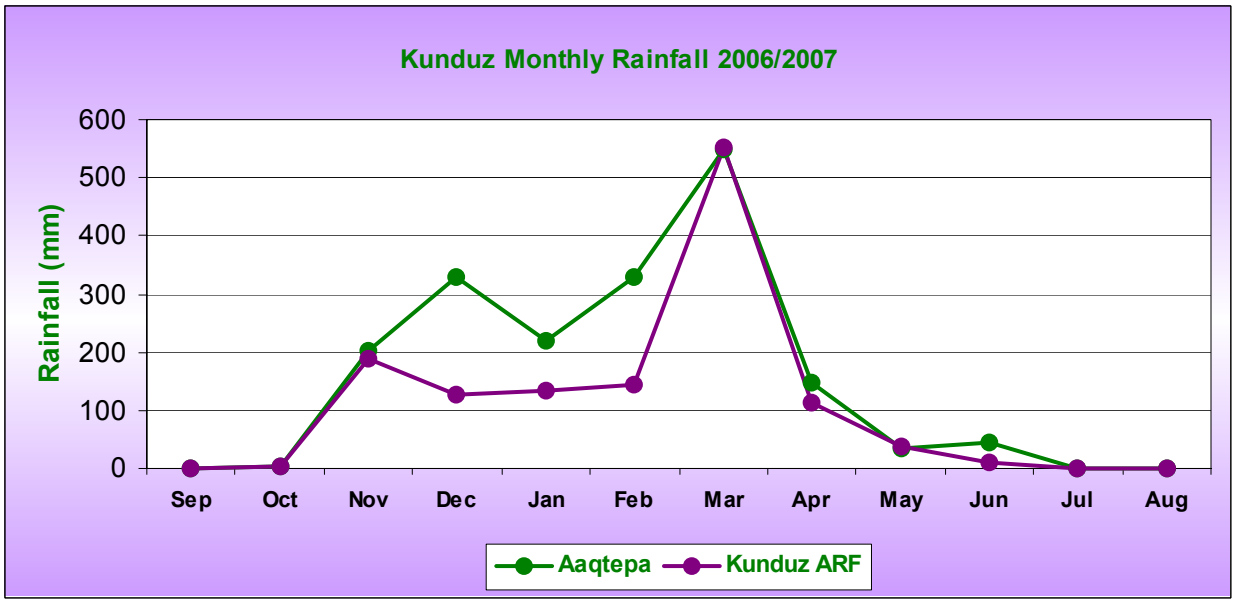

Nangarahar Monthly Rainfall 2006/2007
Rainfall (mm)
200
150
100
50
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Agam
Farm Jadeed
Ghazi Abad

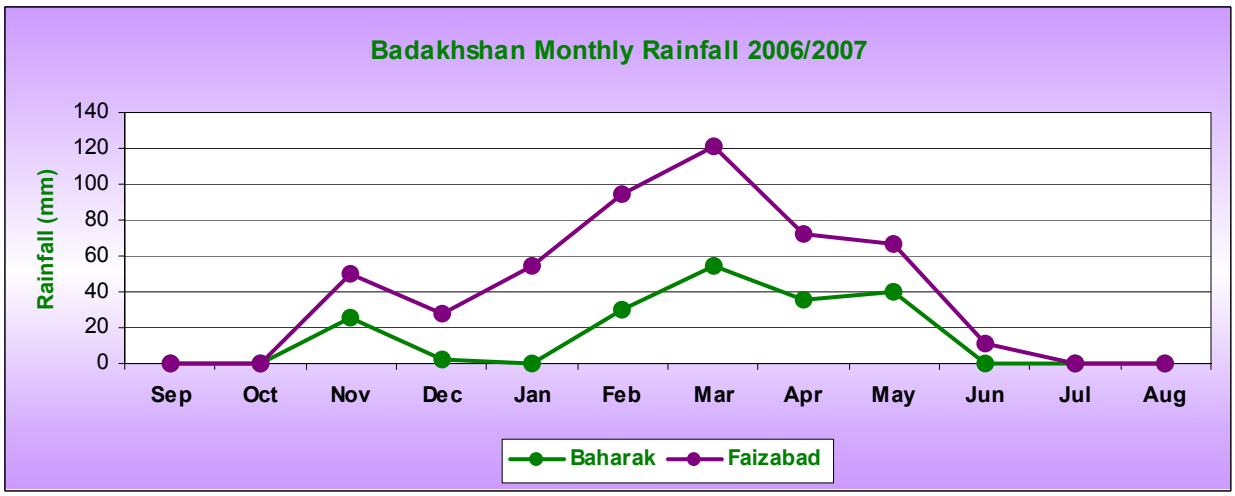

Nangarahar Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Jalalabad
Sheshambagh

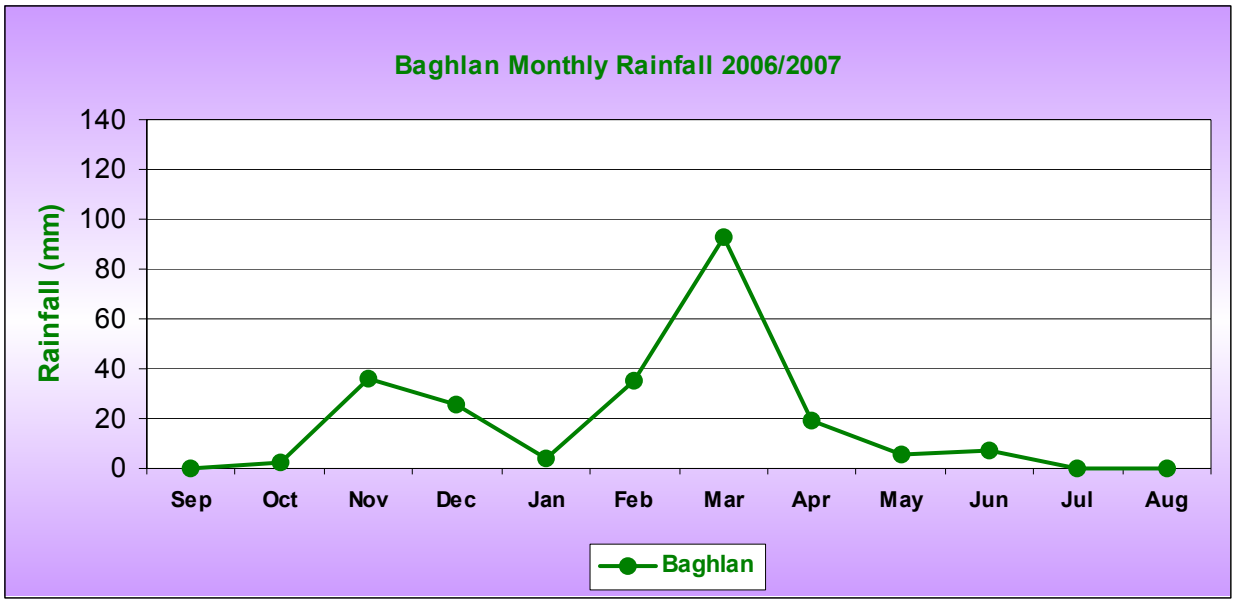

Laghman Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Laghman
Mehtarlam

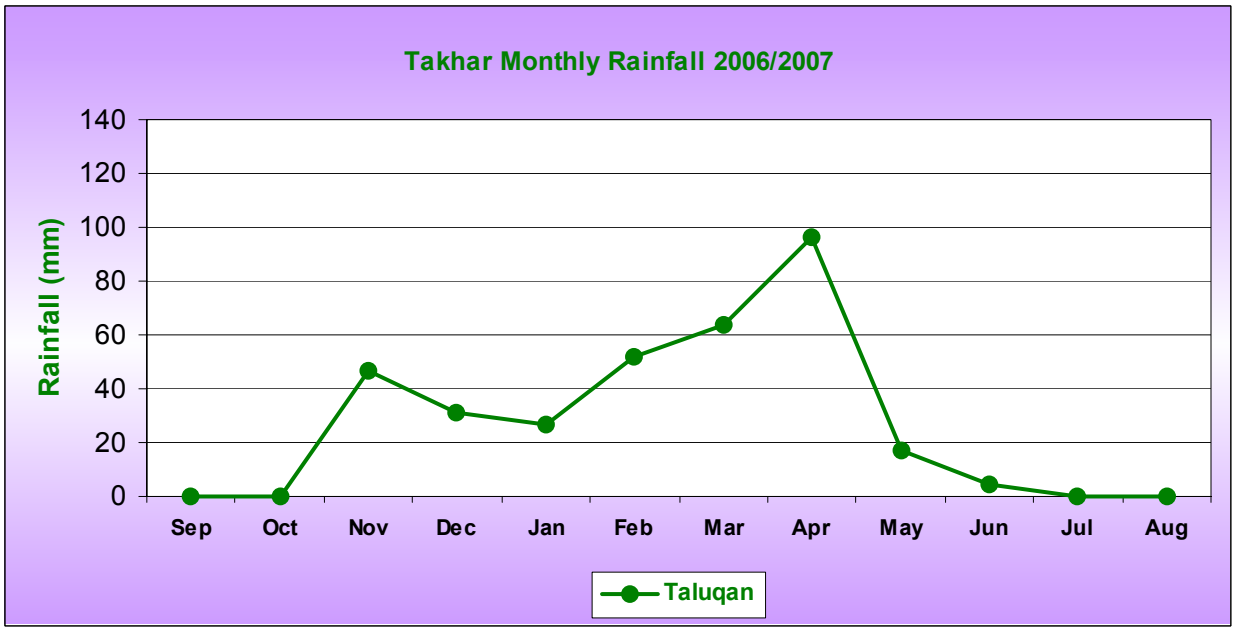

Kunar Monthly Rainfall 2005/2006
Rainfall (mm)
200
180
160
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Asad Abad
Asmar

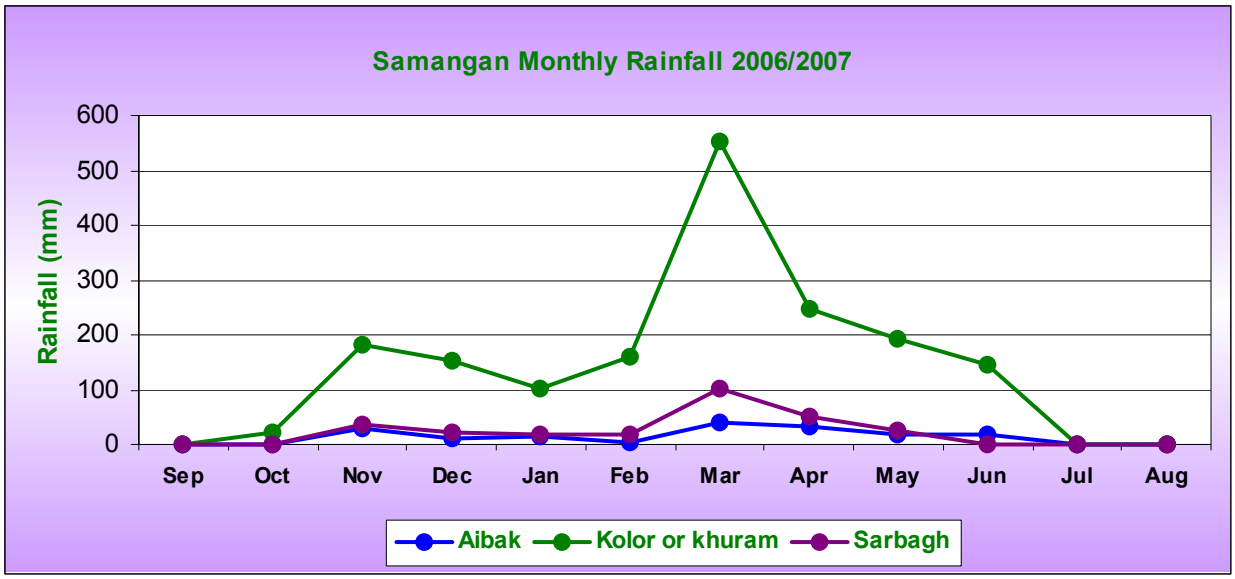

Kunduz Monthly Rainfall 2006/2007
Rainfall (mm)
600
500
400
300
200
100
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Imam Sahib
Chardara

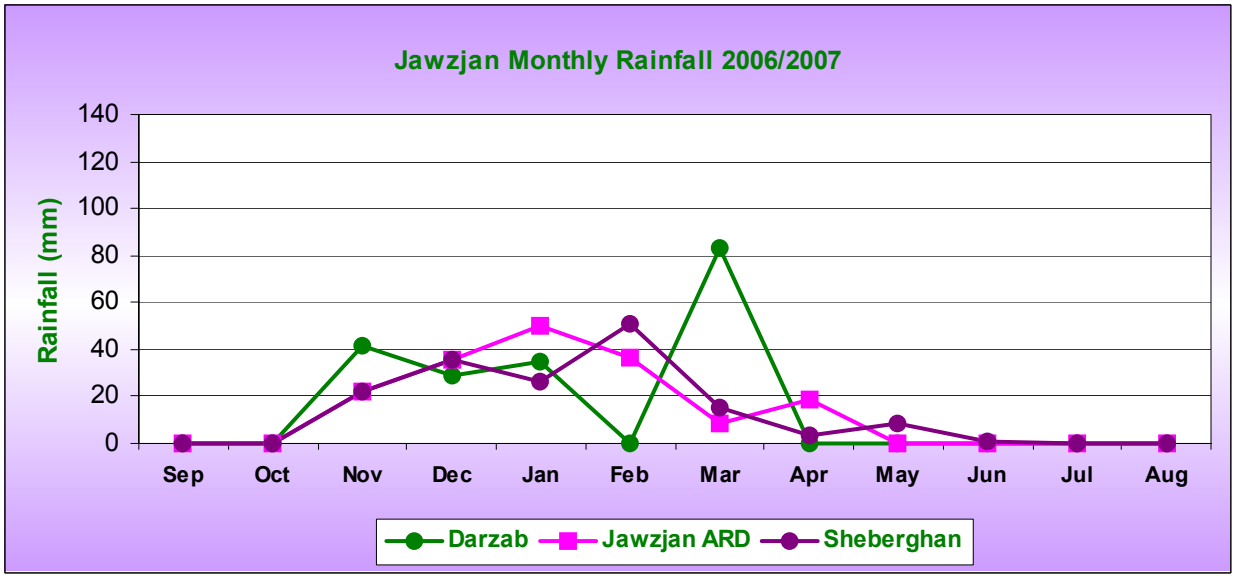

Kunduz Monthly Rainfall 2006/2007
Rainfall (mm)
600
500
400
300
200
100
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Aaqtepa
Kunduz ARF

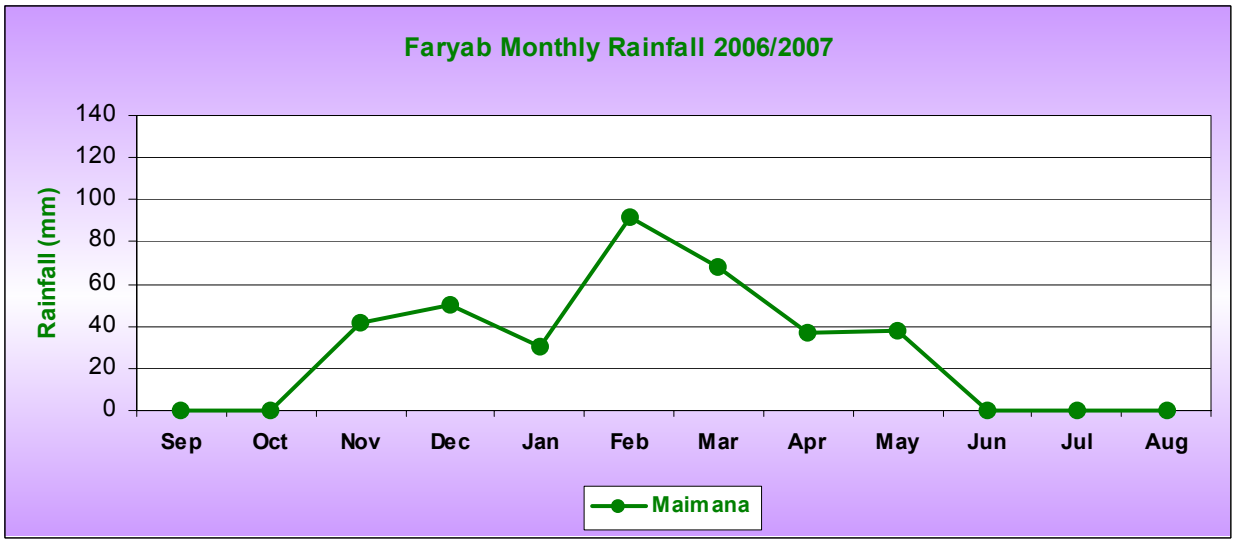

Badakhshan Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Baharak
Faizabad

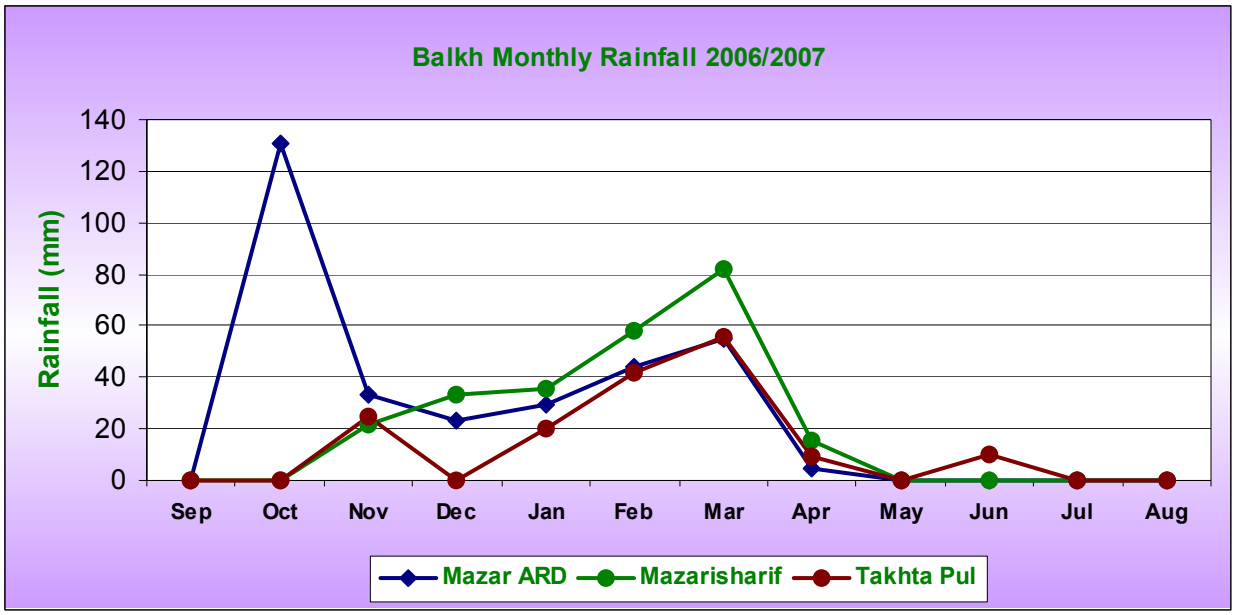

Baghlan Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Baghlan

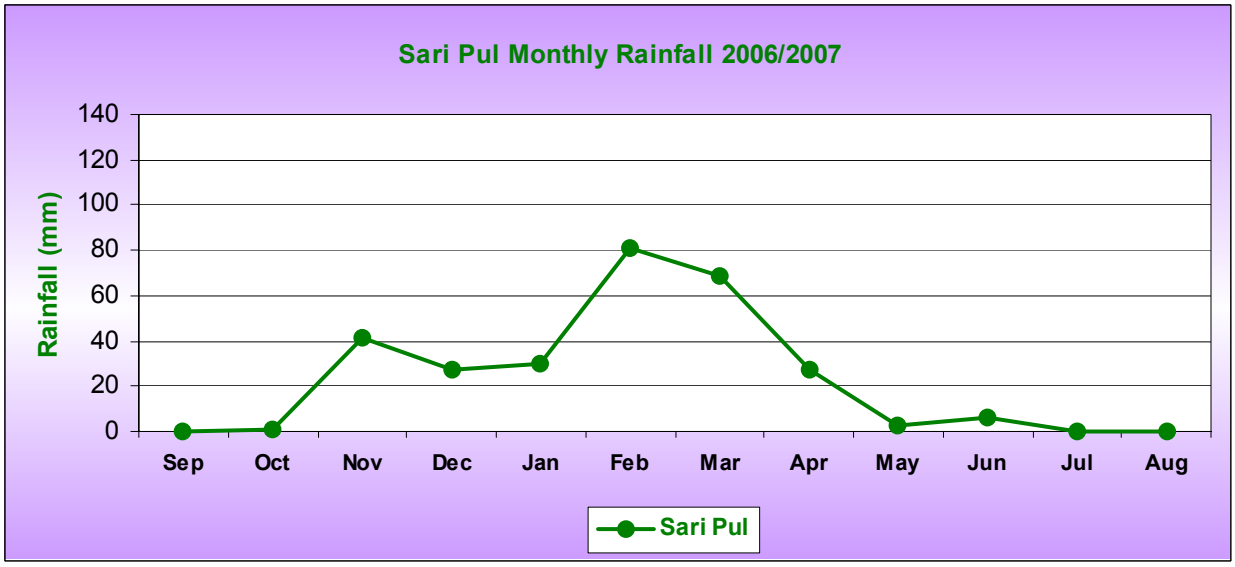

Takhar Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Taluqan

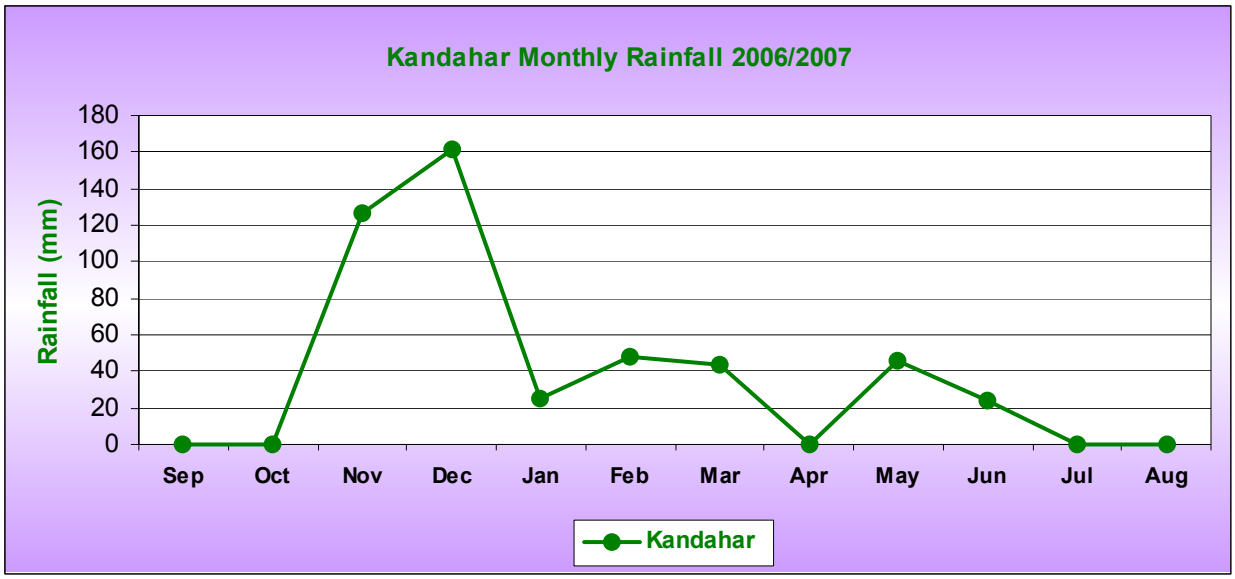

Samangan Monthly Rainfall 2006/2007
Rainfall (mm)
600
500
400
300
200
100
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Aibak
Kolor or khuram
Sarbagh

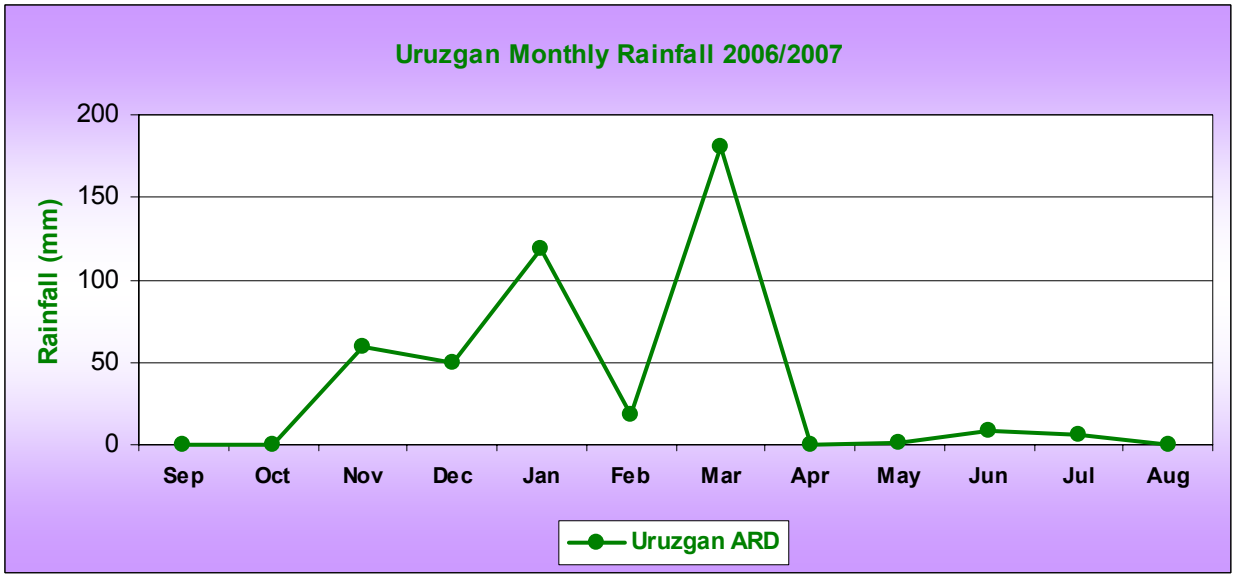

Jawzjan Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Darzab
Jawzjan ARD
Sheberghan

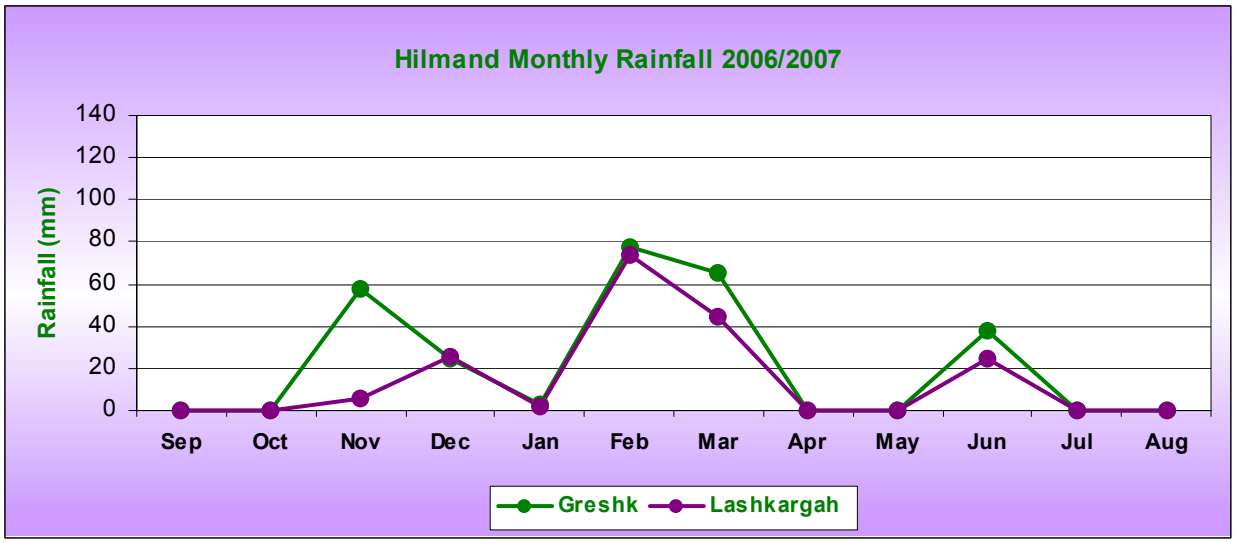

Faryab Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Maimana

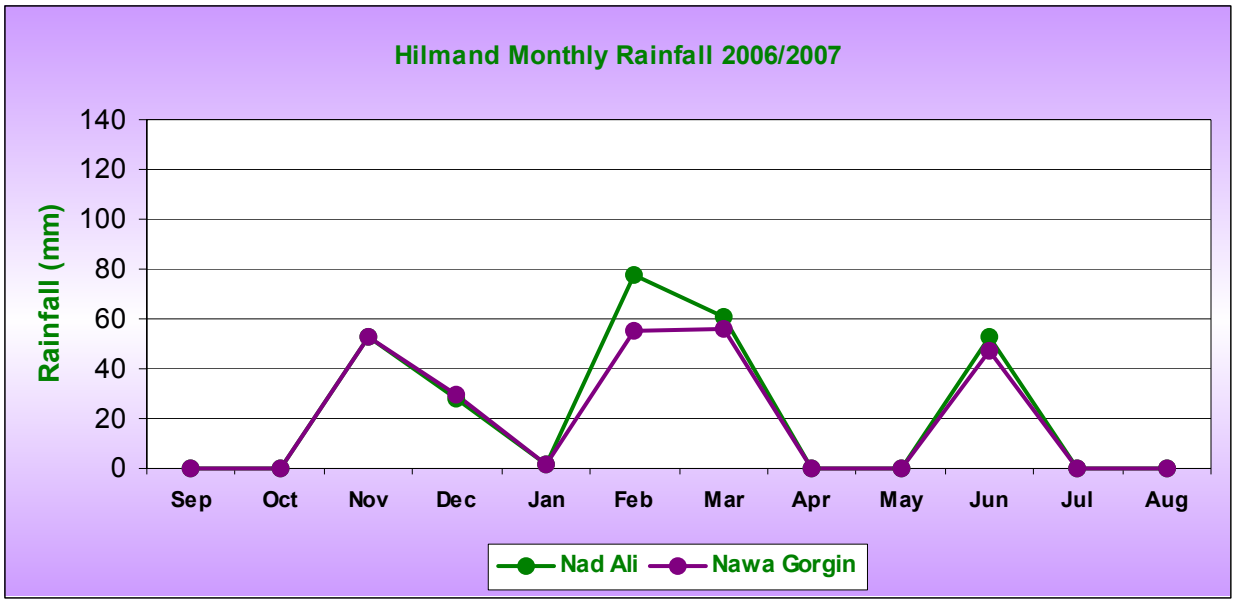

Balkh Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Mazar ARD
Mazarisharif
Takhta Pul

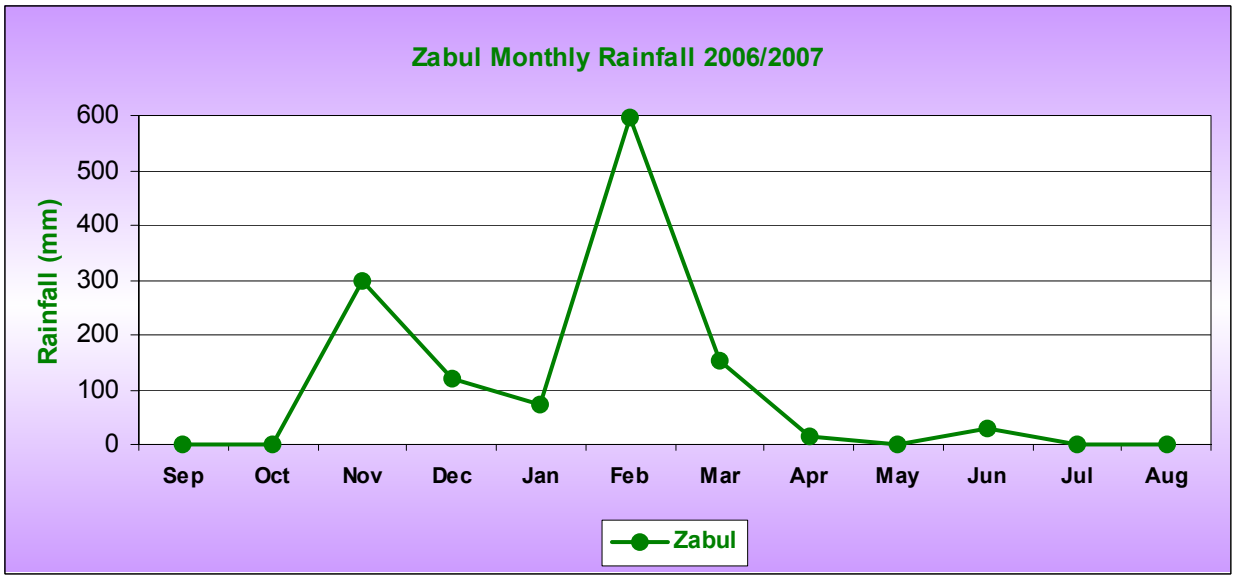

Sari Pul Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sari Pul

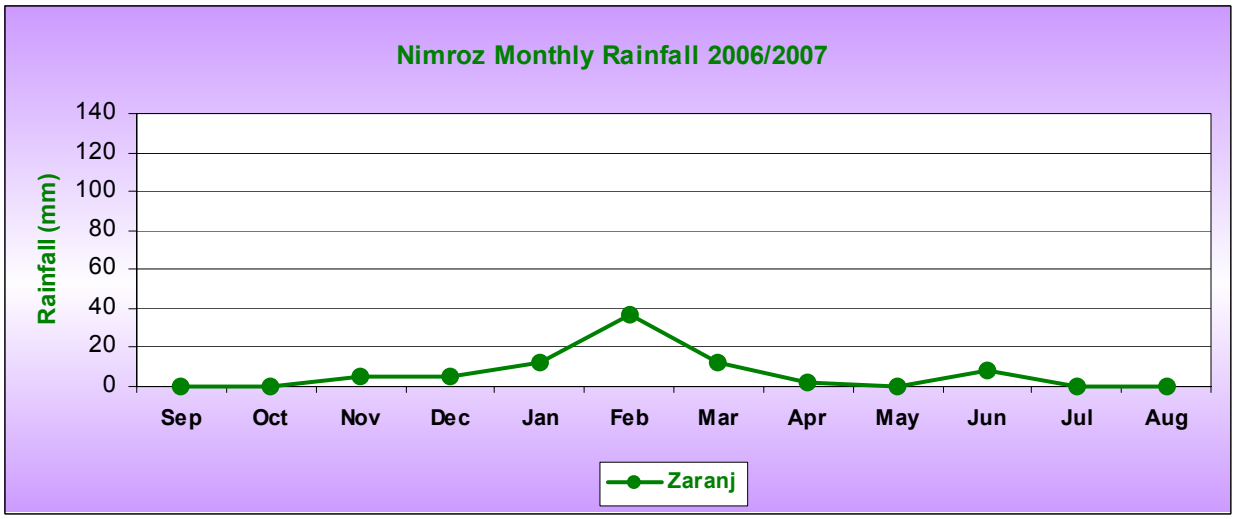

Kandahar Monthly Rainfall 2006/2007
Rainfall (mm)
180
160
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Kandahar


Uruzgan Monthly Rainfall 2006/2007
Rainfall (mm)
200
150
100
50
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Uruzgan ARD

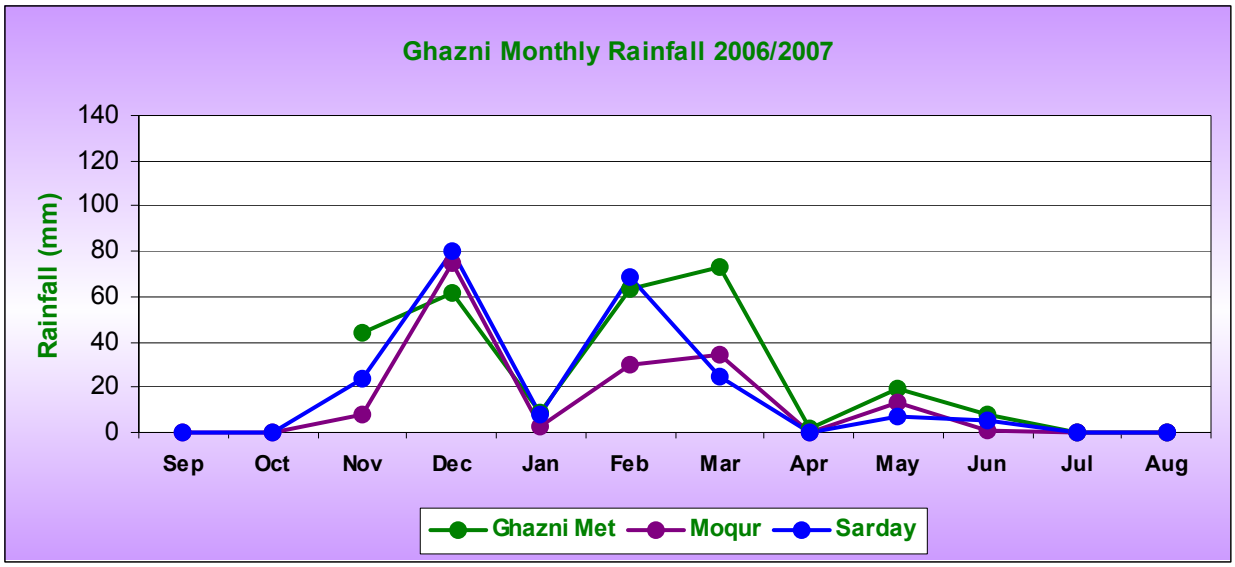

Hilmand Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Greshk
Lashkargah

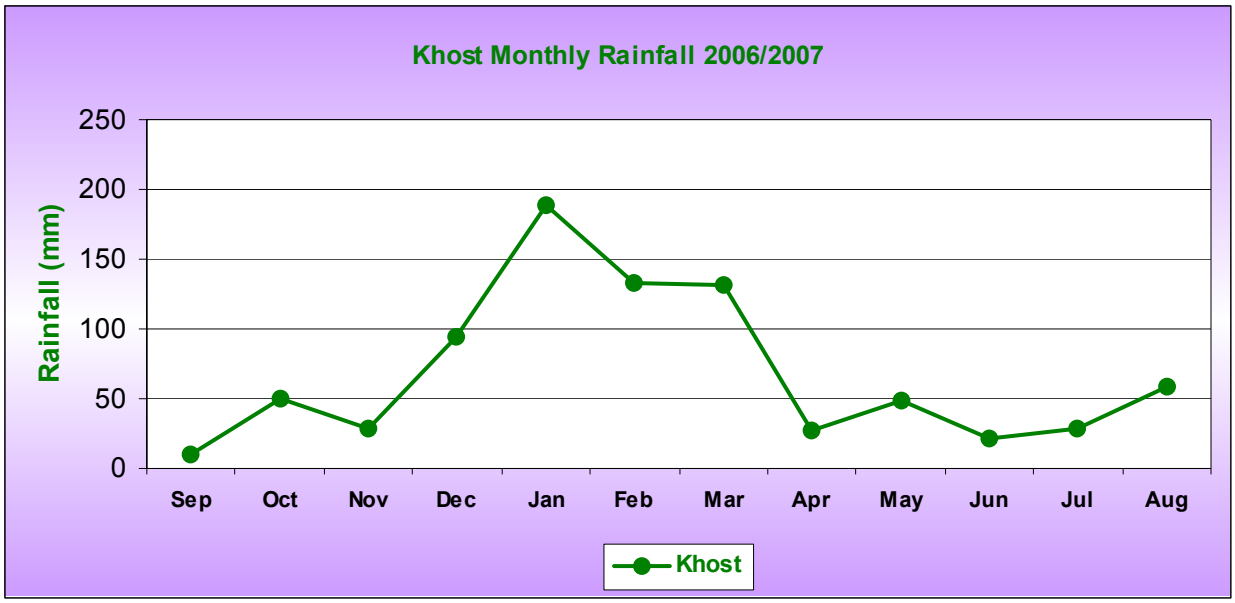

Hilmand Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Nad Ali
Nawa Gorgin

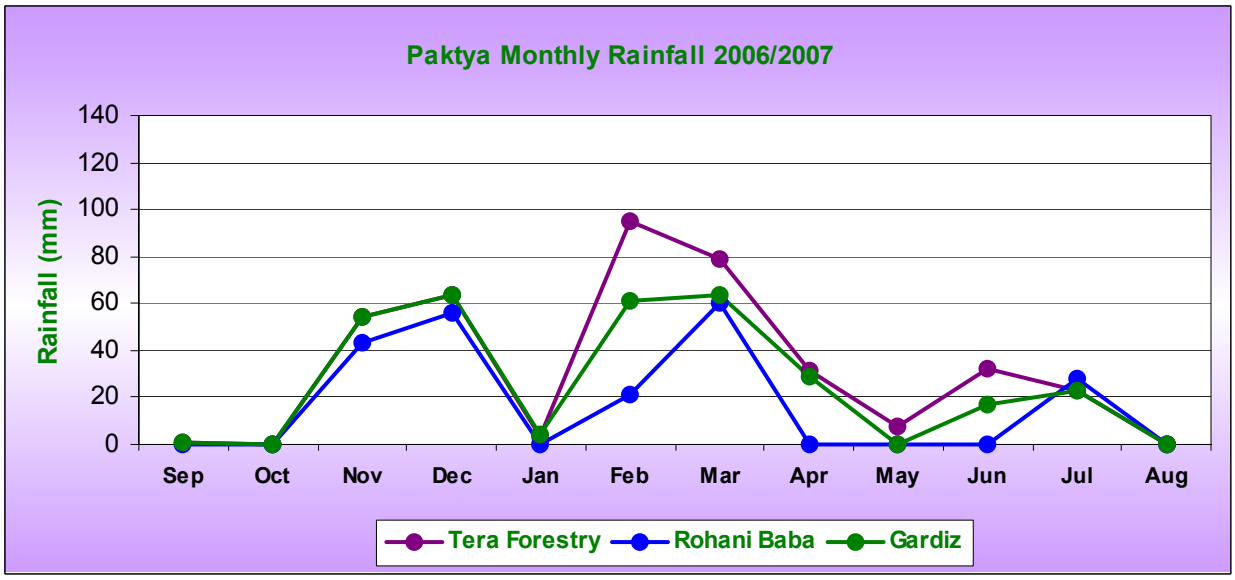

Zabul Monthly Rainfall 2006/2007
Rainfall (mm)
600
500
400
300
200
100
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Zabul

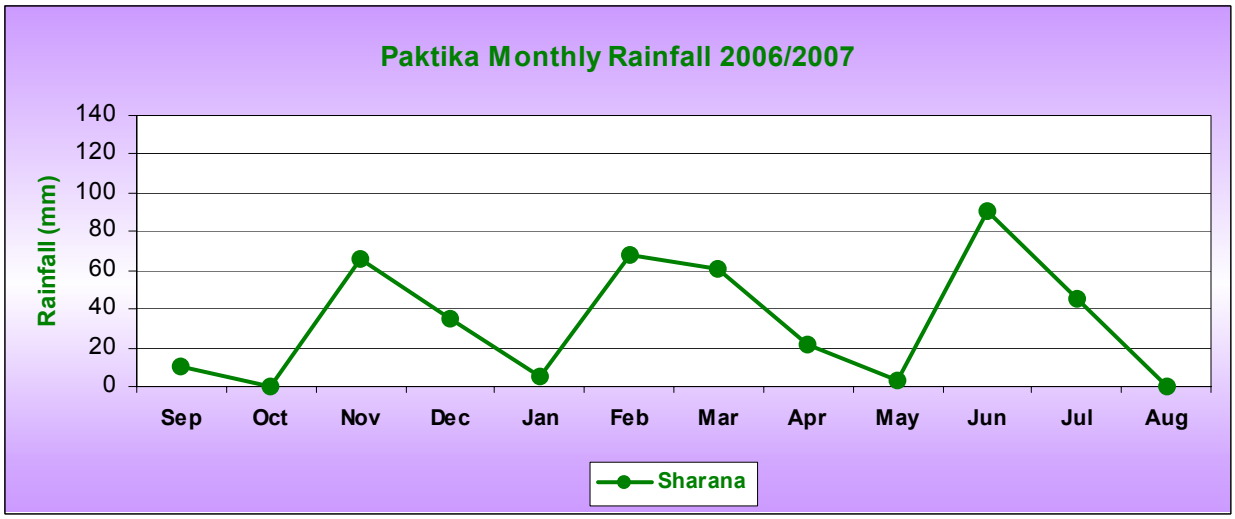

Nimroz Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Zaranj

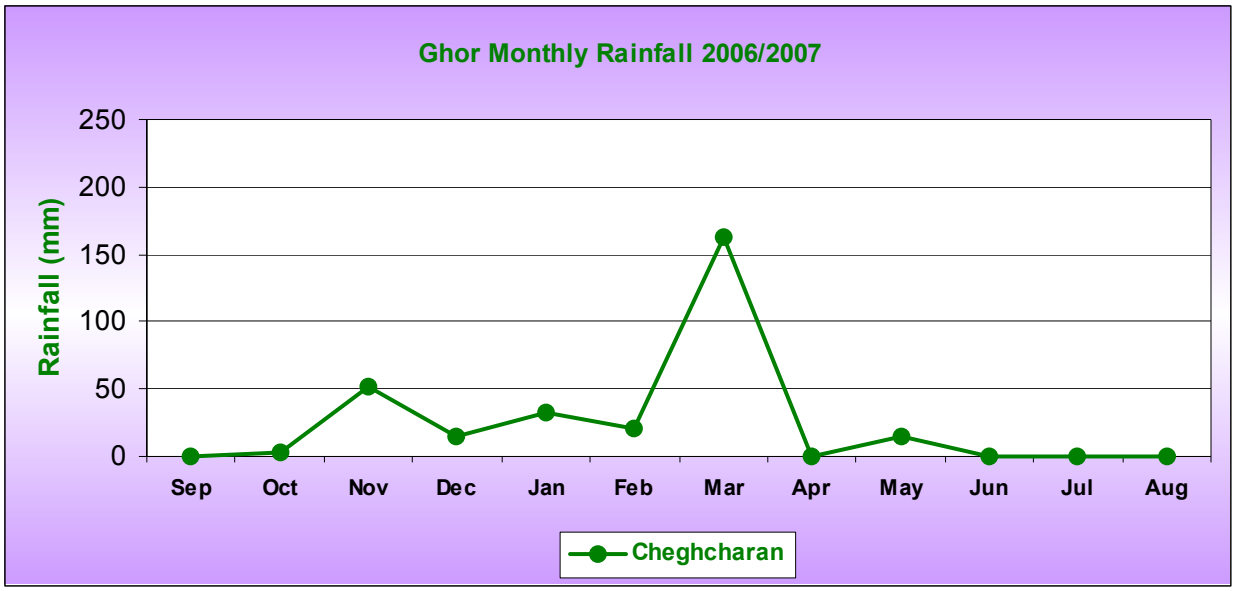
Southern Region

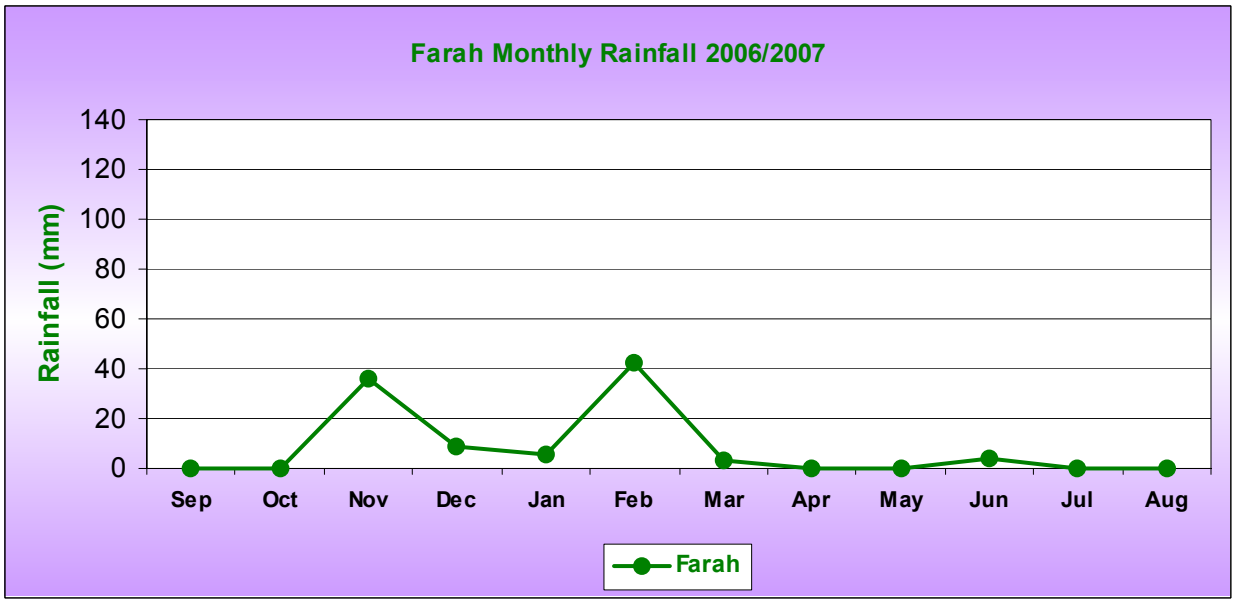


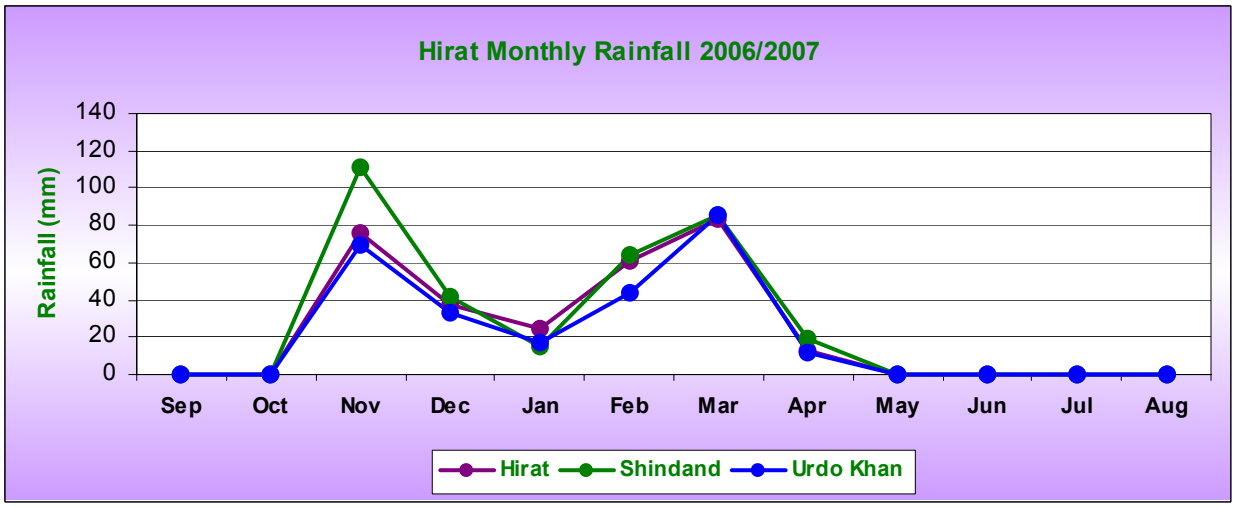

Khost Monthly Rainfall 2006/2007
Rainfall (mm)
250
200
150
100
50
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Khost

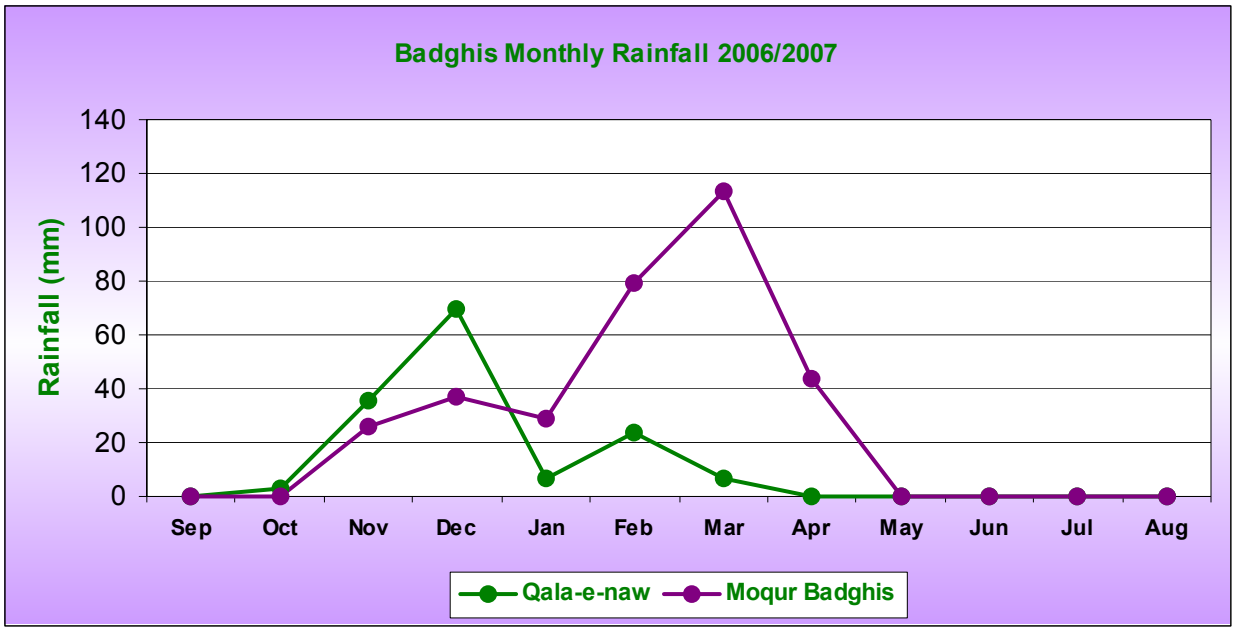

Paktya Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Tera Forestry
Rohani Baba
Gardiz


Paktika Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sharana


Ghor Monthly Rainfall 2006/2007
Rainfall (mm)
250
200
150
100
50
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Cheghcharan


Farah Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Farah

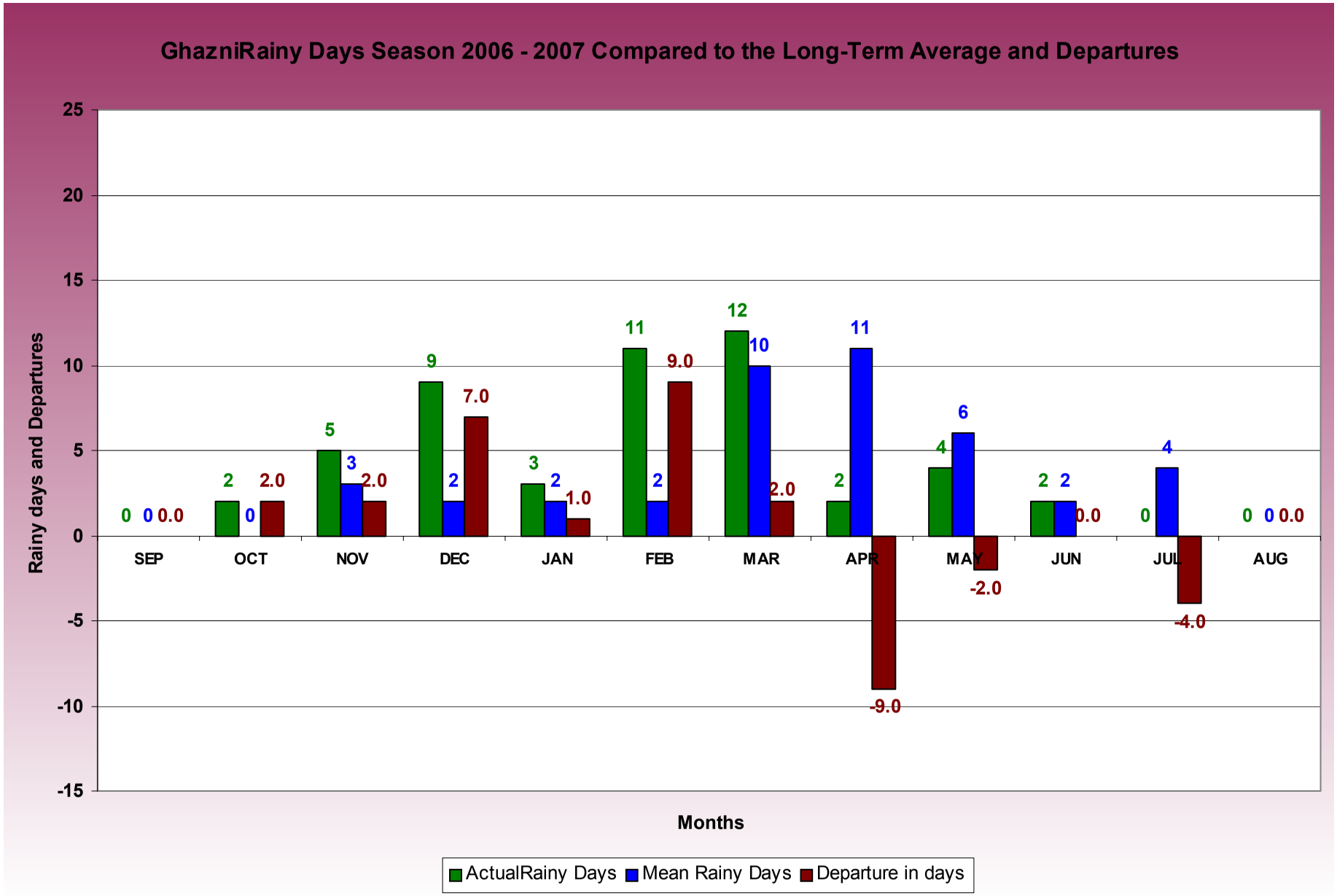

Hirat Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Hirat
Shindand
Urdo Khan

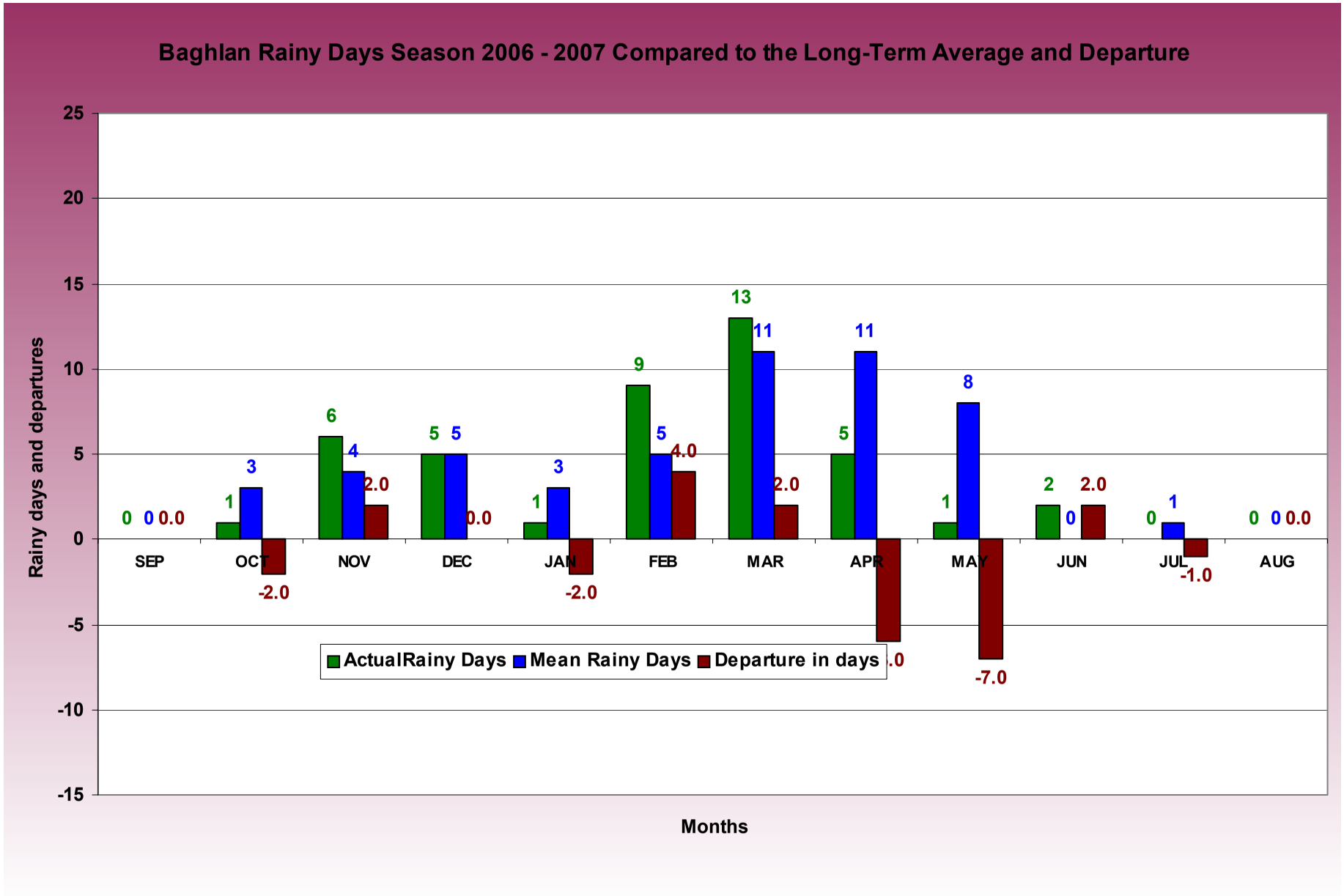

Badghis Monthly Rainfall 2006/2007
Rainfall (mm)
140
120
100
80
60
40
20
0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Qala-e-naw
Moqur Badghis

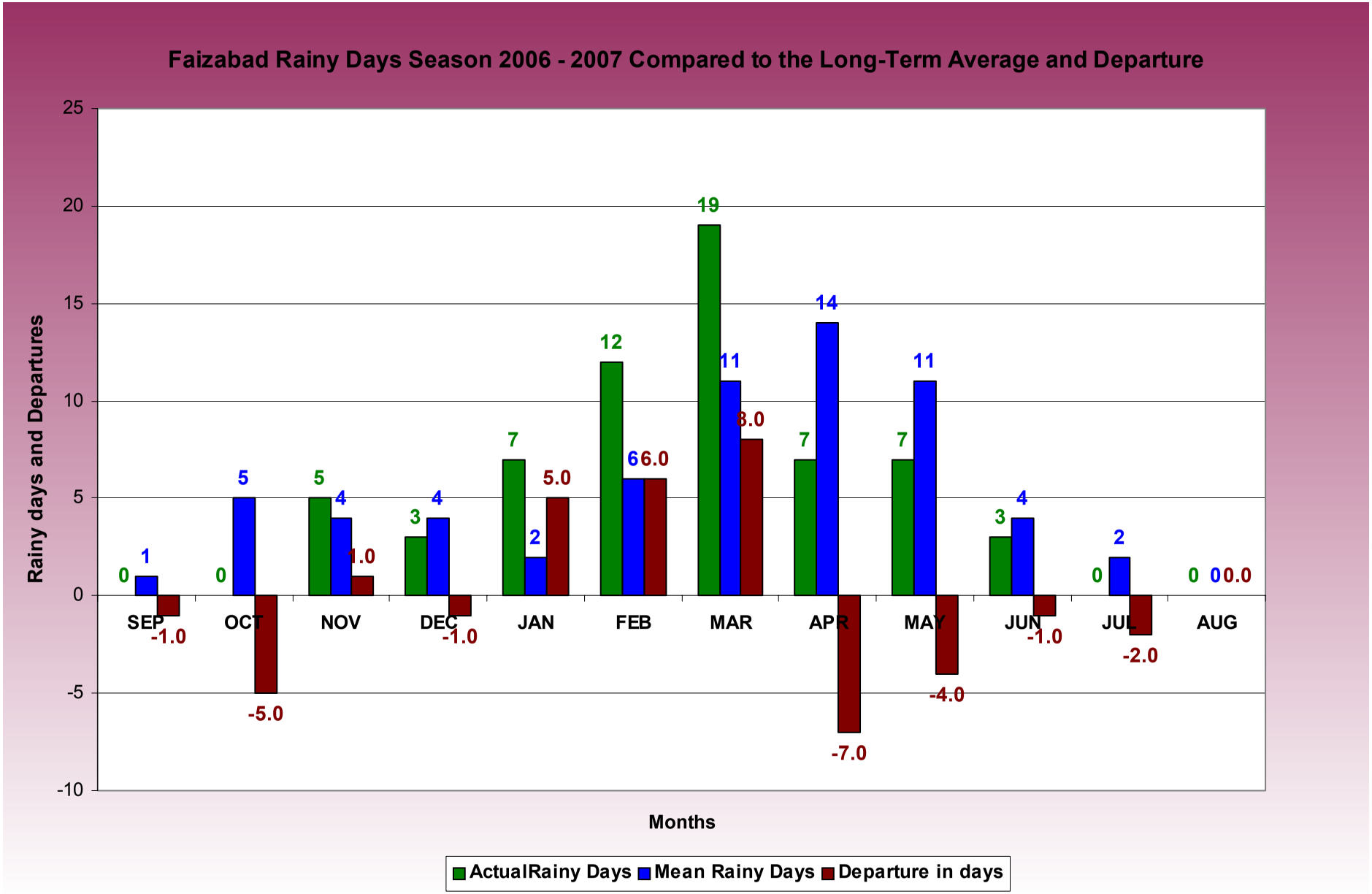
مقایسه روز های بارندگی فصل
(۲۰۰۶ - ۲۰۰۷)

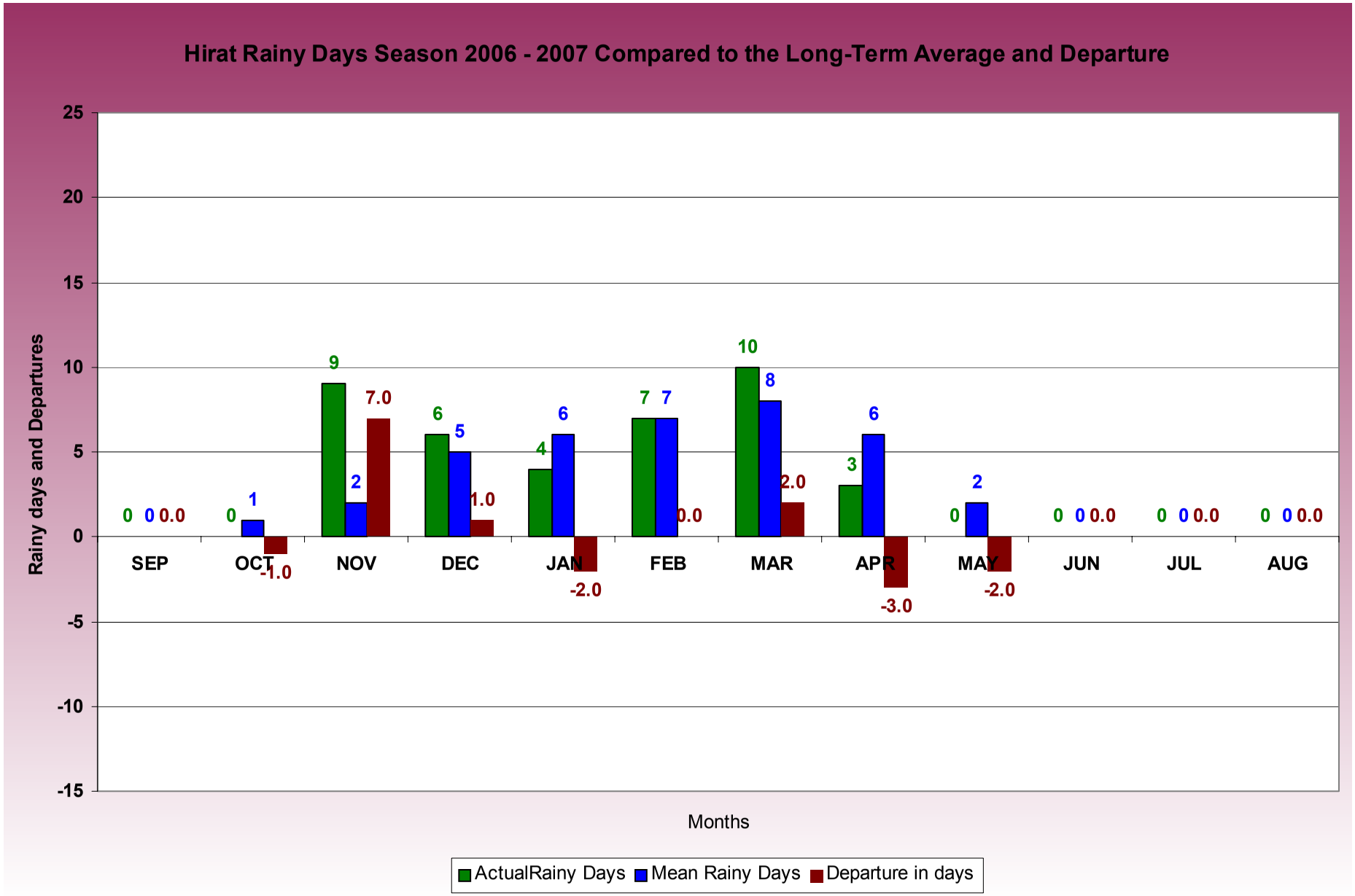
با

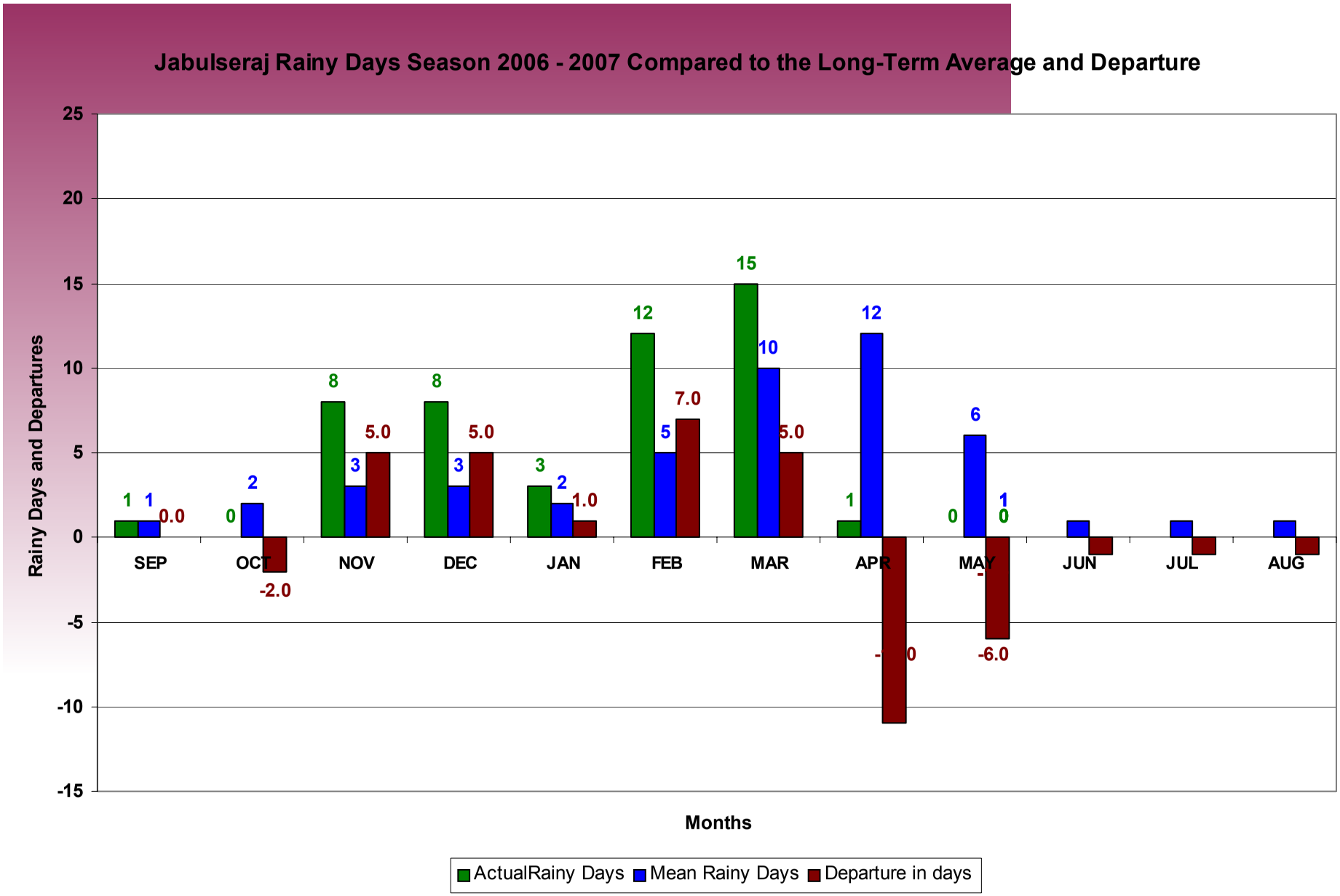
اوسط دراز مدت و انحراف آن

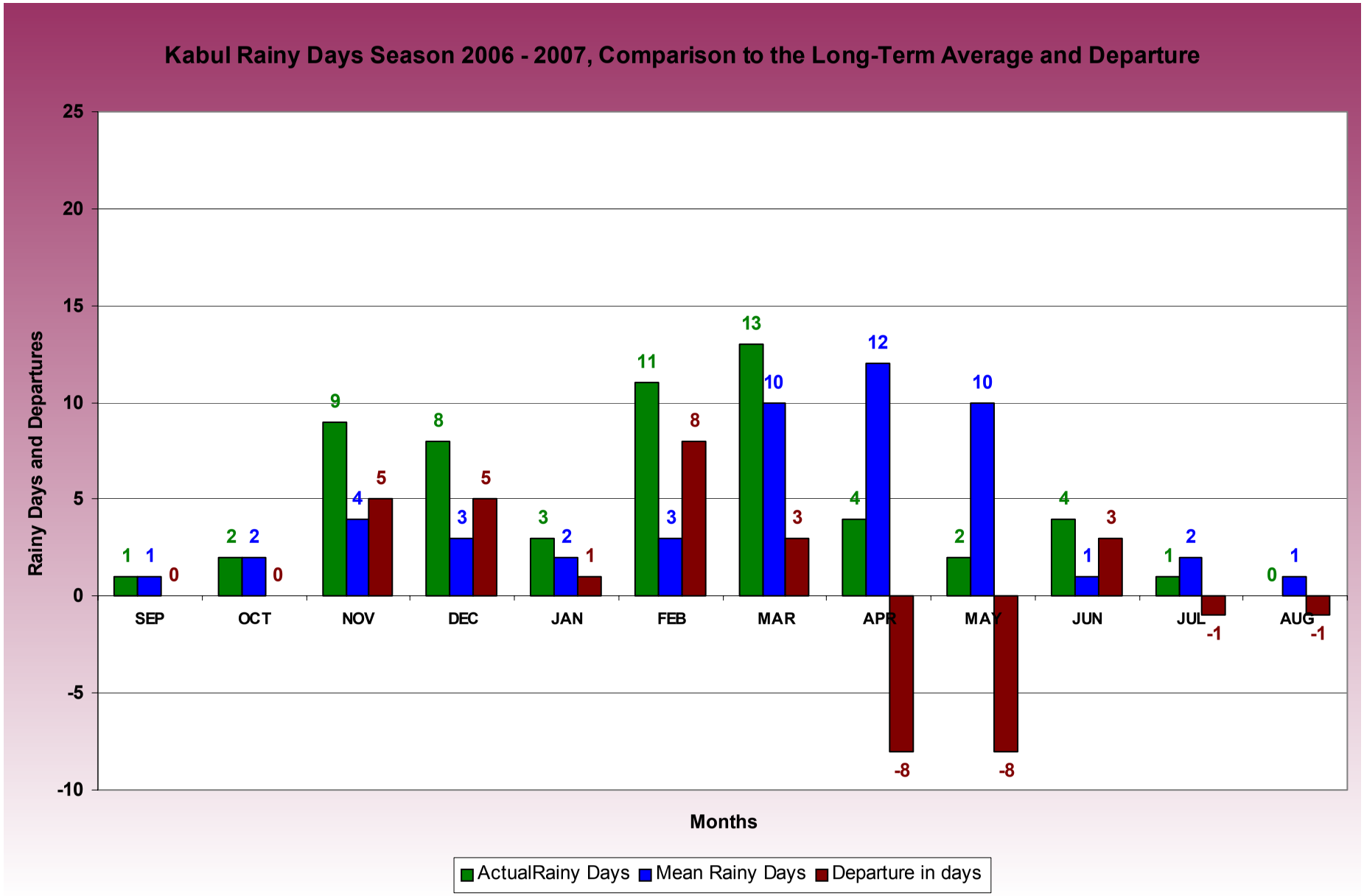

GhazniRainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departures
Rainy days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0 0 0.0
2 0 2.0
5 3 2.0
9 2 7.0
3 2 1.0
11 2 9.0
12 10 2.0
2 11 -9.0
4 6 -2.0
2 2 0.0
0 4 -4.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

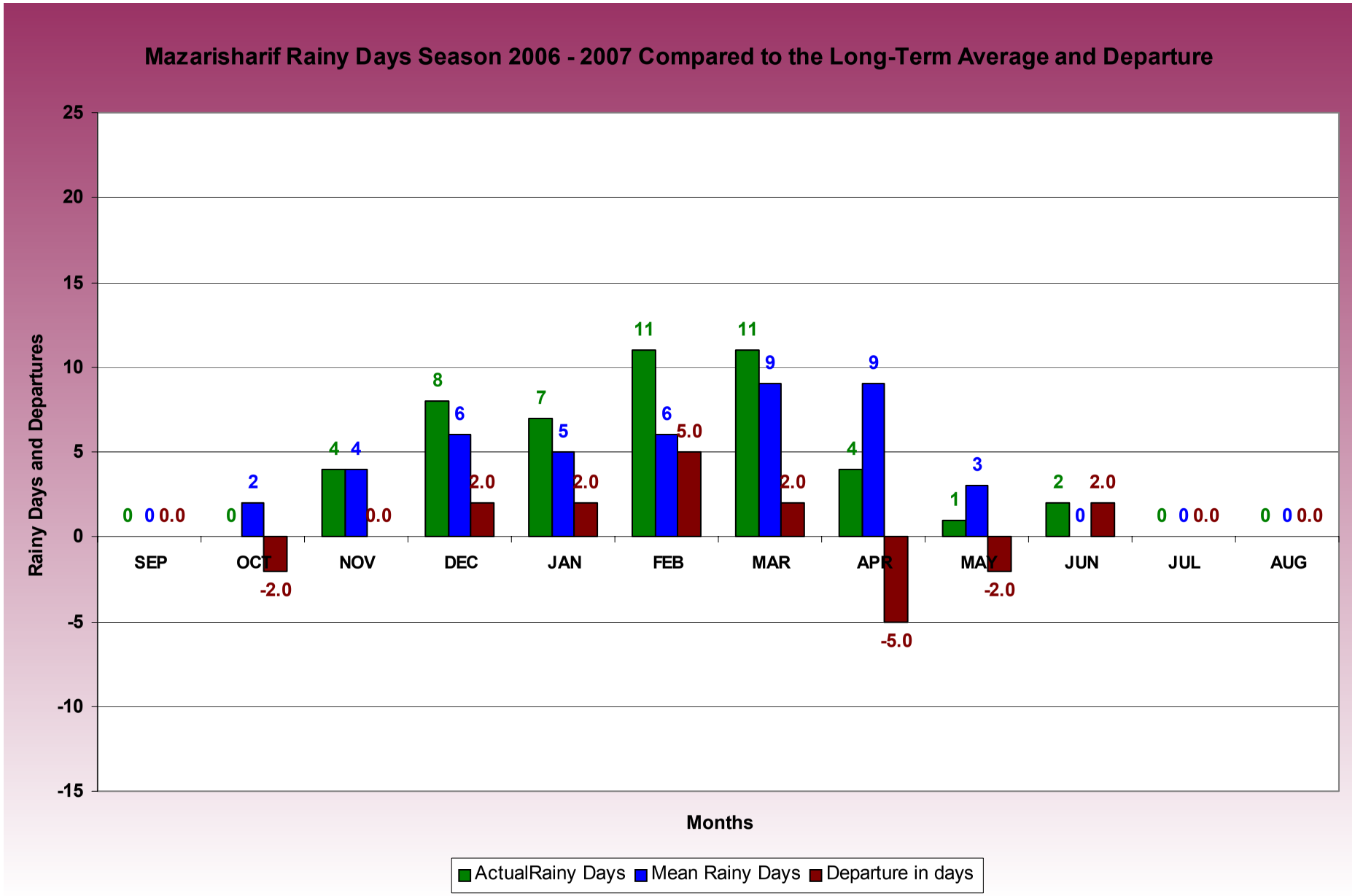

Baghlan Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy days and departures
Months
ActualRainy Days
Mean Rainy Days
Departure in days
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
25
20
15
10
5
0
-5
-10
-15
0 0 0.0
1 3 -2.0
6 4 2.0
5 5 0.0
1 3 -2.0
9 5 4.0
13 11 2.0
5 11 -7.0
1 8 -7.0
2 0 2.0
0 1 -1.0
0 0 0.0

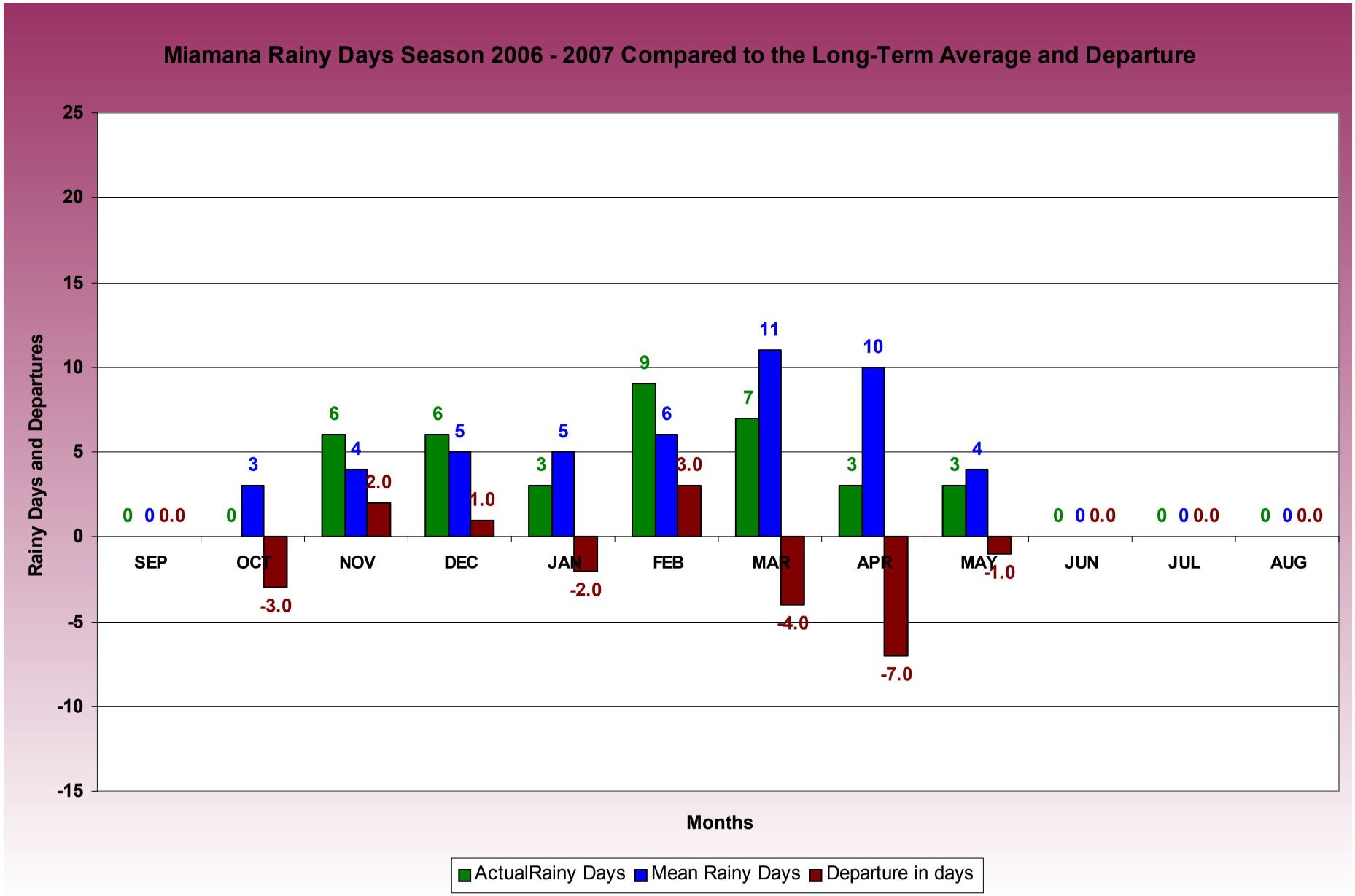

Faizabad Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy days and Departures
25
20
15
10
5
0
-5
-10
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0
1
-1.0
0
5
-5.0
5
4
1.0
3
4
-1.0
7
2
5.0
12
6
6.0
19
11
8.0
7
14
-7.0
7
11
-4.0
3
4
-1.0
0
2
-2.0
0
0
0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

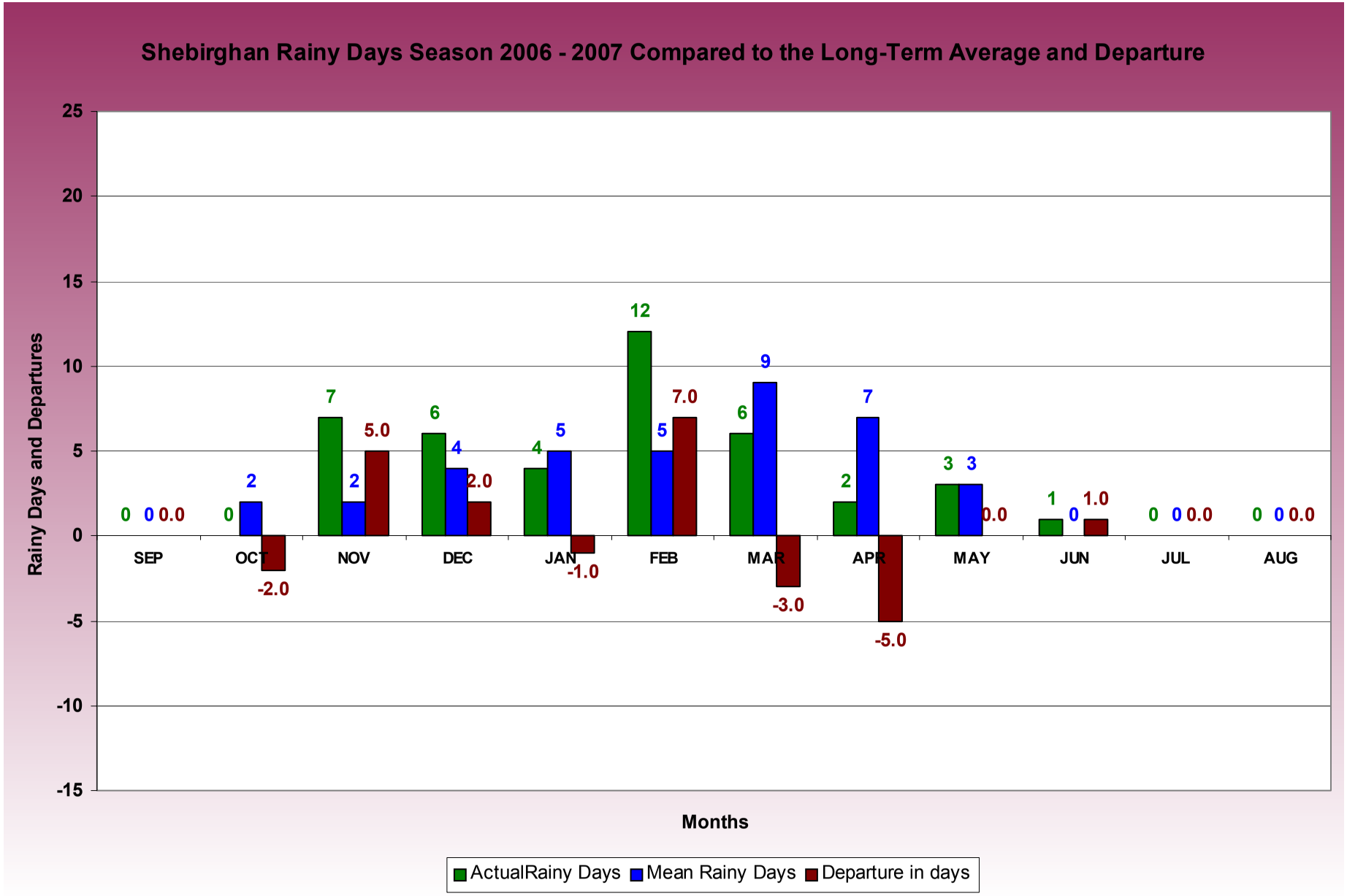

Hirat Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0 0 0.0
0 1 -1.0
9 2 7.0
6 5 1.0
4 6 -2.0
7 7 0.0
10 8 2.0
3 6 -3.0
0 2 -2.0
0 0 0.0
0 0 0.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

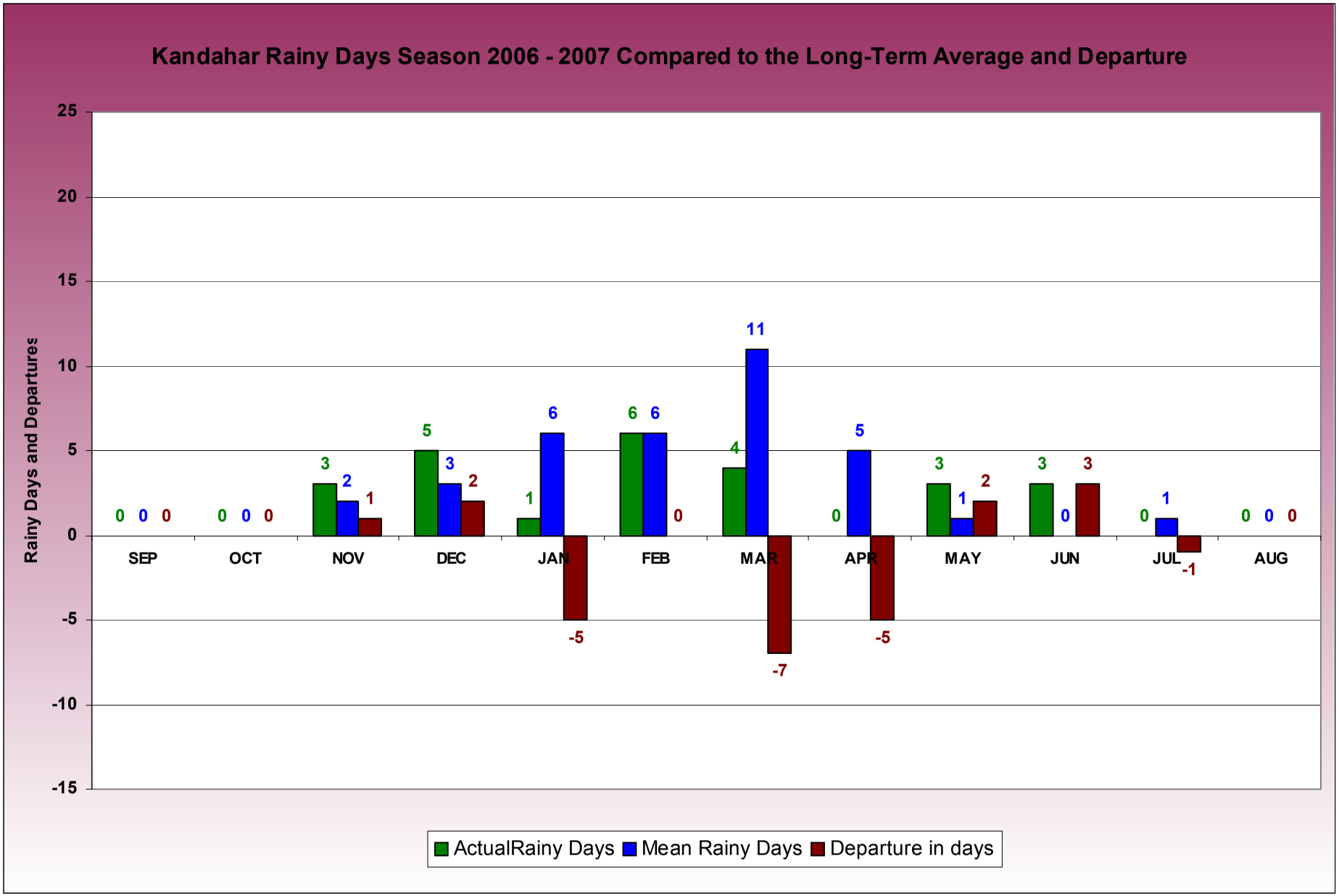

Jabulseraj Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Months
ActualRainy Days
Mean Rainy Days
Departure in days

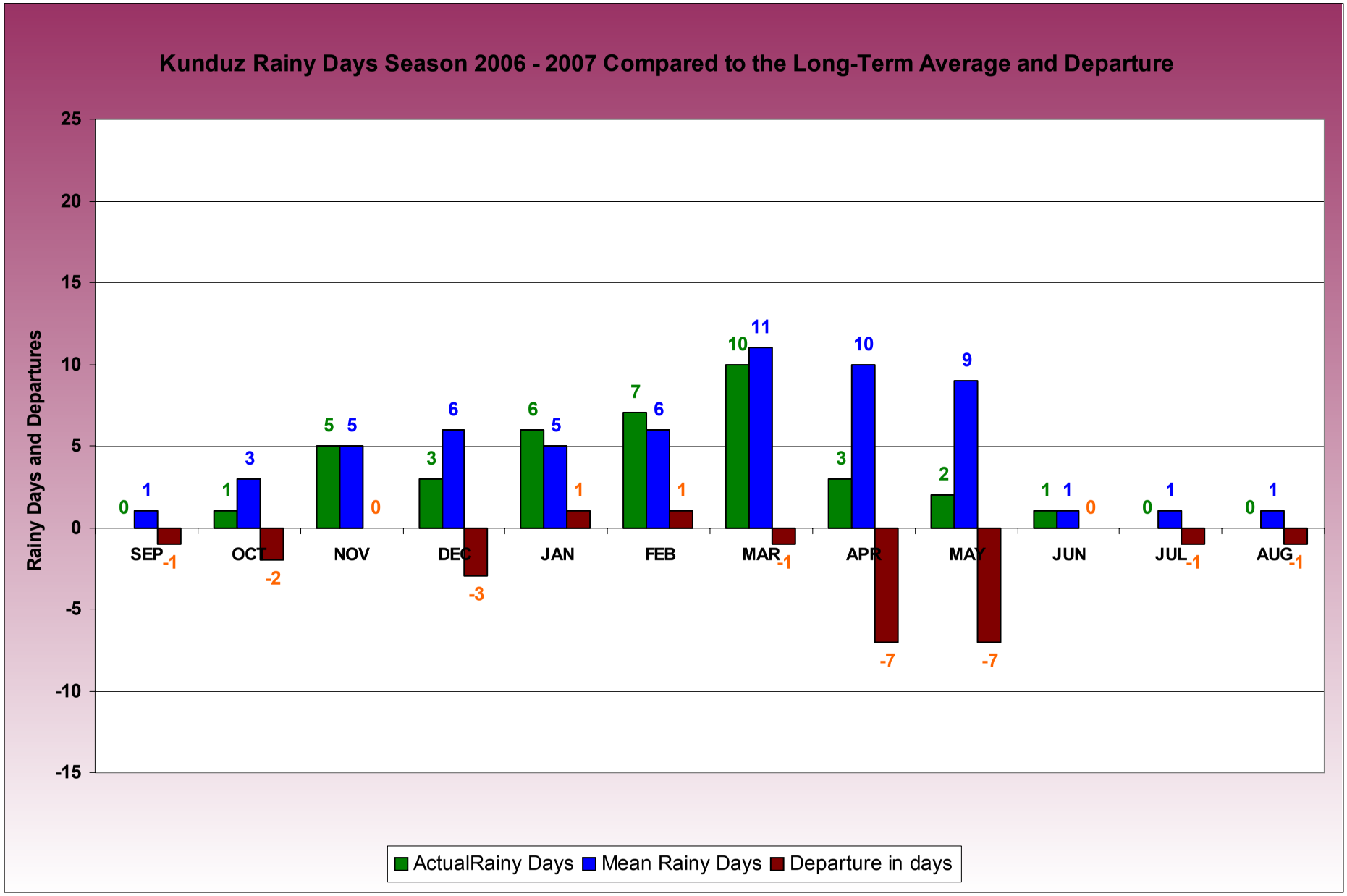

Kabul Rainy Days Season 2006 - 2007, Comparison to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
1 1 0
2 2 0
9 4 5
8 3 5
3 2 1
11 3 8
13 10 3
4 12 -8
2 10 -8
4 1 3
1 2 -1
0 1 -1
Months
ActualRainy Days
Mean Rainy Days
Departure in days


Mazarisharif Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0 0 0.0
0 2 -2.0
4 4 0.0
8 6 2.0
7 5 2.0
11 6 5.0
11 9 2.0
4 9 -5.0
1 3 -2.0
2 0 2.0
0 0 0.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days


Miamana Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0 0 0.0
0 3 -3.0
6 4 2.0
6 5 1.0
3 5 -2.0
9 6 3.0
7 11 -4.0
3 10 -7.0
3 4 -1.0
0 0 0.0
0 0 0.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

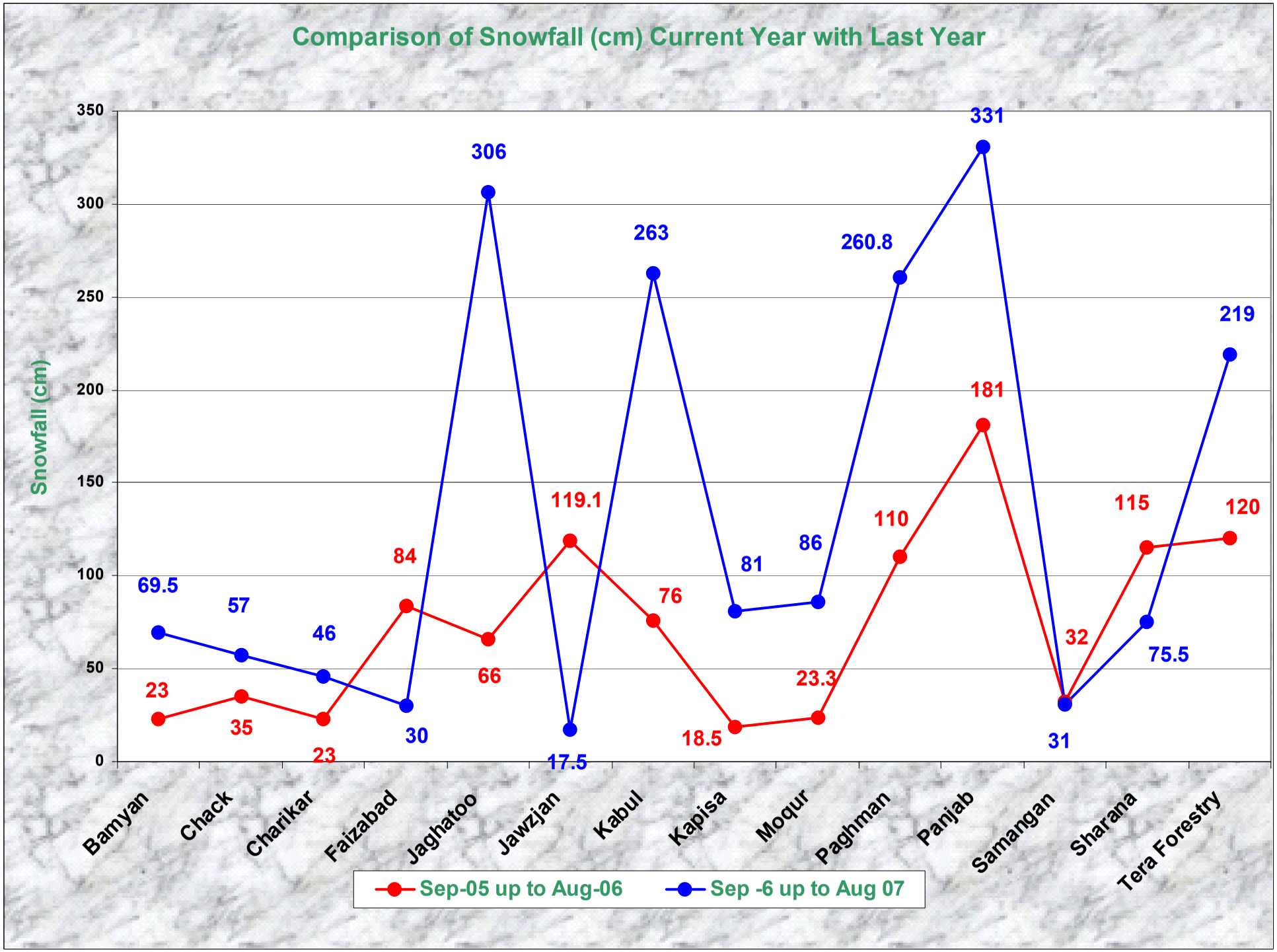

Shebirghan Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0 0 0.0
0 2 -2.0
7 2 5.0
6 4 2.0
4 5 -1.0
12 5 7.0
6 9 -3.0
2 7 -5.0
3 3 0.0
1 0 1.0
0 0 0.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days


Kandahar Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0 0 0
0 0 0
3 2 1
5 3 2
1 6 -5
6 6 0
4 11 -7
0 5 -5
3 1 2
3 0 3
0 1 -1
0 0 0
ActualRainy Days
Mean Rainy Days
Departure in days


Kunduz Rainy Days Season 2006 - 2007 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
0
1
-1
1
3
-2
5
5
0
3
6
-3
6
5
1
7
6
1
10
11
-1
3
10
-7
2
9
-7
1
1
0
0
1
-1
0
1
-1
ActualRainy Days
Mean Rainy Days
Departure in days

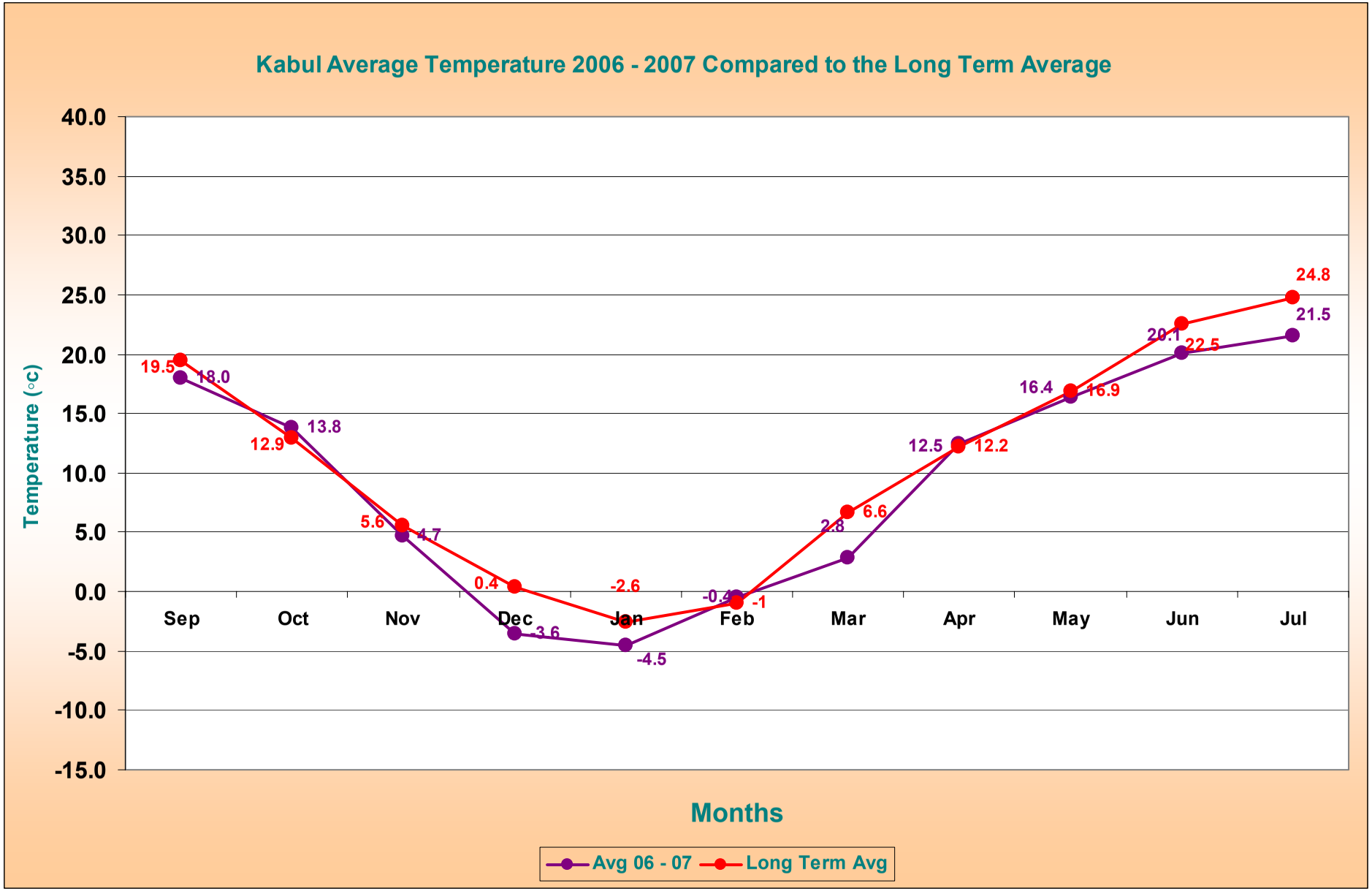
مقایسه برفباری فصل روان زراعتی
(۲۰۰۶ - ۲۰۰۷)

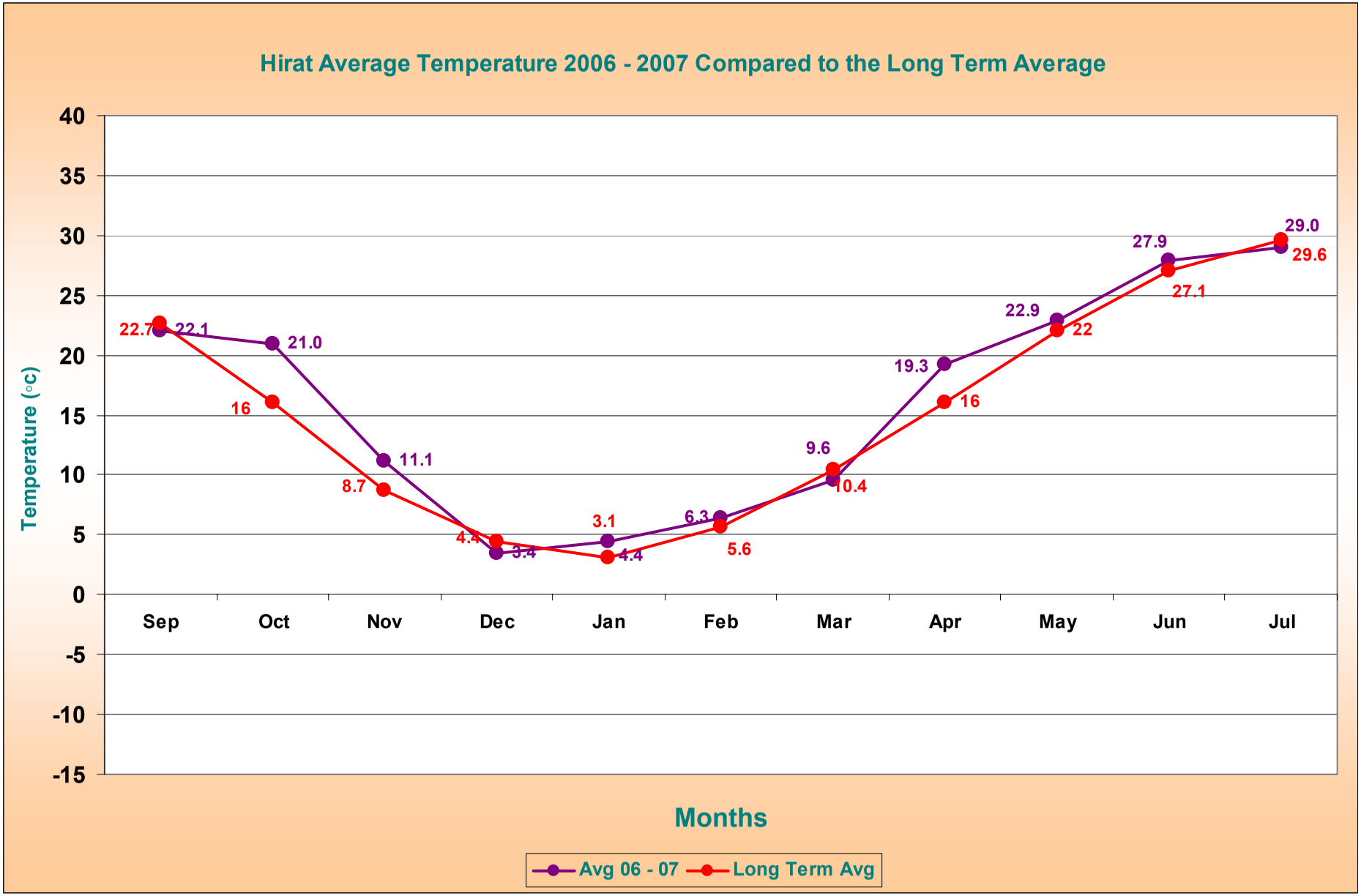
با سال قبل (به سانتی متر)

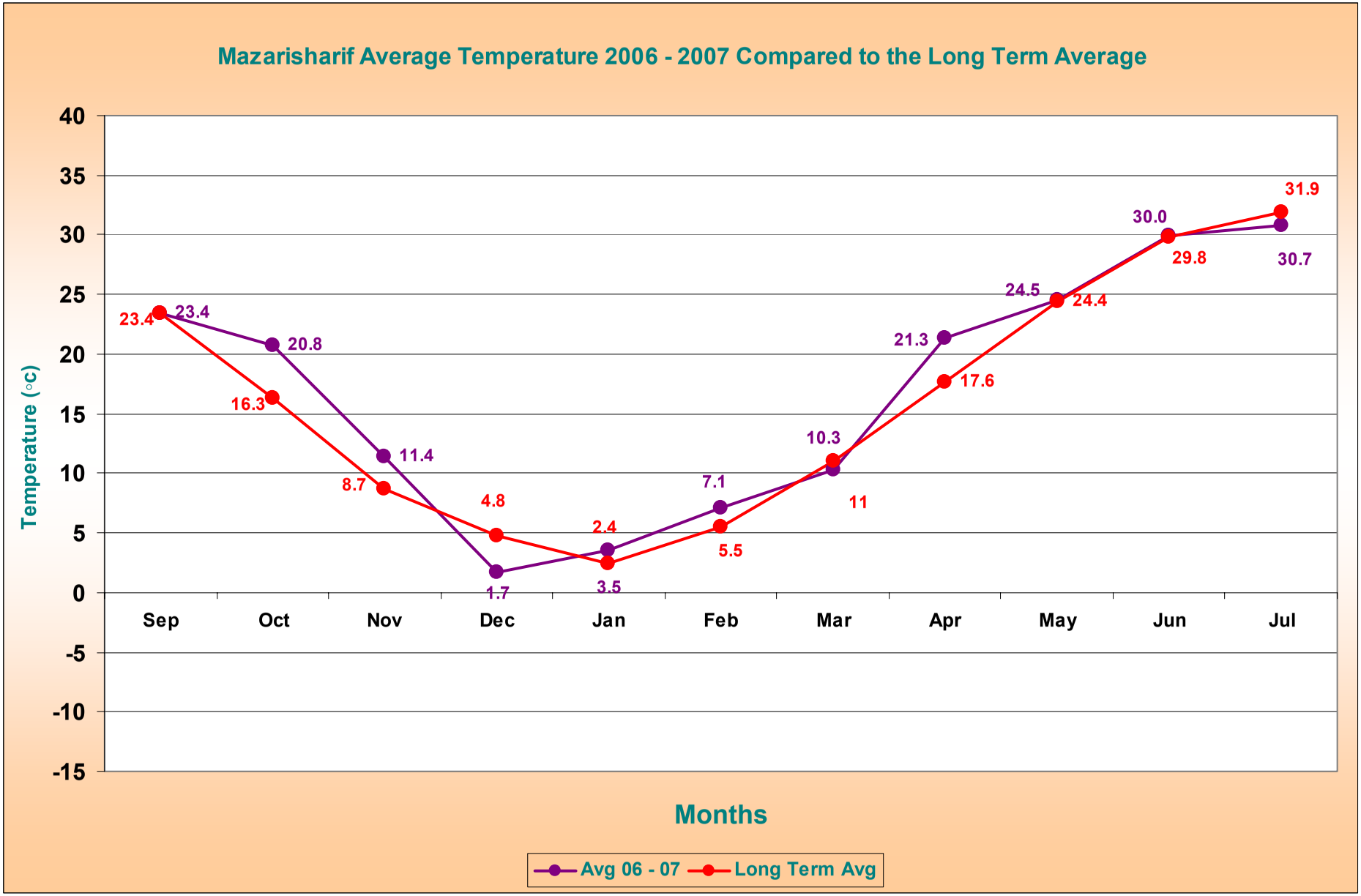

Comparison of Snowfall (cm) Current Year with Last Year
Snowfall (cm)
350
300
250
200
150
100
50
0
Bamyan
Chack
Charikar
Faizabad
Jaghatoo
Jawzjan
Kabul
Kapisa
Moqur
Paghman
Panjab
Samangan
Sharana
Tera Forestry
69.5
57
46
30
306
17.5
263
81
86
260.8
331
31
75.5
219
23
35
23
84
66
119.1
76
18.5
23.3
110
181
32
115
120
Sep-05 up to Aug-06
Sep -6 up to Aug 07

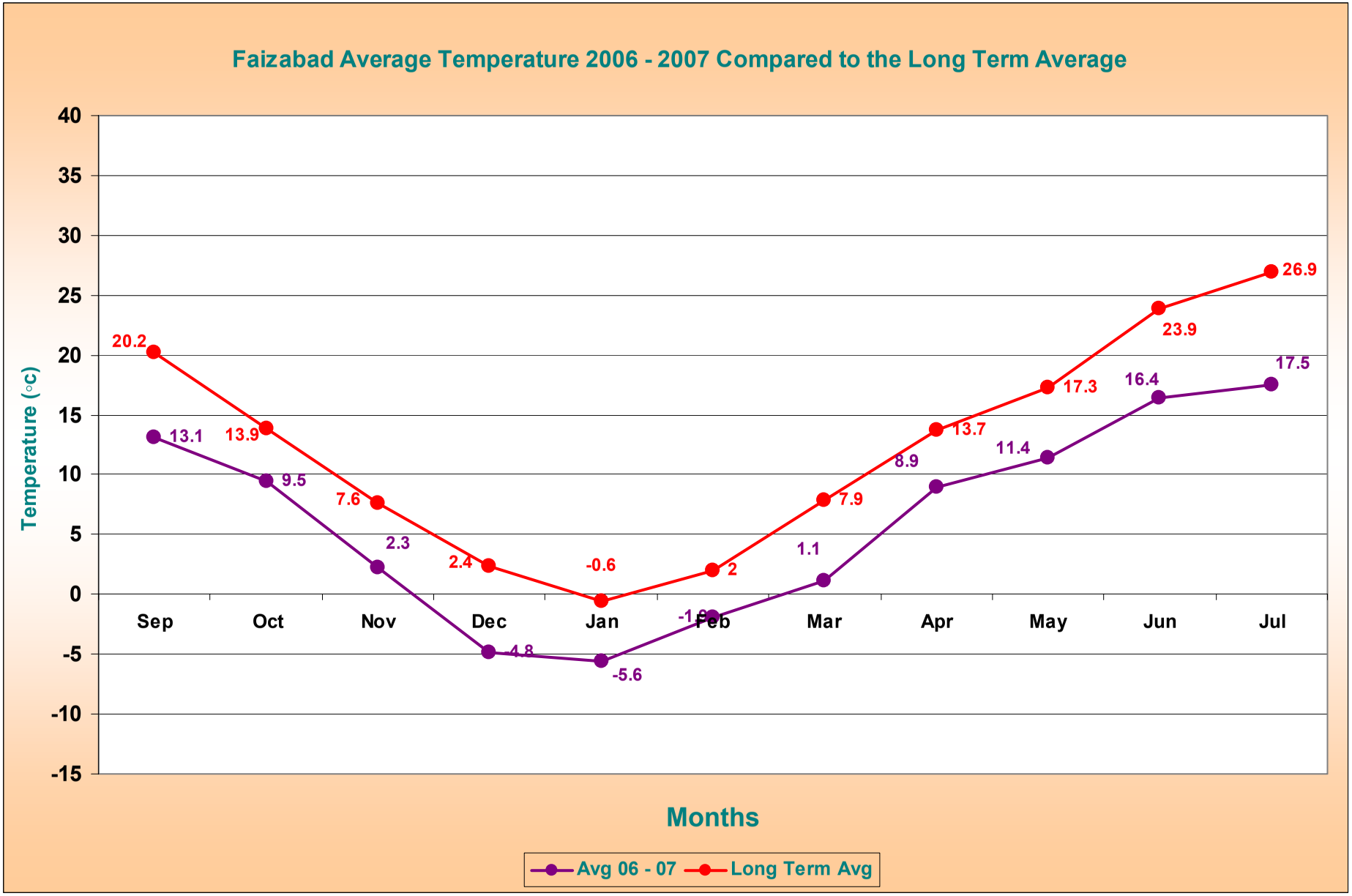
مقایسه اوسط درجه حرارت فصل
(۲۰۰۶ - ۲۰۰۷)

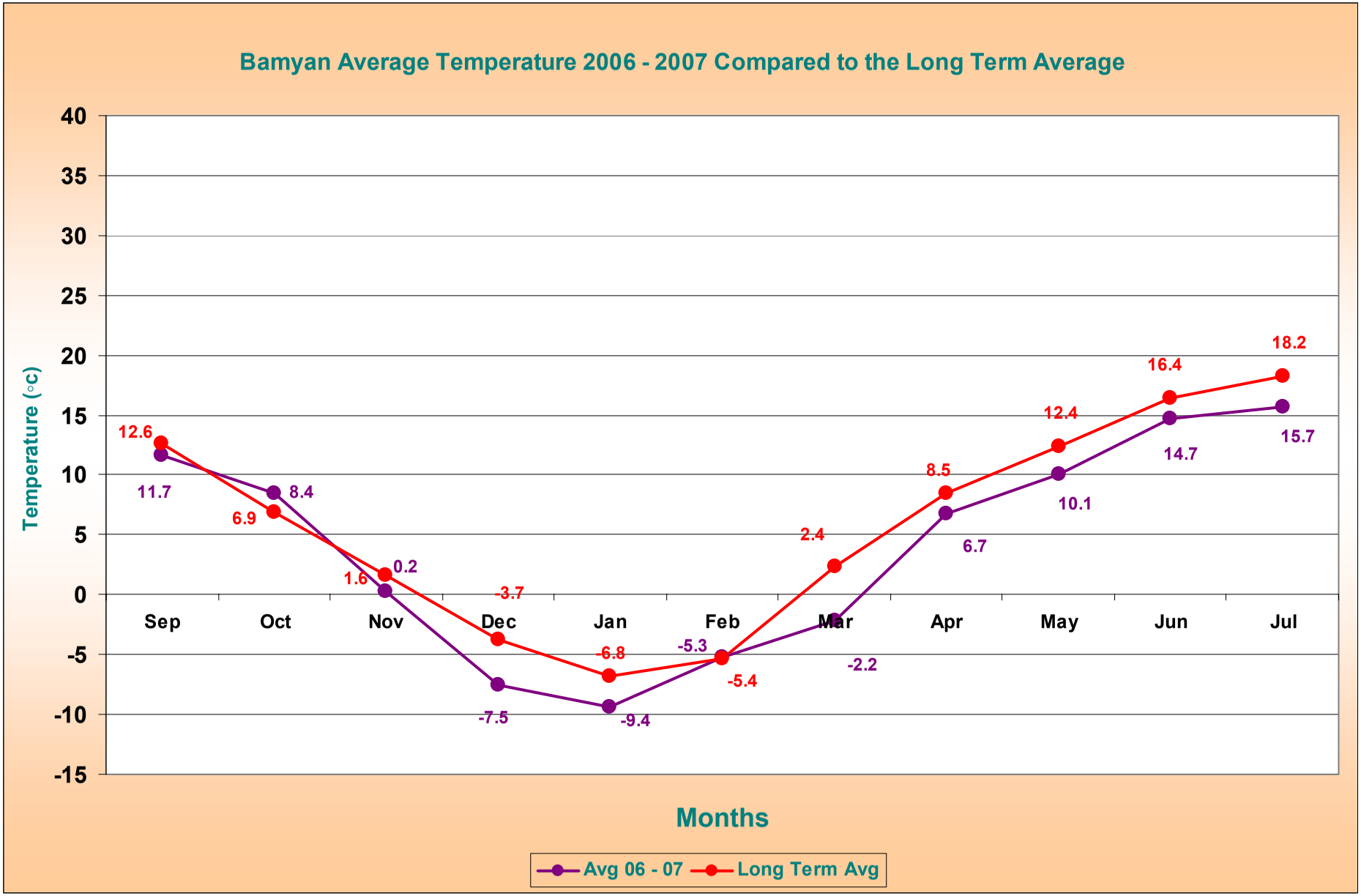
با اوسط درازمدت درجه حرارت

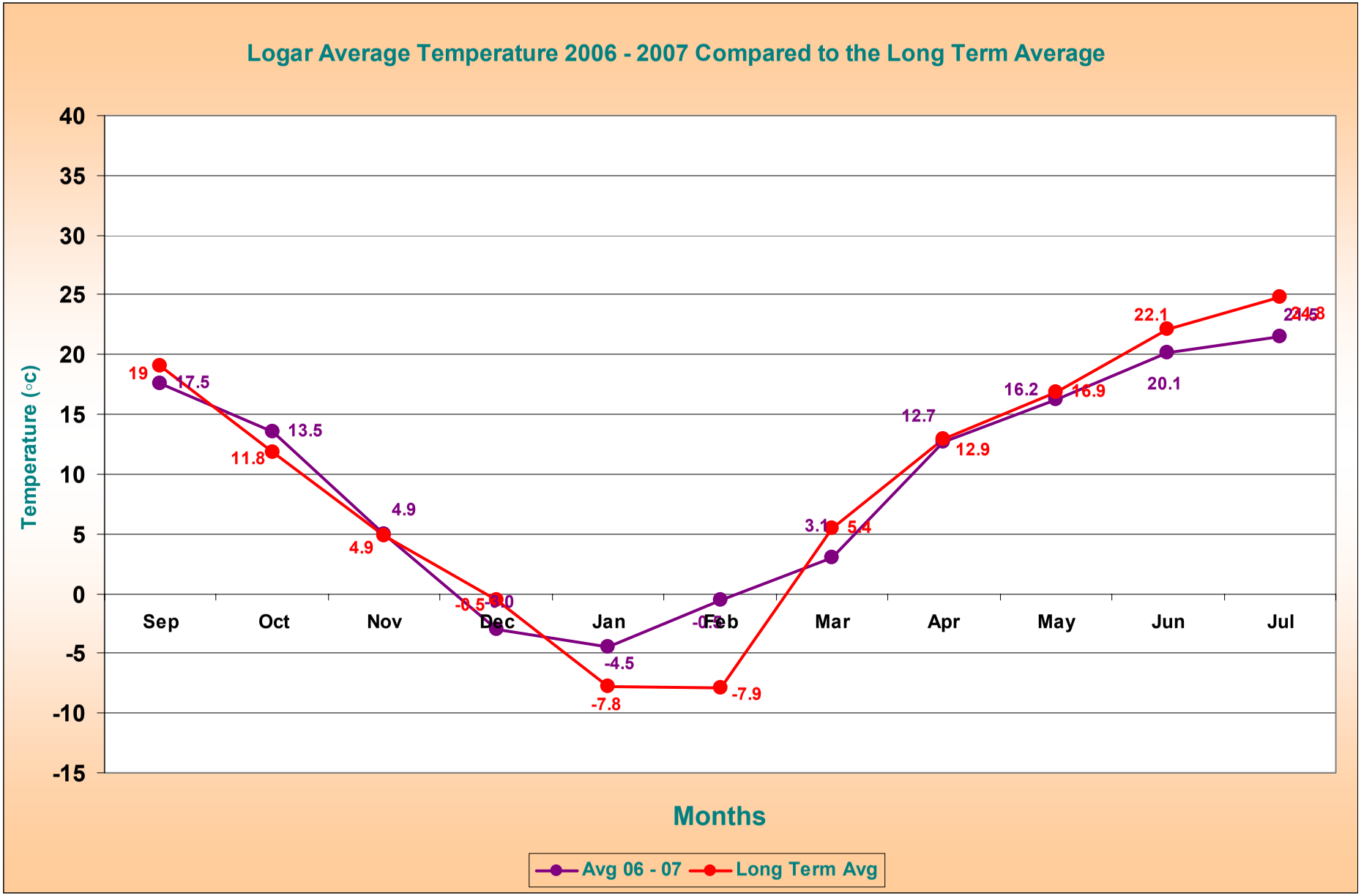

Kabul Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
-5.0
-10.0
-15.0
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
19.5
18.0
12.9
13.8
5.6
4.7
0.4
-3.6
-2.6
-4.5
-1
-0.4
2.8
6.6
12.5
12.2
16.4
16.9
20.1
22.5
24.8
21.5
Months
Avg 06 - 07
Long Term Avg

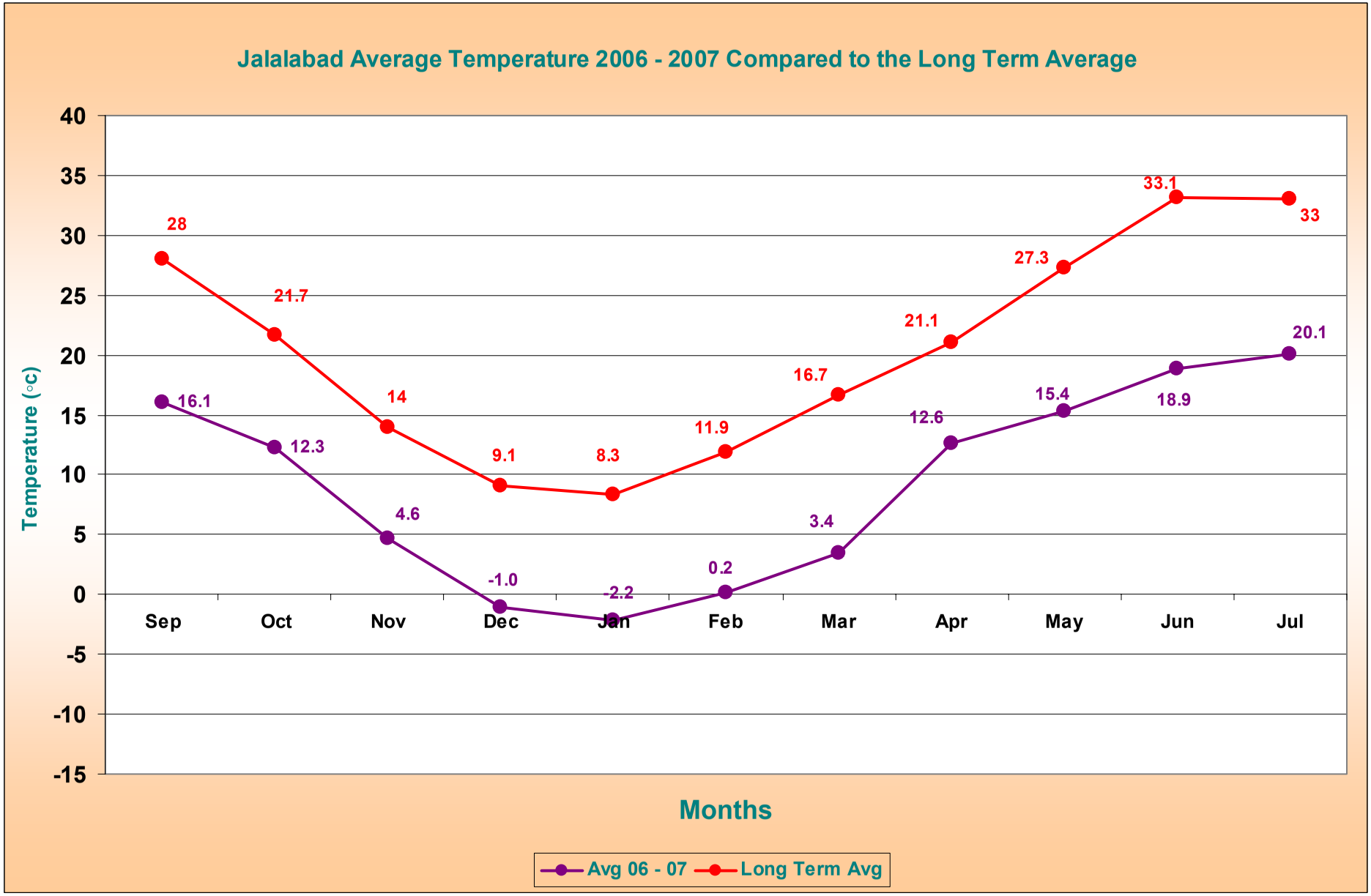

Hirat Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
22.7
22.1
21.0
16
11.1
8.7
4.4
3.4
3.1
4.4
6.3
5.6
9.6
10.4
19.3
16
22.9
22
27.9
27.1
29.0
29.6
Months
Avg 06 - 07
Long Term Avg

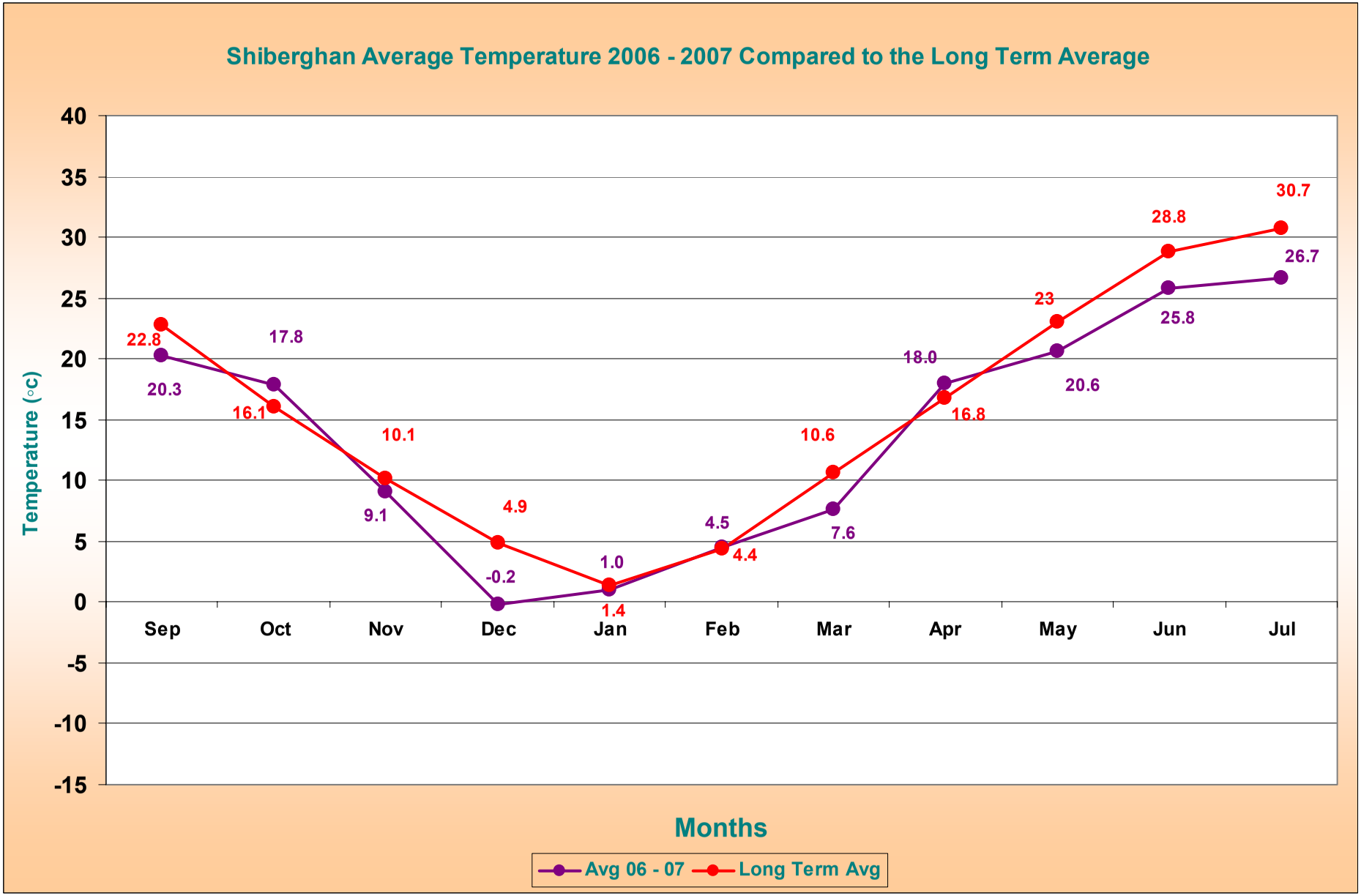

Mazarisharif Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
23.4
23.4
20.8
16.3
11.4
8.7
4.8
1.7
2.4
3.5
7.1
5.5
10.3
11
21.3
17.6
24.5
24.4
30.0
29.8
31.9
30.7
Months
Avg 06 - 07
Long Term Avg

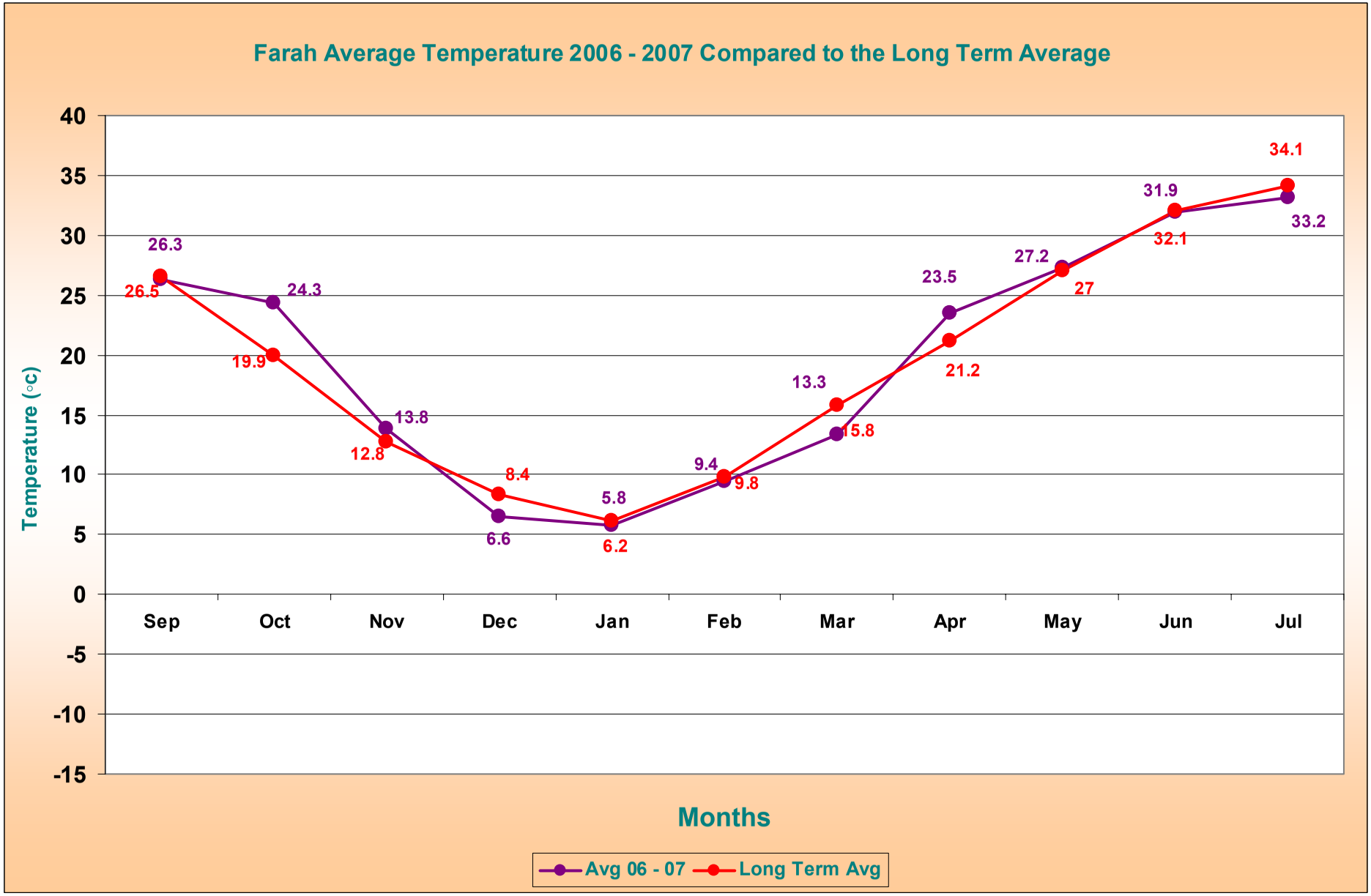

Faizabad Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
20.2
13.9
7.6
2.4
-0.6
2
7.9
13.7
17.3
23.9
26.9
13.1
9.5
2.3
-4.8
-5.6
-1.8
1.1
8.9
11.4
16.4
17.5
Months
Avg 06 - 07
Long Term Avg

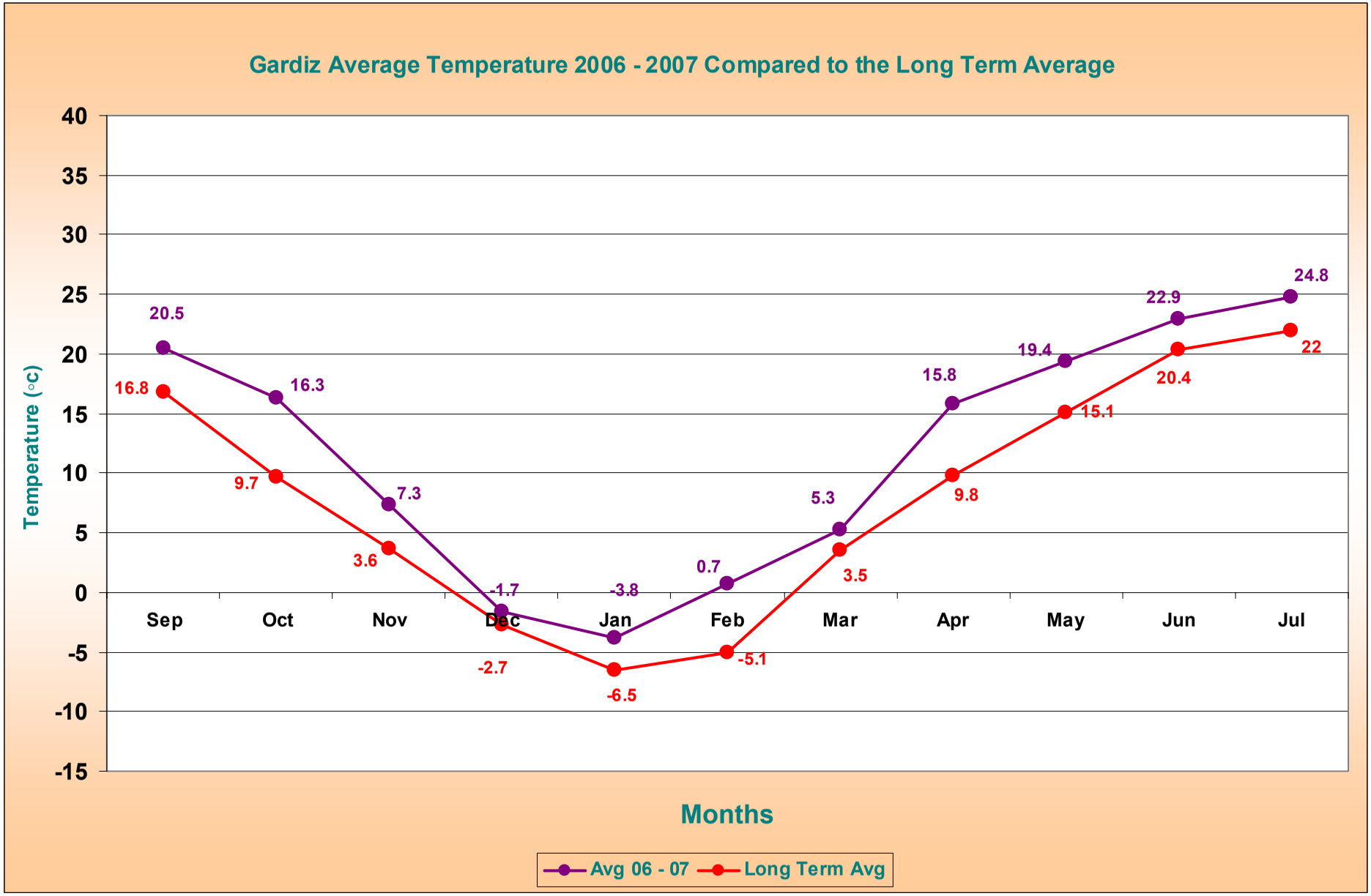

Bamyan Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
12.6
11.7
6.9
8.4
1.6
0.2
-3.7
-7.5
-6.8
-9.4
-5.3
-5.4
2.4
-2.2
8.5
6.7
12.4
10.1
16.4
14.7
18.2
15.7
Months
Avg 06 - 07
Long Term Avg

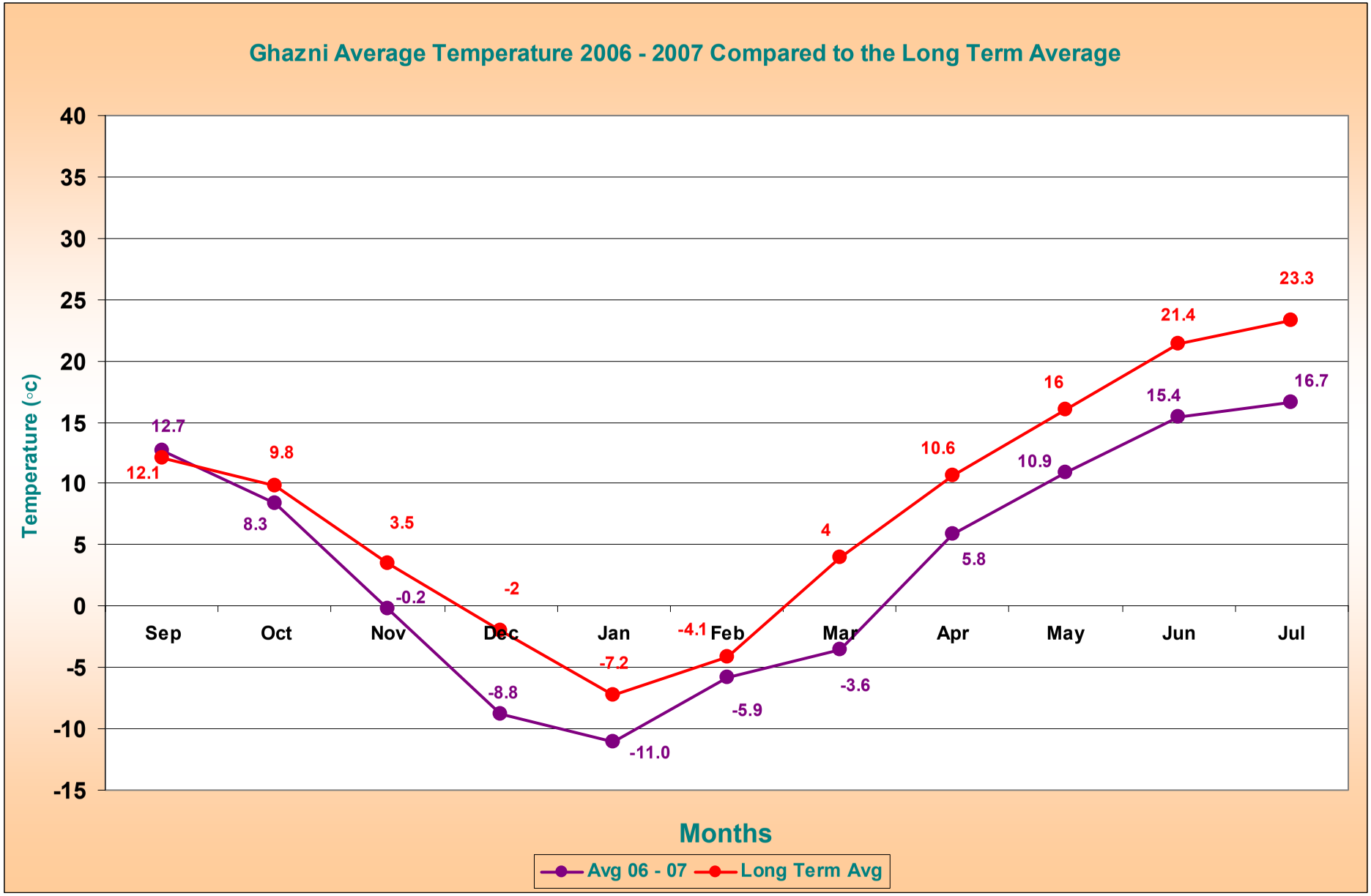

Logar Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
19
17.5
11.8
13.5
4.9
4.9
-4.5
-7.8
-7.9
3.1
5.4
12.7
12.9
16.2
16.9
20.1
22.1
Months
Avg 06 - 07
Long Term Avg

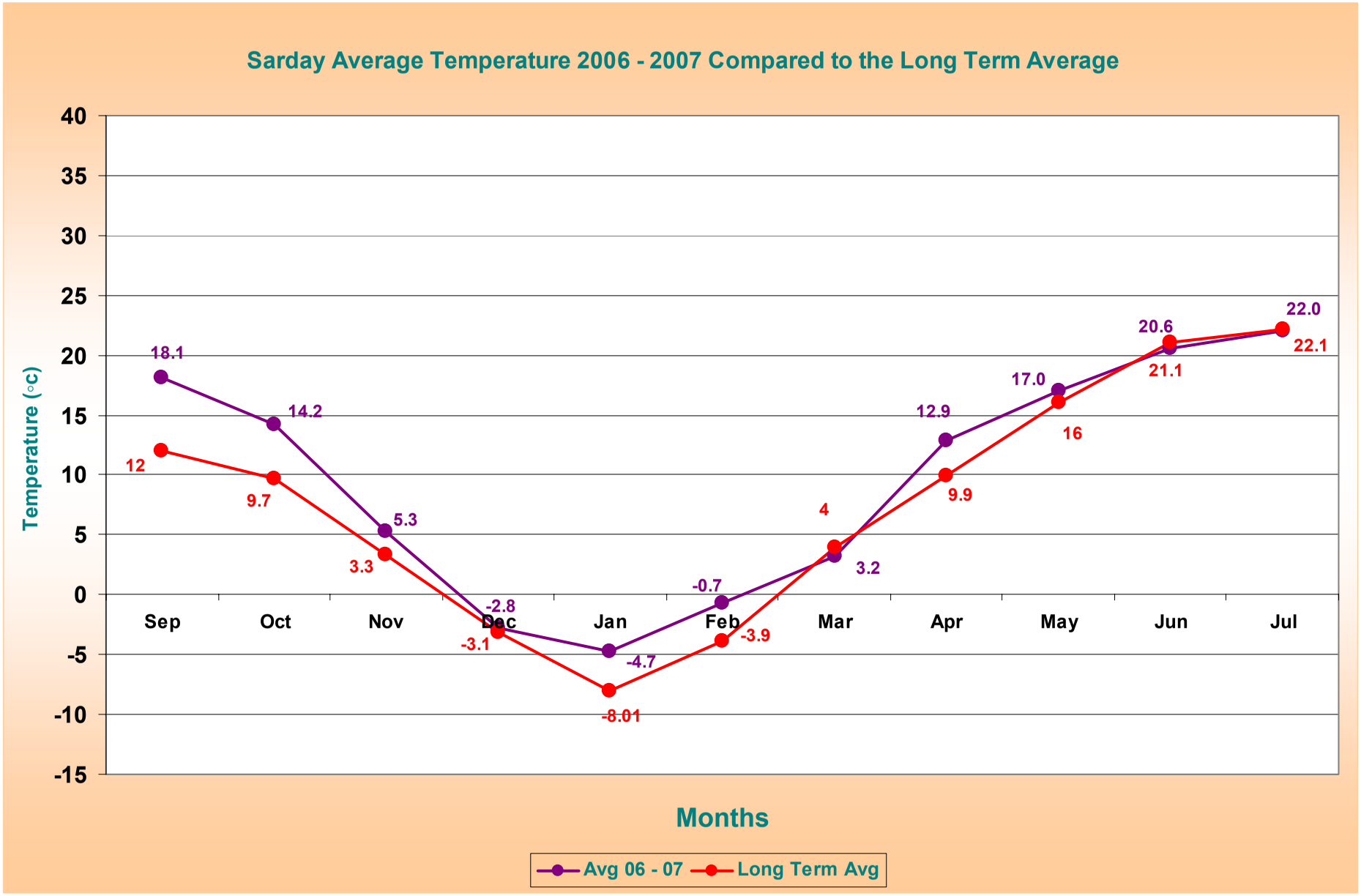

Jalalabad Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
28
21.7
14
9.1
8.3
11.9
16.7
21.1
27.3
33.1
33
16.1
12.3
4.6
-1.0
-2.2
0.2
3.4
12.6
15.4
18.9
20.1
Months
Avg 06 - 07
Long Term Avg

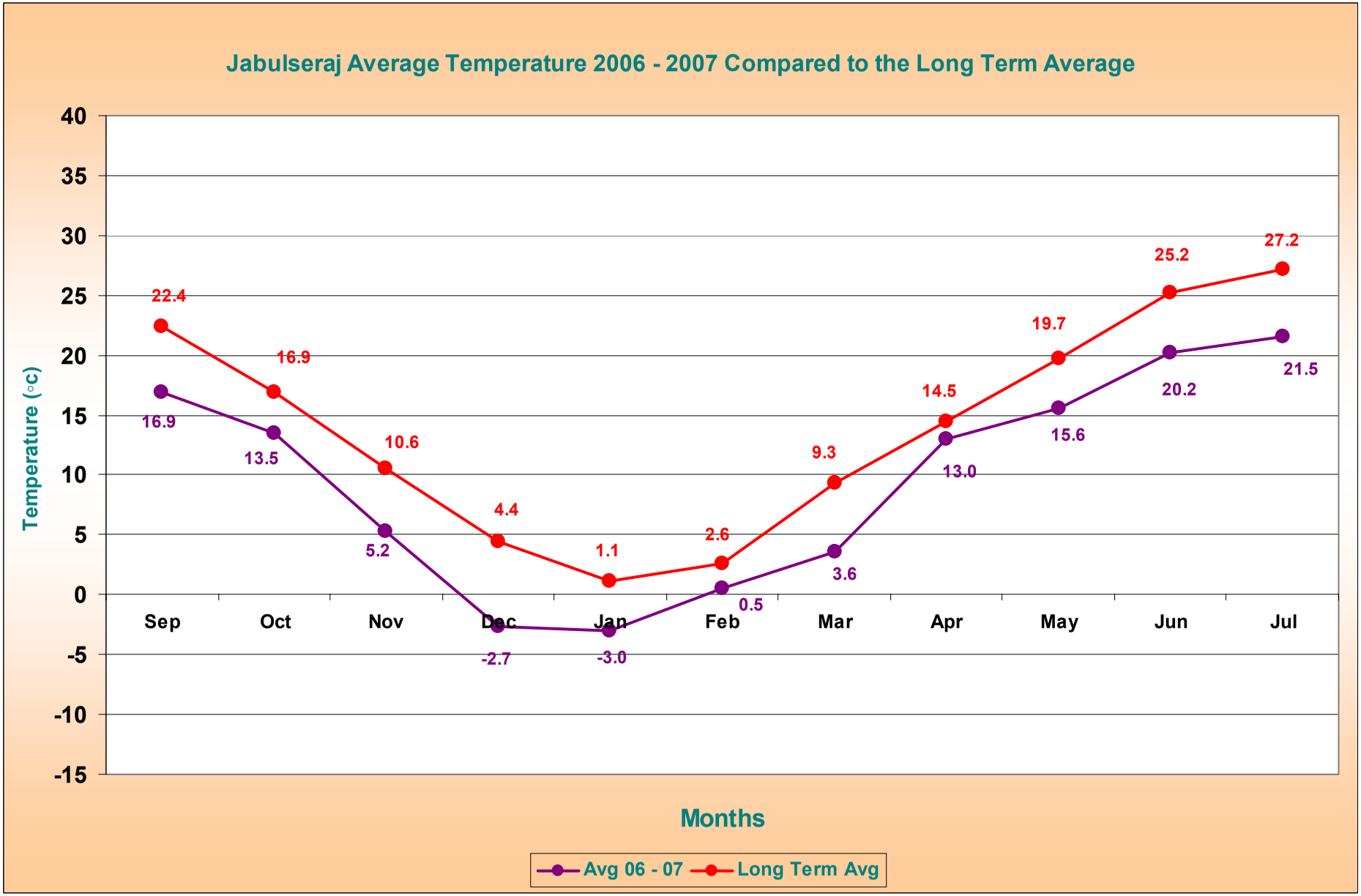

Shiberghan Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
22.8
20.3
17.8
16.1
10.1
9.1
4.9
-0.2
1.0
1.4
4.5
4.4
10.6
7.6
18.0
16.8
23
20.6
28.8
25.8
30.7
26.7
Months
Avg 06 - 07
Long Term Avg

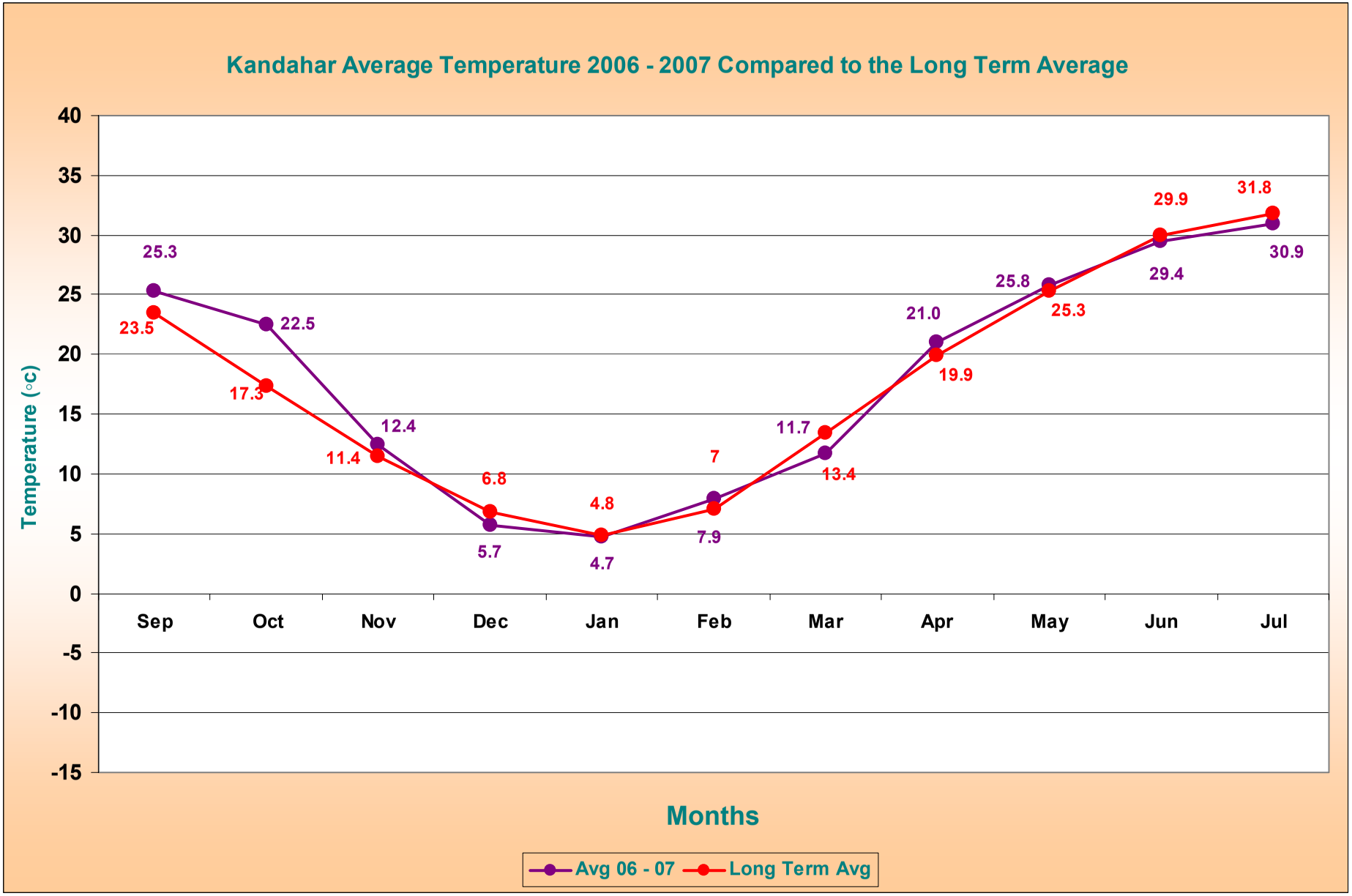

Farah Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
26.3
26.5
24.3
19.9
13.8
12.8
6.6
8.4
5.8
6.2
9.4
9.8
13.3
15.8
23.5
21.2
27.2
27
31.9
32.1
33.2
34.1
Months
Avg 06 - 07
Long Term Avg

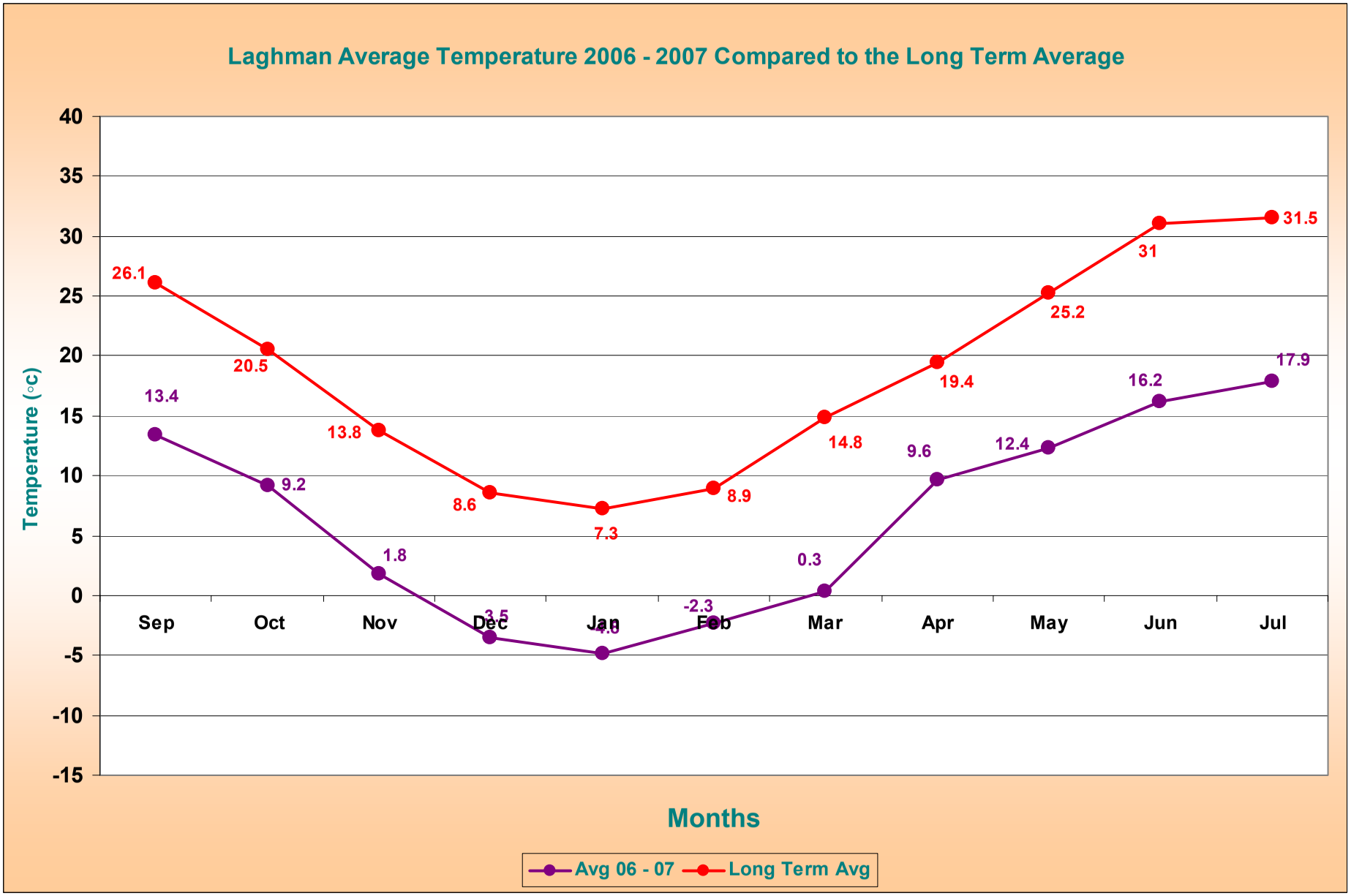

Gardiz Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
20.5
16.3
7.3
-1.7
-3.8
0.7
5.3
15.8
19.4
22.9
24.8
16.8
9.7
3.6
-2.7
-6.5
-5.1
3.5
9.8
15.1
20.4
22
Months
Avg 06 - 07
Long Term Avg


Ghazni Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
12.7
12.1
9.8
8.3
3.5
-0.2
-2
-8.8
-7.2
-11.0
-4.1
-5.9
4
-3.6
10.6
5.8
16
10.9
21.4
15.4
23.3
16.7
Months
Avg 06 - 07
Long Term Avg


Sarday Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
18.1
14.2
5.3
-2.8
-4.7
-0.7
3.2
12.9
17.0
20.6
22.0
12
9.7
3.3
-3.1
-8.01
-3.9
4
9.9
16
21.1
22.1
Months
Avg 06 - 07
Long Term Avg

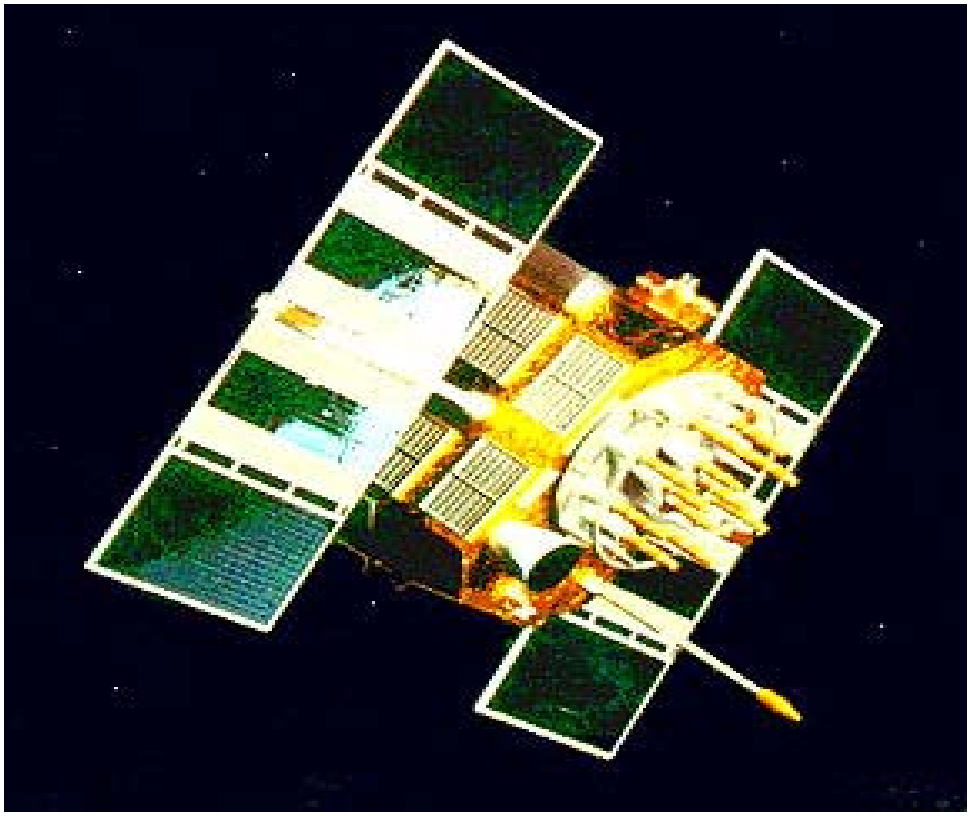

Jabulseraj Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
22.4
16.9
10.6
4.4
1.1
2.6
9.3
14.5
19.7
25.2
27.2
16.9
13.5
5.2
-2.7
-3.0
0.5
3.6
13.0
15.6
20.2
21.5
Months
Avg 06 - 07
Long Term Avg

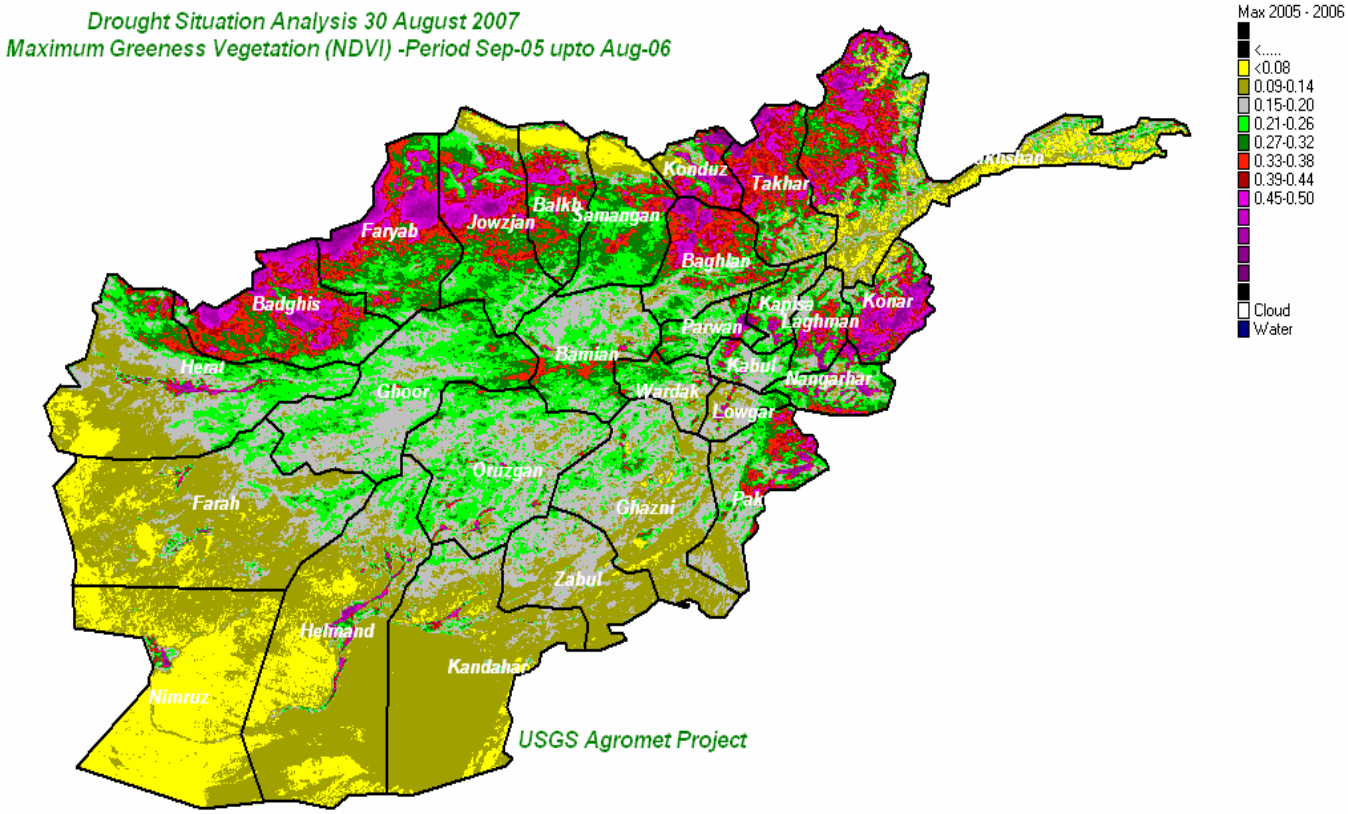

Kandahar Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
25.3
22.5
12.4
5.7
4.7
7
13.4
21.0
25.8
29.4
30.9
23.5
17.3
11.4
6.8
4.8
7.9
11.7
19.9
25.3
29.9
31.8
Months
Avg 06 - 07
Long Term Avg

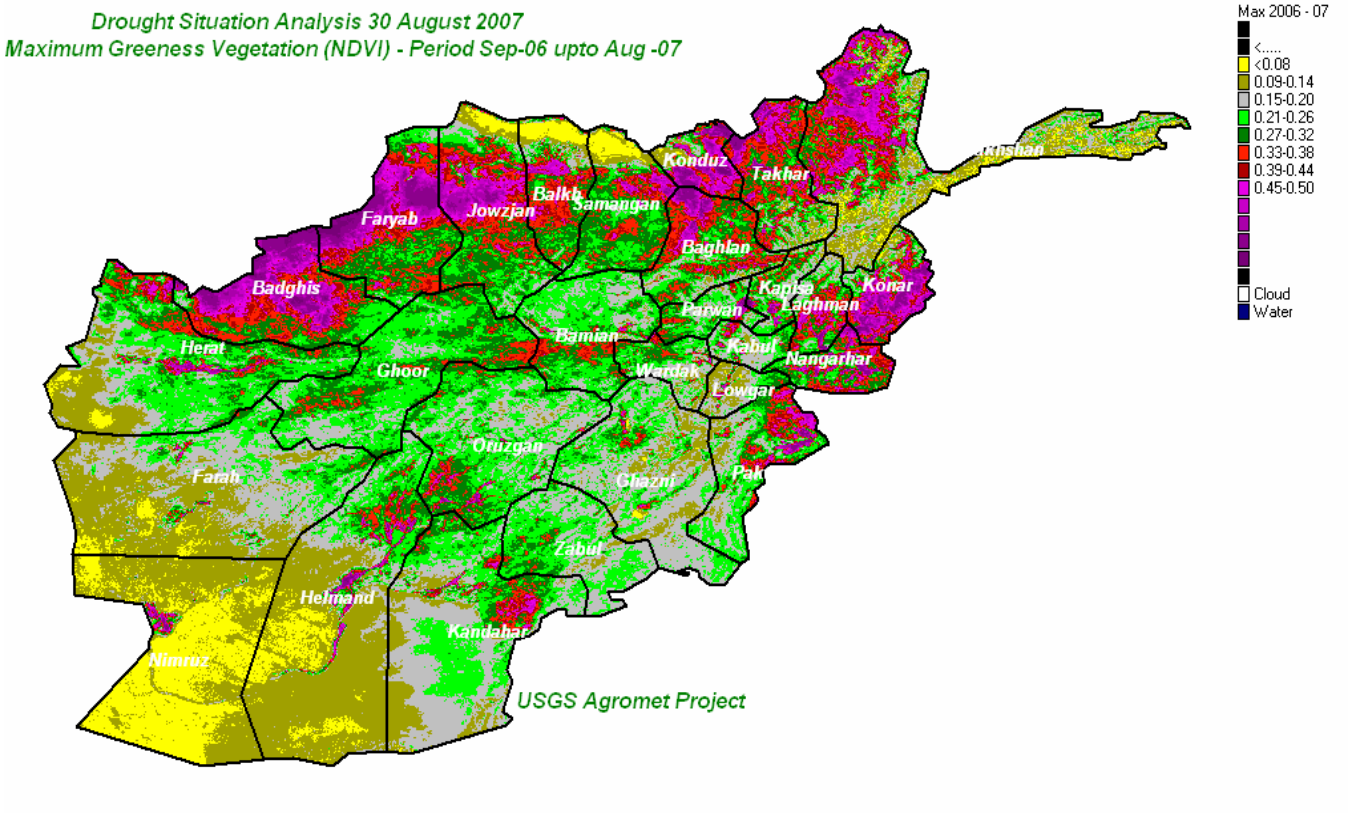

Laghman Average Temperature 2006 - 2007 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
26.1
20.5
13.8
8.6
7.3
8.9
14.8
19.4
25.2
31
31.5
13.4
9.2
1.8
-3.5
-4.8
-2.3
0.3
9.6
12.4
16.2
17.9
Months
Avg 06 - 07
Long Term Avg

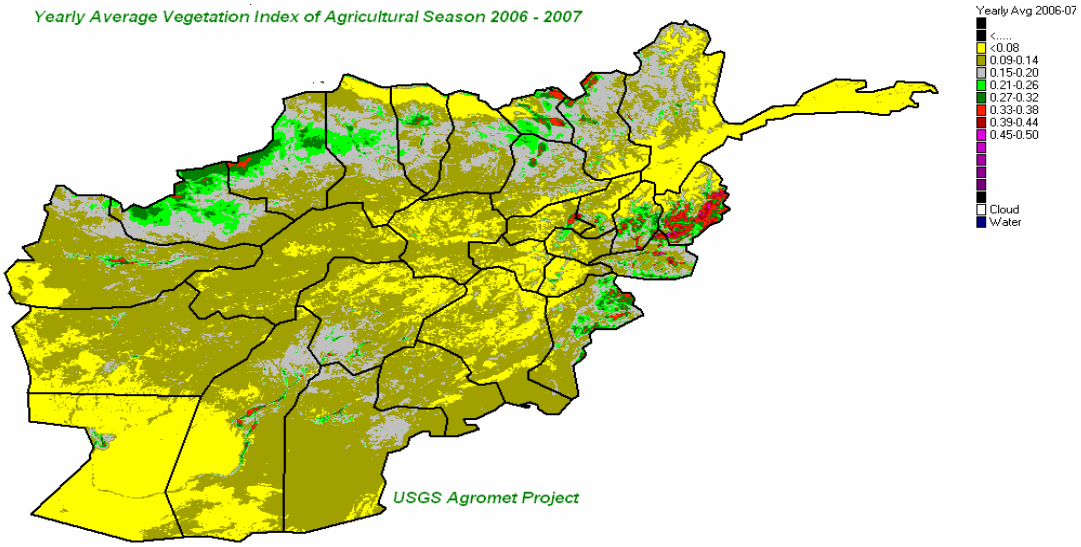
تفاوت شاخص سرسبزی نورمال
(NDVI)

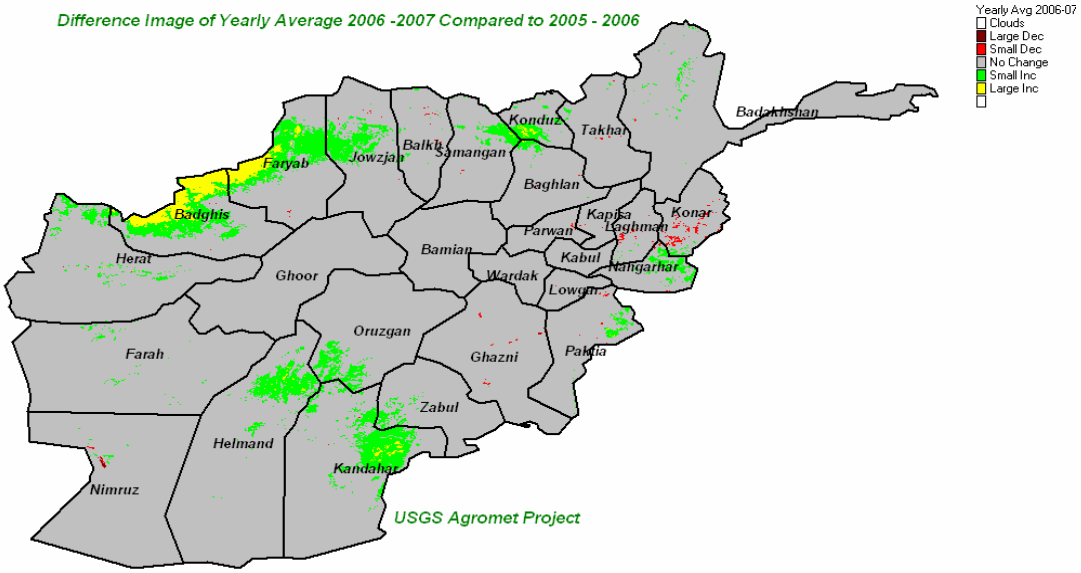
فصل زراعتی (۲۰۰۶ - ۲۰۰۷)

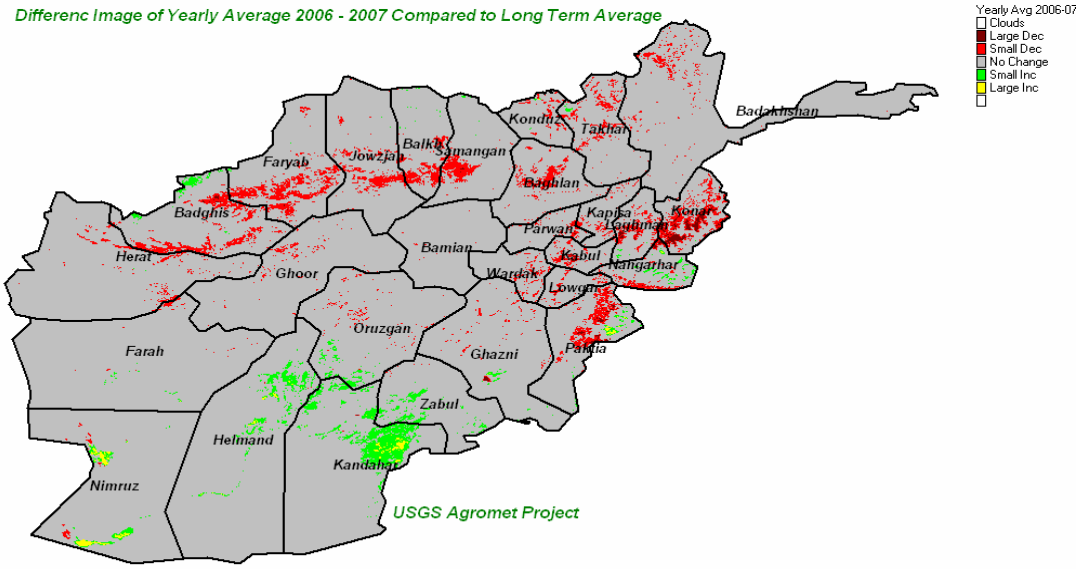


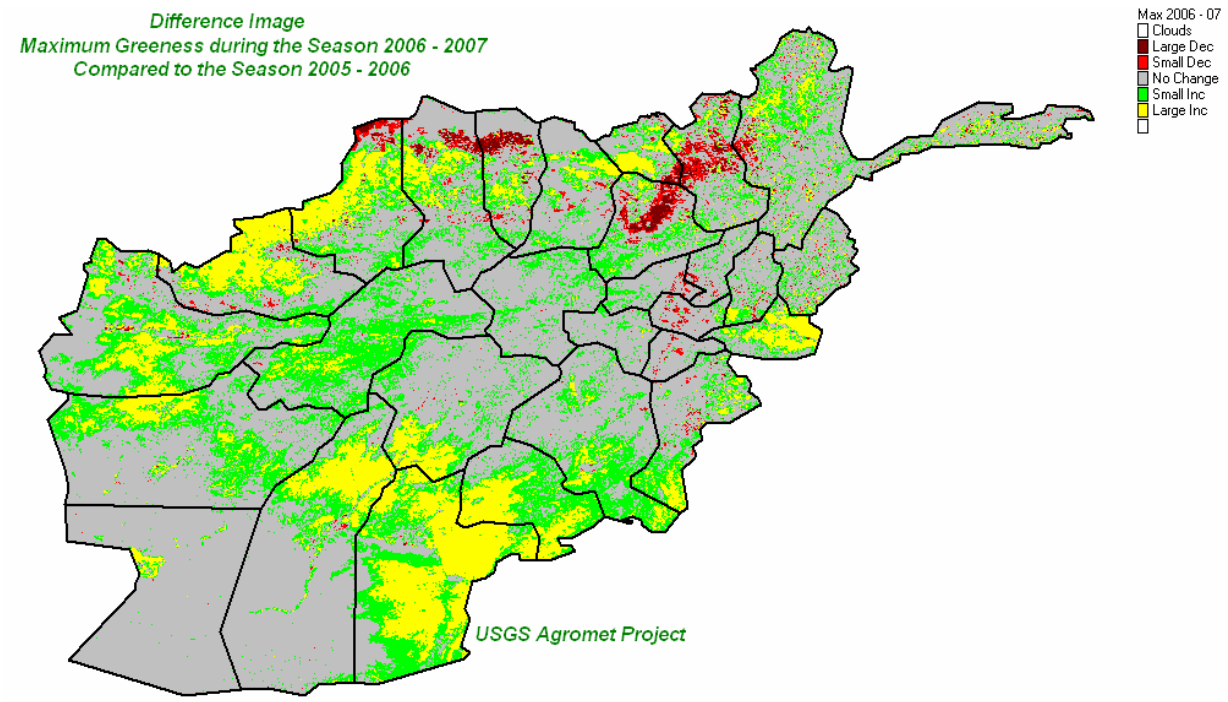

Drought Situation Analysis 30 August 2007
Maximum Greeness Vegetation (NDVI) -Period Sep-05 upto Aug-06
Max 2005 - 2006
<.....
<0.08
0.09-0.14
0.15-0.20
0.21-0.26
0.27-0.32
0.33-0.38
0.39-0.44
0.45-0.50
Cloud
Water
Konduz
Takhar
Badakhshan
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Parwan
Laghman
Bamian
Herat
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Oruzgan
Farah
Ghazni
Pak
Zabul
Helmand
Kandahar
Nimruz
USGS Agromet Project

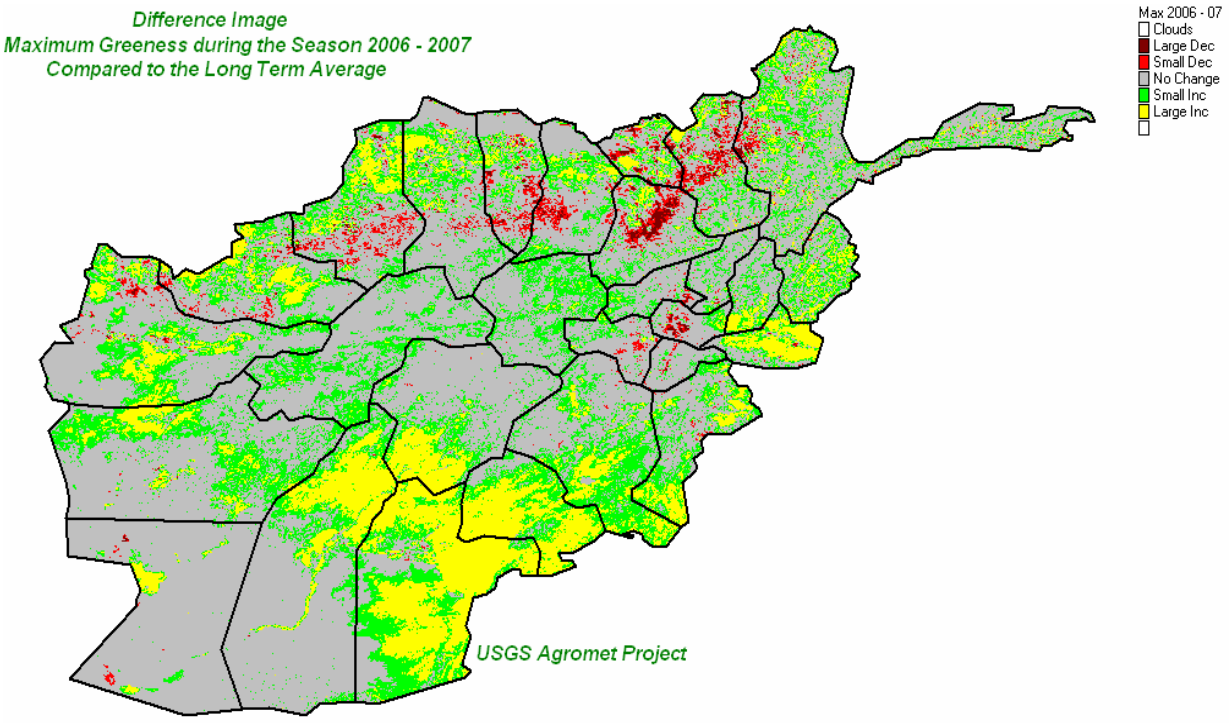

Drought Situation Analysis 30 August 2007
Maximum Greeness Vegetation (NDVI) - Period Sep-06 upto Aug -07
Max 2006 - 07
<.....
<0.08
0.09-0.14
0.15-0.20
0.21-0.26
0.27-0.32
0.33-0.38
0.39-0.44
0.45-0.50
Cloud
Water
Konduz
Takhar
Badakhshan
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Parwan
Laghman
Bamian
Herat
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Oruzgan
Farah
Ghazni
Pak
Zabul
Helmand
Kandahar
Nimruz
USGS Agromet Project

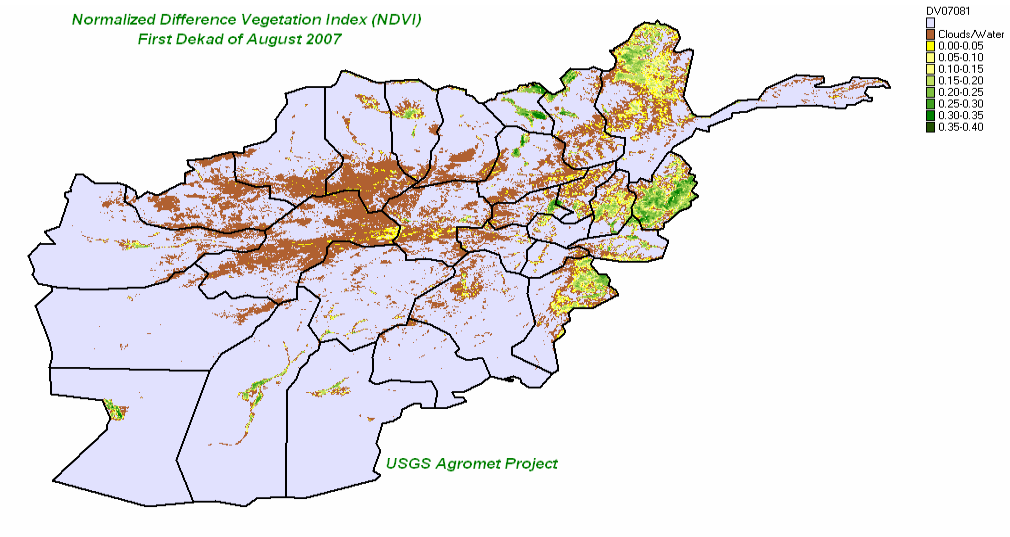

Yearly Average Vegetation Index of Agricultural Season 2006 - 2007
Yearly Avg 2006-07
<.....
<0.08
0.09-0.14
0.15-0.20
0.21-0.26
0.27-0.32
0.33-0.38
0.39-0.44
0.45-0.50
Cloud
Water
USGS Agromet Project

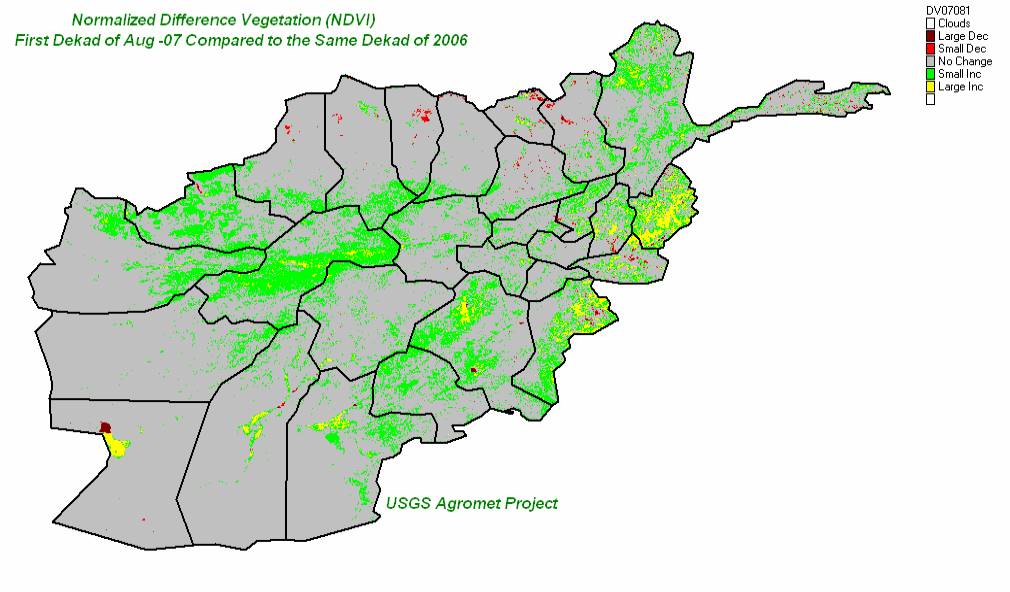

Difference Image of Yearly Average 2006 -2007 Compared to 2005 - 2006
Yearly Avg 2006-07
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Badakhshan
Kondoz
Takhar
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Laghman
Parwan
Herat
Bamian
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Oruzgan
Farah
Ghazni
Paktia
Zabul
Helmand
Kandahar
Nimruz
USGS Agromet Project

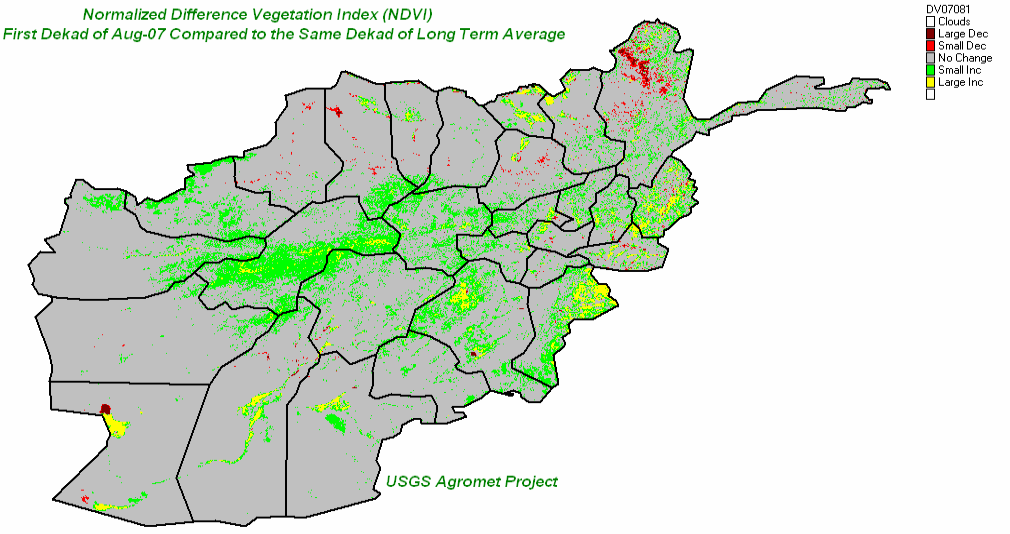

Differenc Image of Yearly Average 2006 - 2007 Compared to Long Term Average
Yearly Avg 2006-07
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Badakhshan
Kondoz
Takhar
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Laghman
Parwan
Herat
Bamian
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Oruzgan
Farah
Ghazni
Paktia
Zabul
Helmand
Kandahar
Nimruz
USGS Agromet Project


Difference Image
Maximum Greeness during the Season 2006 - 2007
Compared to the Season 2005 - 2006
Max 2006 - 07
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
USGS Agromet Project


Difference Image
Maximum Greeness during the Season 2006 - 2007
Compared to the Long Term Average
Max 2006 - 07
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
USGS Agromet Project


Normalized Difference Vegetation Index (NDVI)
First Dekad of August 2007
DV07081
Clouds/Water
0.00-0.05
0.05-0.10
0.10-0.15
0.15-0.20
0.20-0.25
0.25-0.30
0.30-0.35
0.35-0.40
USGS Agromet Project

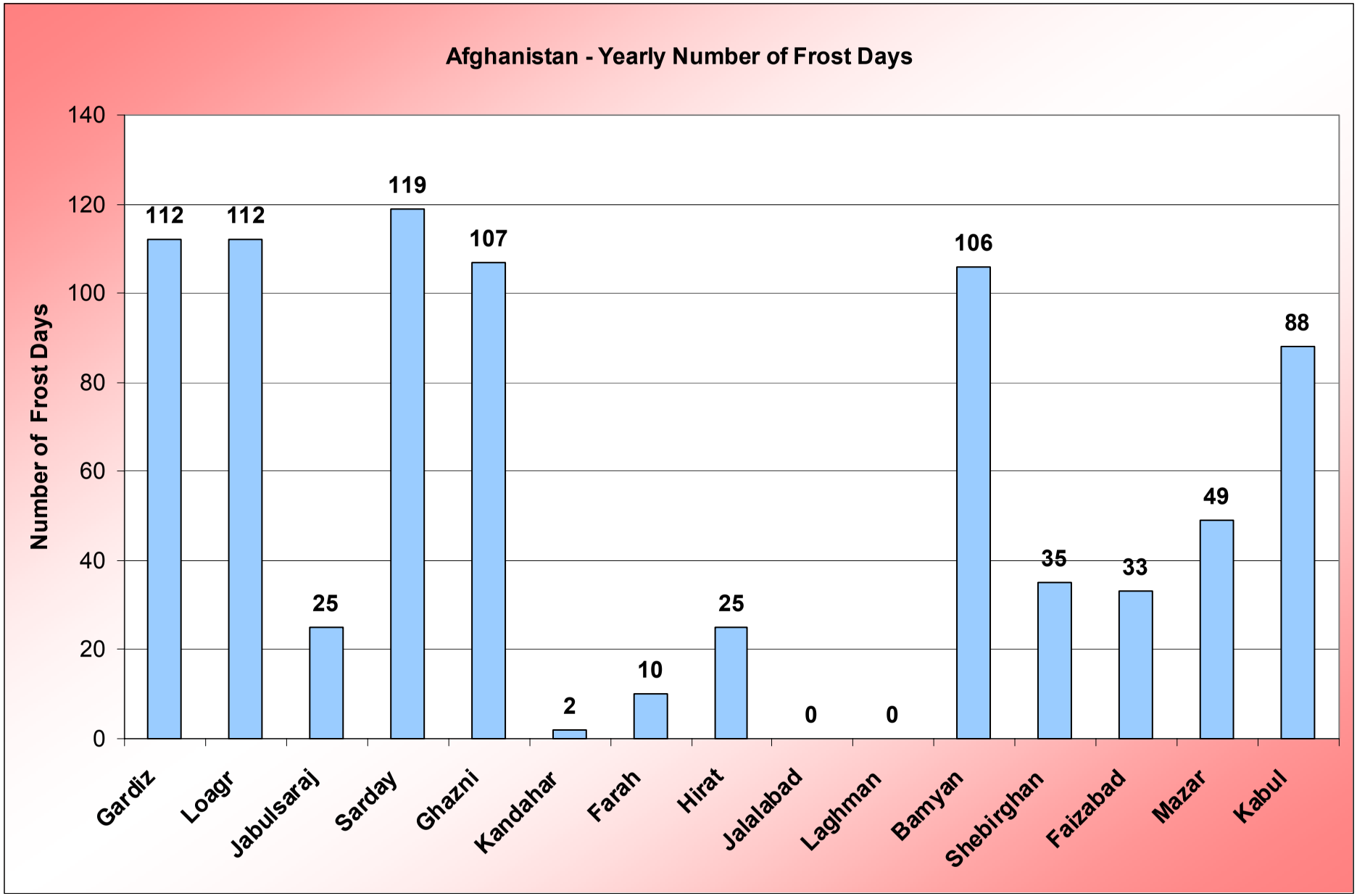

Normalized Difference Vegetation (NDVI)
First Dekad of Aug -07 Compared to the Same Dekad of 2006
DV07081
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
USGS Agromet Project

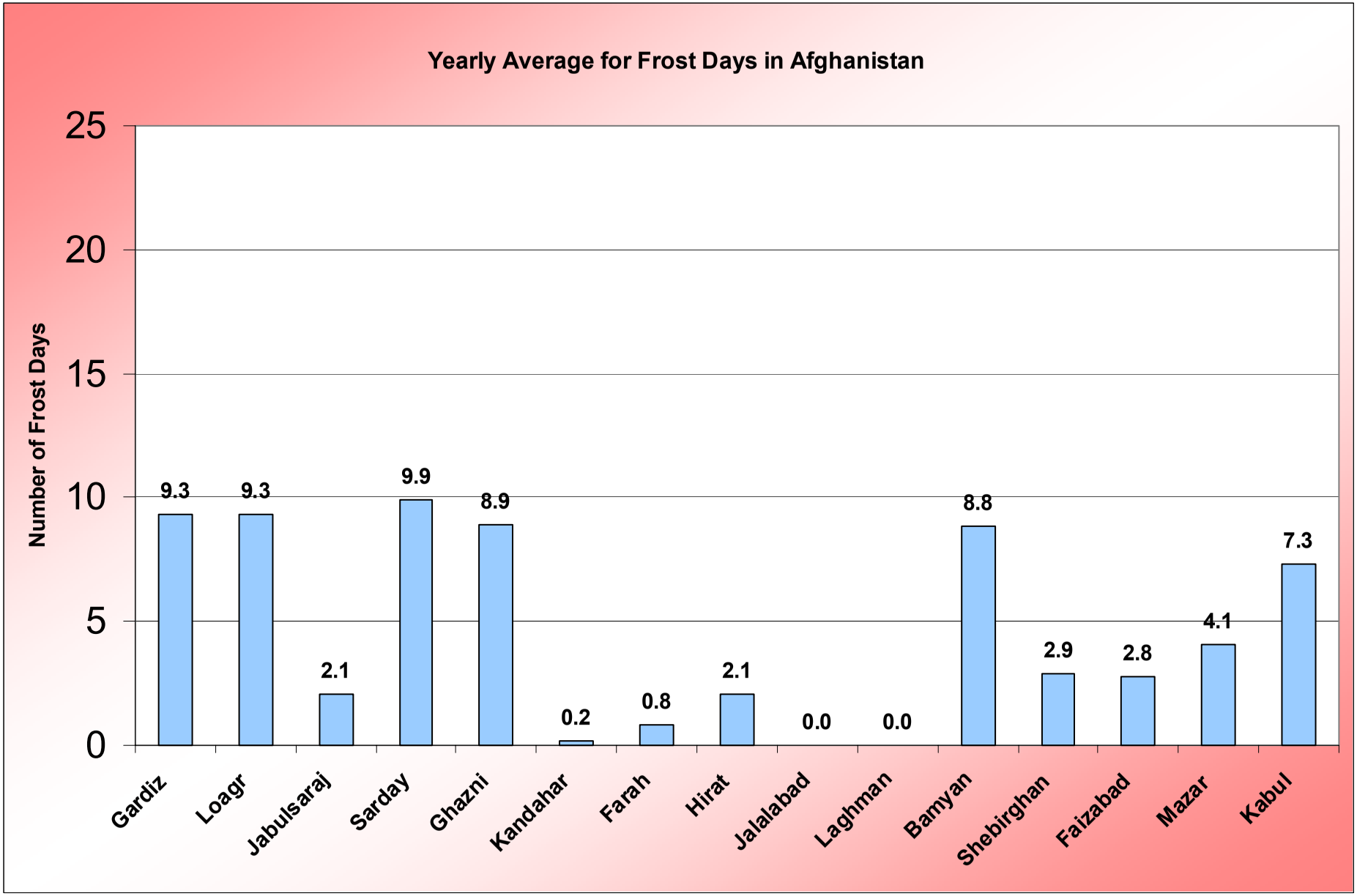

Normalized Difference Vegetation Index (NDVI)
First Dekad of Aug-07 Compared to the Same Dekad of Long Term Average
DV07081
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
USGS Agromet Project

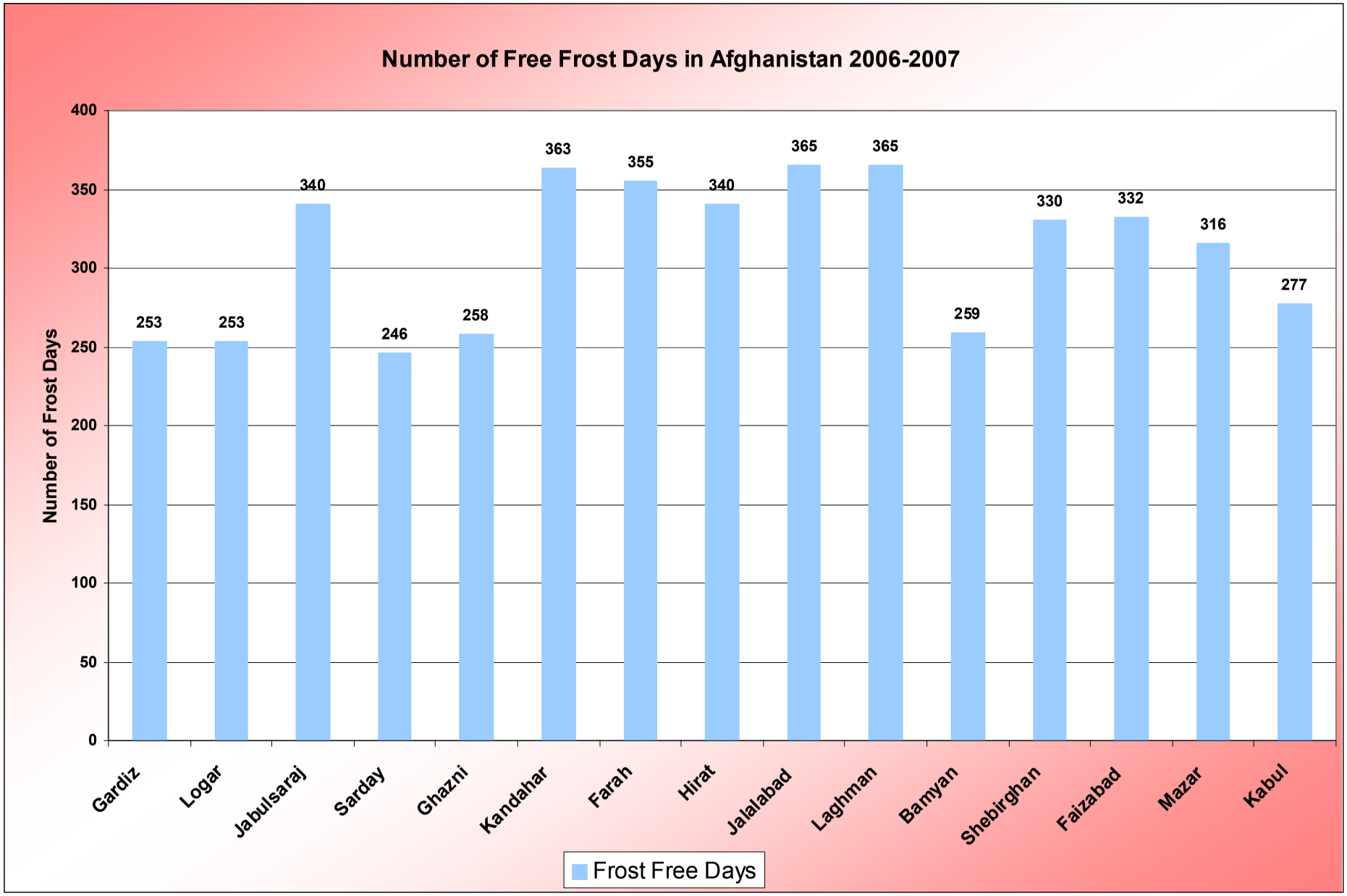
مقایسه روز های یخبندی فصل زراعتی
(۲۰۰۶ - ۲۰۰۷)

با

سال قبل و اوسط درازمدت


Afghanistan - Yearly Number of Frost Days
Number of Frost Days
140
120
100
80
60
40
20
0
112
112
25
119
107
2
10
25
0
0
106
35
33
49
88
Gardiz
Loagr
Jabulsaraj
Sarday
Ghazni
Kandahar
Farah
Hirat
Jalalabad
Laghman
Bamyan
Shebirghan
Faizabad
Mazar
Kabul


Yearly Average for Frost Days in Afghanistan
Number of Frost Days
25
20
15
10
5
0
9.3
9.3
2.1
9.9
8.9
0.2
0.8
2.1
0.0
0.0
8.8
2.9
2.8
4.1
7.3
Gardiz
Loagr
Jabulsaraj
Sarday
Ghazni
Kandahar
Farah
Hirat
Jalalabad
Laghman
Bamyan
Shebirghan
Faizabad
Mazar
Kabul


Number of Free Frost Days in Afghanistan 2006-2007
Number of Frost Days
400
350
300
250
200
150
100
50
0
253
253
340
246
258
363
355
340
365
365
259
330
332
316
277
Gardiz
Logar
Jabulsaraj
Sarday
Ghazni
Kandahar
Farah
Hirat
Jalalabad
Laghman
Bamyan
Shebirghan
Faizabad
Mazar
Kabul
Frost Free Days