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 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.

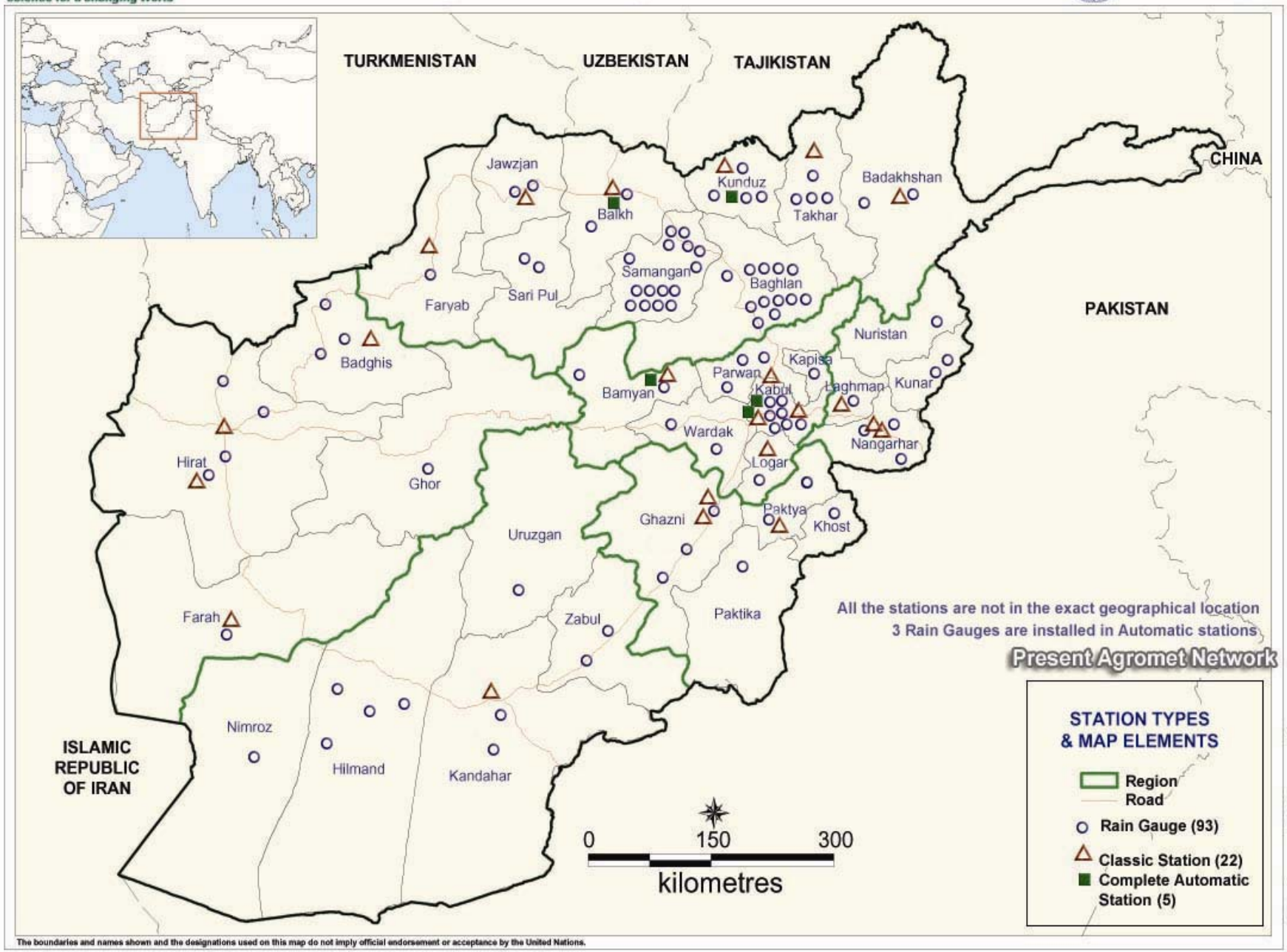
۵- اکثر تحلیل های احصایوی اطلس خطرات اگرواقلیمی برای افغانستان تا کنون تکمیل گردیده که تمام ۲۹ پارامتر های اگرومیتیورولوژیکی را تحت پوشش قرار میدهد به شمول ارقام اساسی پروژه اگرومیتیورولوژی که تماماً در تماس با محصولات زراعتی و مصوونیت غذا میباشد.

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.

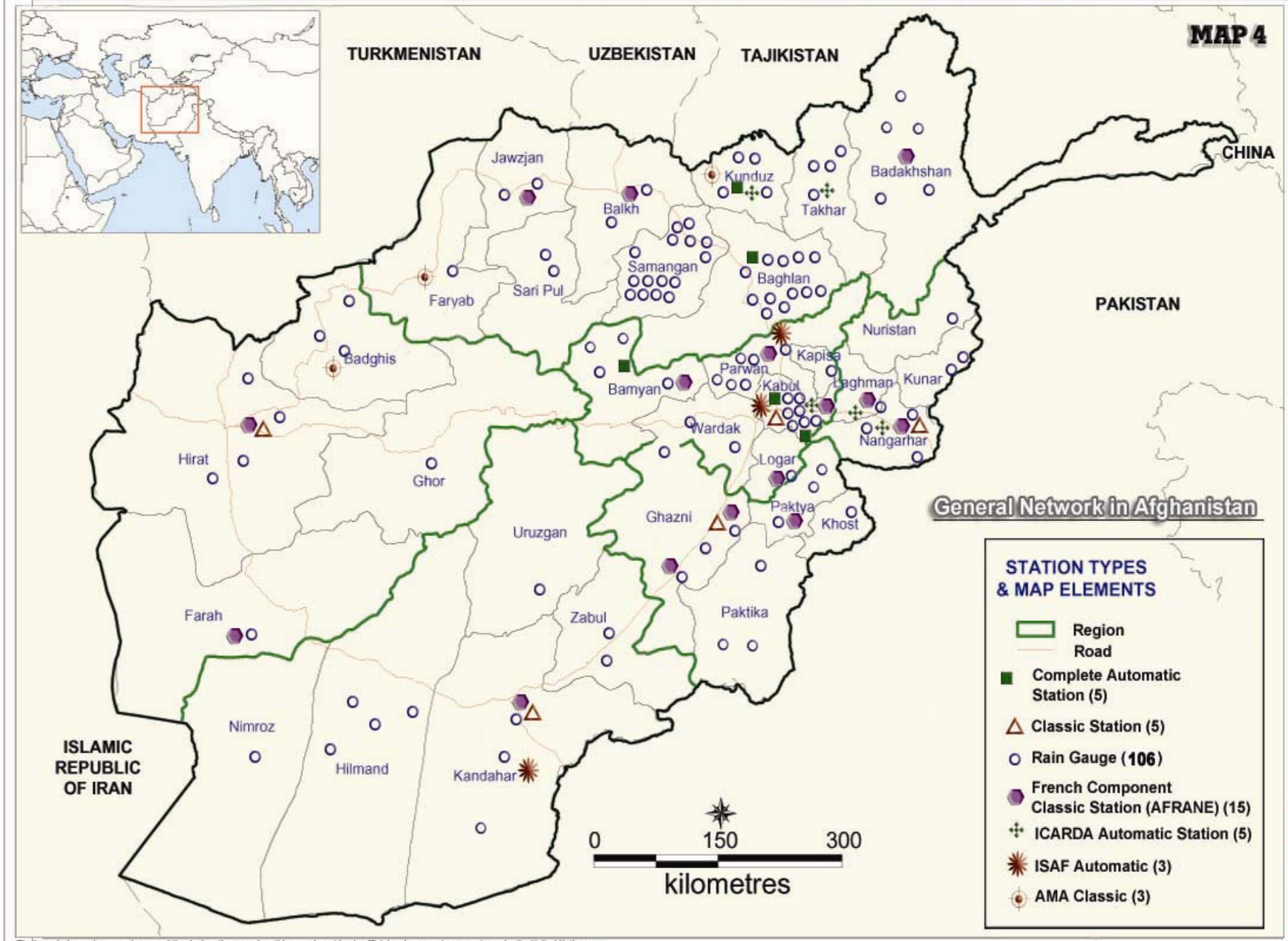
۷- پروژه اگرومیتیورولوژی به تعداد ۱۸ جلد کتب رهنمای تخنیکی و تربیوی را به نشر رسانیده که شامل ۱۴۹ صفحه رهنمای تربیوی به زبان دری و ۱۵۴ صفحه تحلیل اگرومیتیورولوژیکی شامل ۱۱ پارامتر اگرومیتیورولوژیکی است. اکثر این رهنما ها به زبان دری ترجمه گردیده است.

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.

Agromet Project

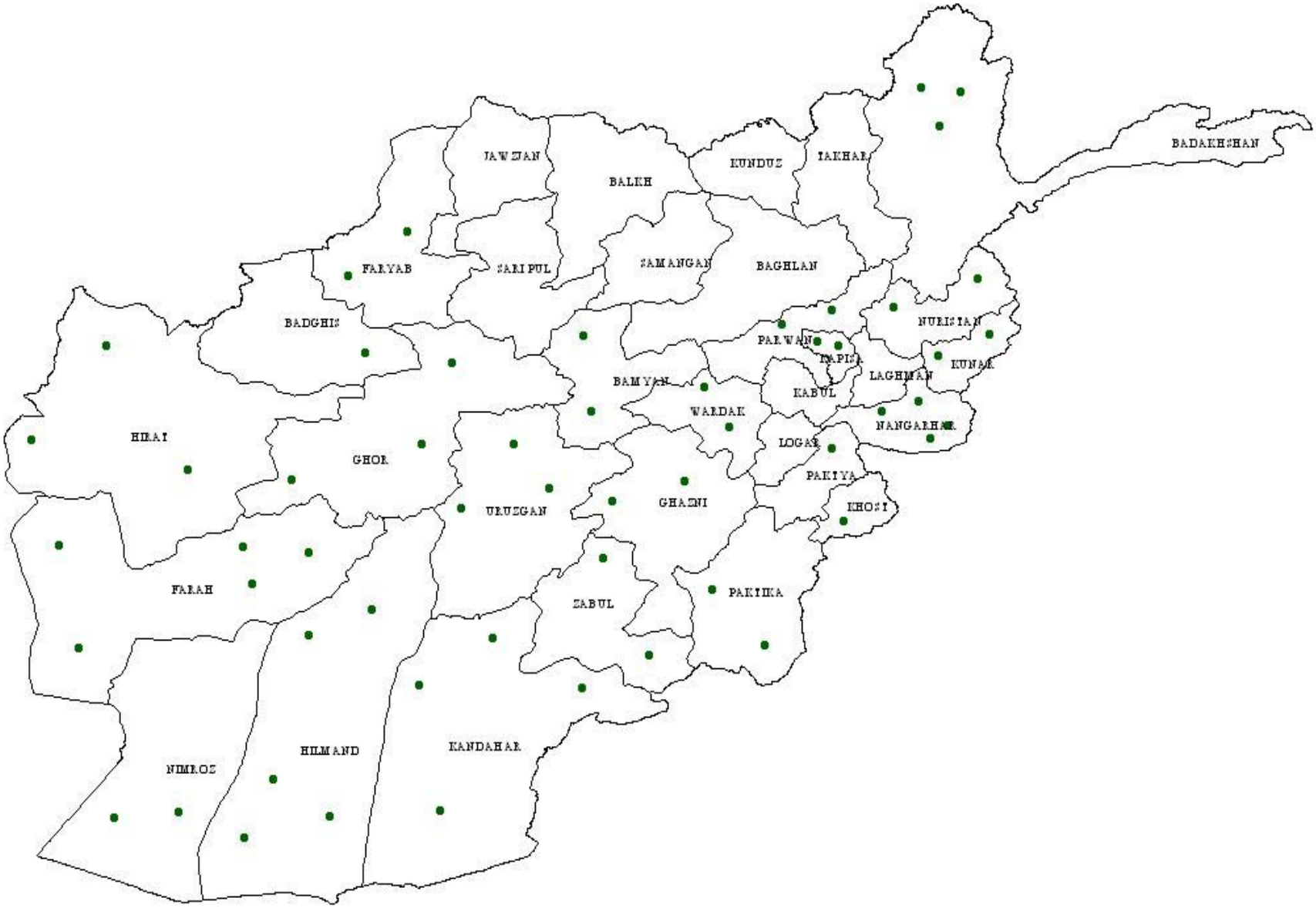


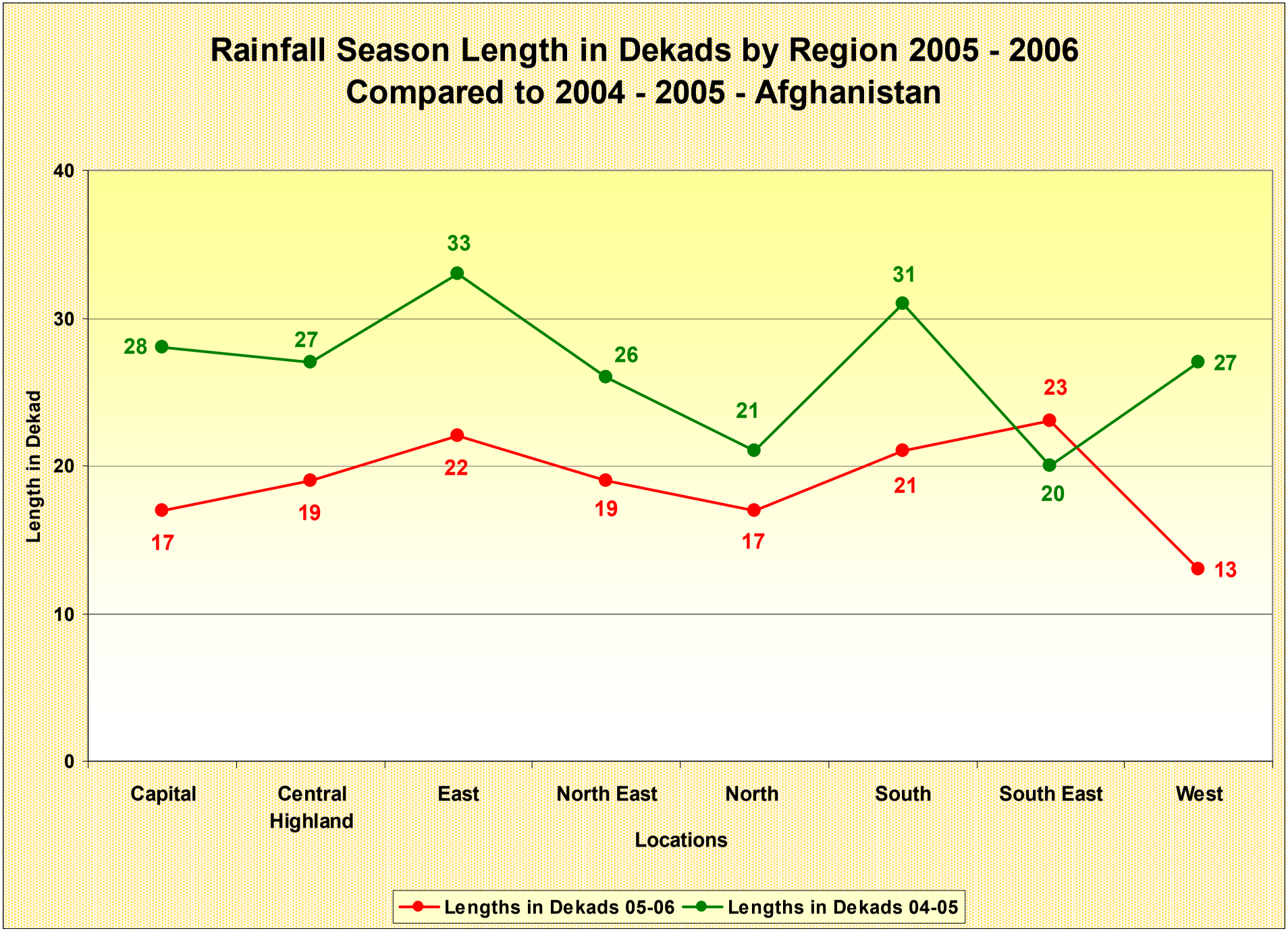
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.



Date: 02/21/2006

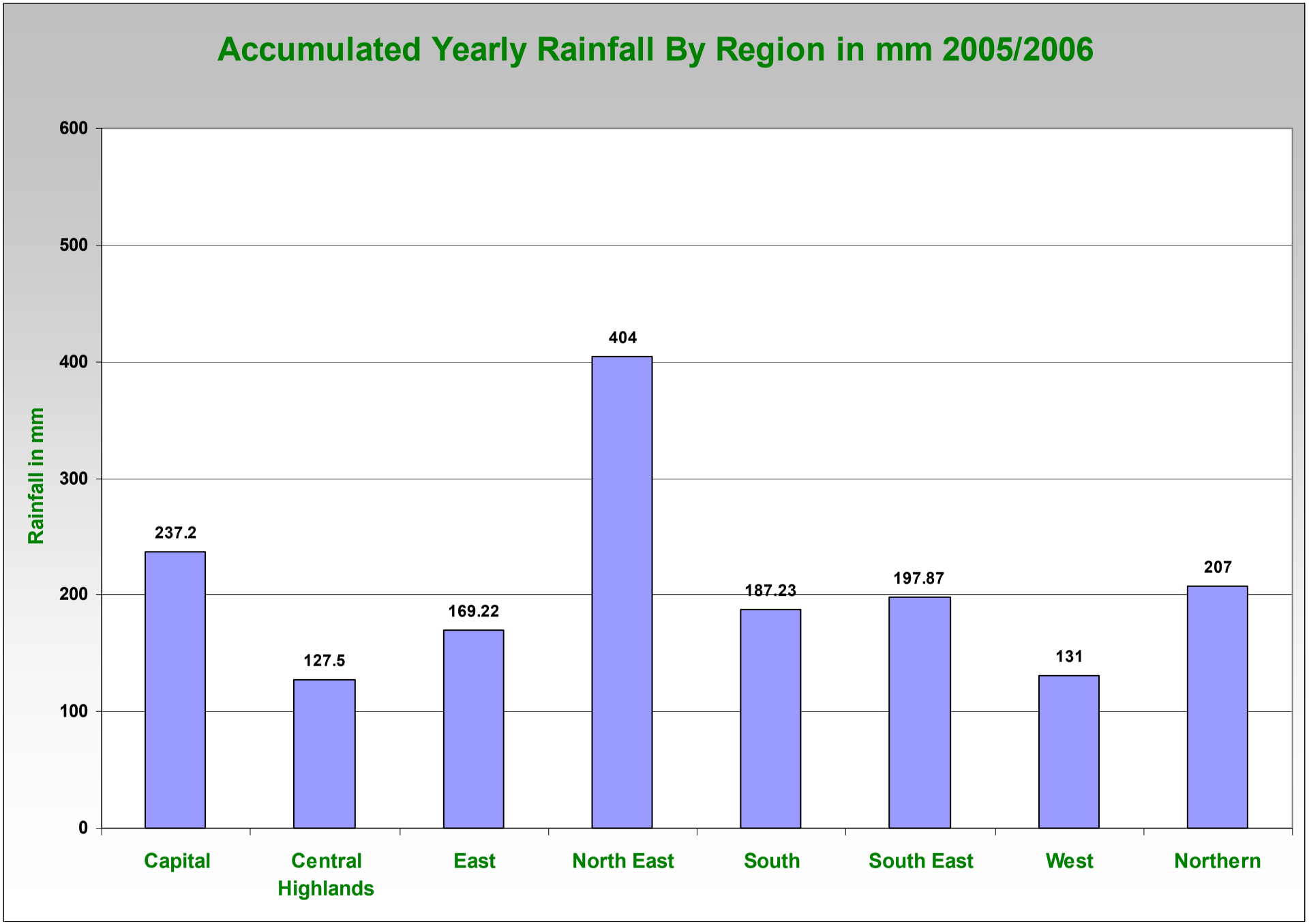
Planned sites for the installation of new rain gauges

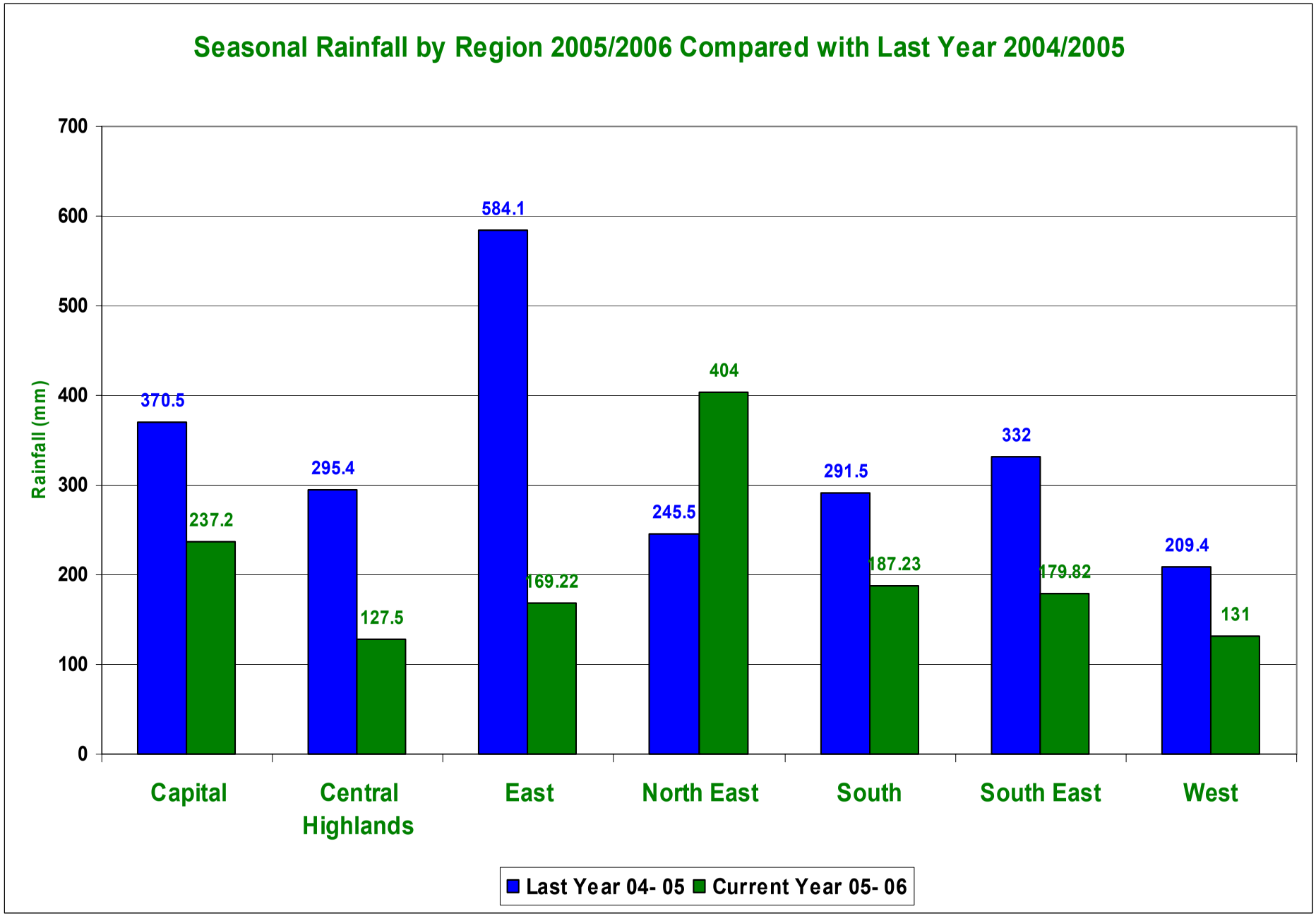



Rainfall Season Length in Dekads by Region 2005 - 2006
Compared to 2004 - 2005 - Afghanistan
Length in Dekad
40
30
20
10
0
28
27
33
26
21
31
20
27
17
19
22
19
17
21
23
13
Capital
Central Highland
East
North East
North
South
South East
West
Locations
Lengths in Dekads 05-06
Lengths in Dekads 04-05

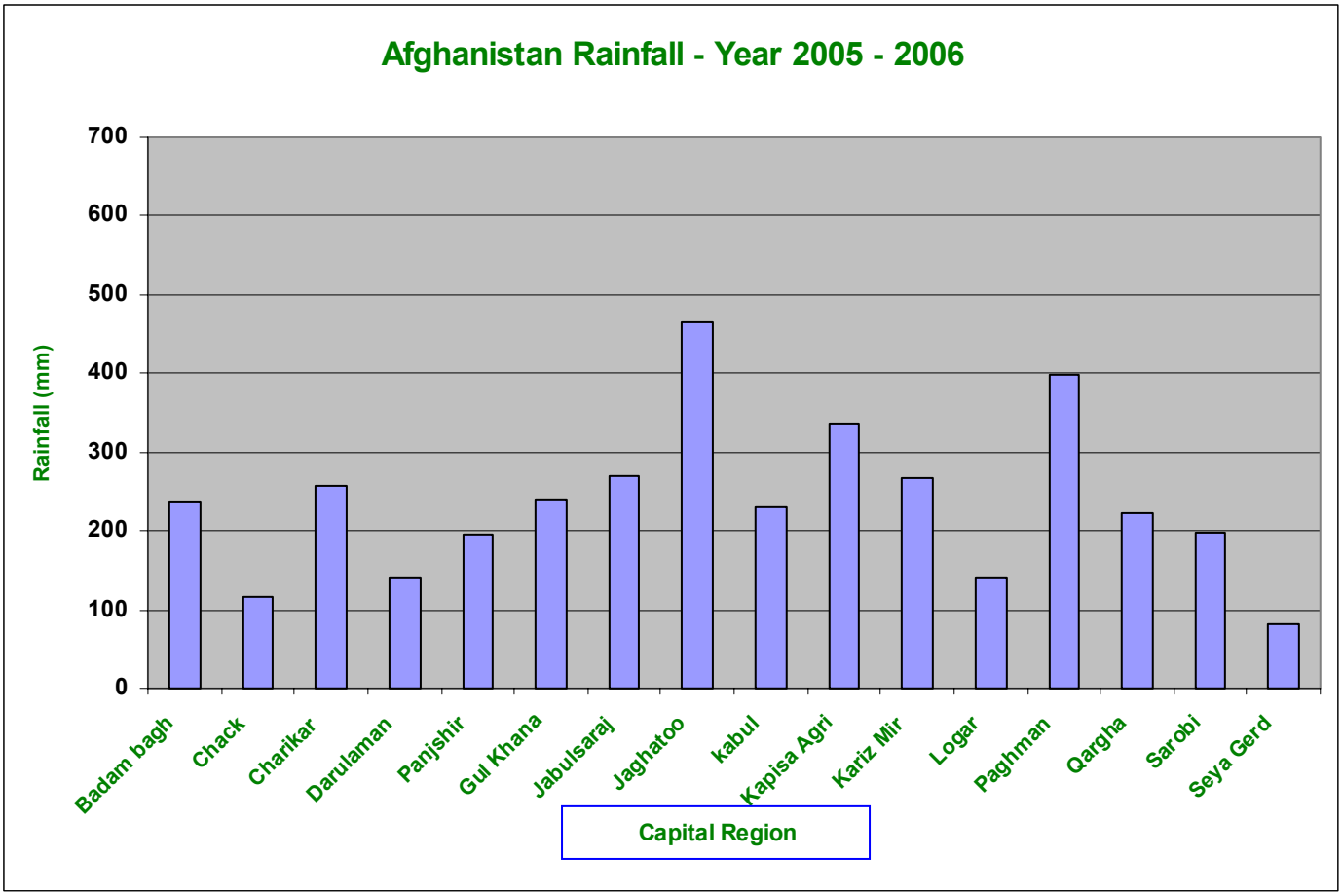
Average Recorded Rainfall(mm) by Region - Afghanistan Season 2005 - 2006

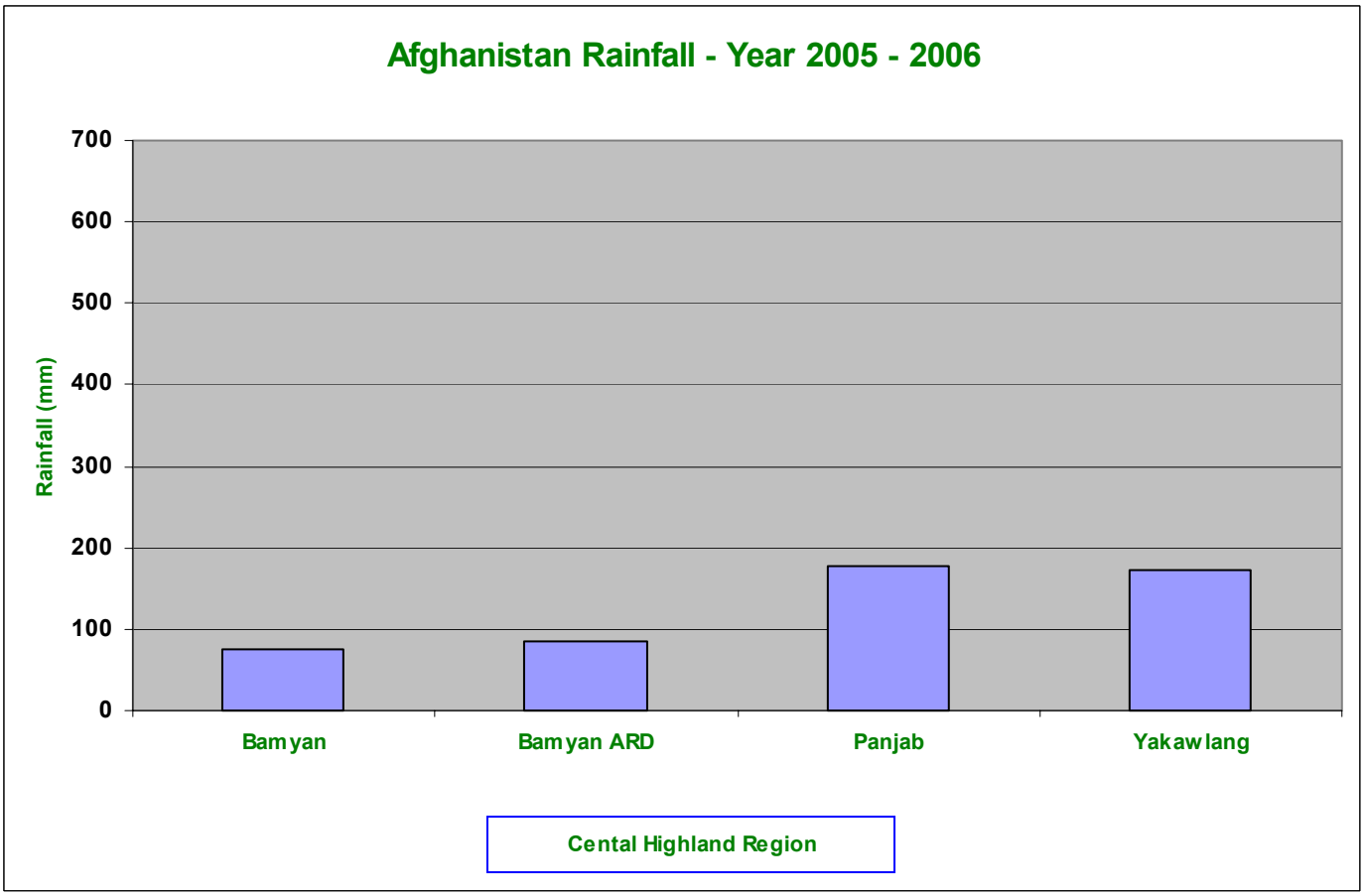
Region	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Yearly Total
Capital	0.81	0.34	20.36	0.06	65.91	47.41	65.34	33.48	1.63	0.00	1.25	0.61	237.20
Central Highlands	0.25	0.00	21.30	2.38	37.60	18.68	18.15	23.00	3.88	1.50	0.63	0.00	127.37
East	7.18	5.00	4.09	0.00	44.78	25.44	48.75	23.75	0.25	0.00	6.00	6.50	171.74
North East	0.00	1.05	23.74	24.63	63.17	88.68	47.72	50.66	6.77	4.11	0.00	0.00	310.53
South	0.00	0.00	5.66	0.10	38.13	40.38	45.65	14.85	9.85	12.35	12.85	0.00	179.82
South East	4.30	0.43	9.74	0.43	33.49	42.16	35.64	27.86	3.36	7.29	17.19	24.14	206.03
West	0.00	0.00	36.80	3.65	51.80	17.25	19.33	3.90	0.00	0.00	0.00	0.00	132.73
Minimum	0.00	0.00	4.09	0.00	33.49	17.25	18.15	3.90	0.00	0.00	0.00	0.00	76.88
Maximum	7.18	5.00	36.80	24.63	65.91	88.68	65.34	50.66	9.85	12.35	17.19	24.14	407.73
Average	2.19	1.31	18.06	6.21	48.25	42.88	40.45	25.78	3.95	4.18	6.12	6.15	205.56

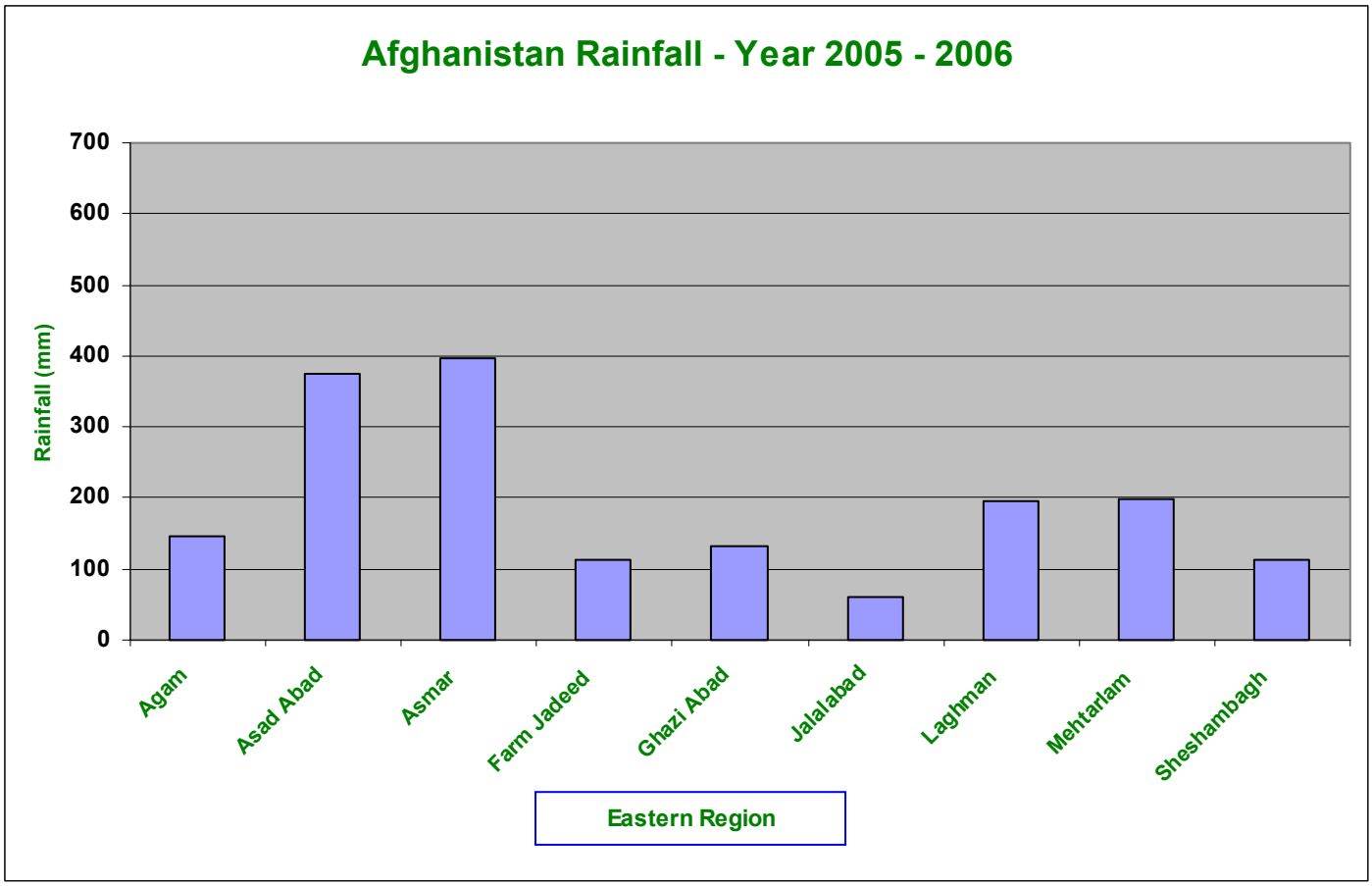

Accumulated Yearly Rainfall By Region in mm 2005/2006
Rainfall in mm
600
500
400
300
200
100
0
237.2
127.5
169.22
404
187.23
197.87
131
207
Capital
Central Highlands
East
North East
South
South East
West
Northern

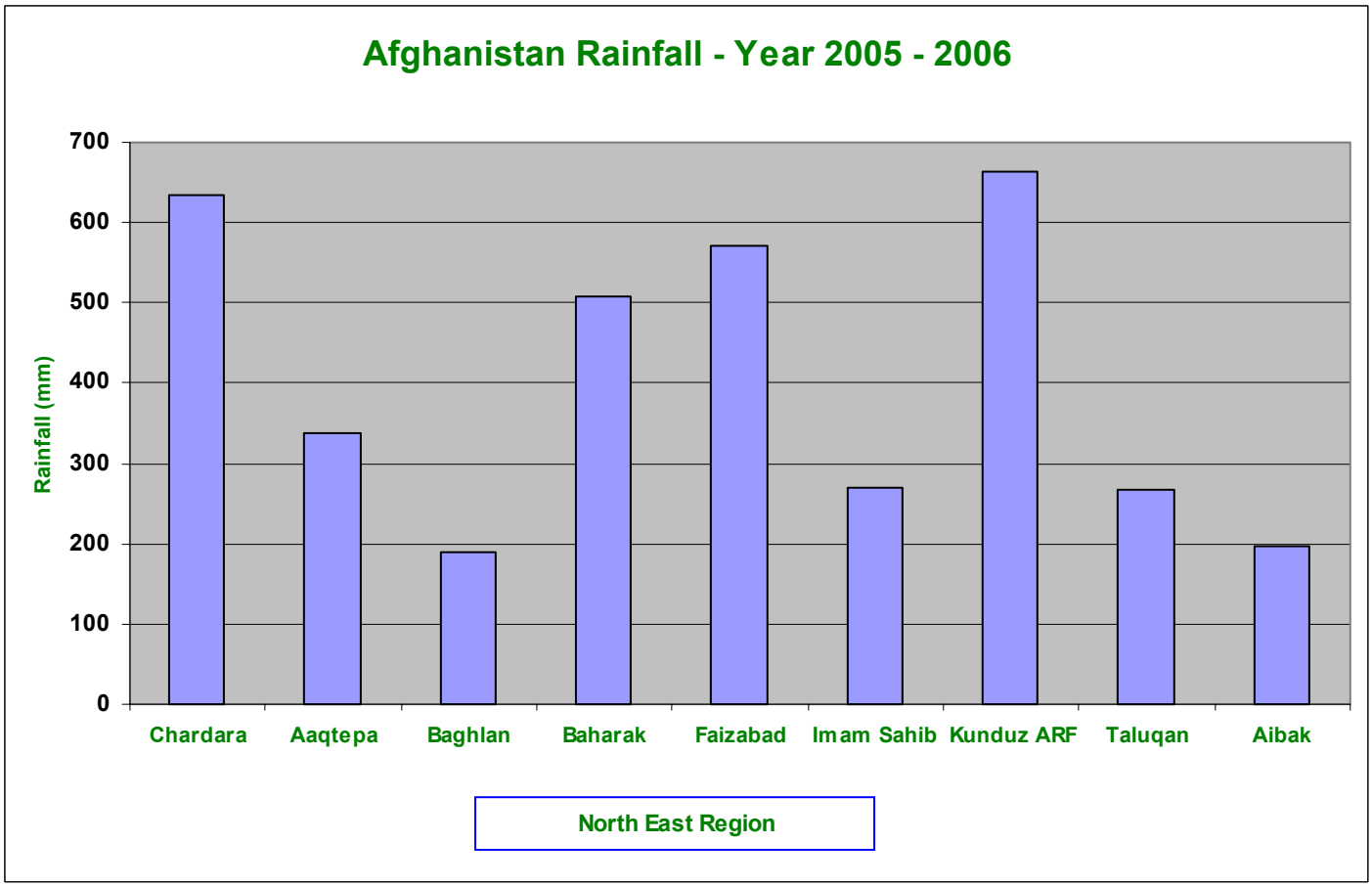

Seasonal Rainfall by Region 2005/2006 Compared with Last Year 2004/2005
Rainfall (mm)
700
600
500
400
300
200
100
0
370.5
237.2
295.4
127.5
584.1
169.22
245.5
404
291.5
187.23
332
179.82
209.4
131
Capital
Central Highlands
East
North East
South
South East
West
Last Year 04- 05
Current Year 05- 06

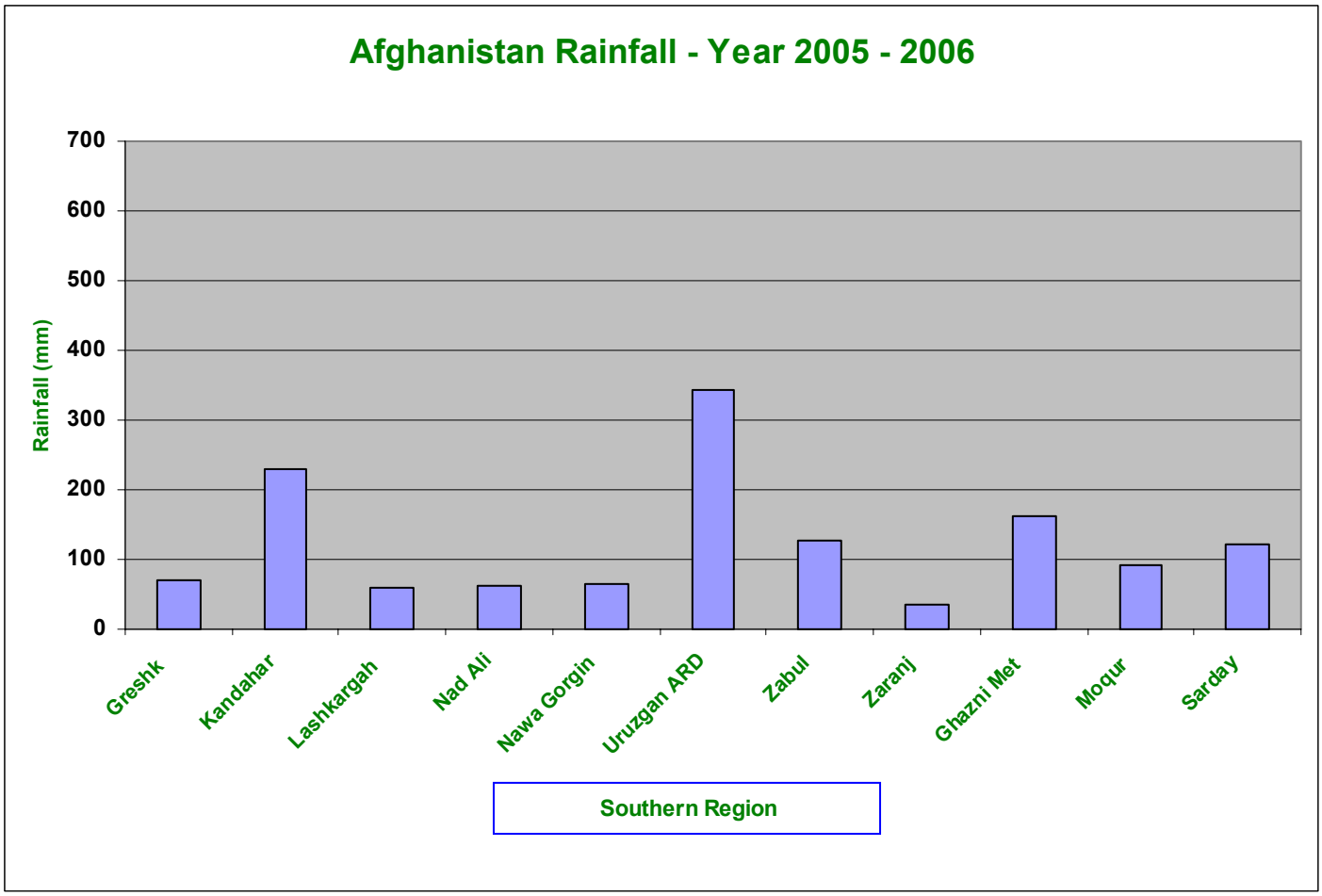
بارندگی سالانه فصل (۲۰۰۵-۲۰۰۶) نظر به مناطق

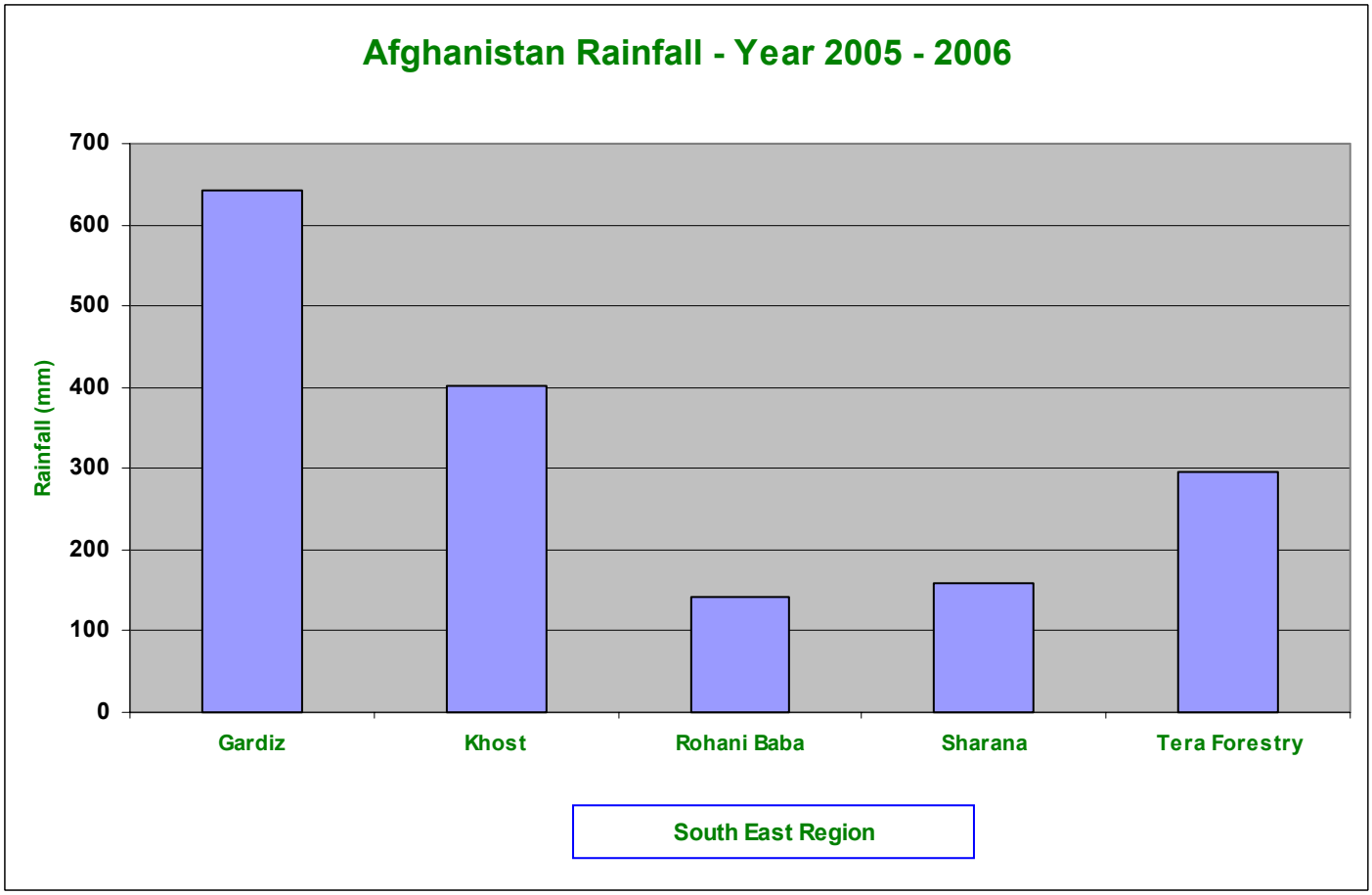


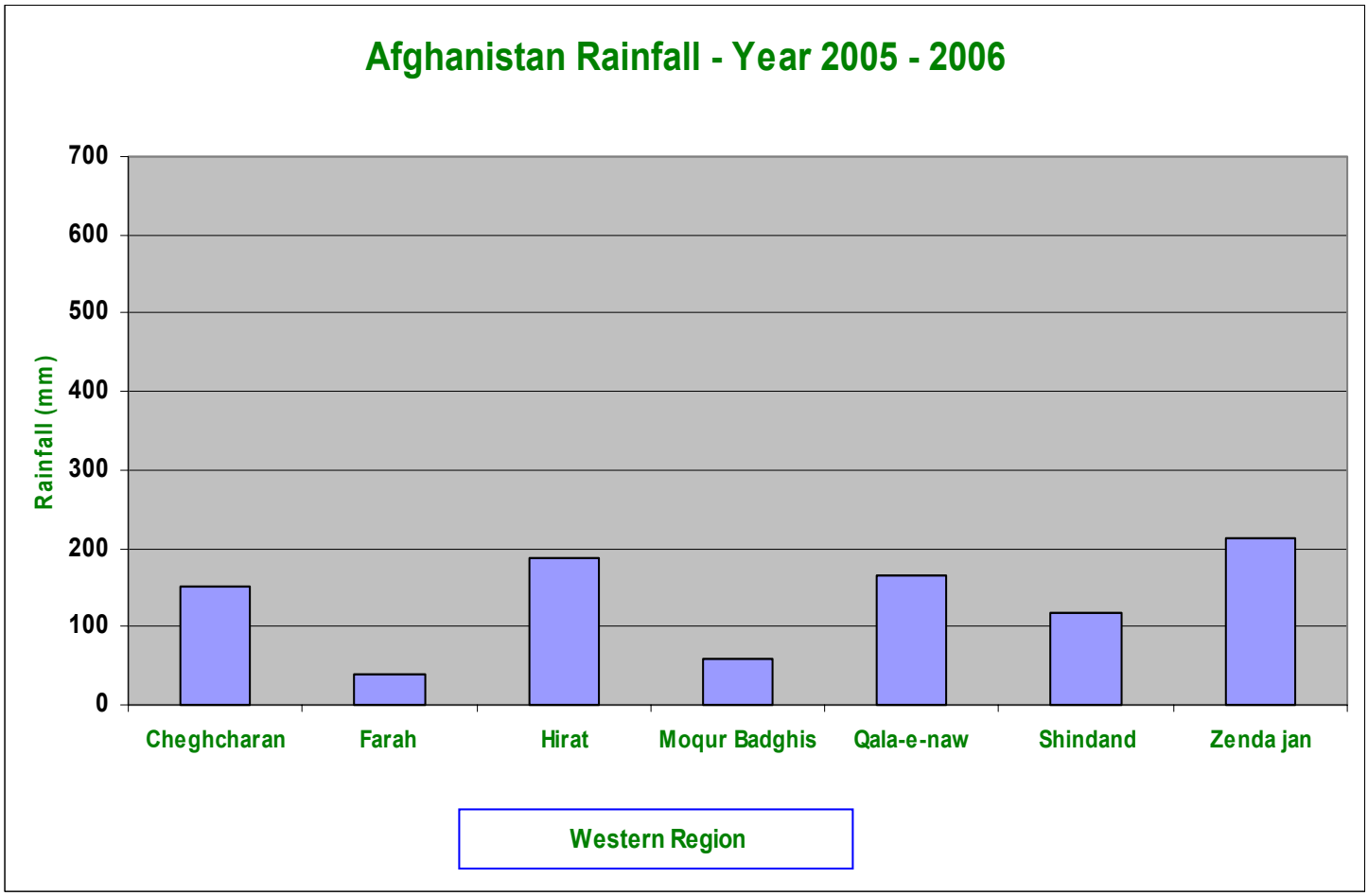


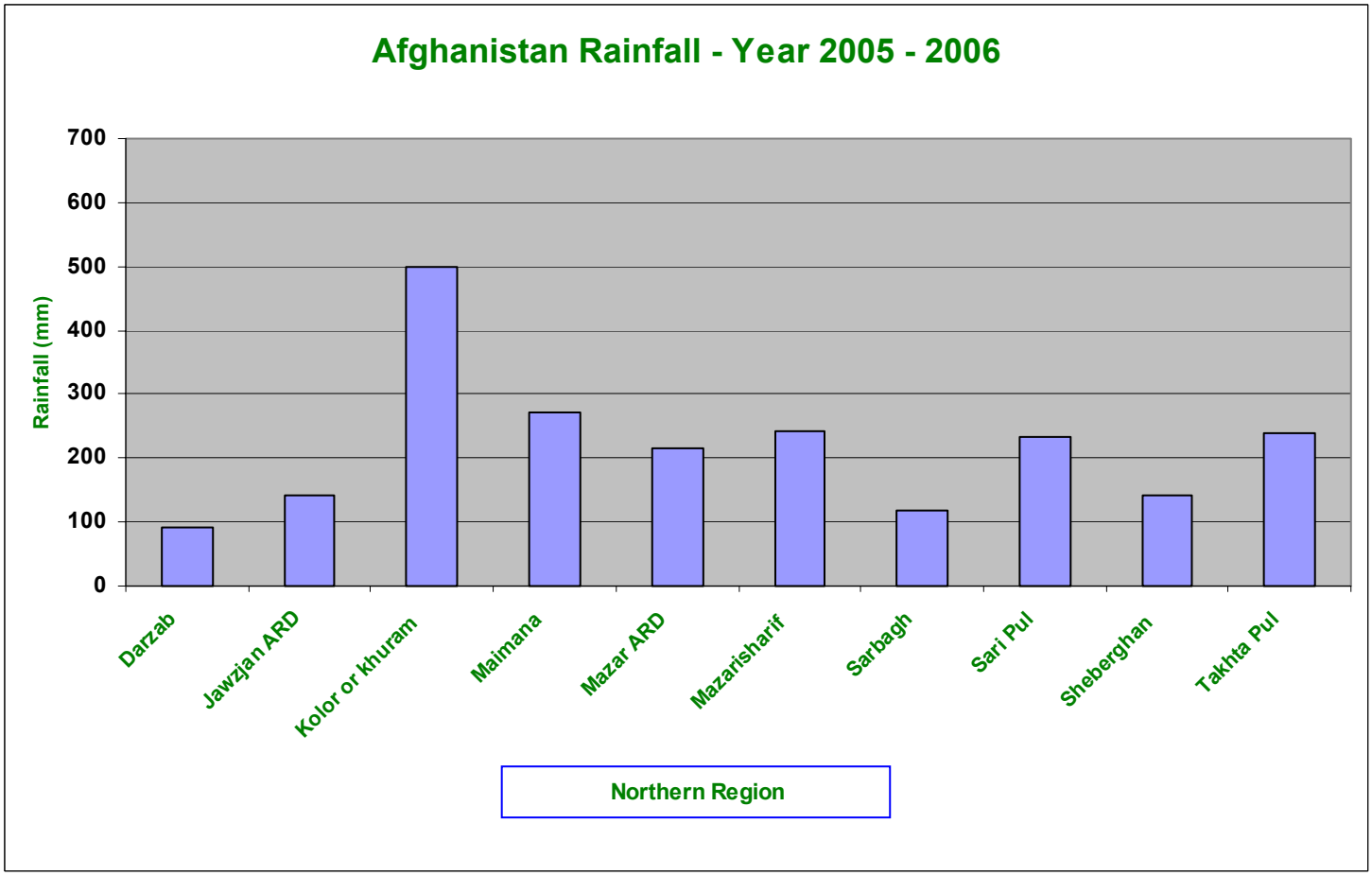

Afghanistan Rainfall - Year 2005 - 2006
Rainfall (mm)
700
600
500
400
300
200
100
0
Agam
Asad Abad
Asmar
Farm Jadeed
Ghazi Abad
Jalalabad
Laghman
Mehtarlam
Sheshambagh
Eastern Region


Afghanistan Rainfall - Year 2005 - 2006
Rainfall (mm)
700
600
500
400
300
200
100
0
Chardara
Aaqtepa
Baghlan
Baharak
Faizabad
Imam Sahib
Kunduz ARF
Taluqan
Aibak
North East Region


Afghanistan Rainfall - Year 2005 - 2006
Rainfall (mm)
700
600
500
400
300
200
100
0
Greshk
Kandahar
Lashkargah
Nad Ali
Nawa Gorgin
Uruzgan ARD
Zabul
Zaranj
Ghazni Met
Moqur
Sarday
Southern Region


Afghanistan Rainfall - Year 2005 - 2006
Rainfall (mm)
700
600
500
400
300
200
100
0
Gardiz
Khost
Rohani Baba
Sharana
Tera Forestry
South East Region


Afghanistan Rainfall - Year 2005 - 2006
Rainfall (mm)
700
600
500
400
300
200
100
0
Cheghcharan
Farah
Hirat
Moqur Badghis
Qala-e-naw
Shindand
Zenda jan
Western Region


Afghanistan Rainfall - Year 2005 - 2006
Rainfall (mm)
700
600
500
400
300
200
100
0
Darzab
Jawzjan ARD
Kolor or khuram
Maimana
Mazar ARD
Mazarisharif
Sarbagh
Sari Pul
Sheberghan
Takhta Pul
Northern Region

بارندگی مجموعی
فصل (۲۰۰۵ - ۲۰۰۶)

به ملی متر

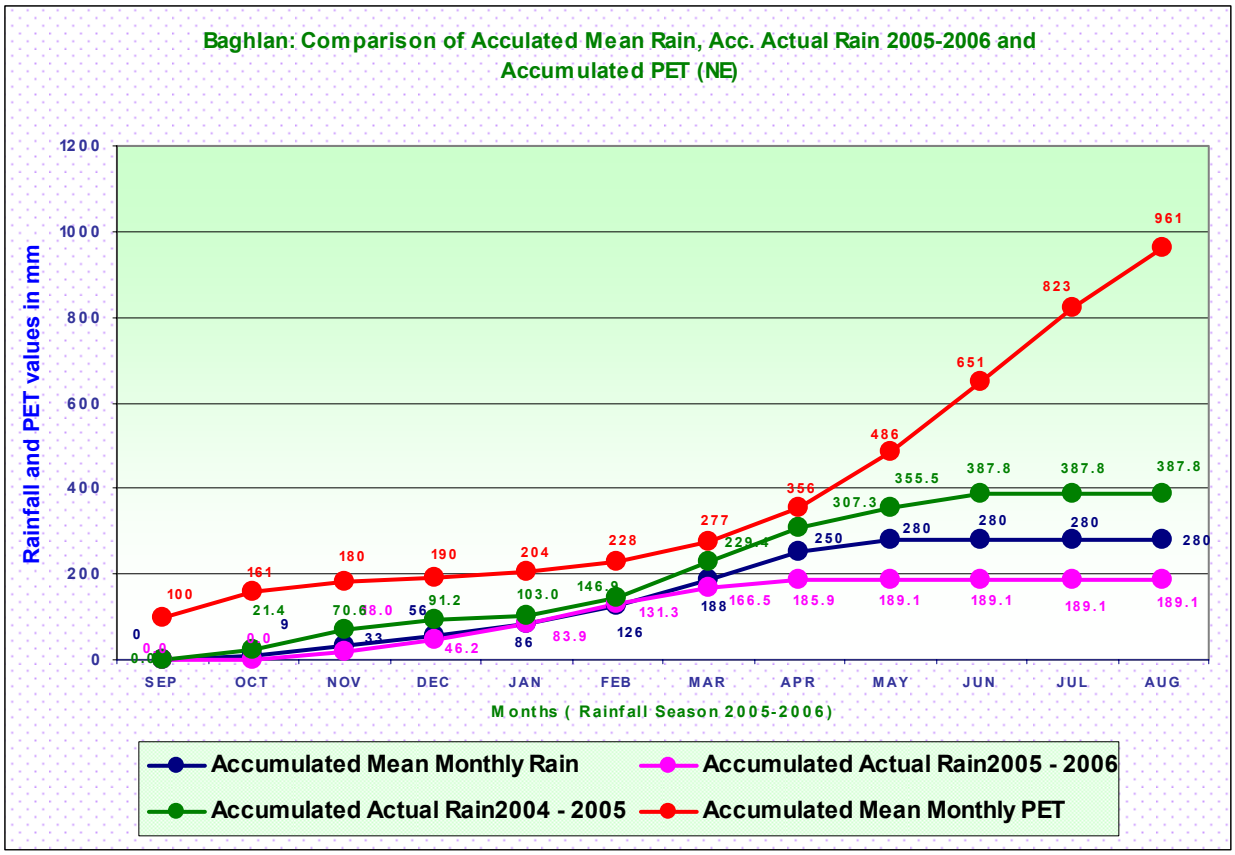
مقایسه با :

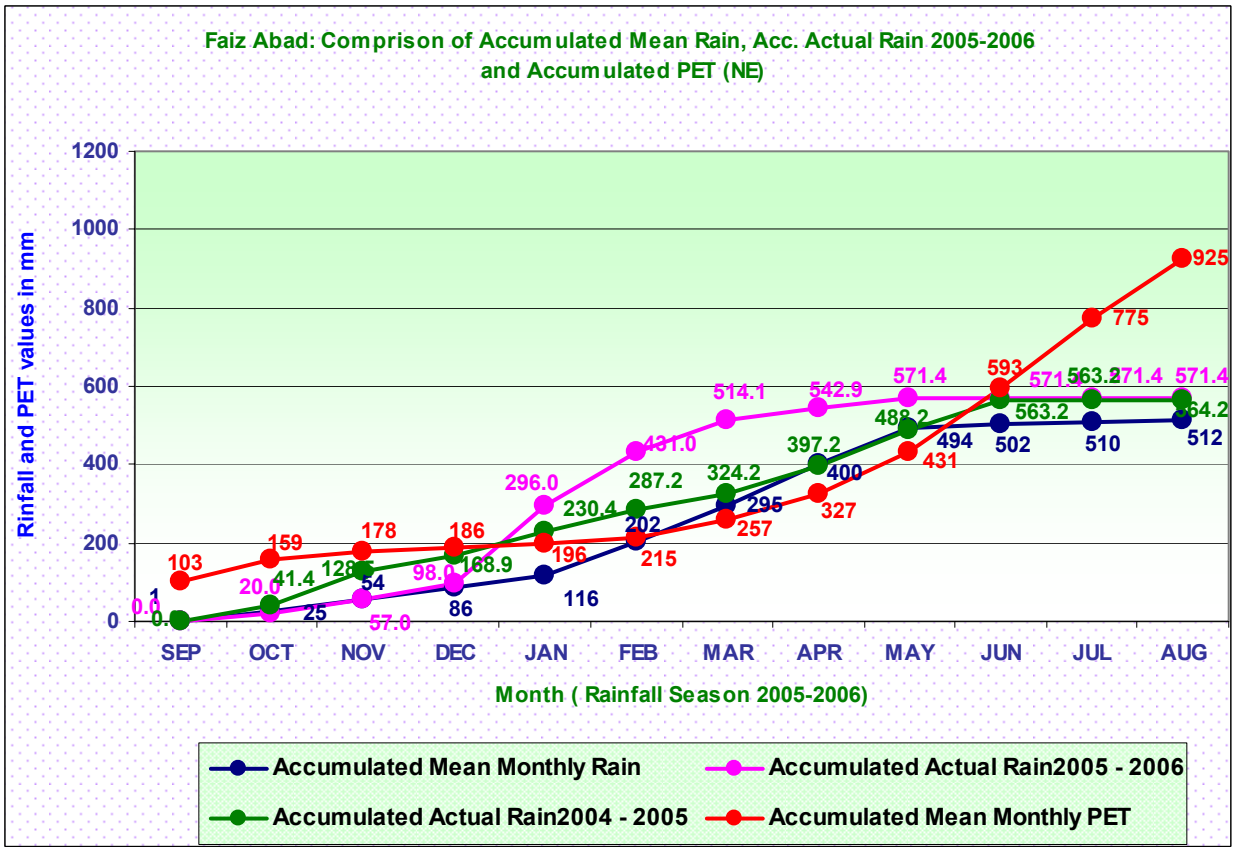
. سال قبل .

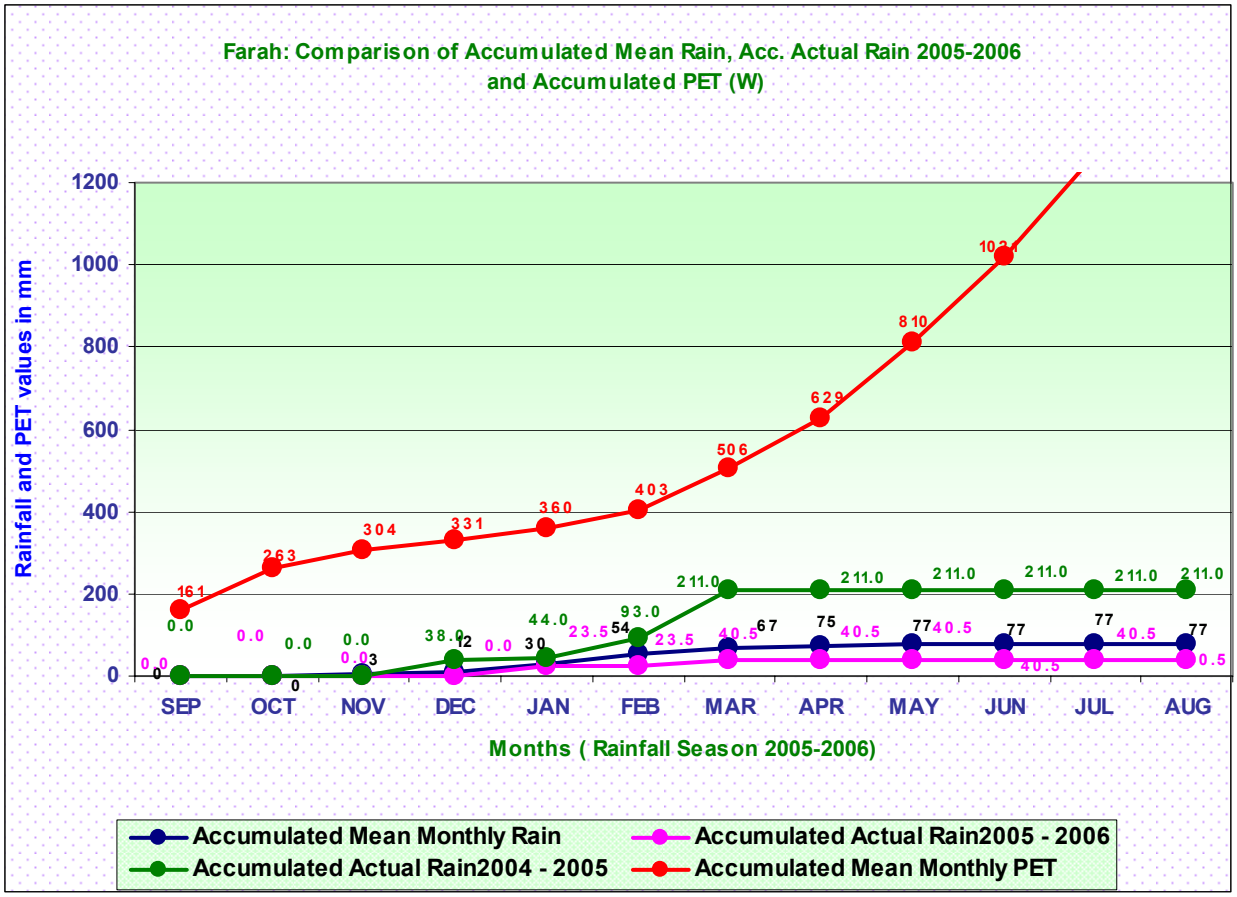
. پوتانسیل تبخیر و تعرق.

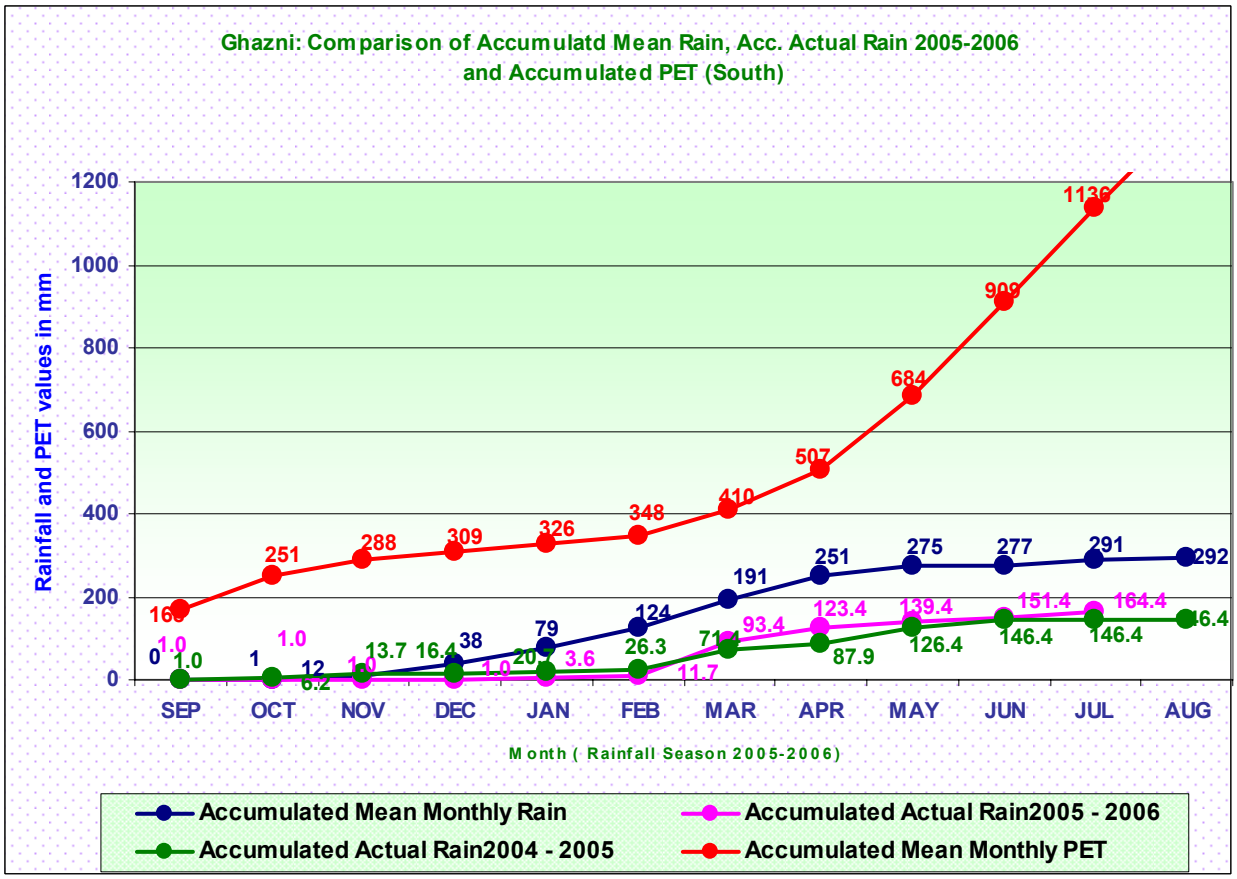
. اوسط درازمدت.

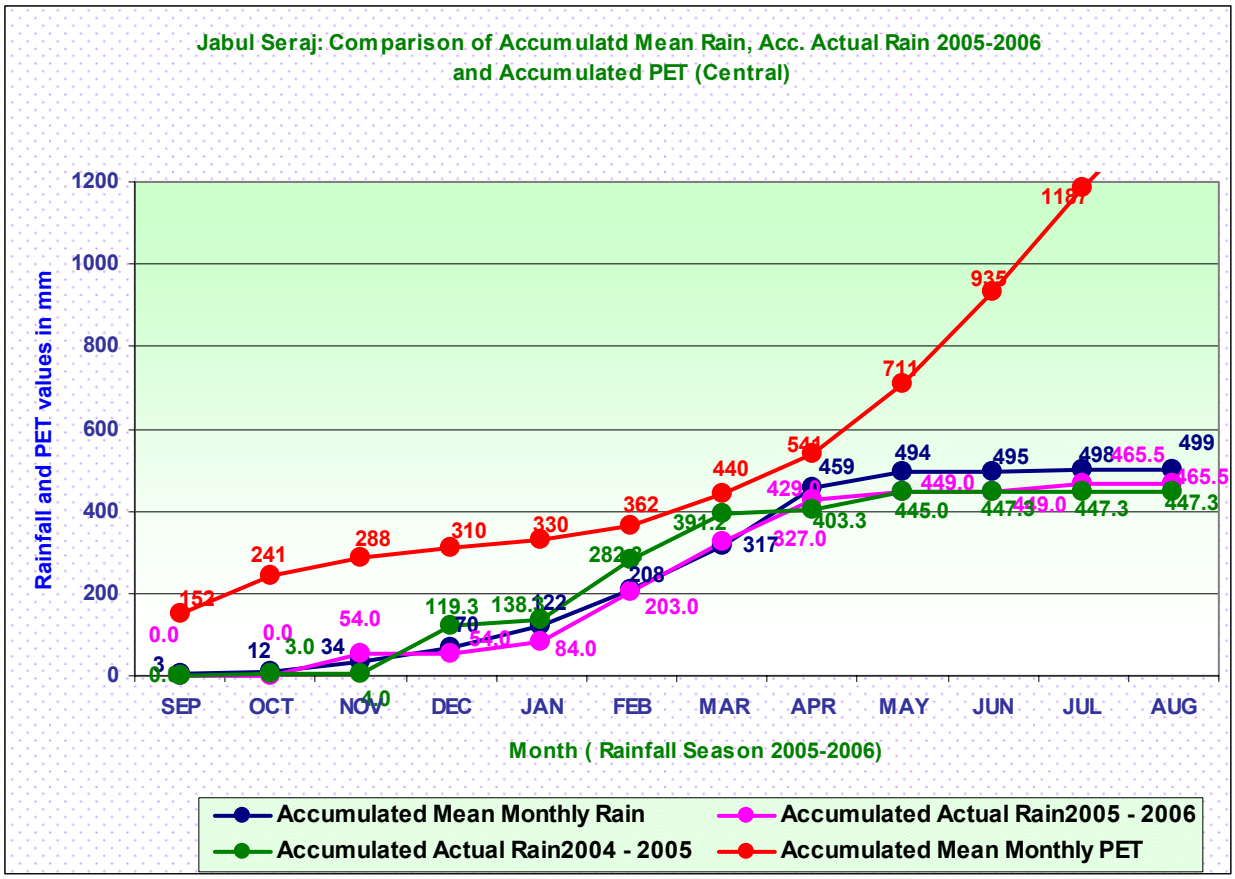
Accumulated Rainfall Comparison Graphs

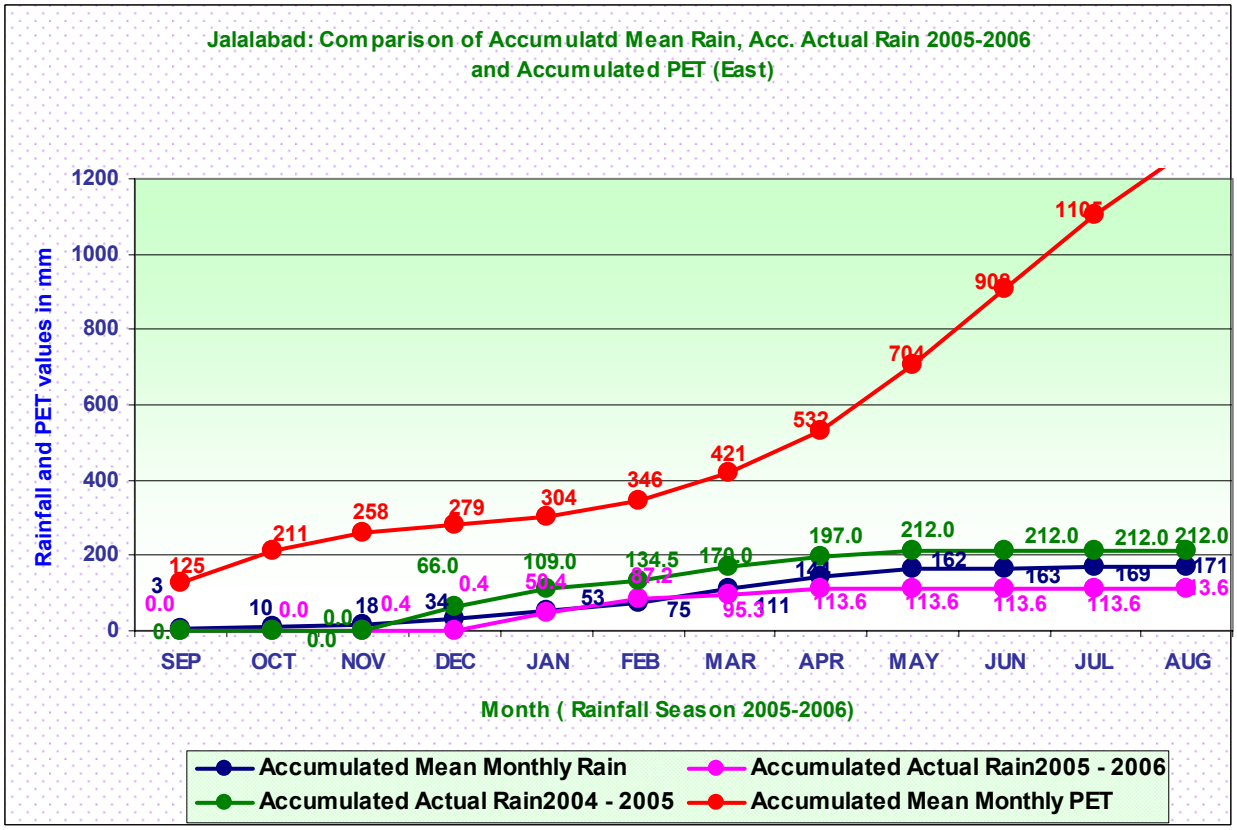


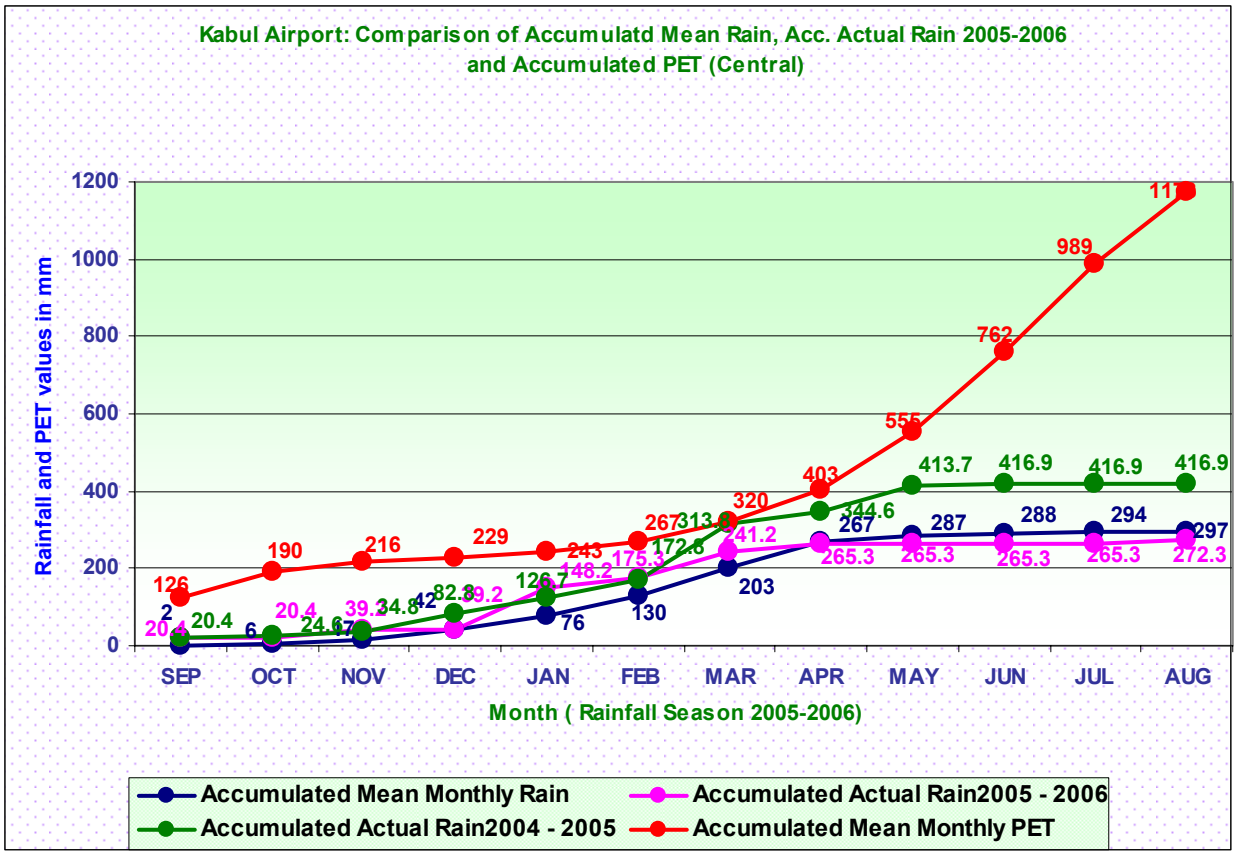


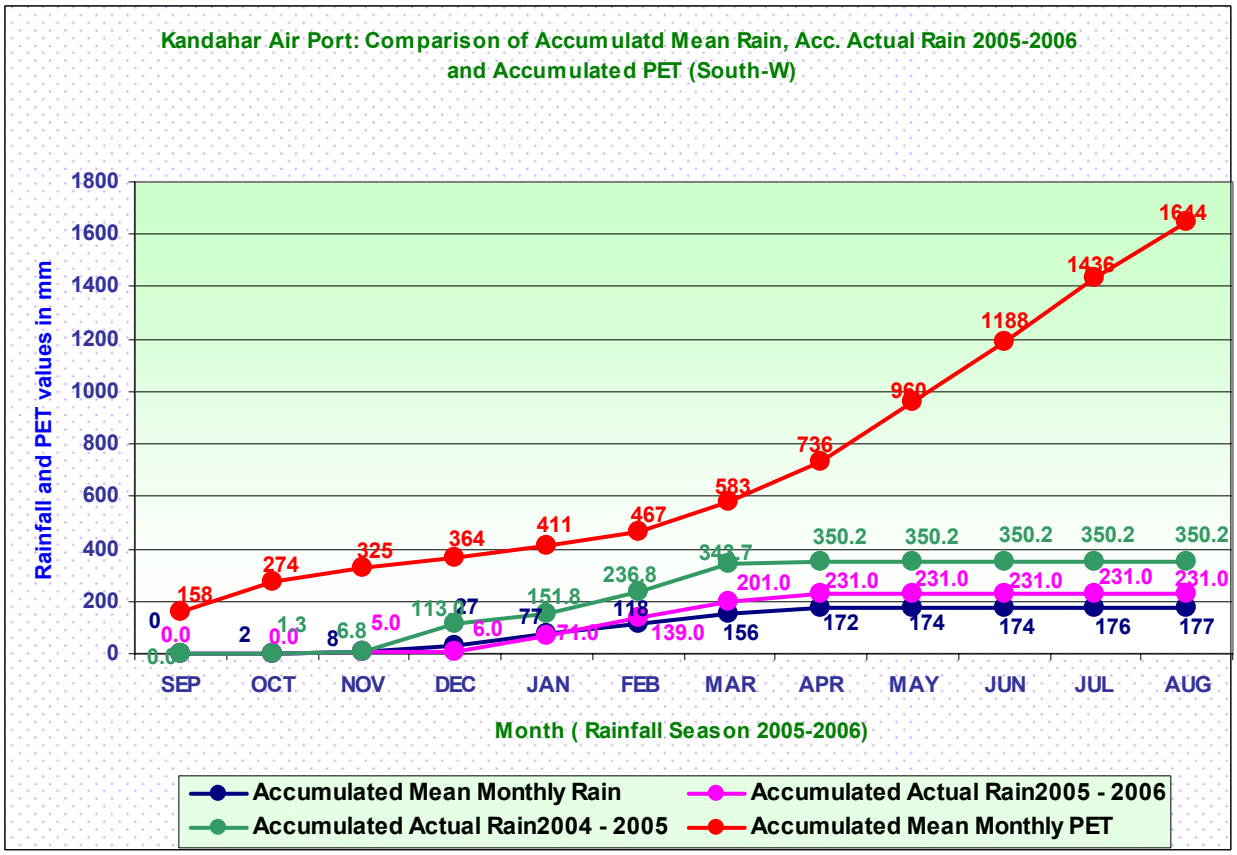

Farah: Comparison of Accumulated Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (W)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Months (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

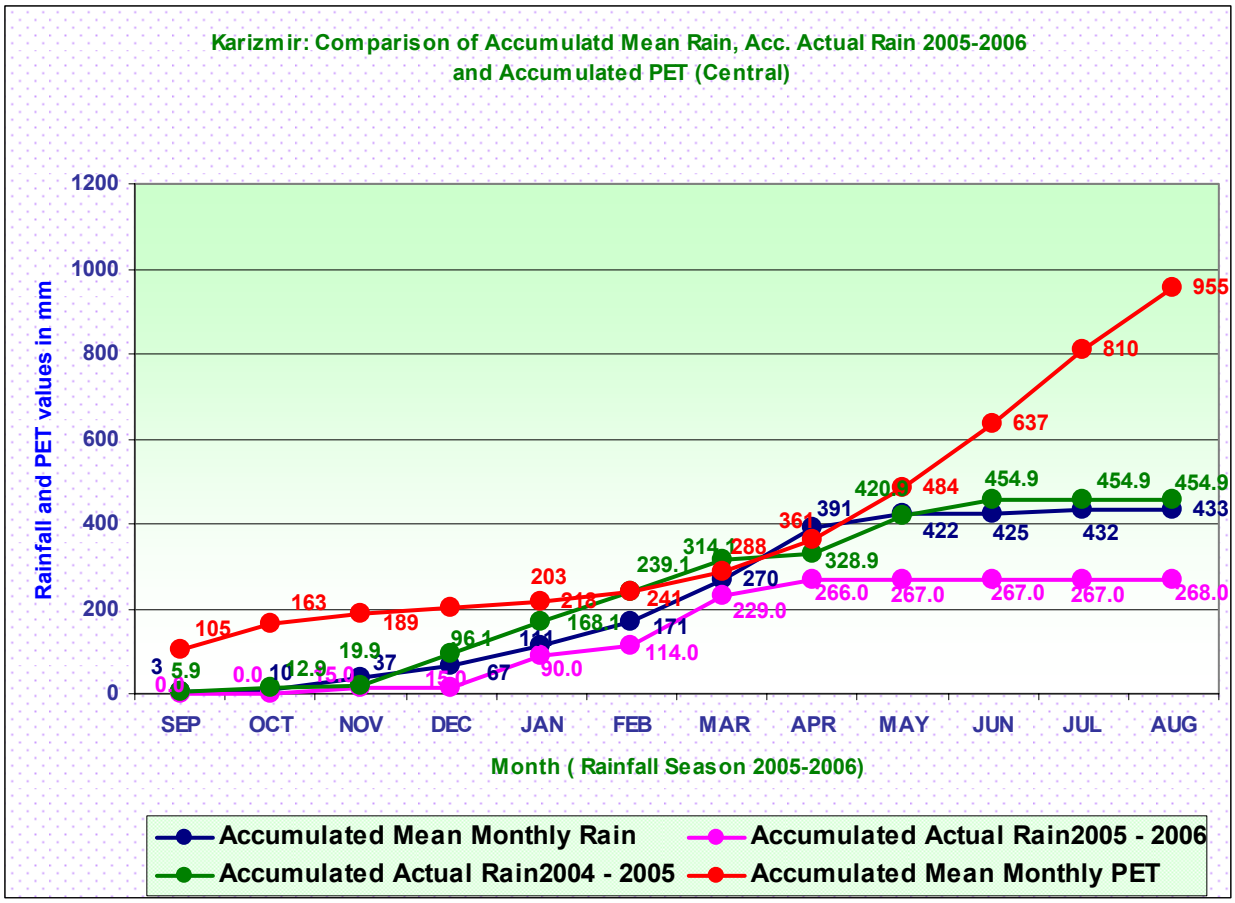

Ghazni: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (South)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

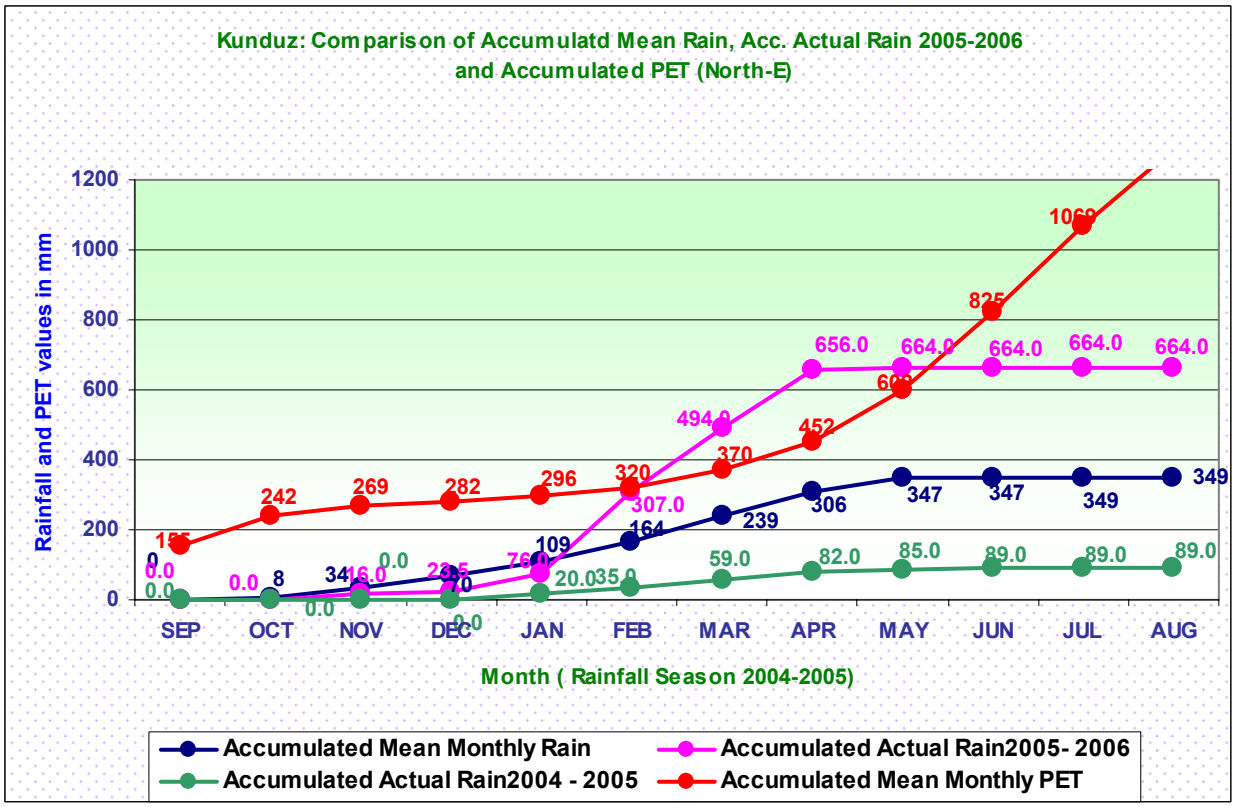

Jabul Seraj: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

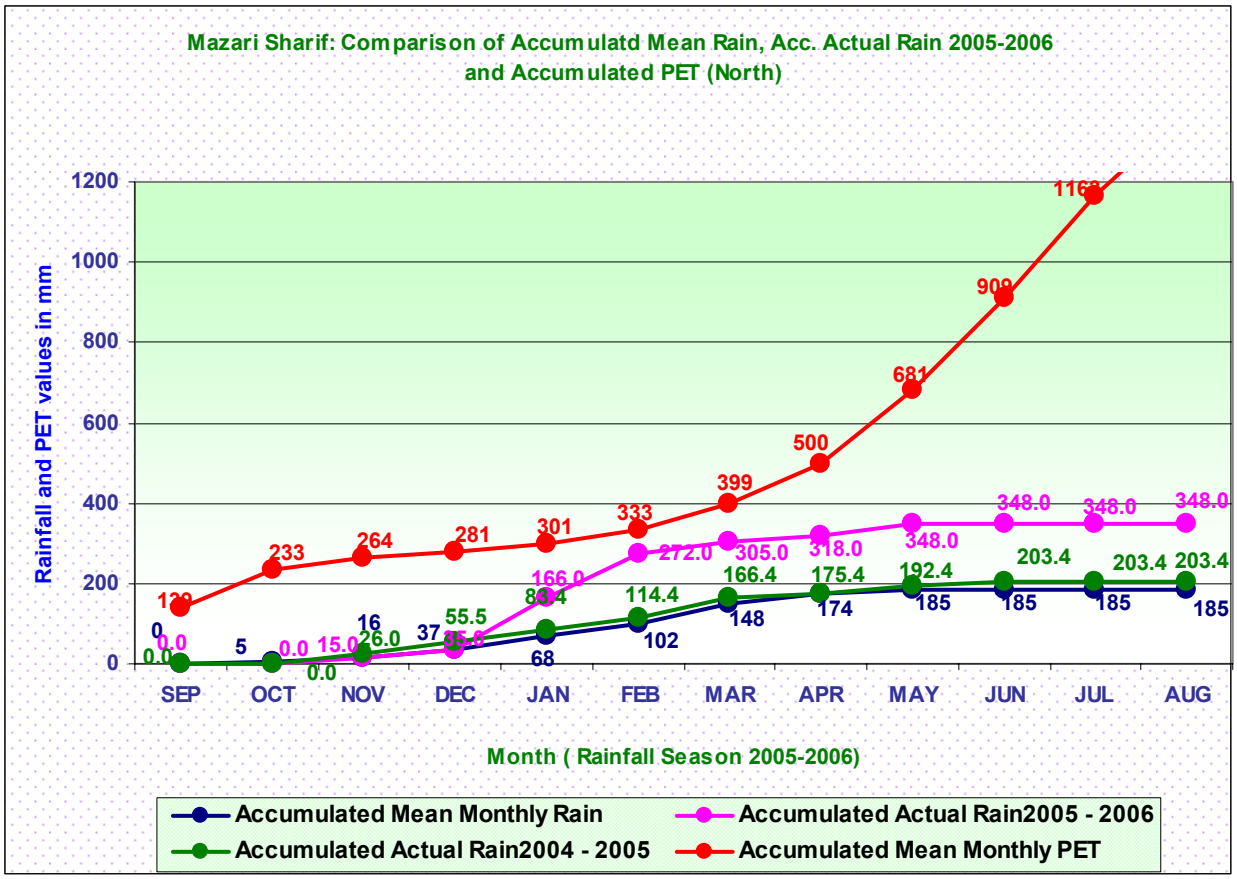

Jalalabad: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (East)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

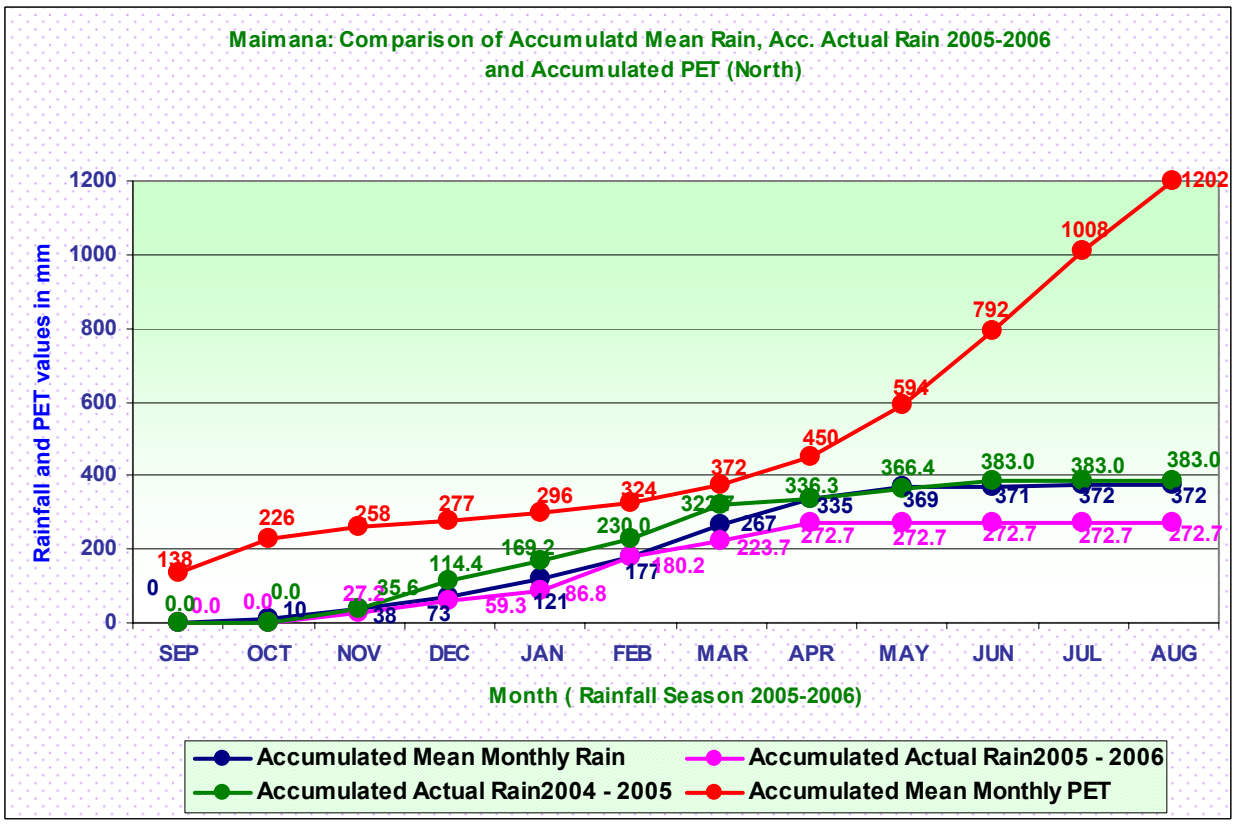

Kabul Airport: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

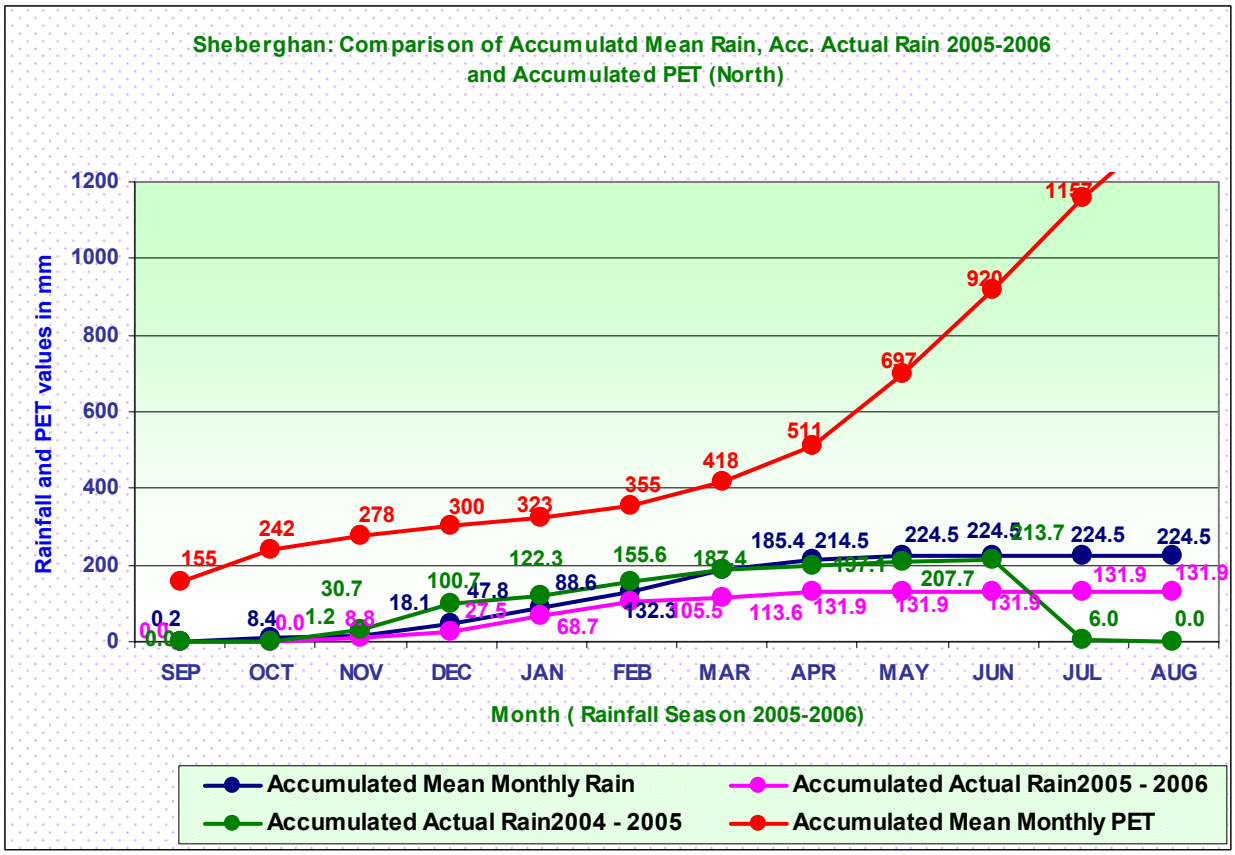

Kandahar Air Port: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (South-W)
Rainfall and PET values in mm
1800
1600
1400
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

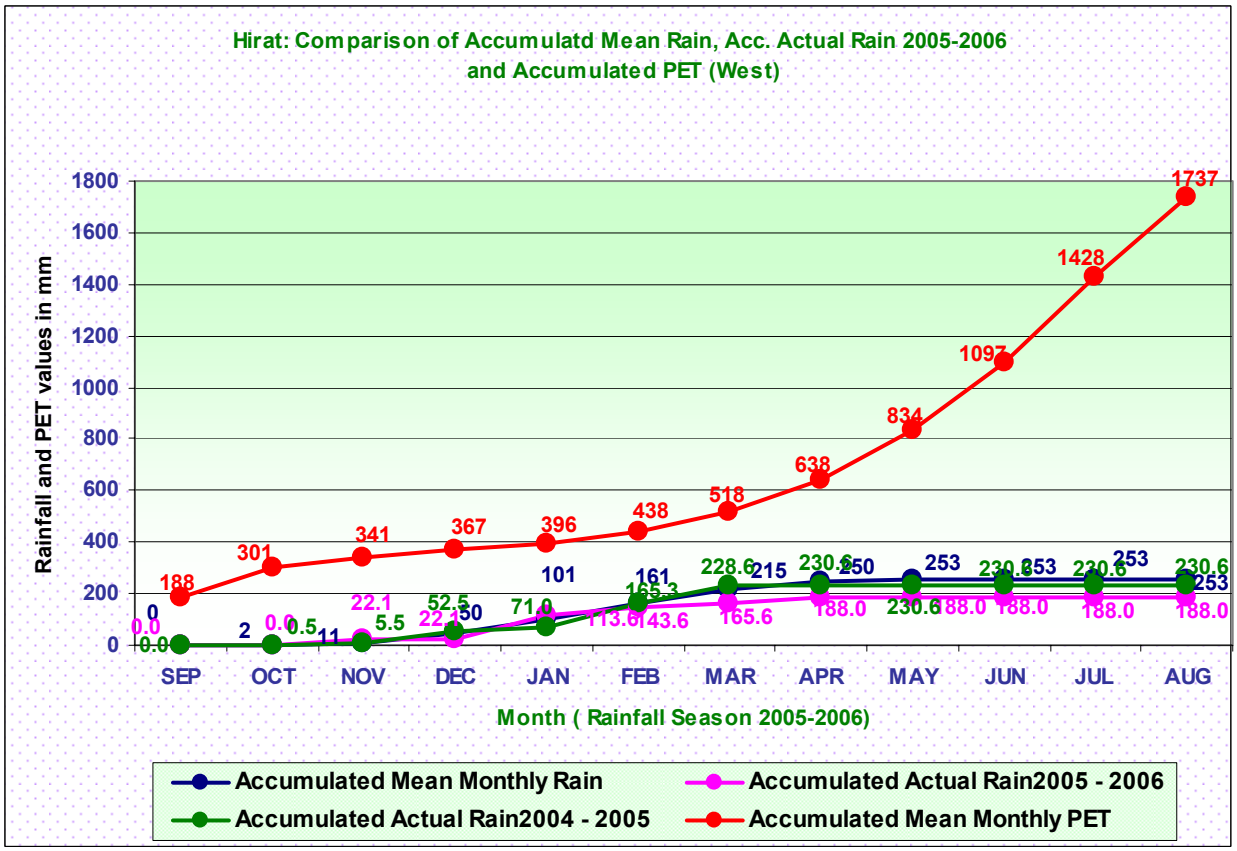

Karizmir: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

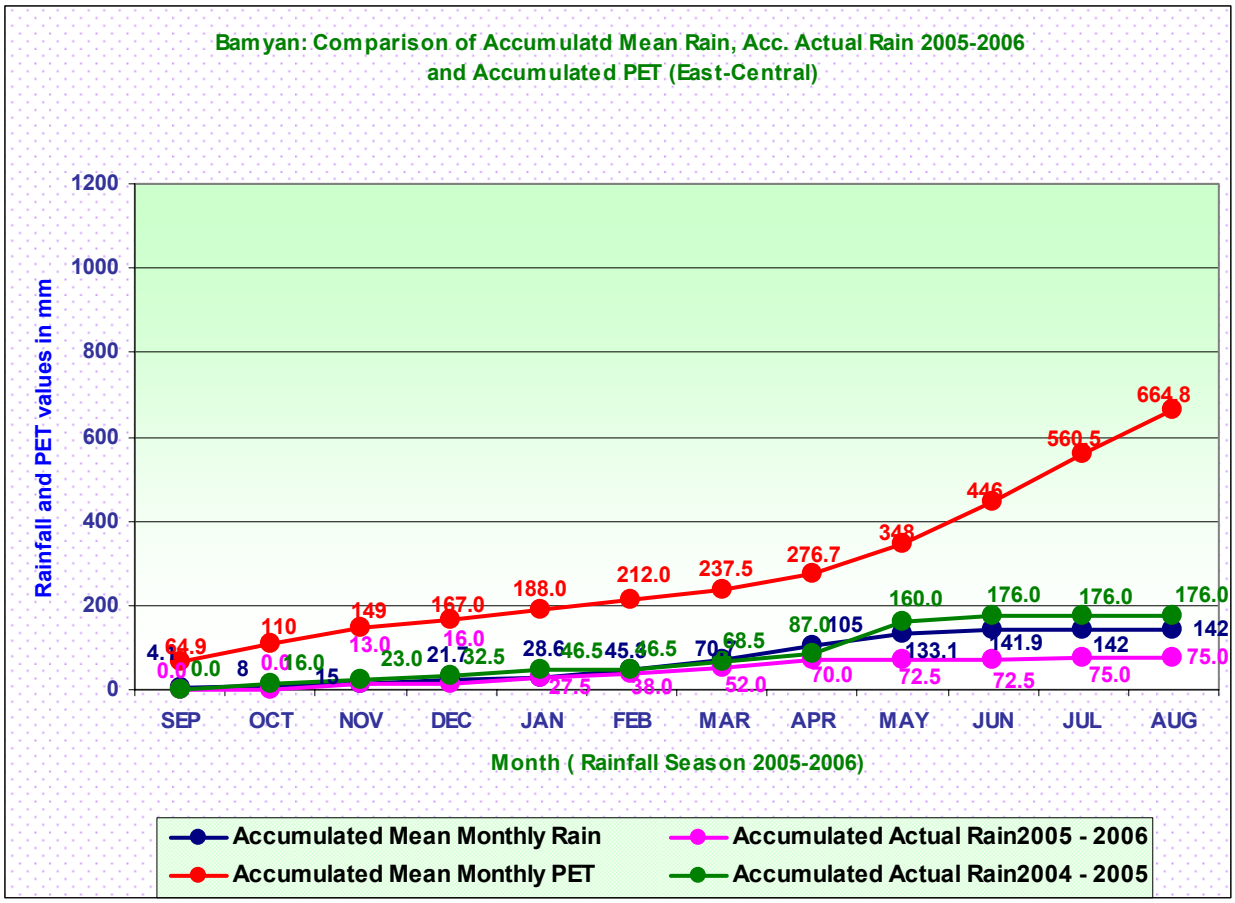

Kunduz: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (North-E)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2004-2005)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005- 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

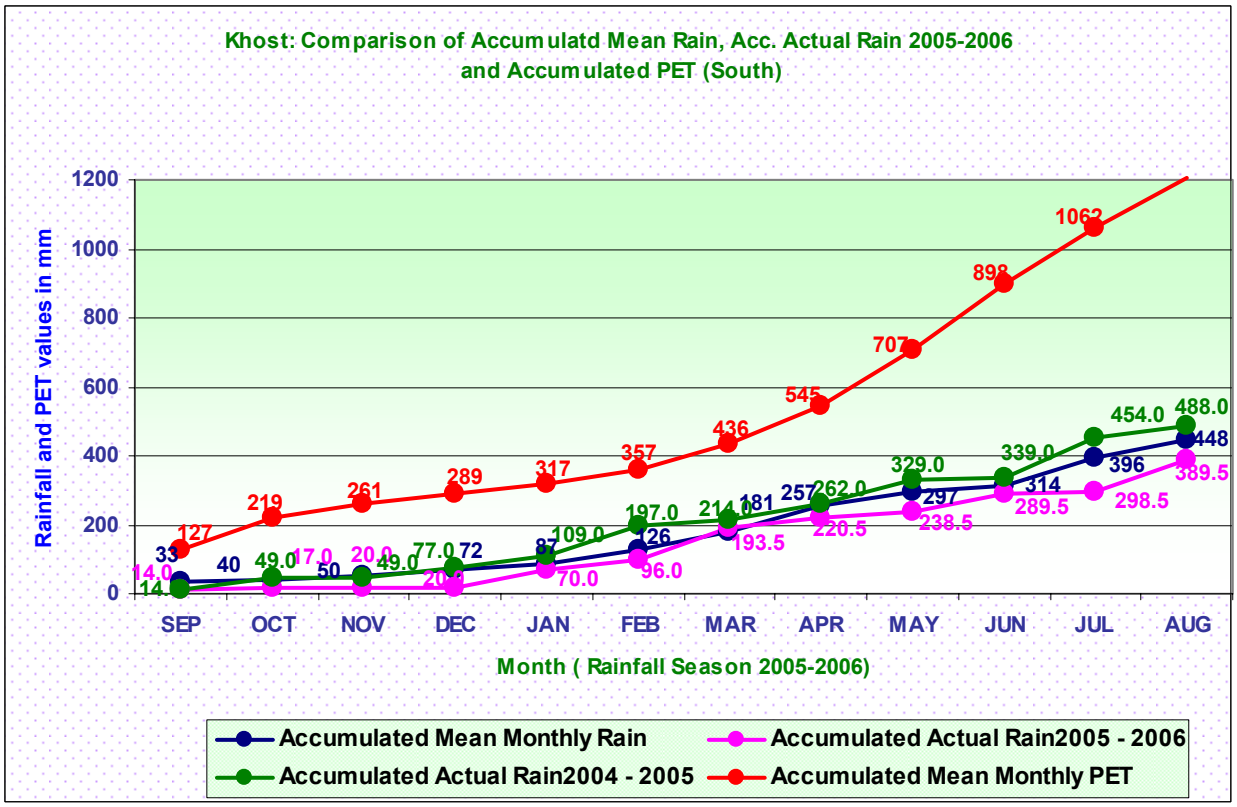

Mazari Sharif: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (North)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

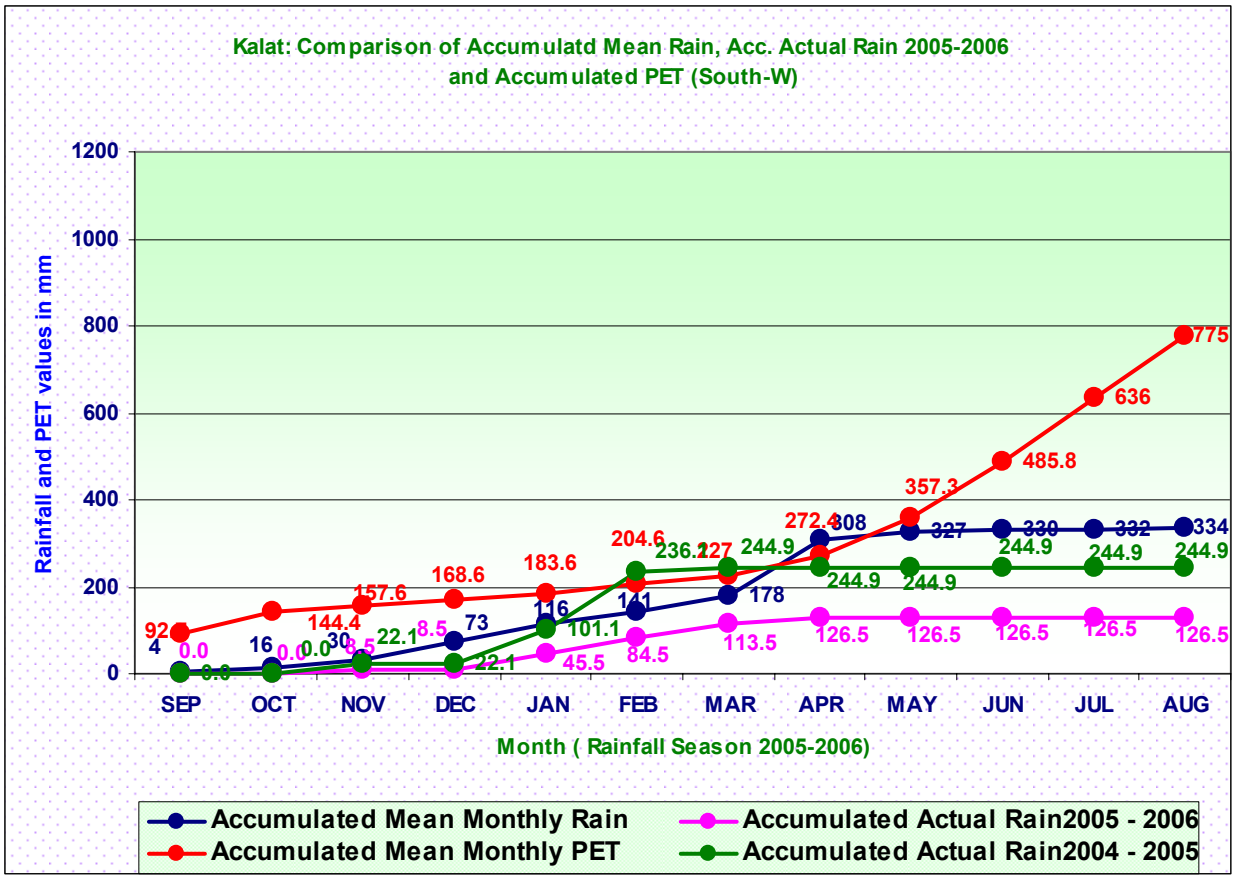

Maimana: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (North)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

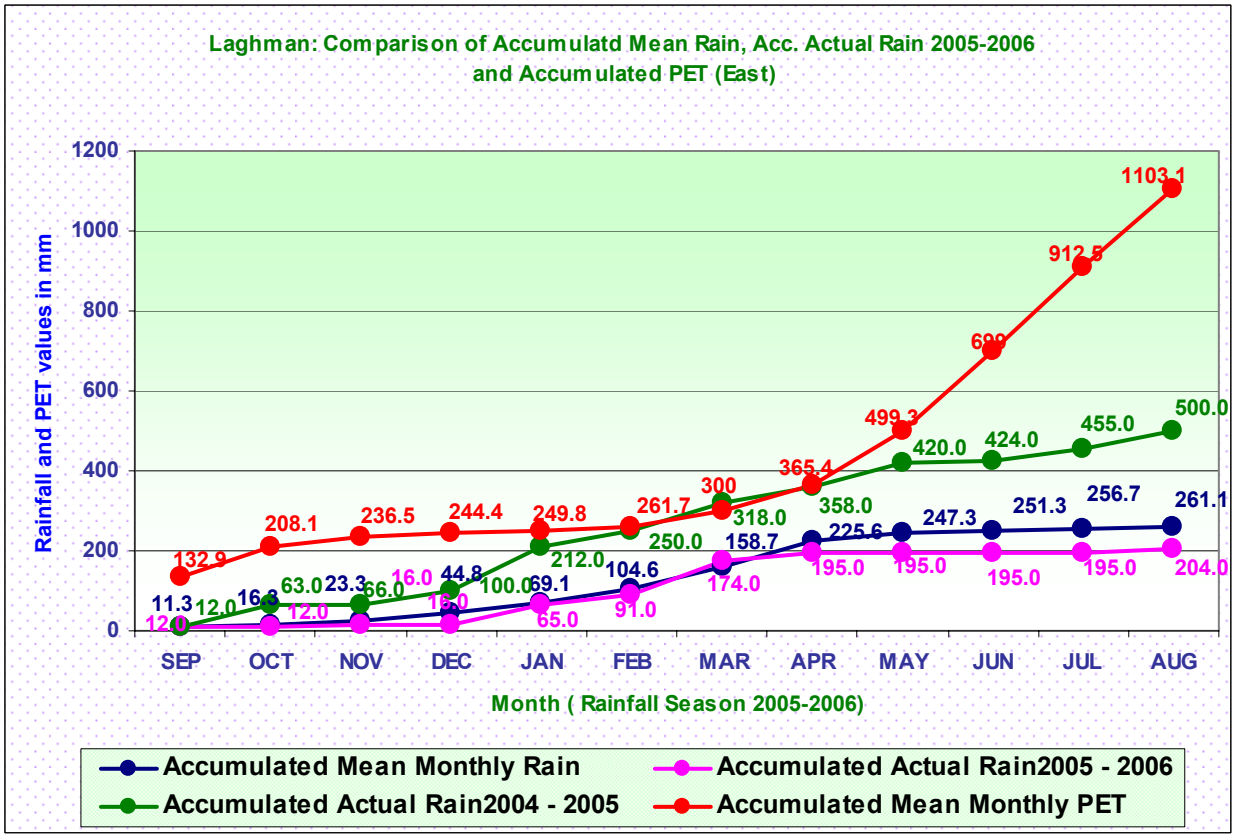

Sheberghan: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (North)
Rainfall and PET values in mm
Month (Rainfall Season 2005-2006)
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

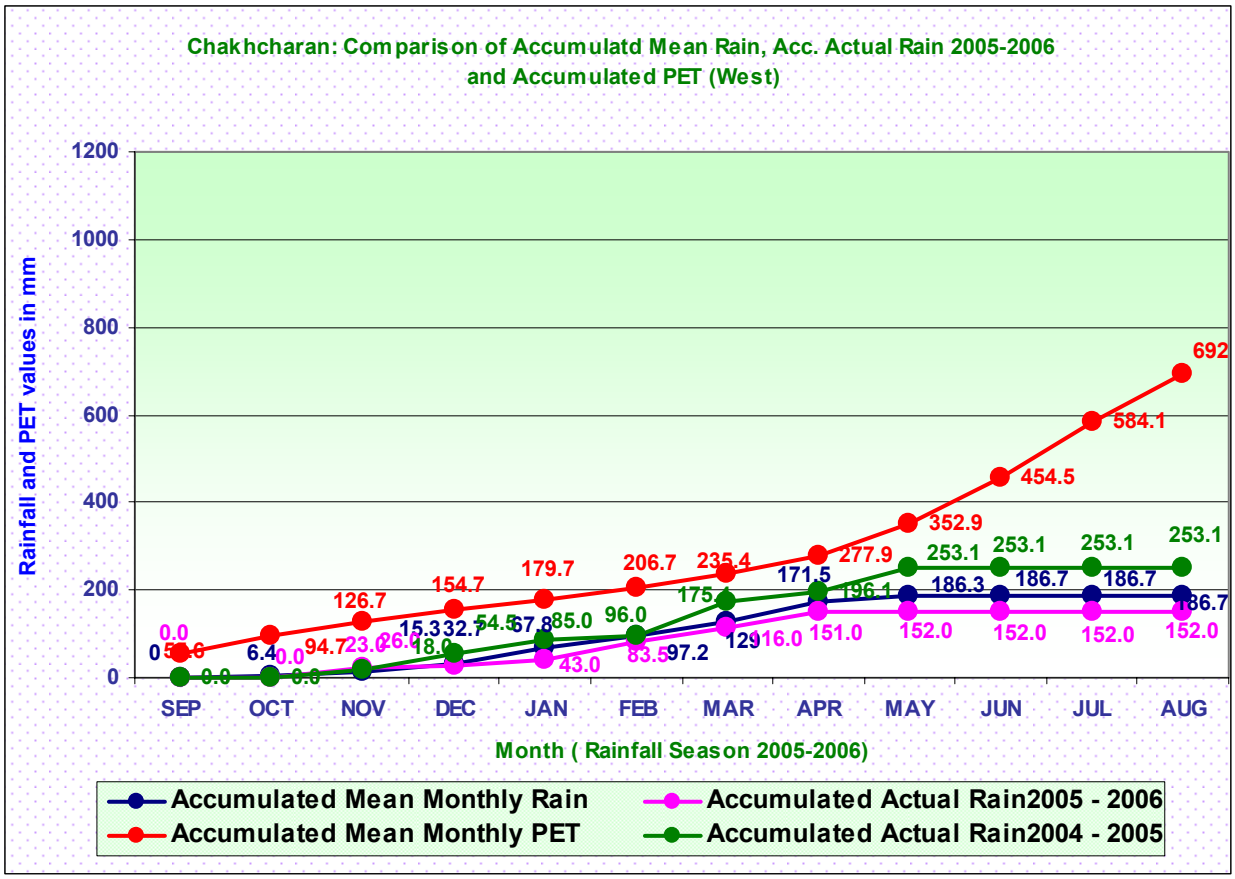

Hirat: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (West)
Rainfall and PET values in mm
Month (Rainfall Season 2005-2006)
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

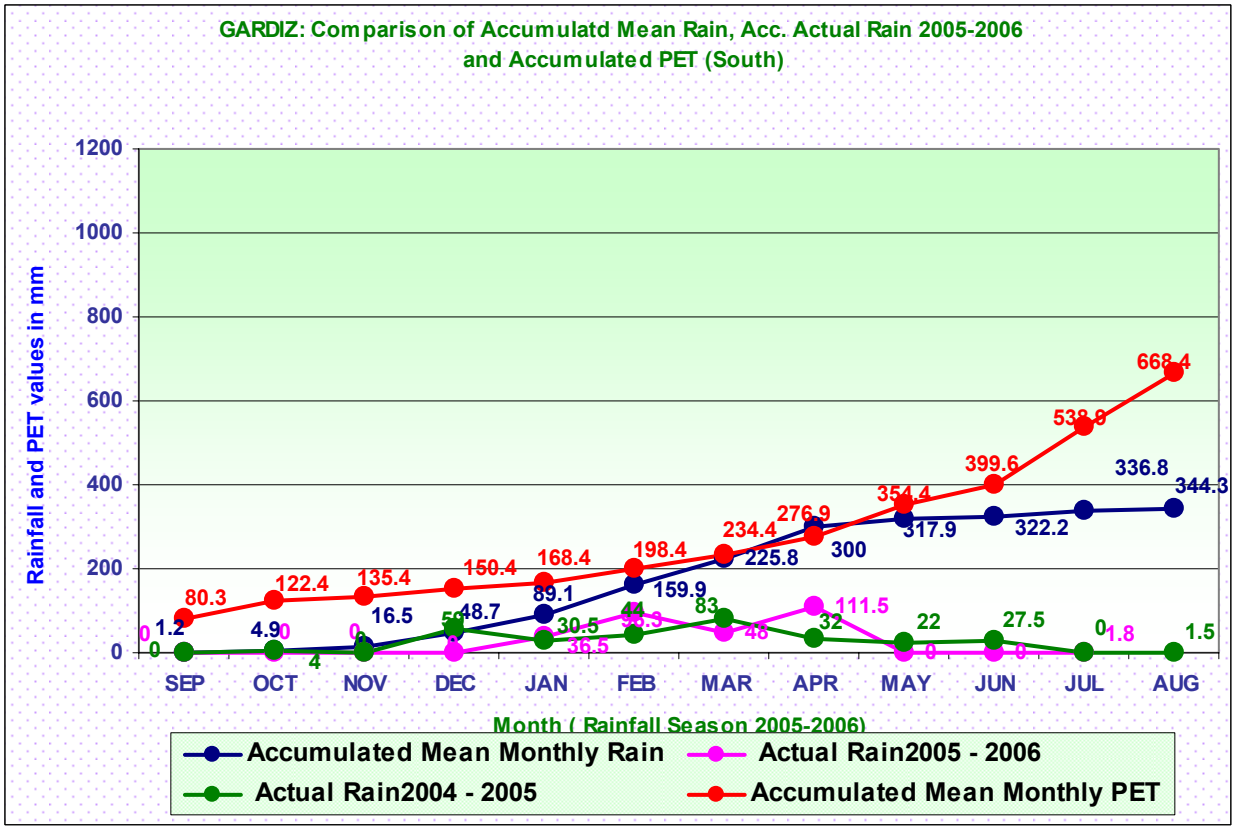

Bamyan: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (East-Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET
Accumulated Actual Rain2004 - 2005

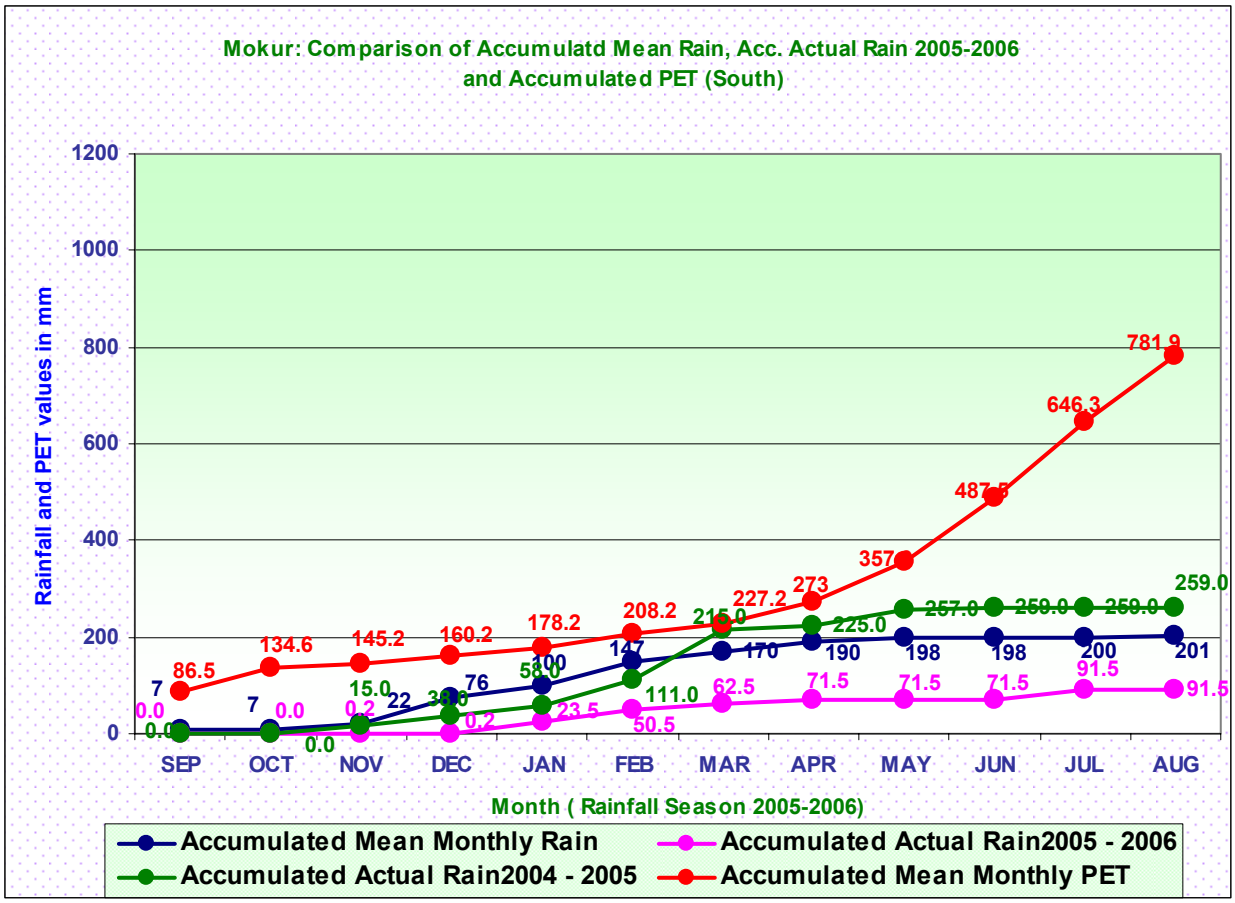

Khost: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (South)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

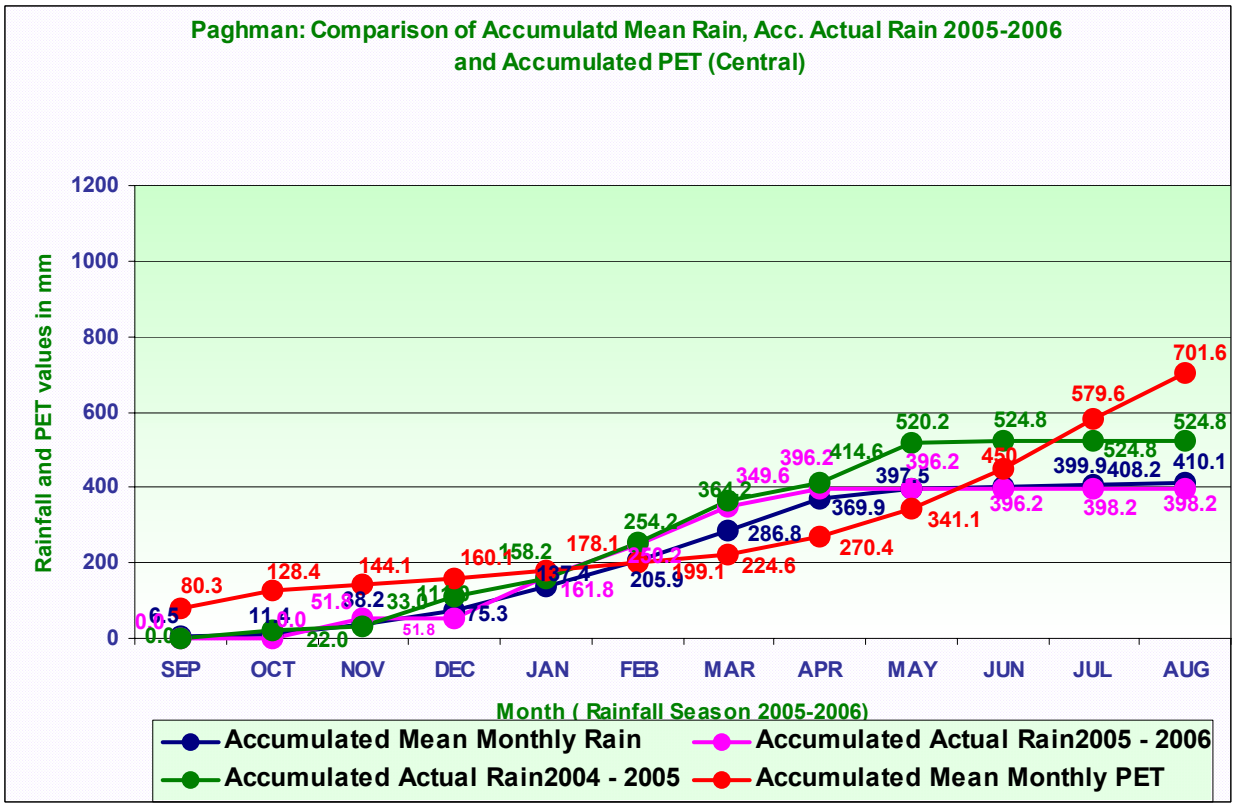

Kalat: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (South-W)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET
Accumulated Actual Rain2004 - 2005

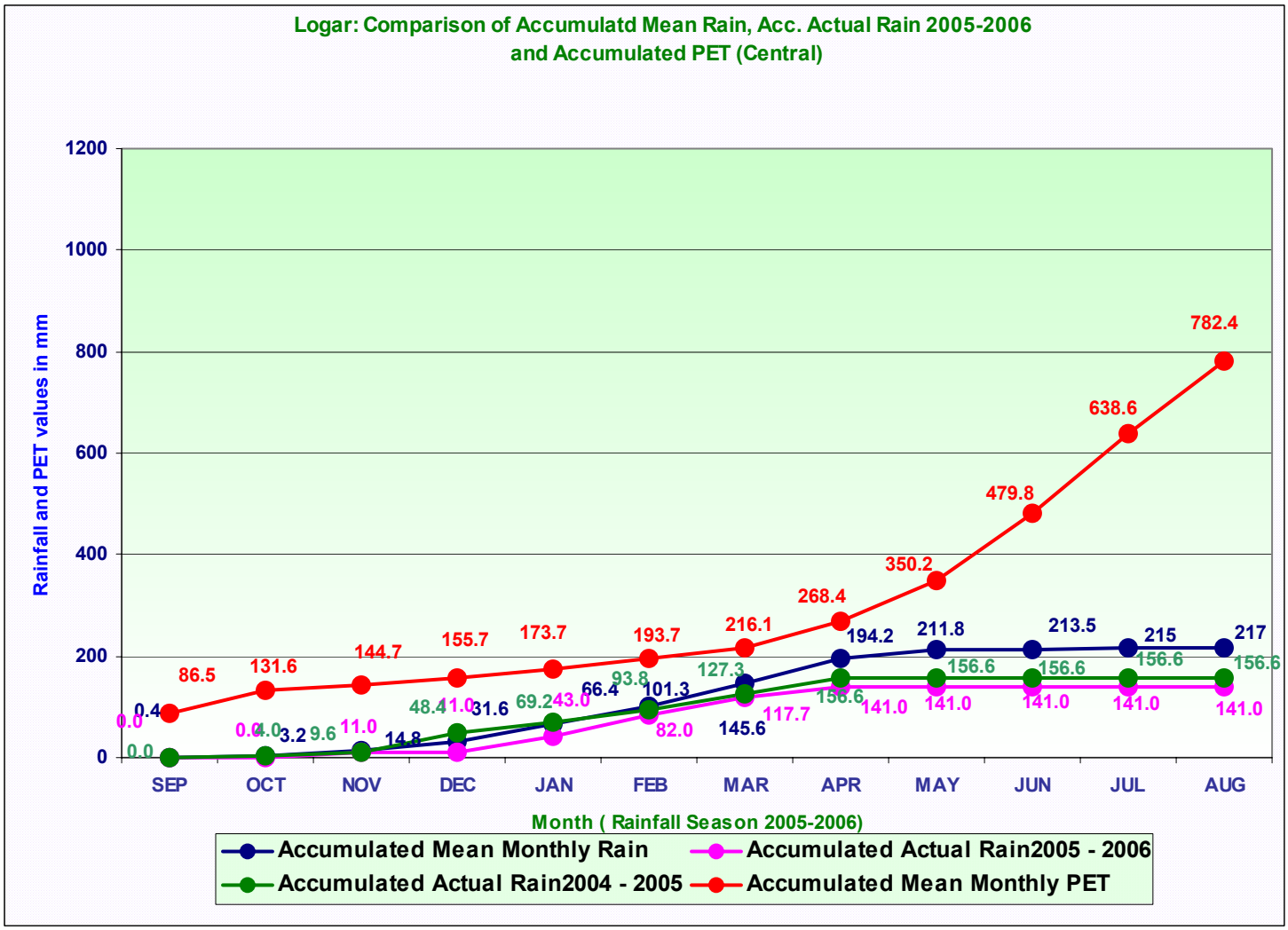

Laghman: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (East)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET


Chakhcharan: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
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 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Mean Monthly PET
Accumulated Actual Rain2004 - 2005


GARDIZ: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
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 2005-2006)
Accumulated Mean Monthly Rain
Actual Rain2005 - 2006
Actual Rain2004 - 2005
Accumulated Mean Monthly PET


Mokur: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
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 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

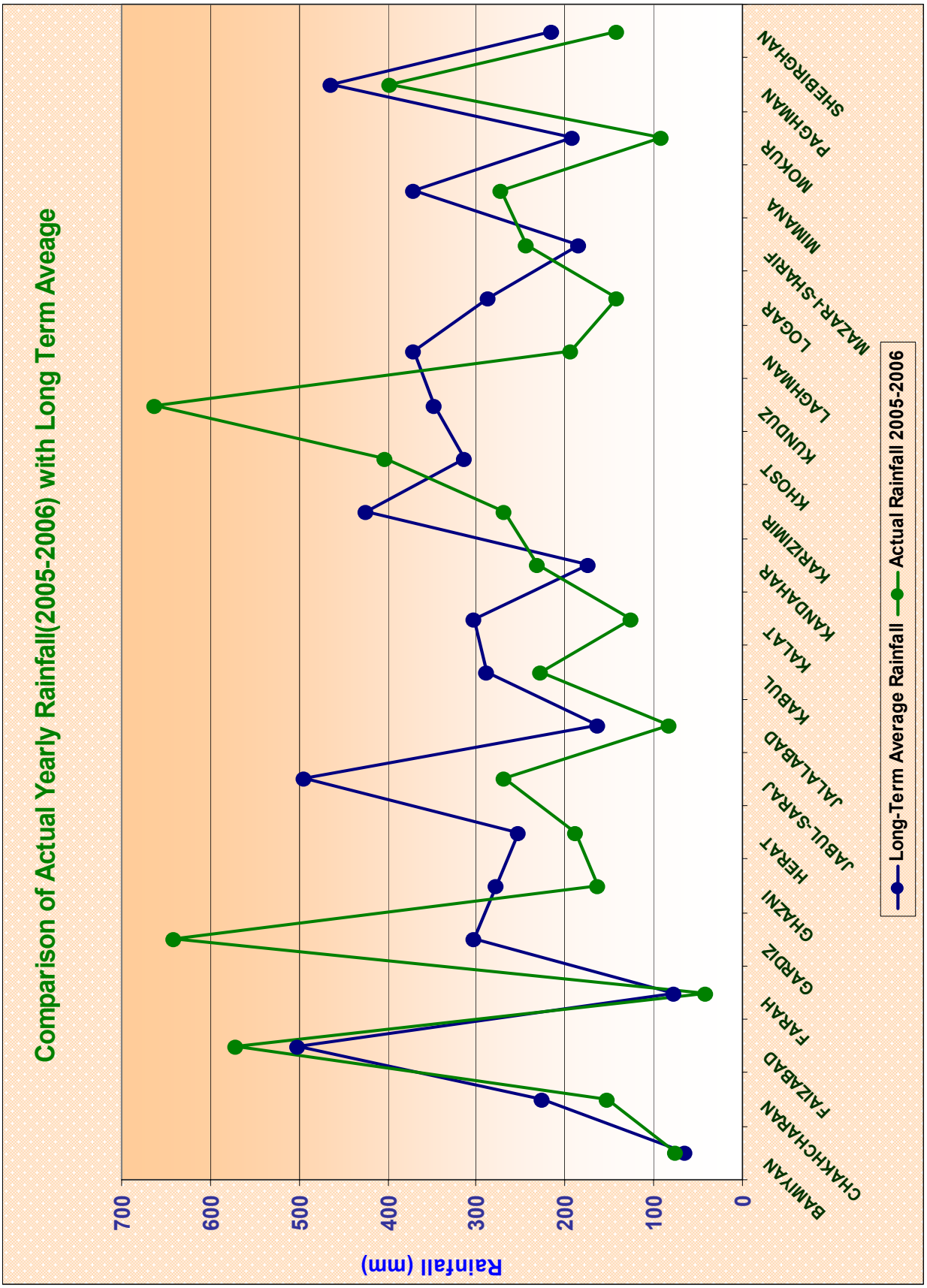

Paghman: Comparison of Accumulatd Mean Rain, Acc. Actual Rain 2005-2006
and Accumulated PET (Central)
Rainfall and PET values in mm
1200
1000
800
600
400
200
0
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Month (Rainfall Season 2005-2006)
Accumulated Mean Monthly Rain
Accumulated Actual Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET


Logar: 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 Rain2005 - 2006
Accumulated Actual Rain2004 - 2005
Accumulated Mean Monthly PET

مقایسه بارندگی فصل (۲۰۰۵-۲۰۰۶)

با

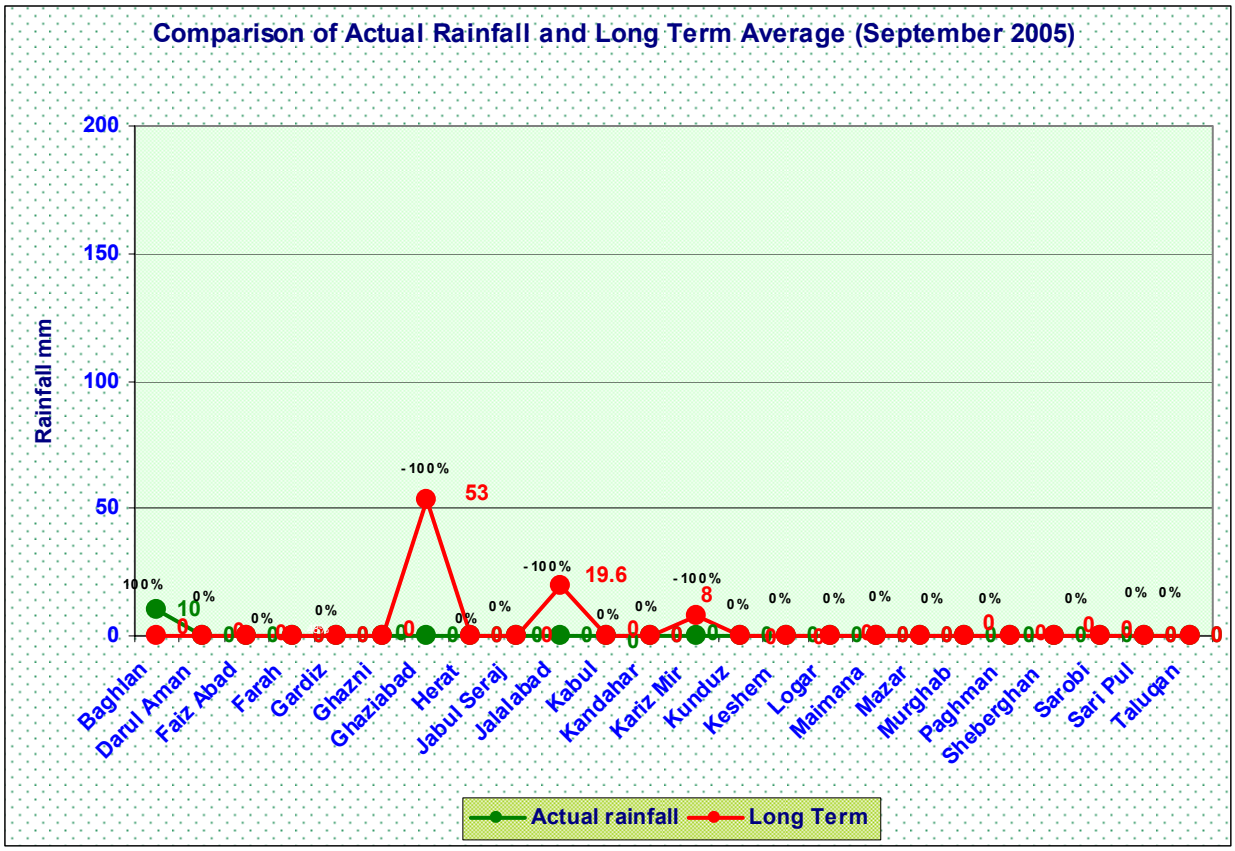
اوسط درازمدت
(به ملی متر)

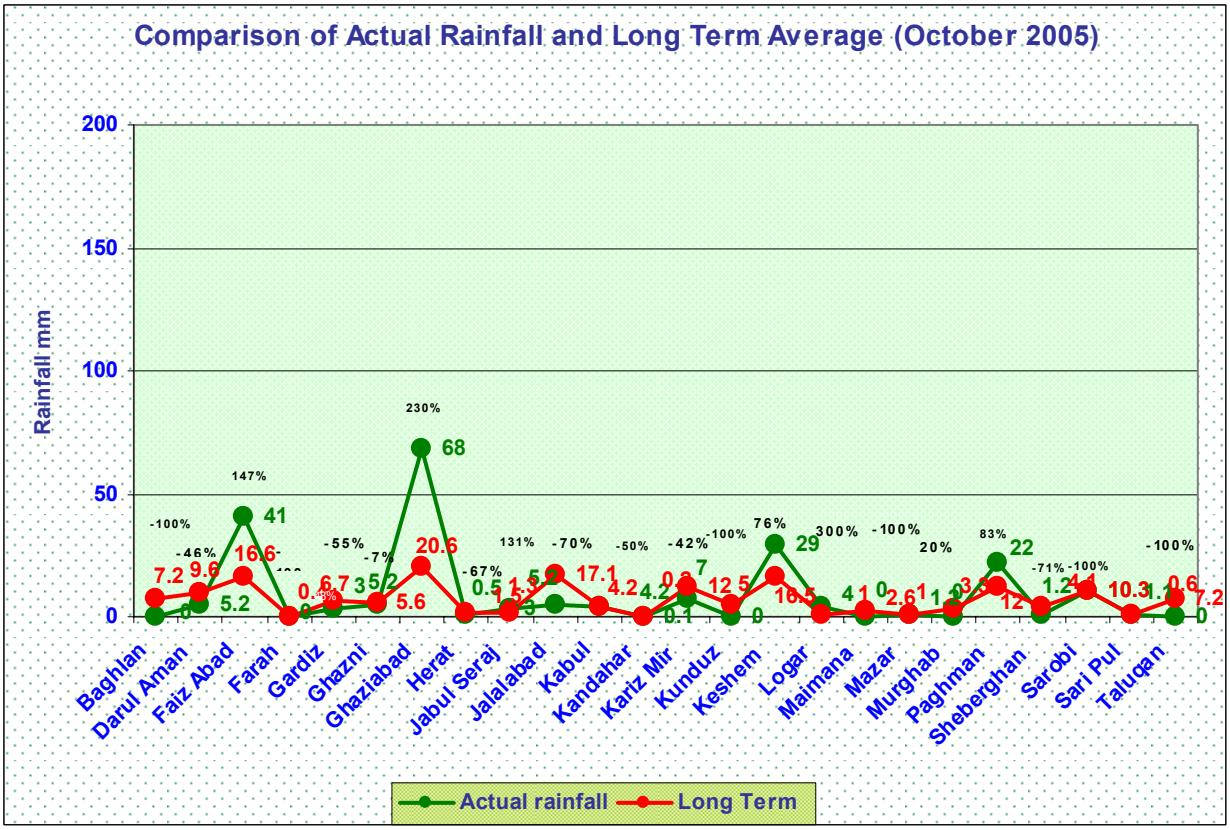

Comparison of Actual Yearly Rainfall(2005-2006) with Long Term Aveage
Rainfall (mm)
700
600
500
400
300
200
100
0
BAMIYAN
CHAKHCHARAN
FAIZABAD
FARAH
GARDIZ
GHAZNI
HERAT
JABUL-SARAJ
JALALABAD
KABUL
KALAT
KANDAHAR
KARIZIMIR
KHOST
KUNDUZ
LAGHMAN
LOGAR
MAZAR-I-SHARIF
MIMANA
MOKUR
PAGHMAN
SHEBIRGHAN
Long-Term Average Rainfall
Actual Rainfall 2005-2006

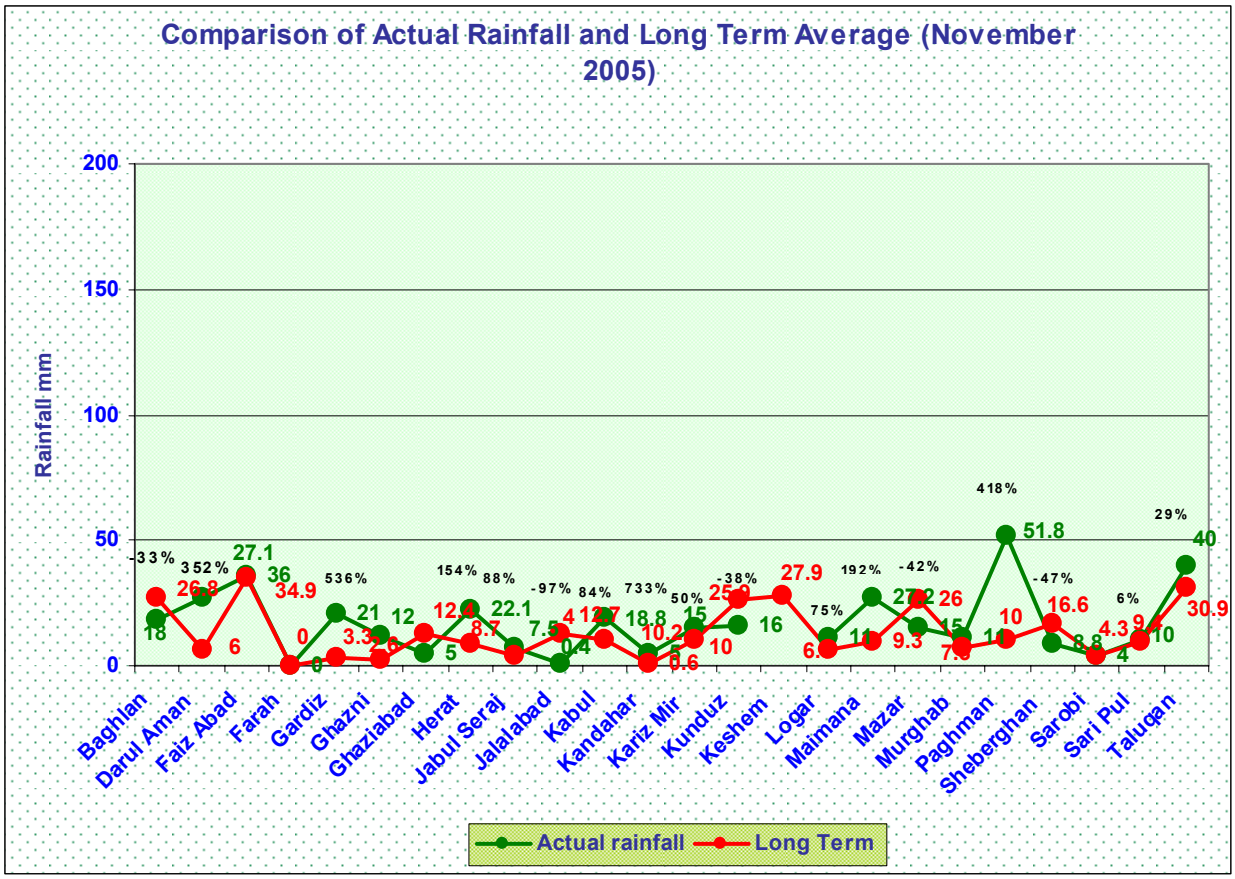
مقایسه بارندگی ماهانه

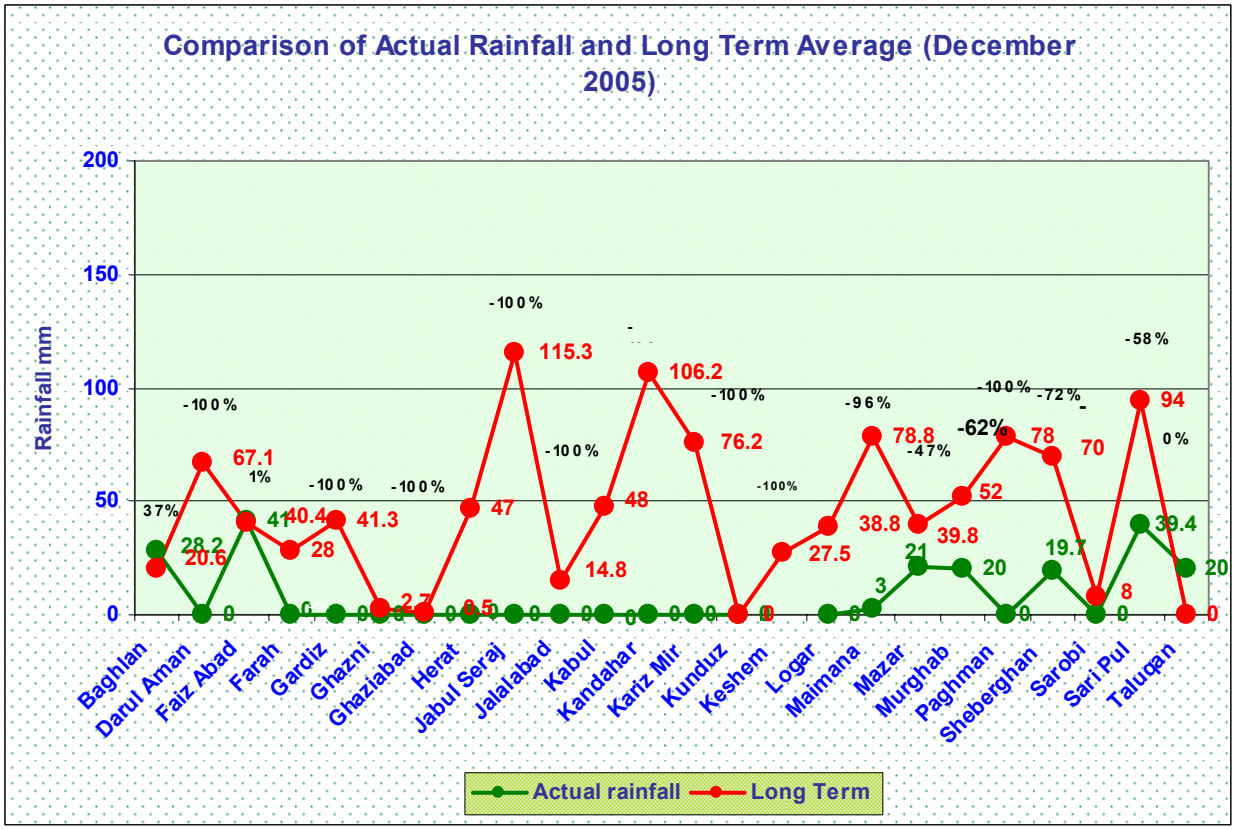
با

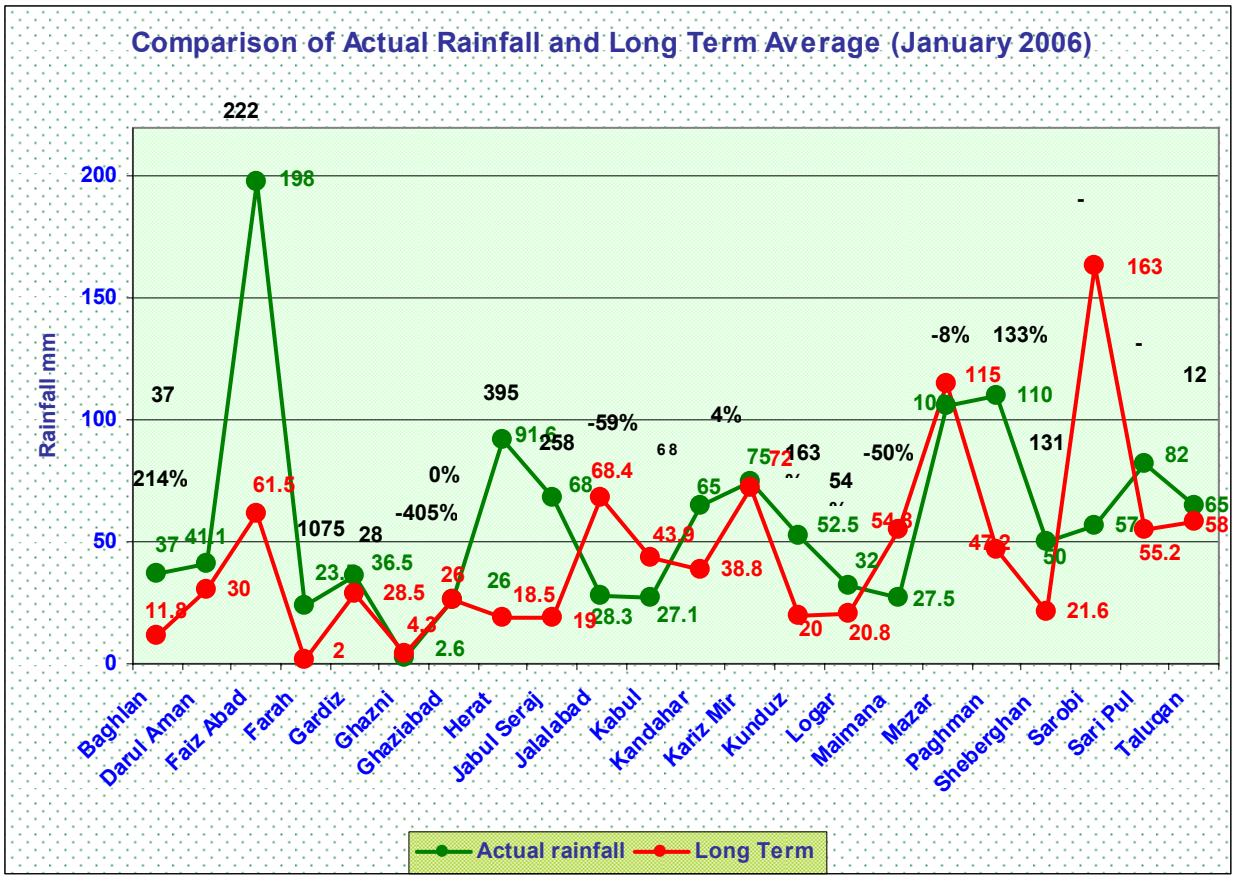
اوسط دراز مدت
(به فیصد)

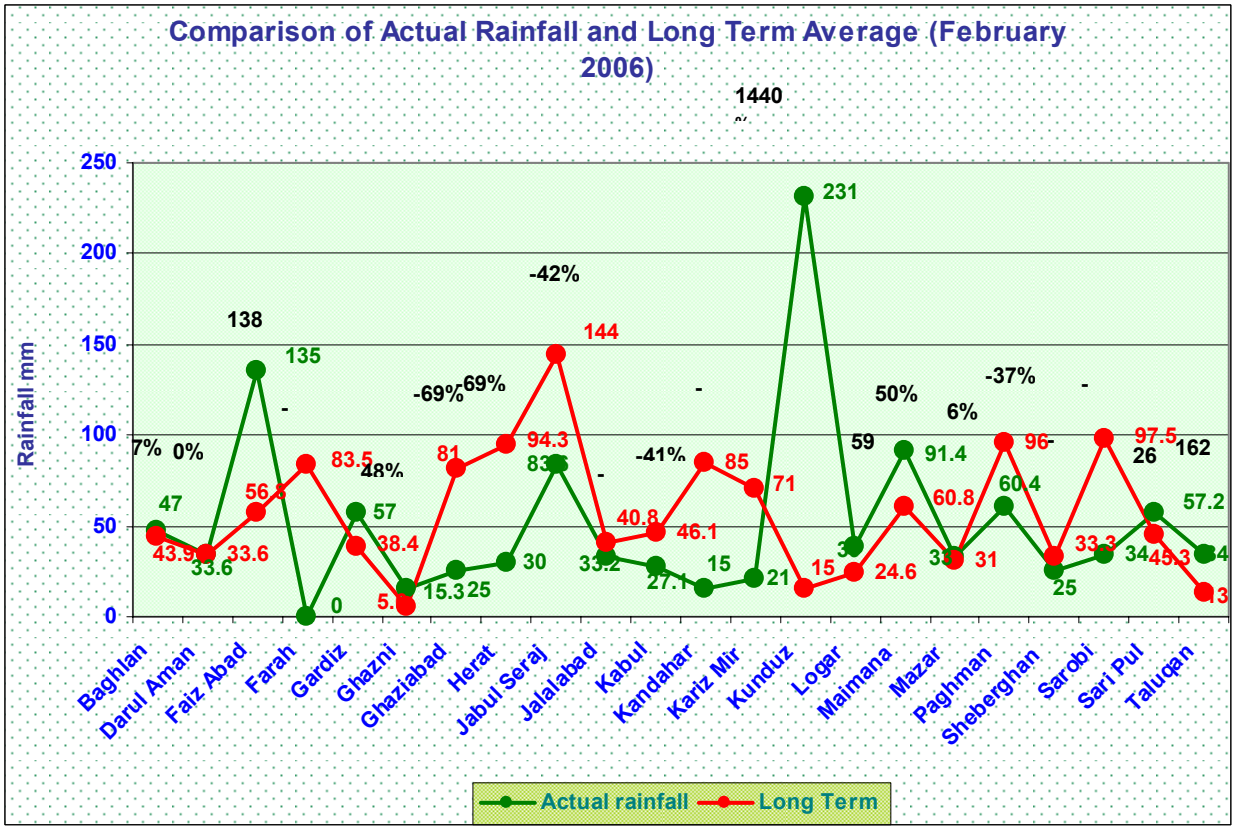

Comparison of Actual Rainfall and Long Term Average (September 2005)
Rainfall mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Keshem
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long Term

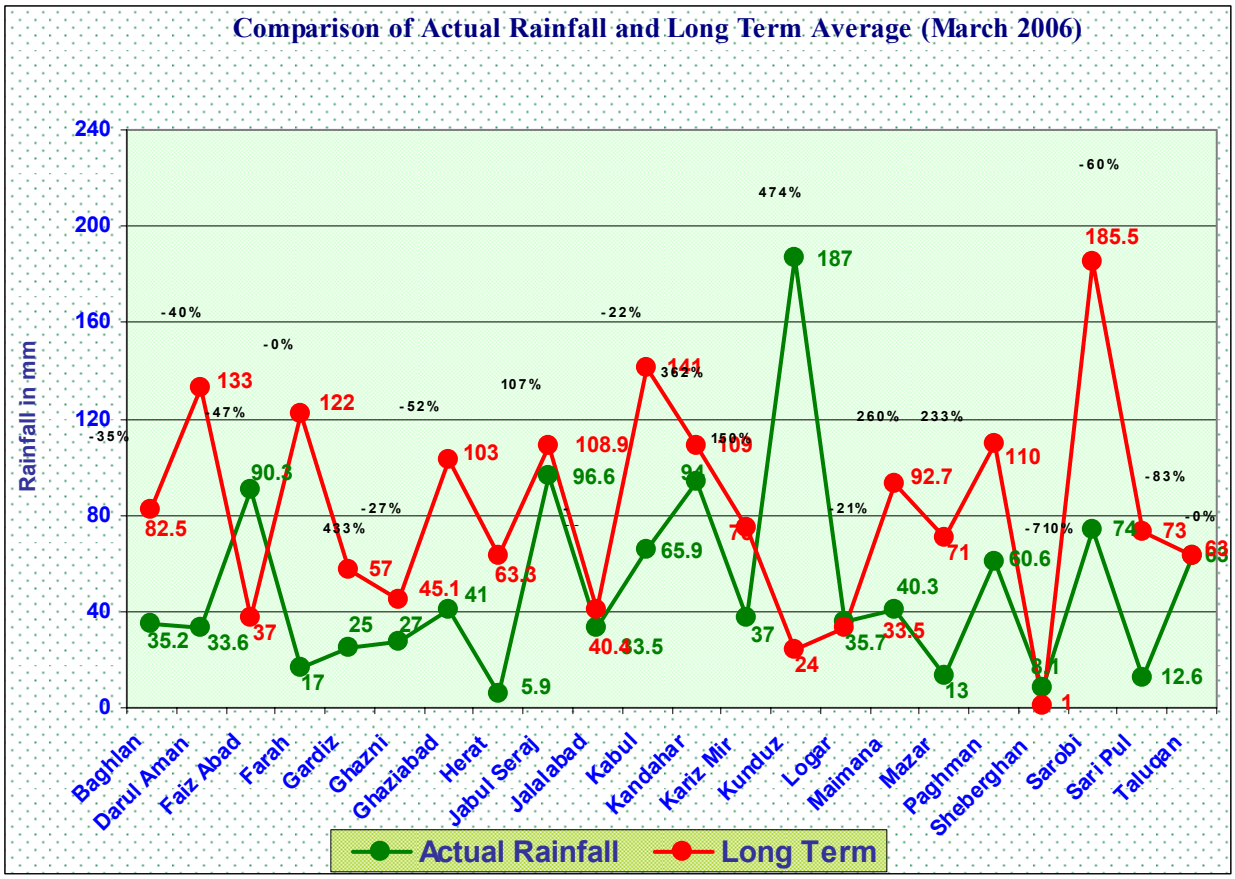

Comparison of Actual Rainfall and Long Term Average (October 2005)
Rainfall mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Keshem
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long Term

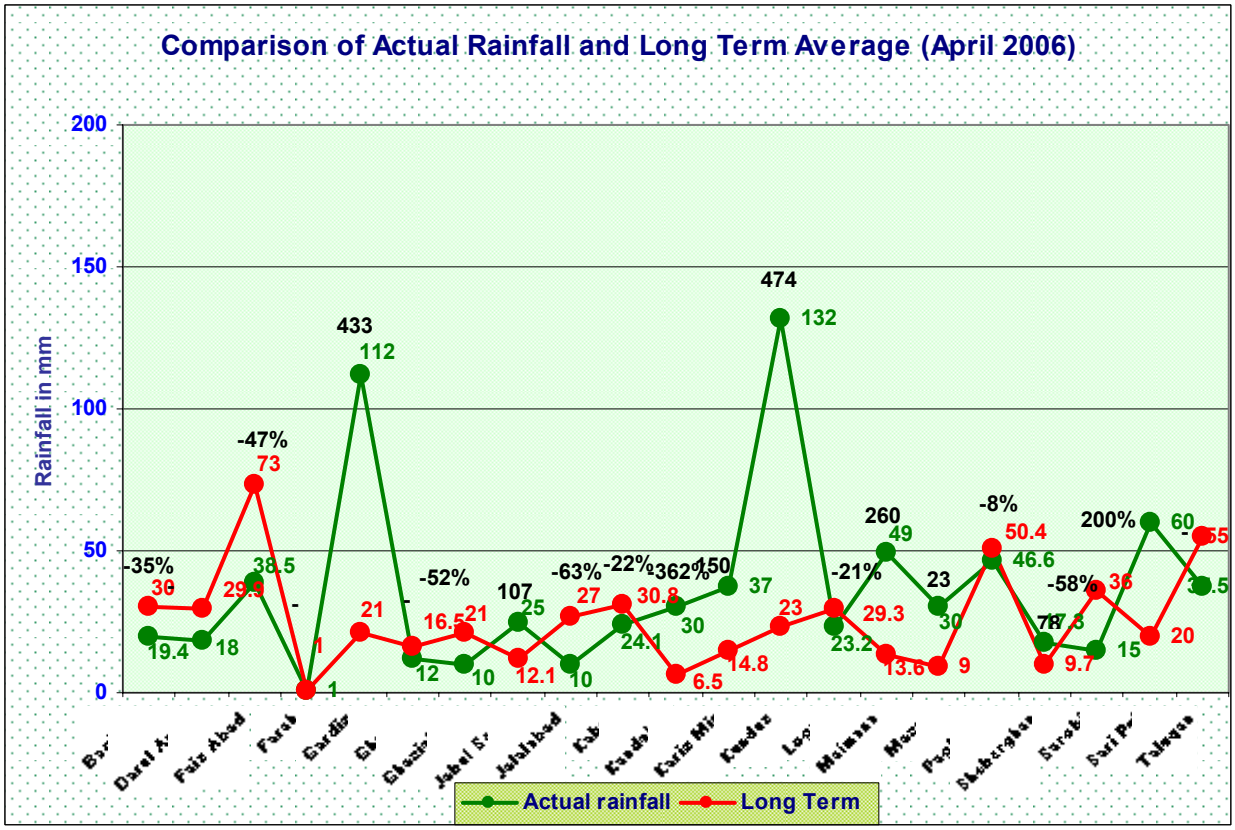

Comparison of Actual Rainfall and Long Term Average (November 2005)
Rainfall mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Keshem
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long Term

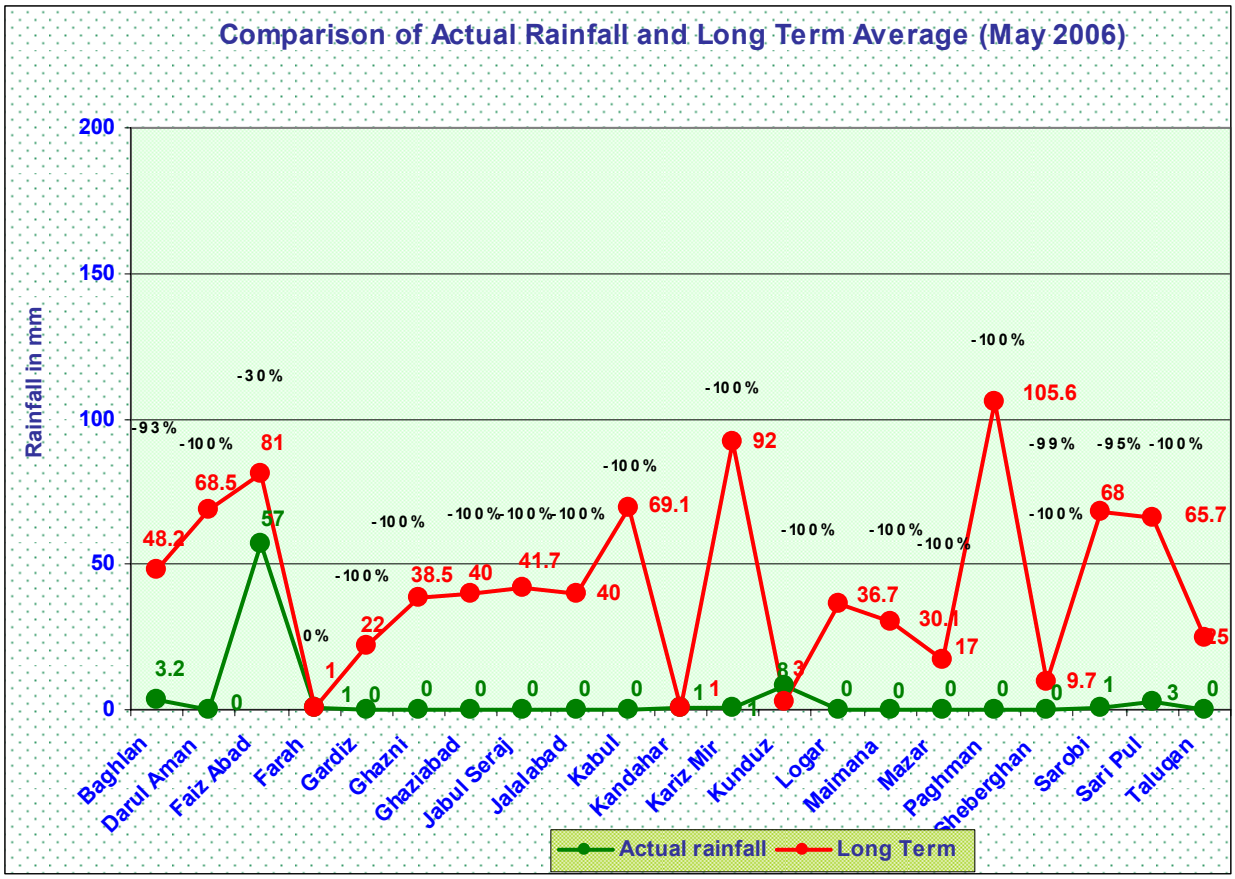

Comparison of Actual Rainfall and Long Term Average (December 2005)
Rainfall mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Keshem
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long Term

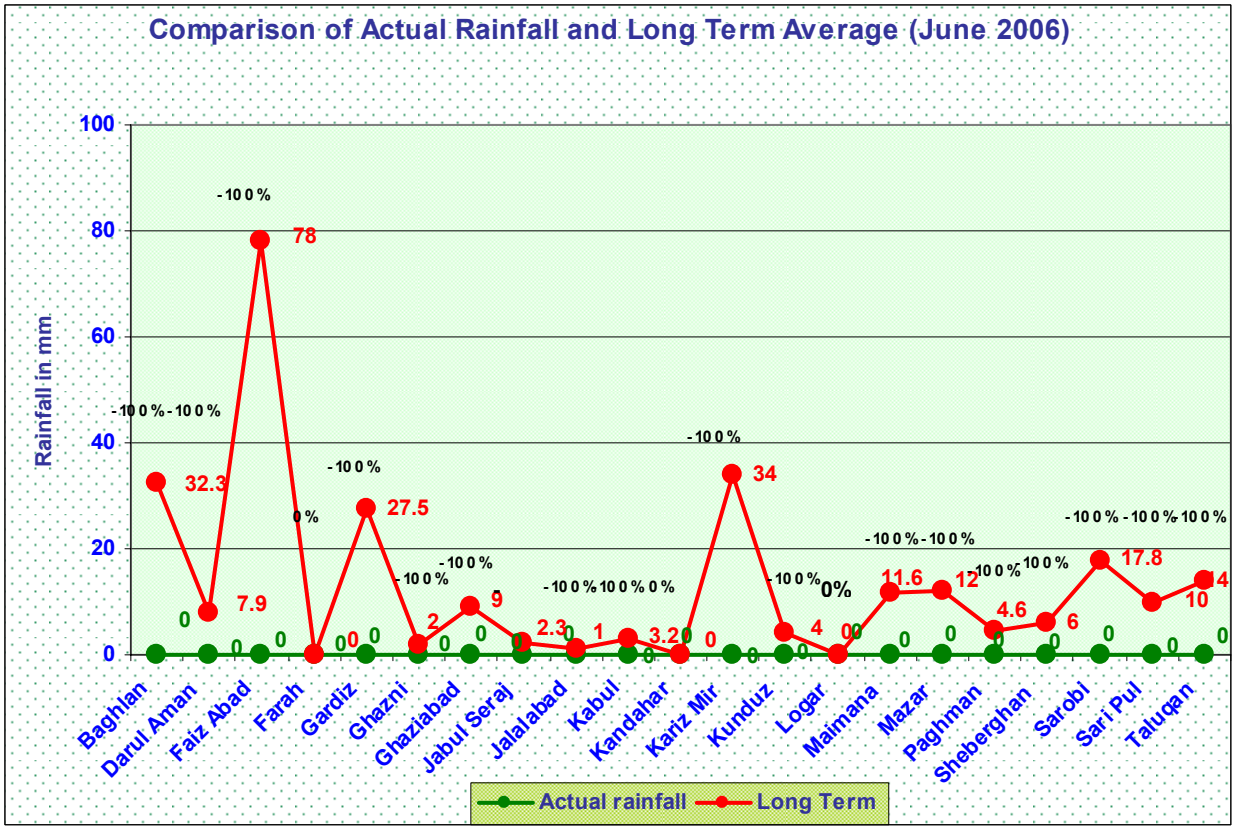

Comparison of Actual Rainfall and Long Term Average (January 2006)
Rainfall mm
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long Term

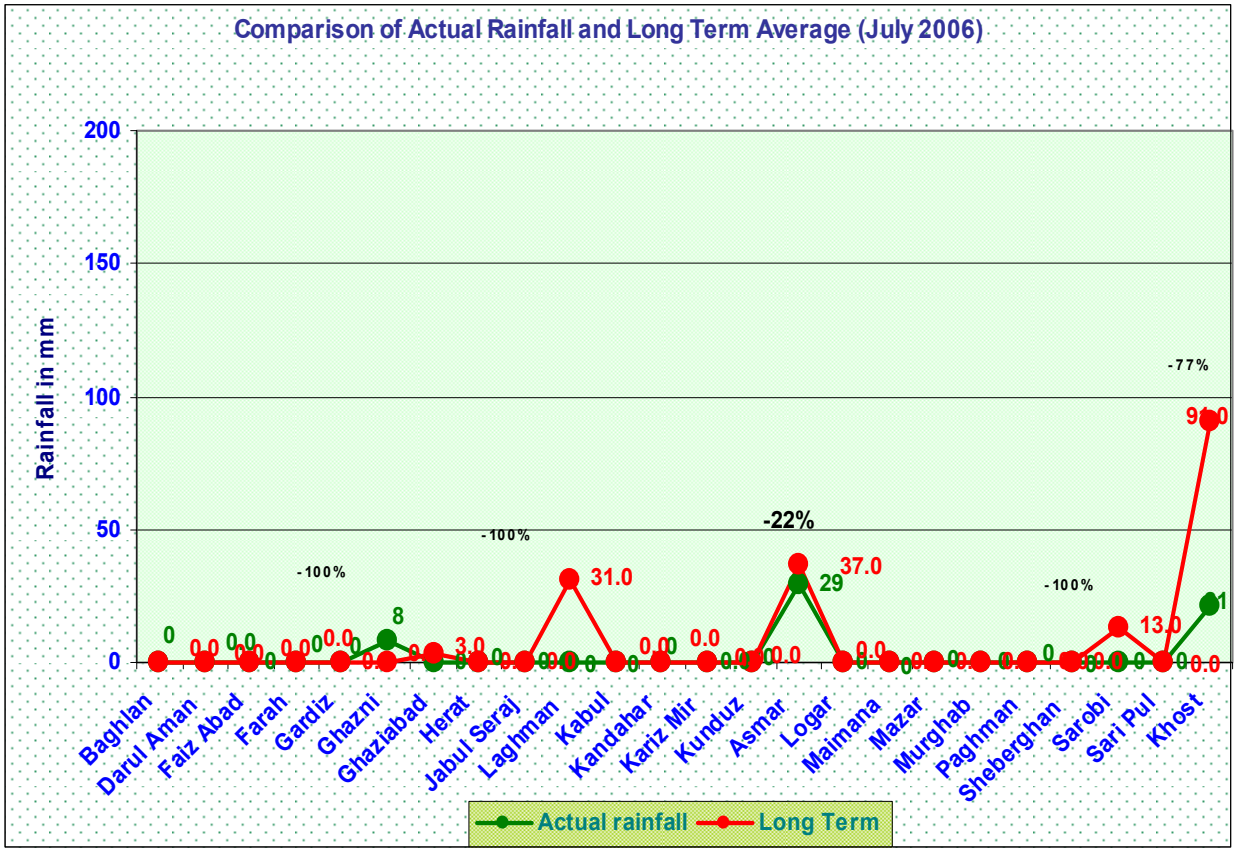

Comparison of Actual Rainfall and Long Term Average (February 2006)
Rainfall mm
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual rainfall
Long Term

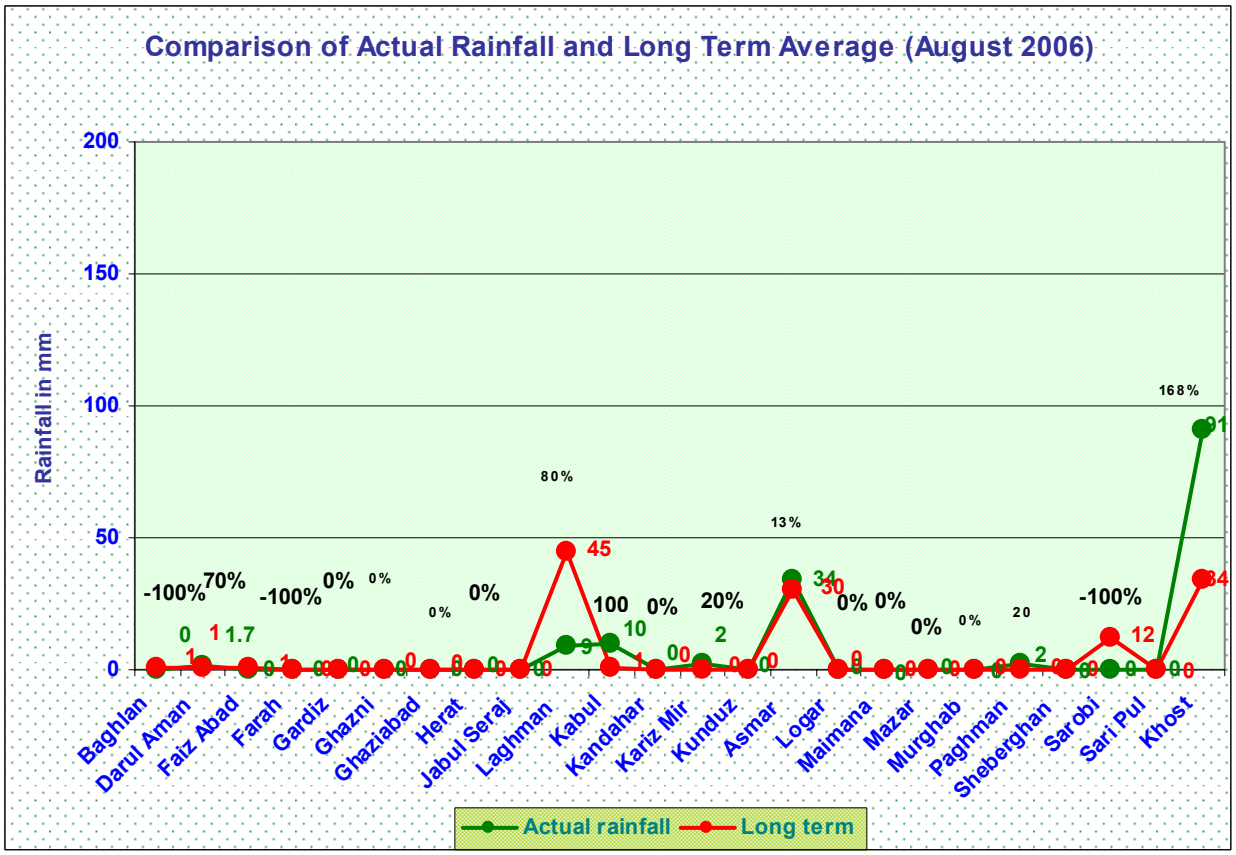

Comparison of Actual Rainfall and Long Term Average (March 2006)
Rainfall in mm
240
200
160
120
80
40
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Jalalabad
Kabul
Kandahar
Kariz Mir
Kunduz
Logar
Maimana
Mazar
Paghman
Sheberghan
Sarobi
Sari Pul
Taluqan
Actual Rainfall
Long Term


Comparison of Actual Rainfall and Long Term Average (April 2006)
Rainfall in mm
200
150
100
50
0
Actual rainfall
Long Term


Comparison of Actual Rainfall and Long Term Average (May 2006)
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


Comparison of Actual Rainfall and Long Term Average (June 2006)
Rainfall in mm
100
80
60
40
20
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


Comparison of Actual Rainfall and Long Term Average (July 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
-100%
-100%
-22%
-100%
-77%
Actual rainfall
Long Term

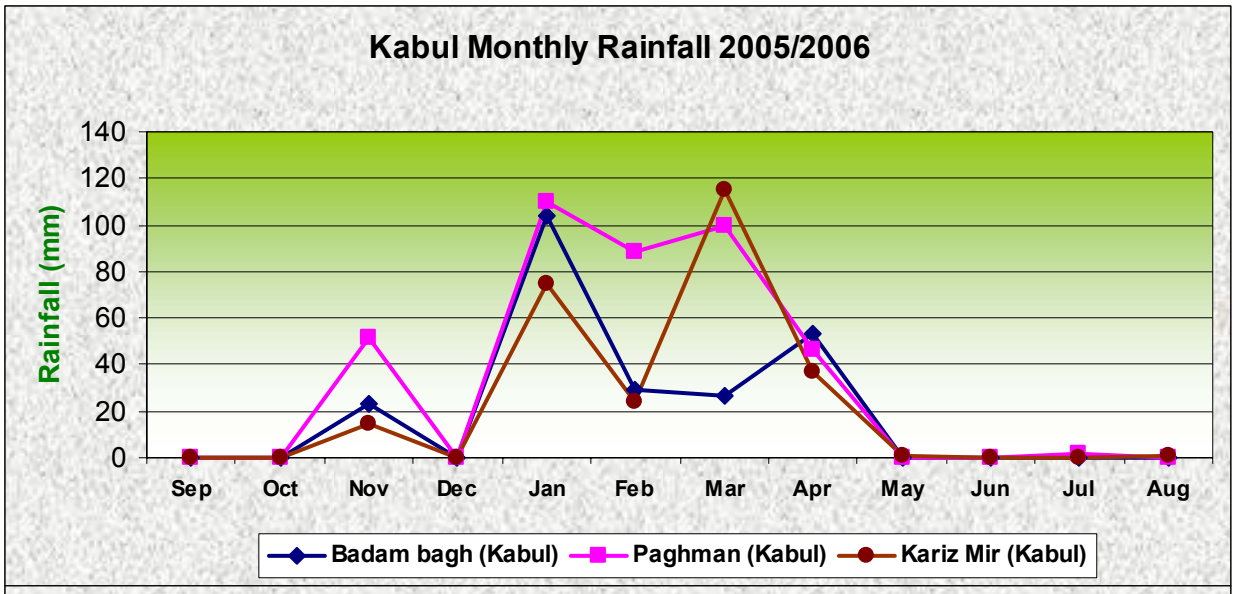

Comparison of Actual Rainfall and Long Term Average (August 2006)
Rainfall in mm
200
150
100
50
0
Baghlan
Darul Aman
Faiz Abad
Farah
Gardiz
Ghazni
Ghaziabad
Herat
Jabul Seraj
Laghman
Kabul
Kandahar
Kariz Mir
Kunduz
Asmar
Logar
Maimana
Mazar
Murghab
Paghman
Sheberghan
Sarobi
Sari Pul
Khost
-100%
70%
-100%
0%
0%
0%
0%
80%
100
0%
20%
13%
0%
0%
0%
0%
20
-100%
168%
Actual rainfall
Long term

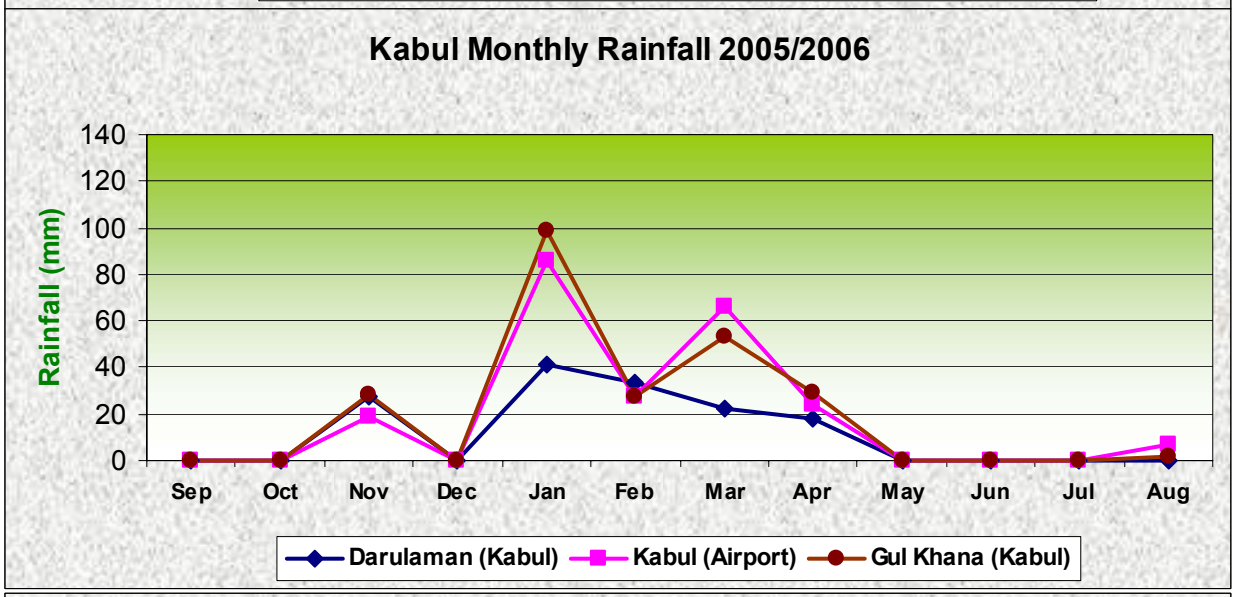
گراف های بارندگی دهه وار

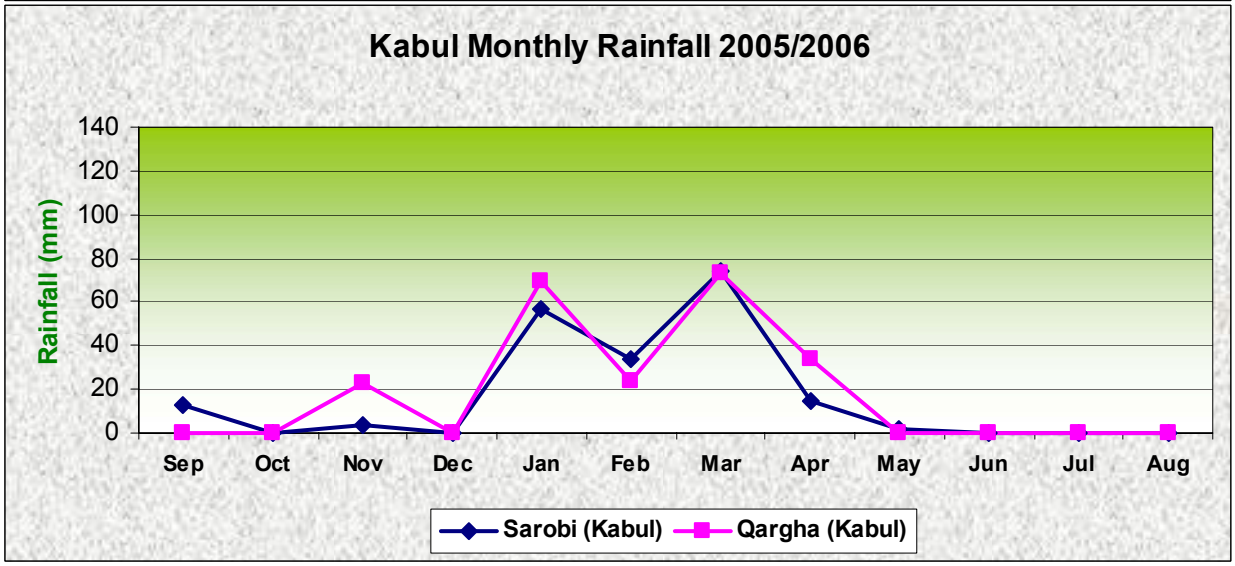
فصل (۲۰۰۵ - ۲۰۰۶)
نظر به مناطق

Dekadal Rainfall Graphs by Region

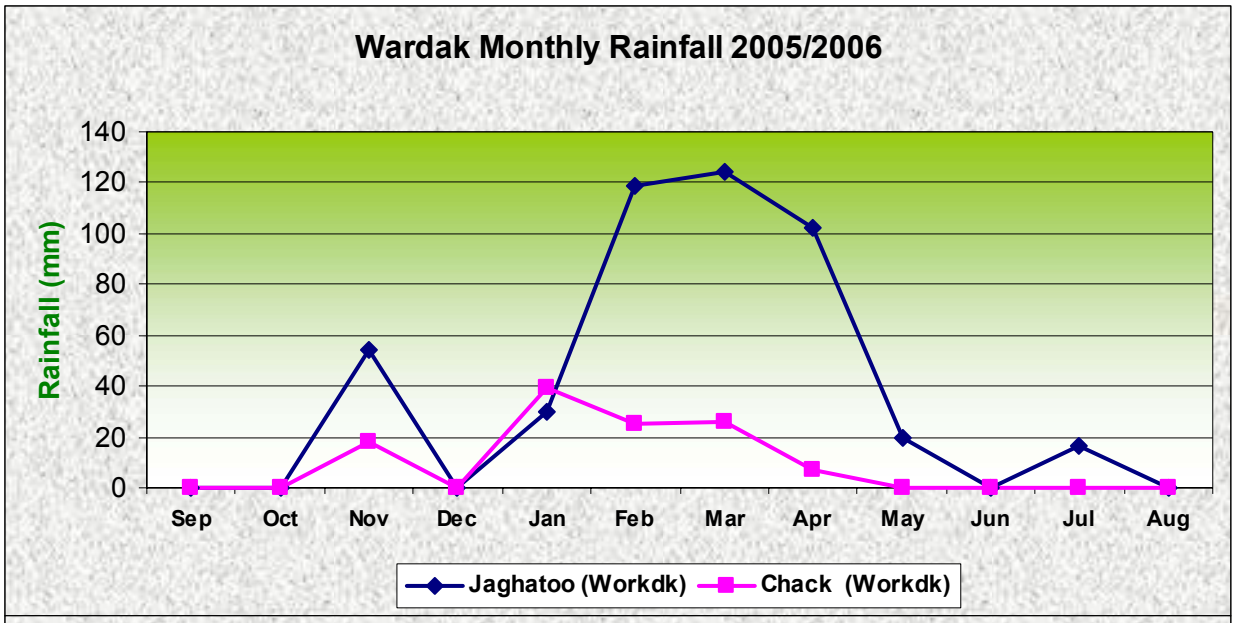
Capital Region

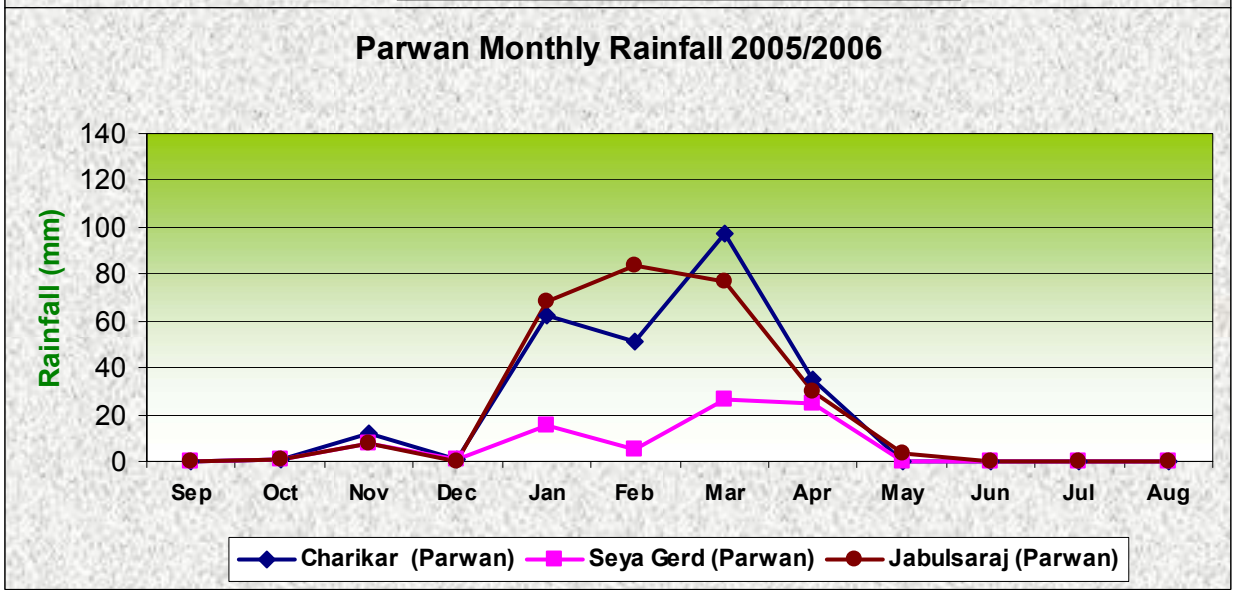


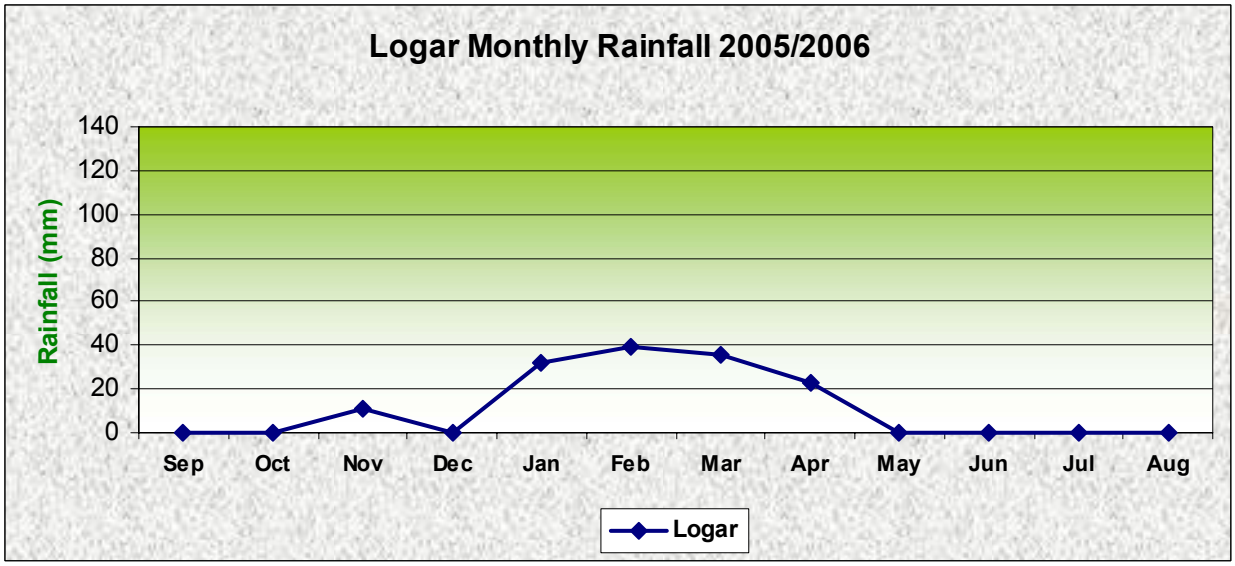




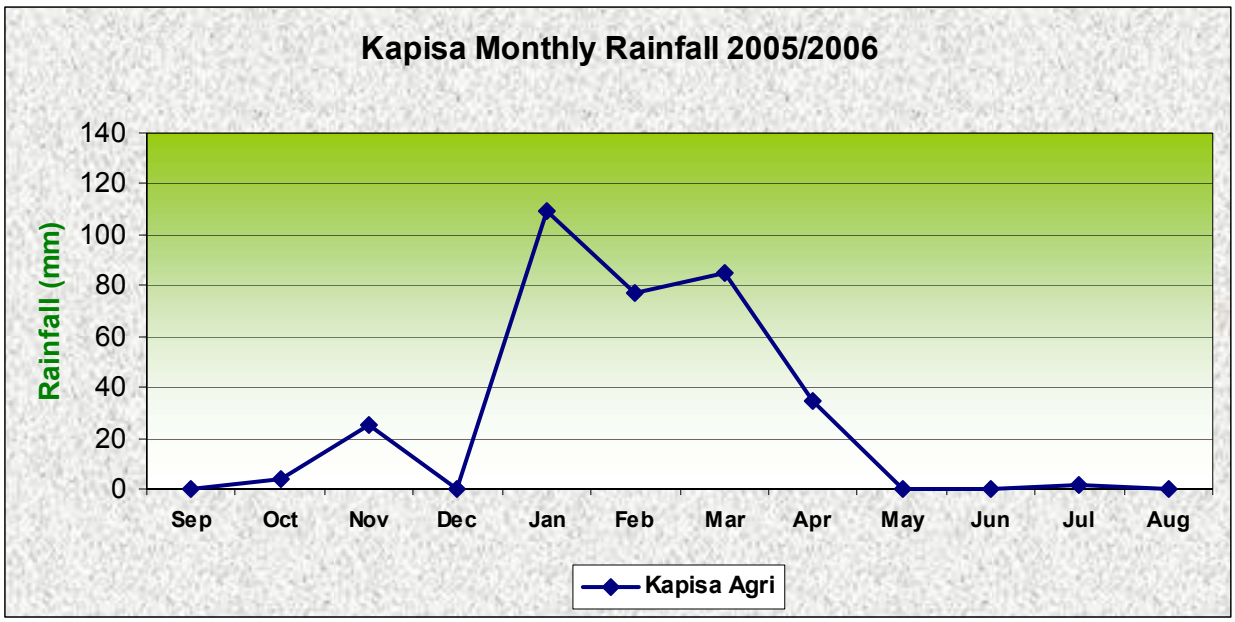
Capital Region

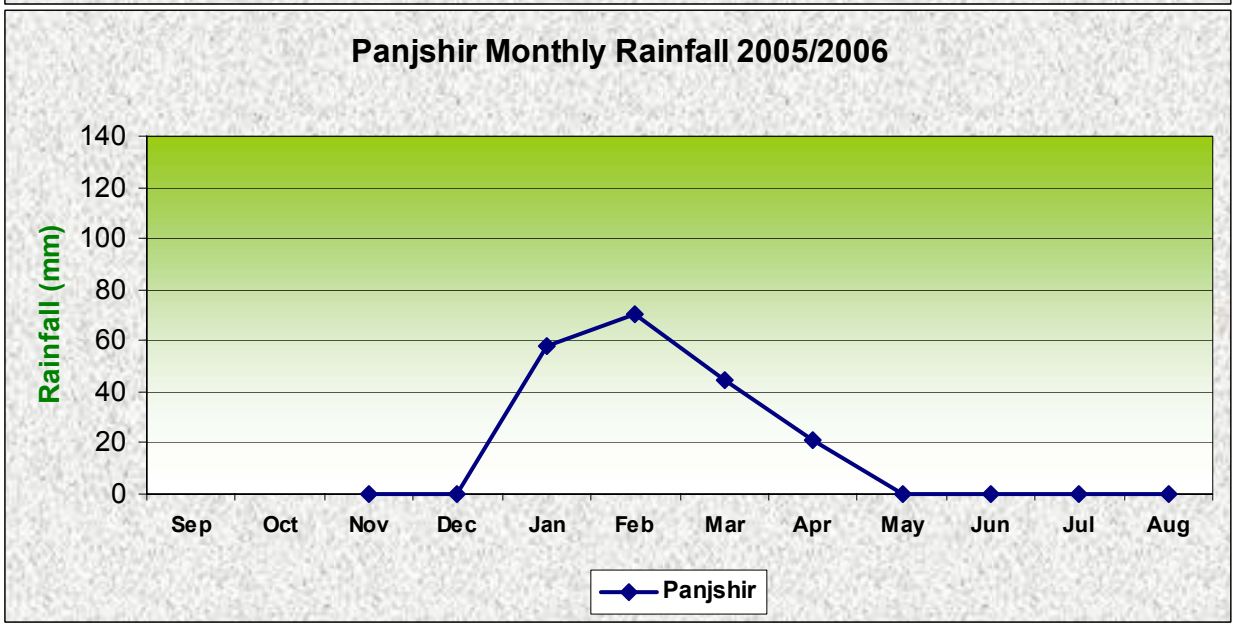




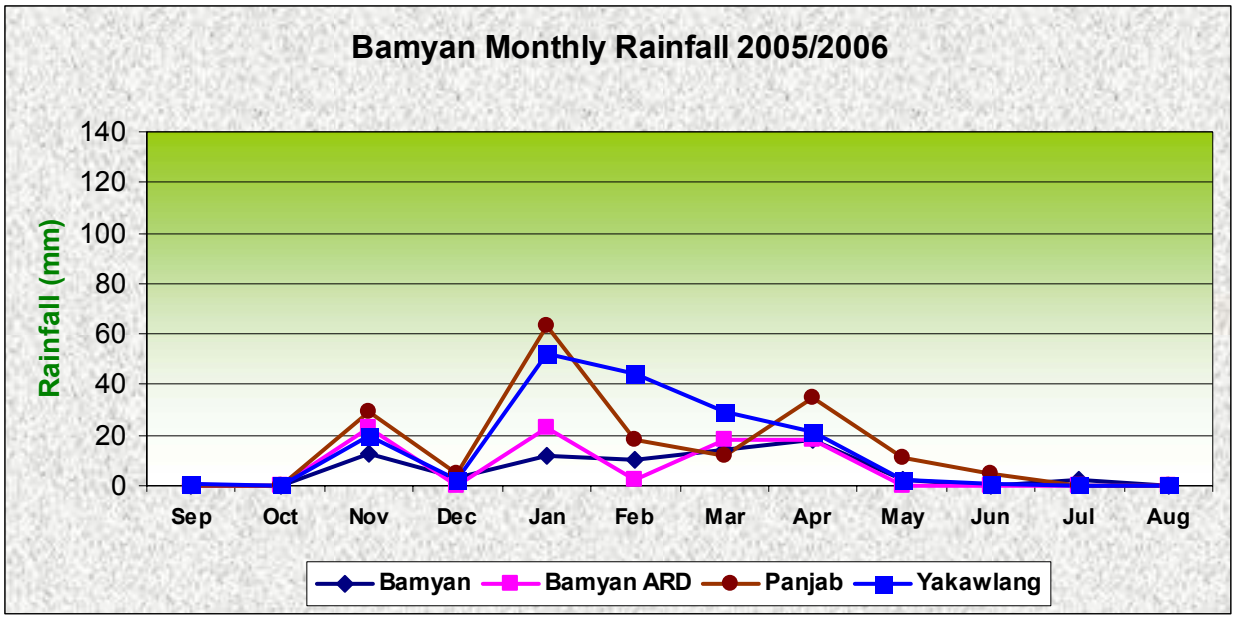


Capital Region

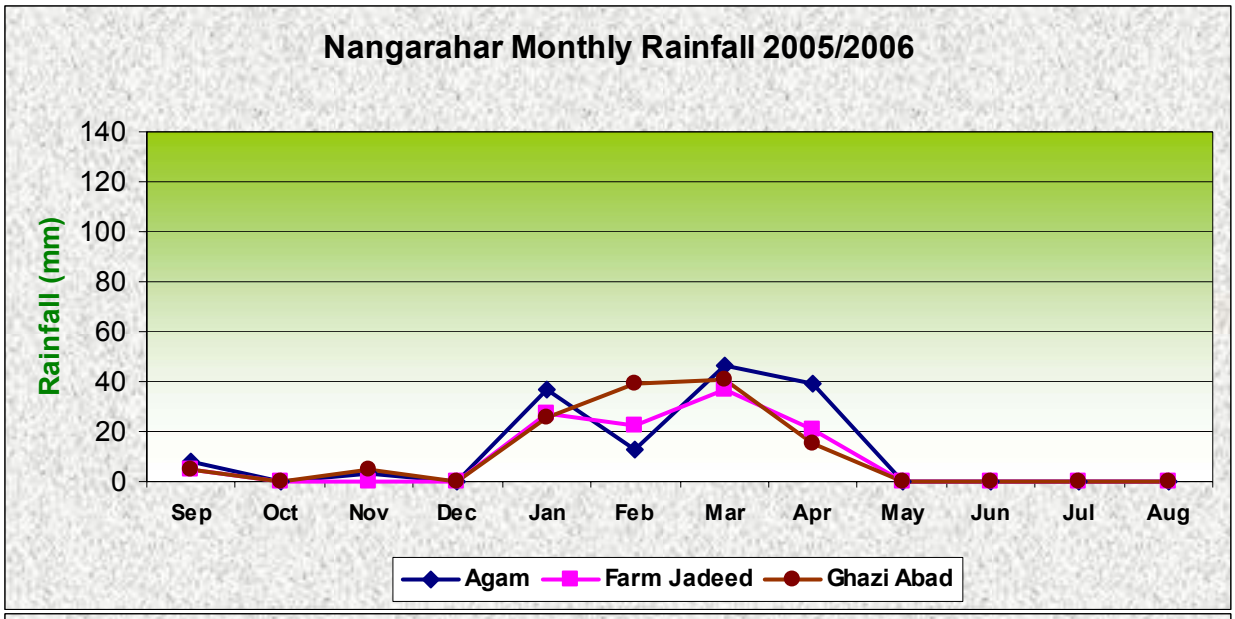


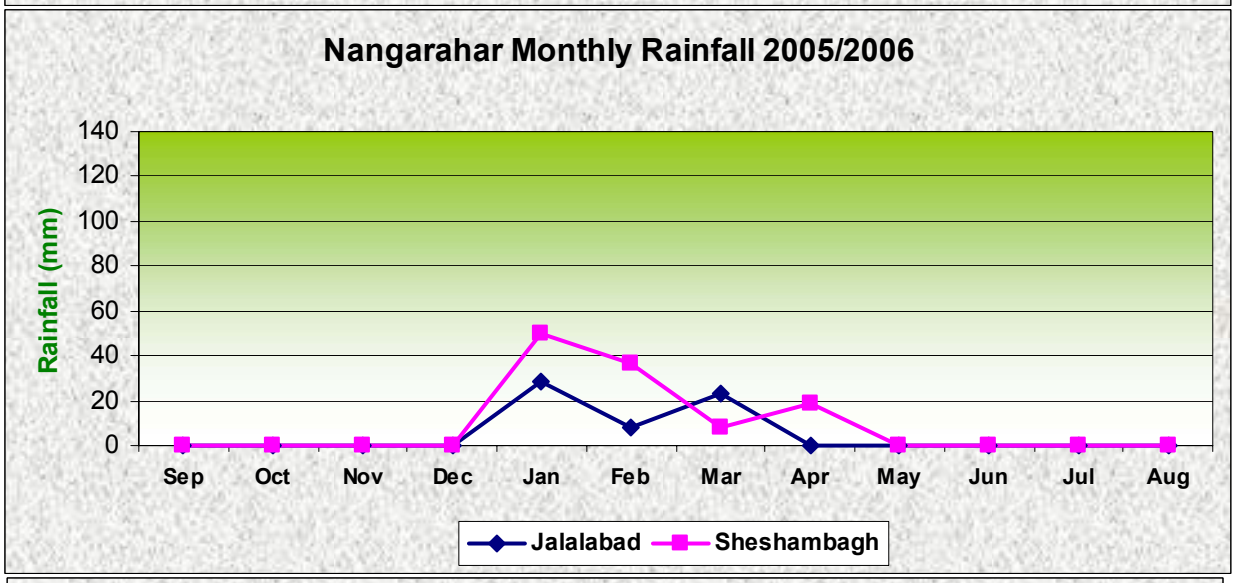


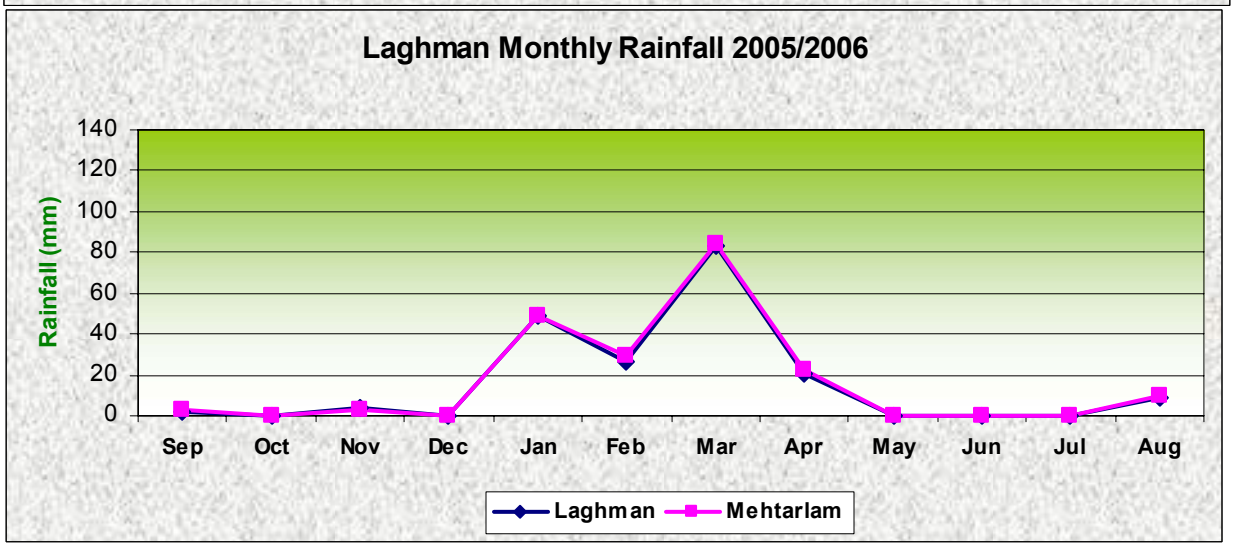
Central Highland Region



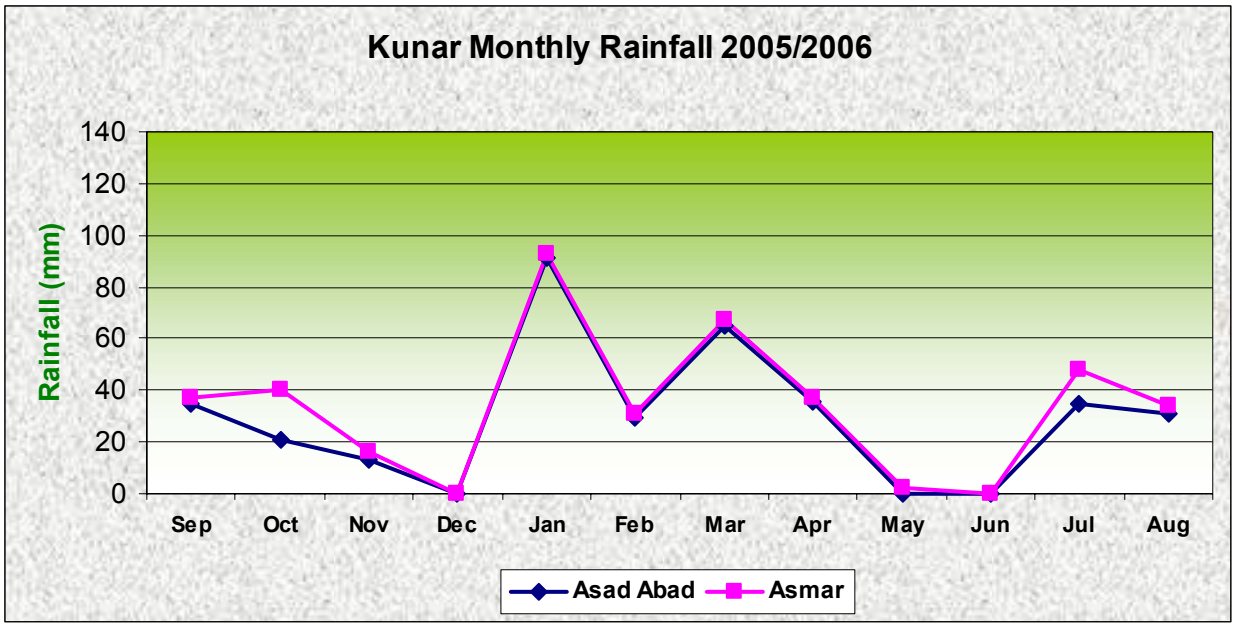
Eastern Region



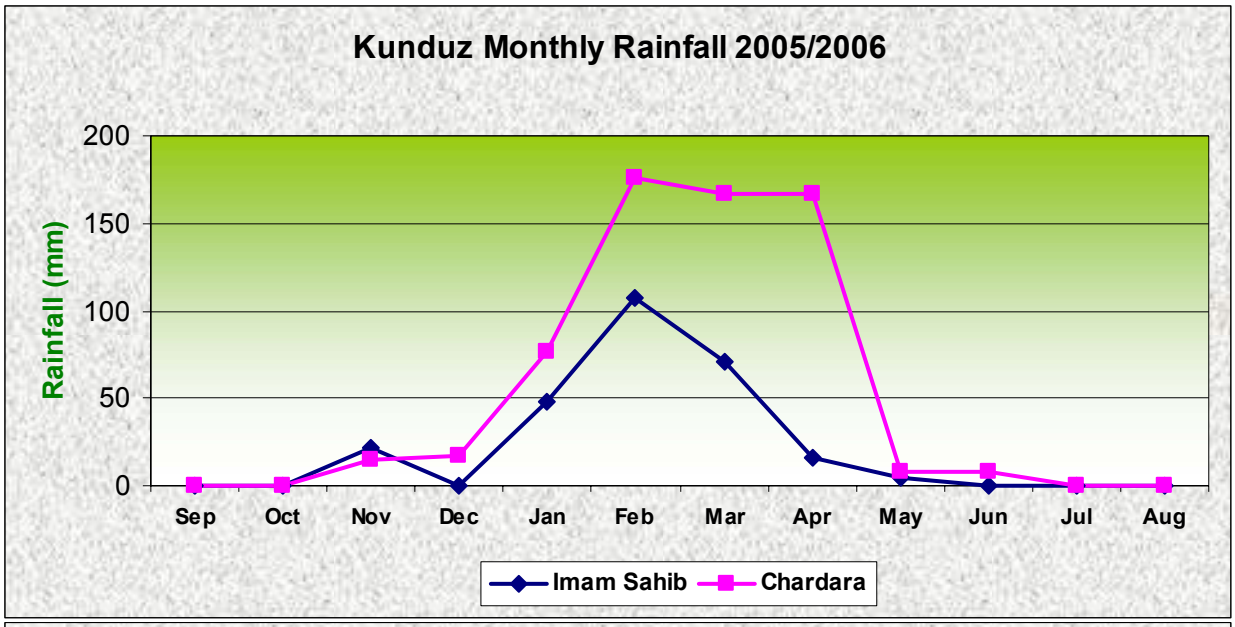


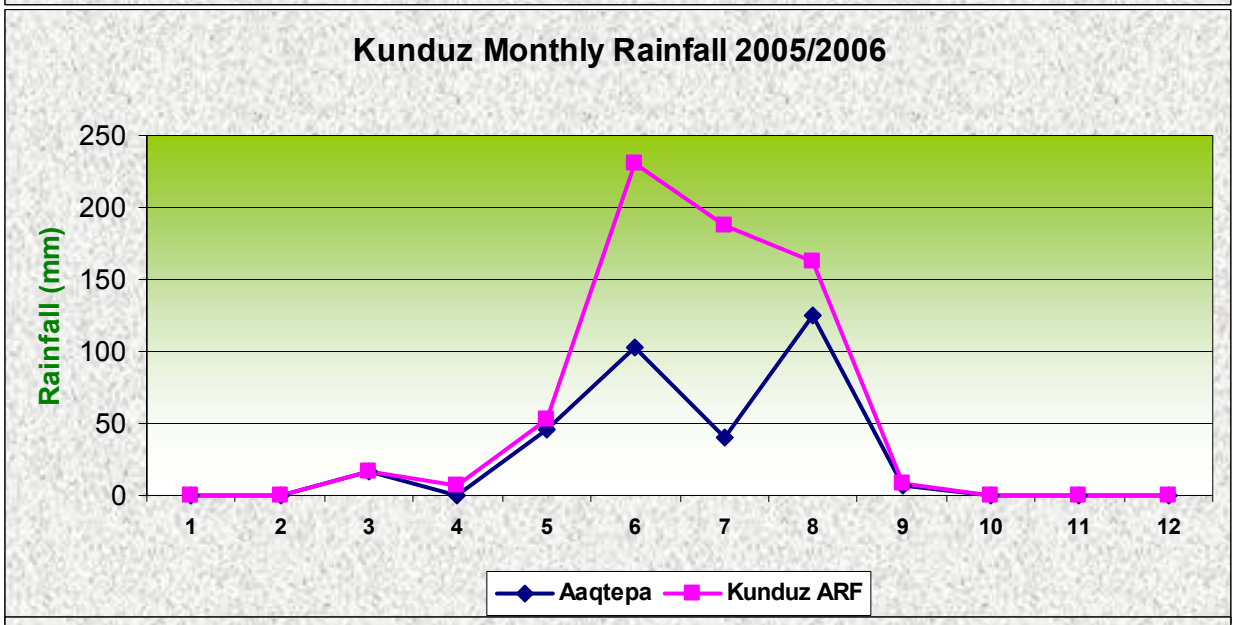


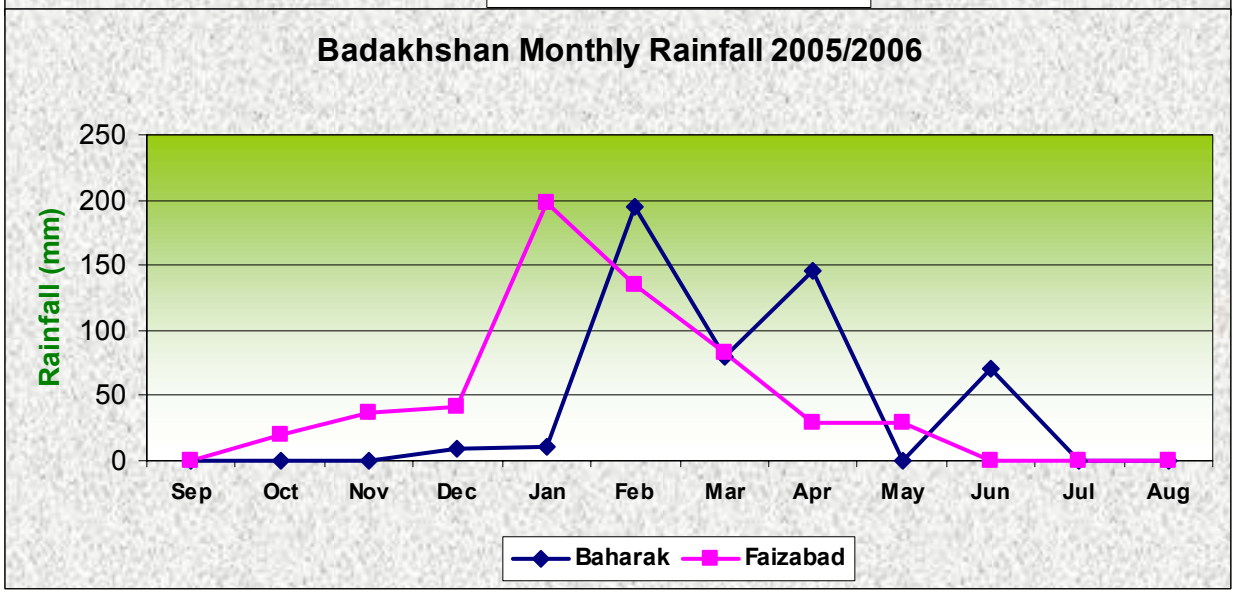
Eastern Region



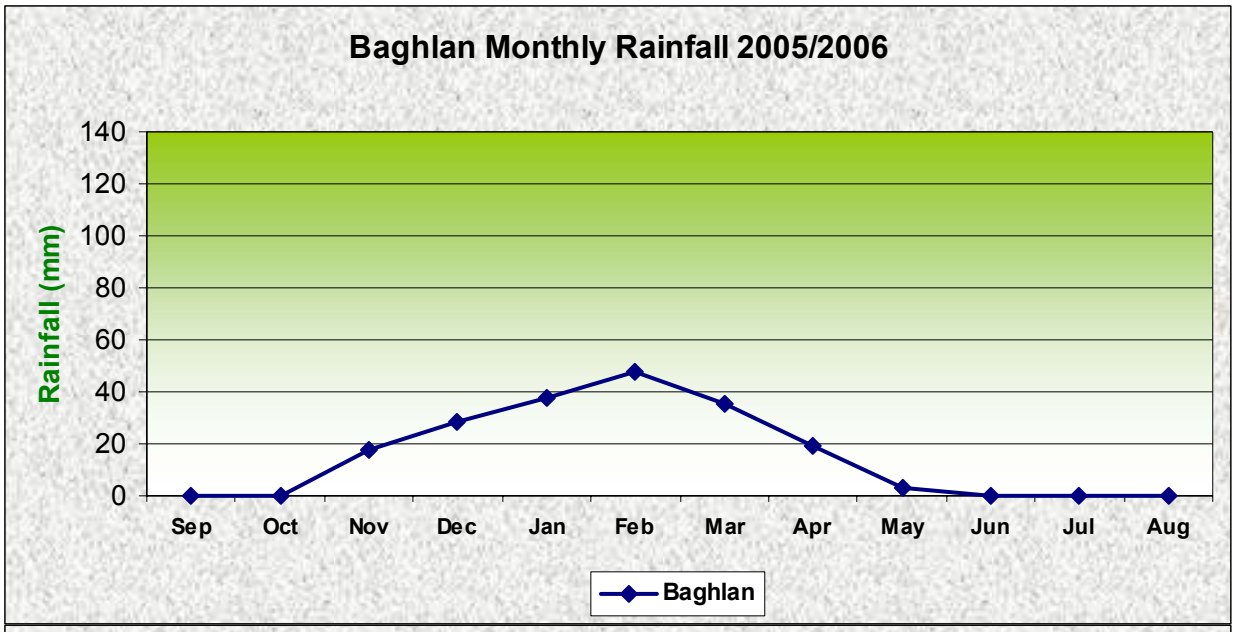
North East Region

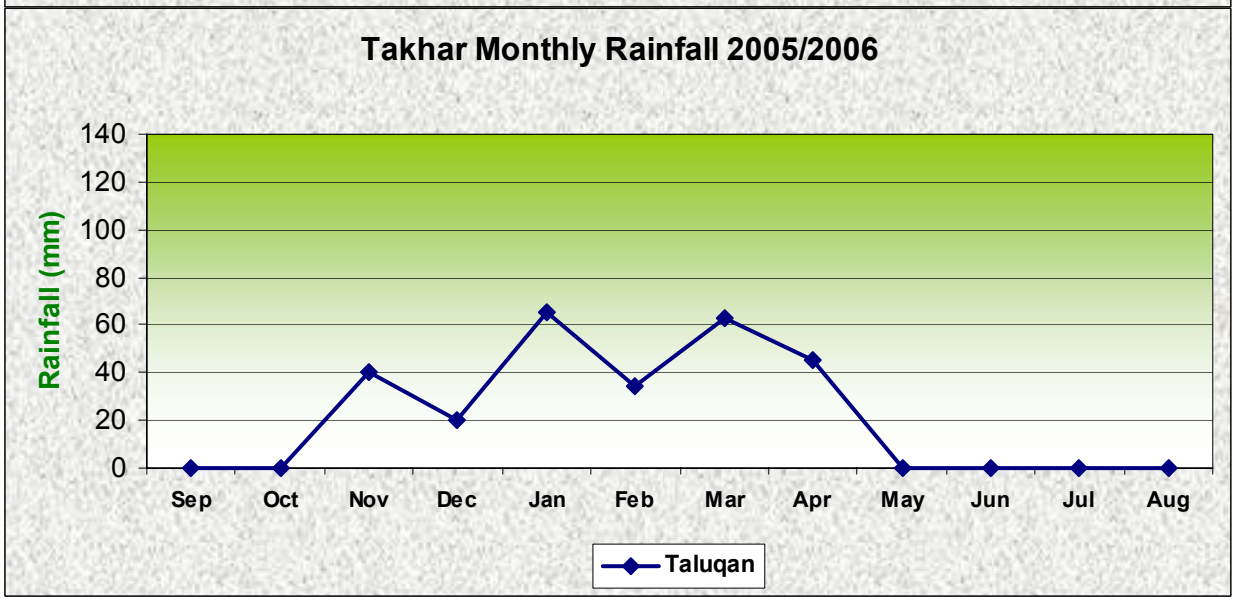




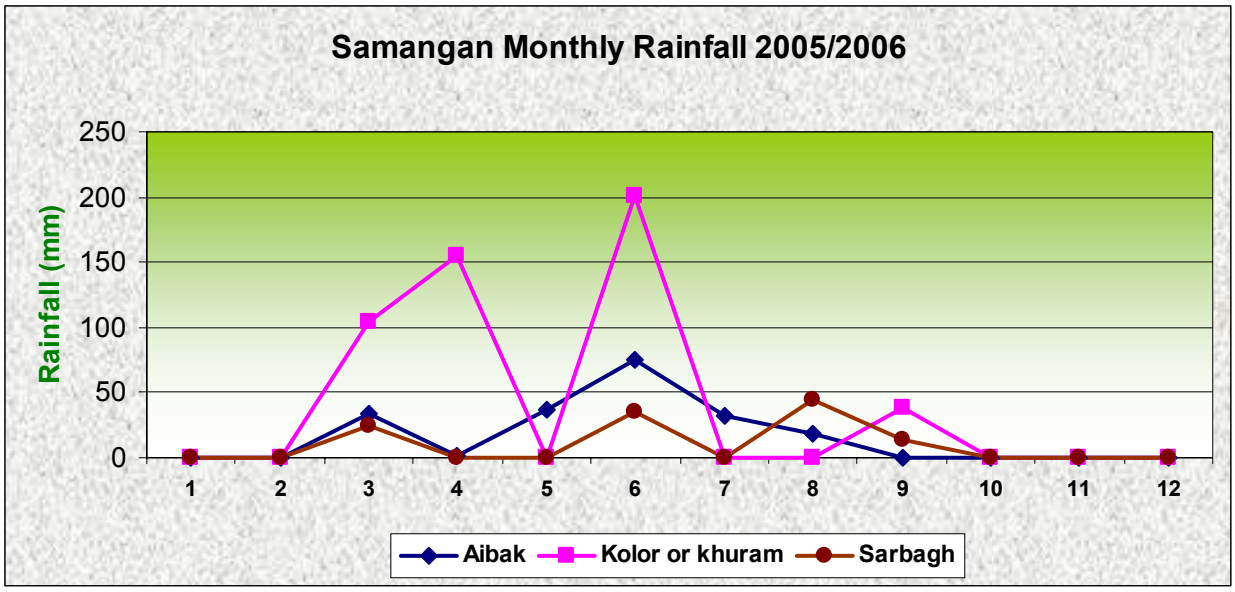


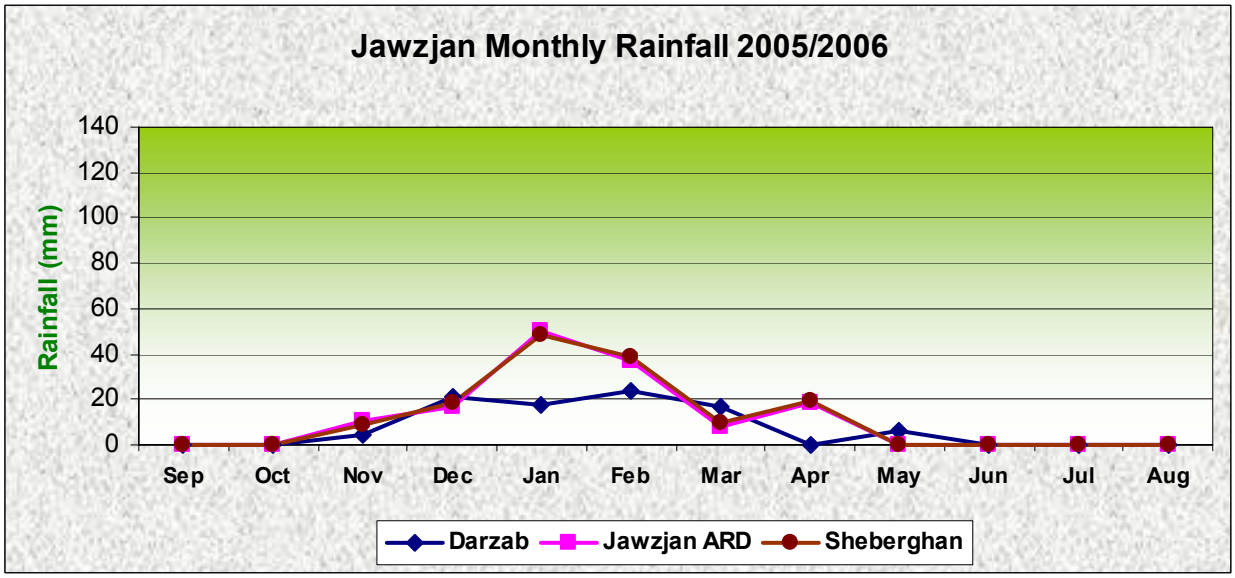
Eastern Region

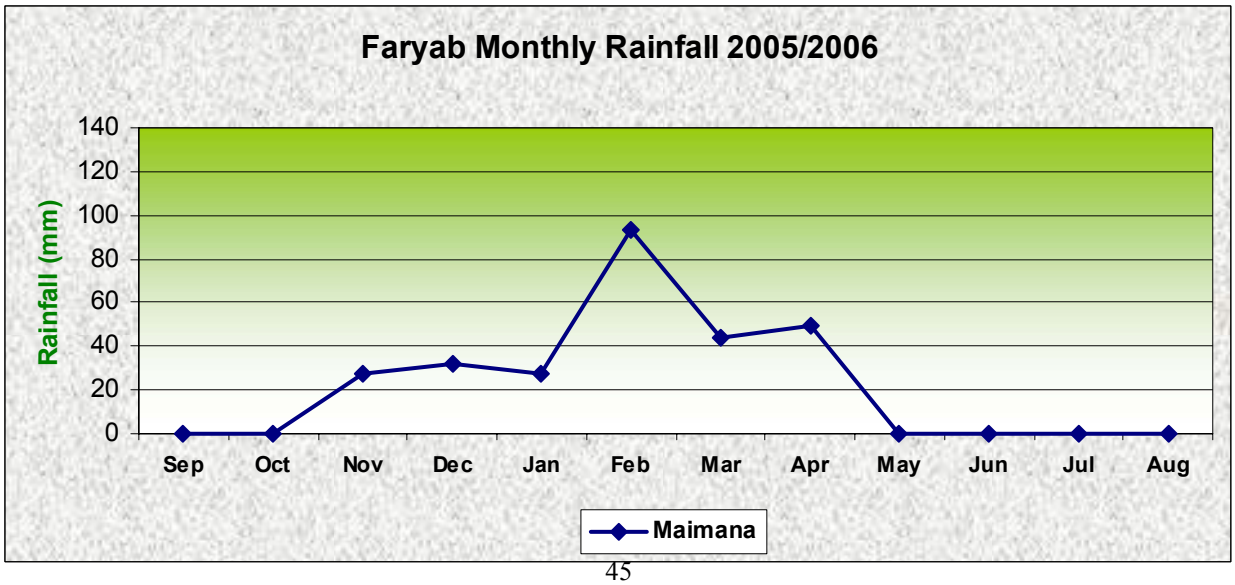




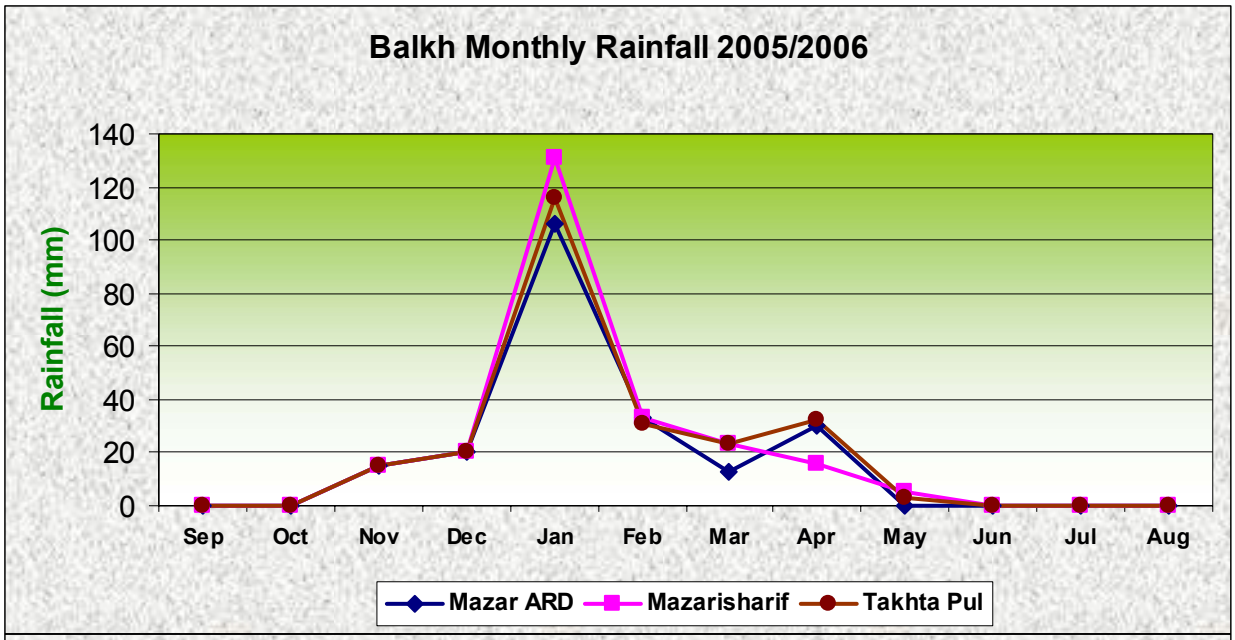
Northern Region

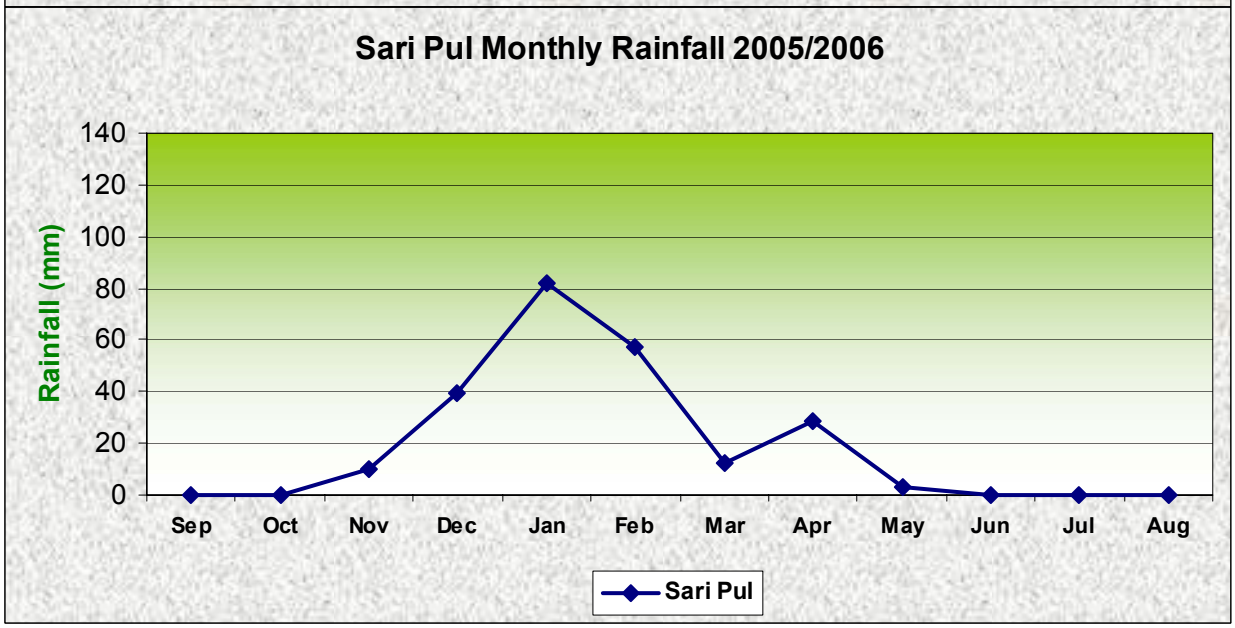




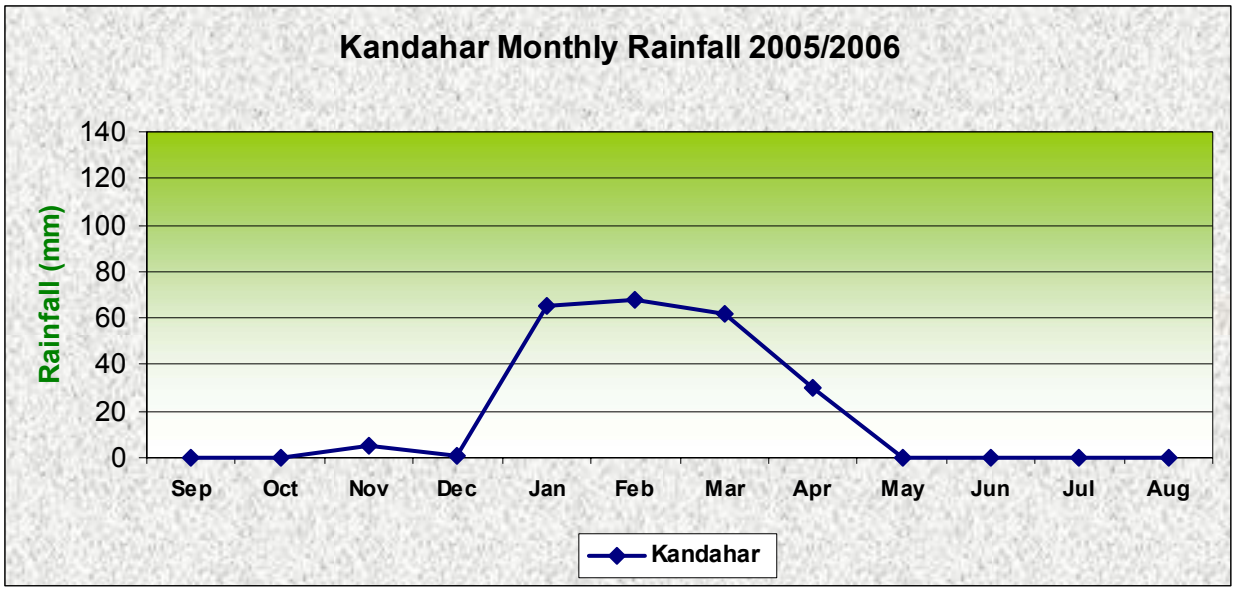


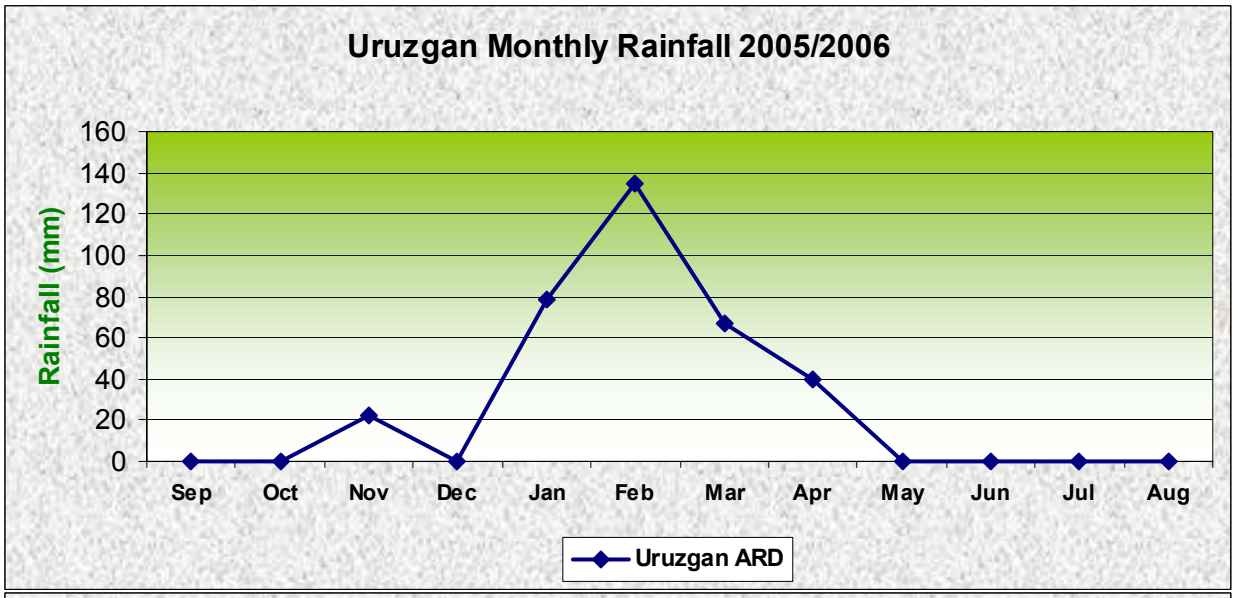
Eastern Region

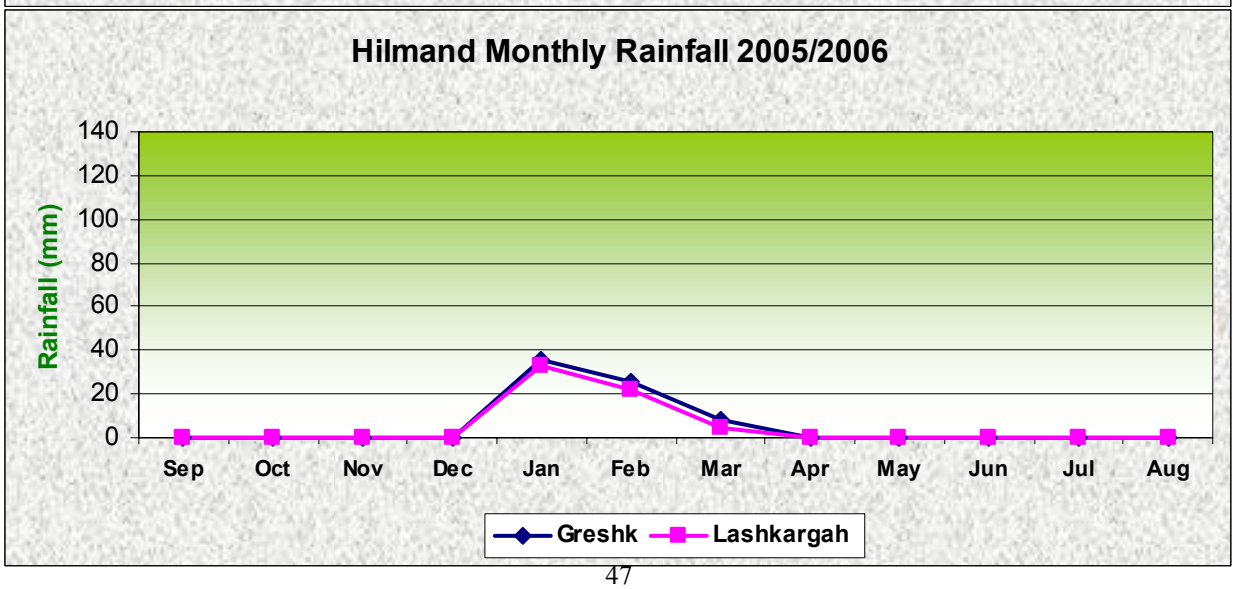




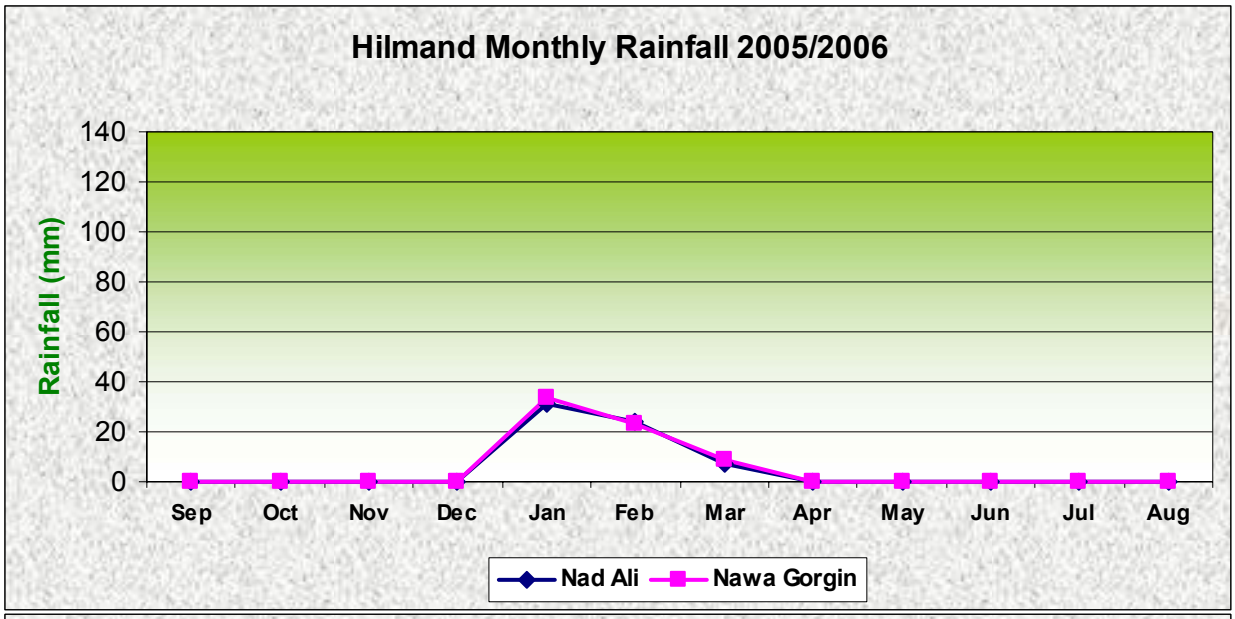
Southern Region

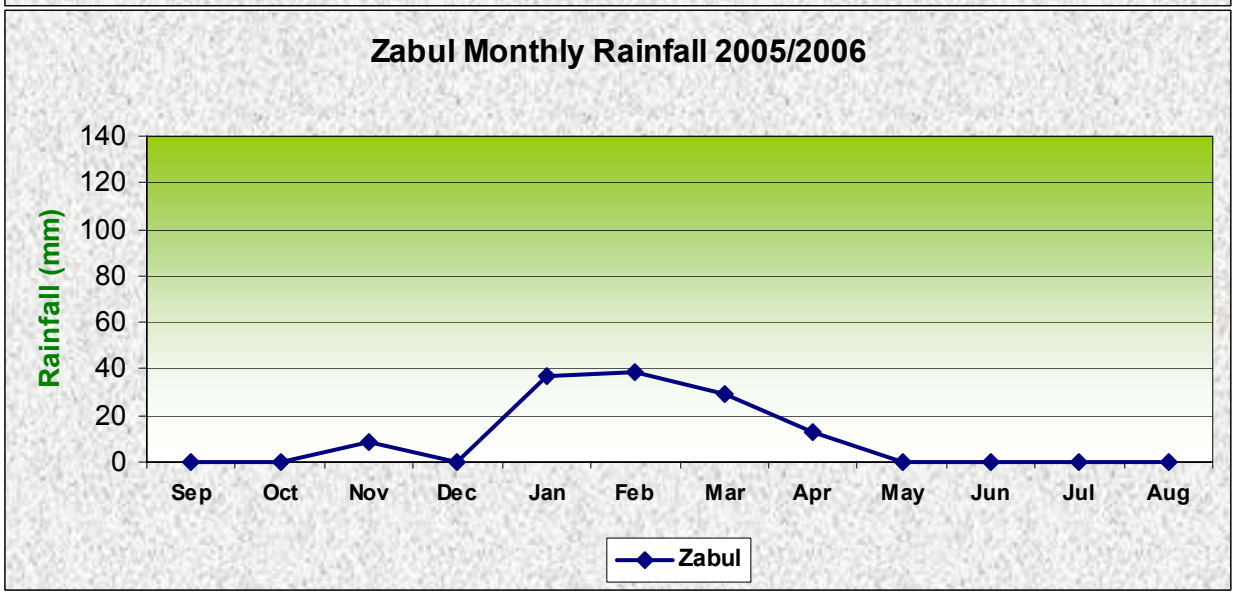


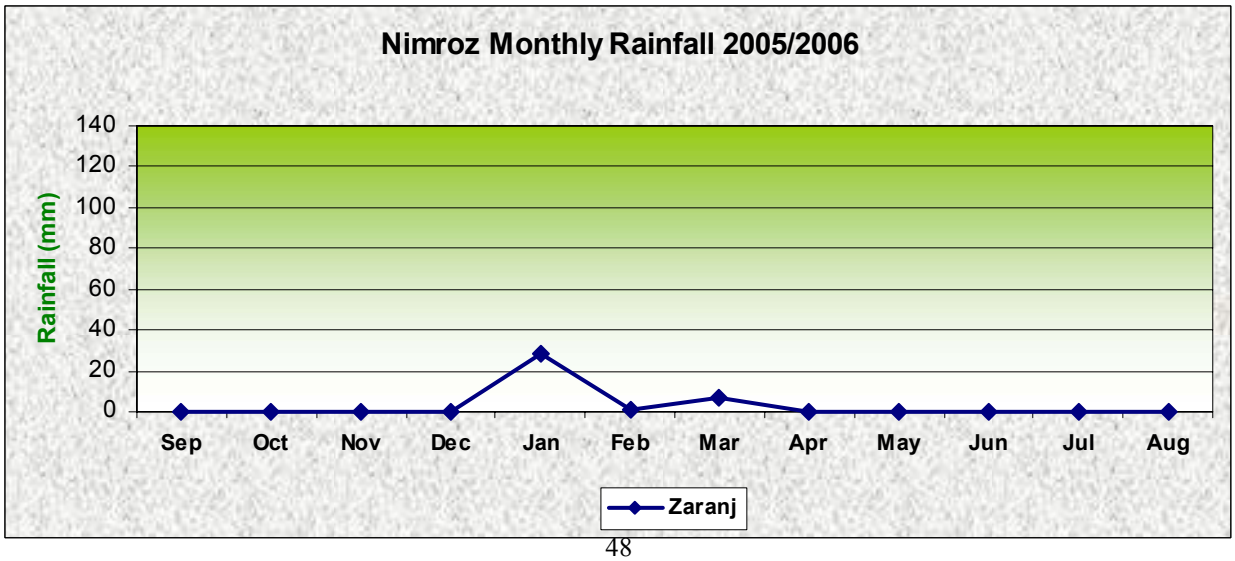




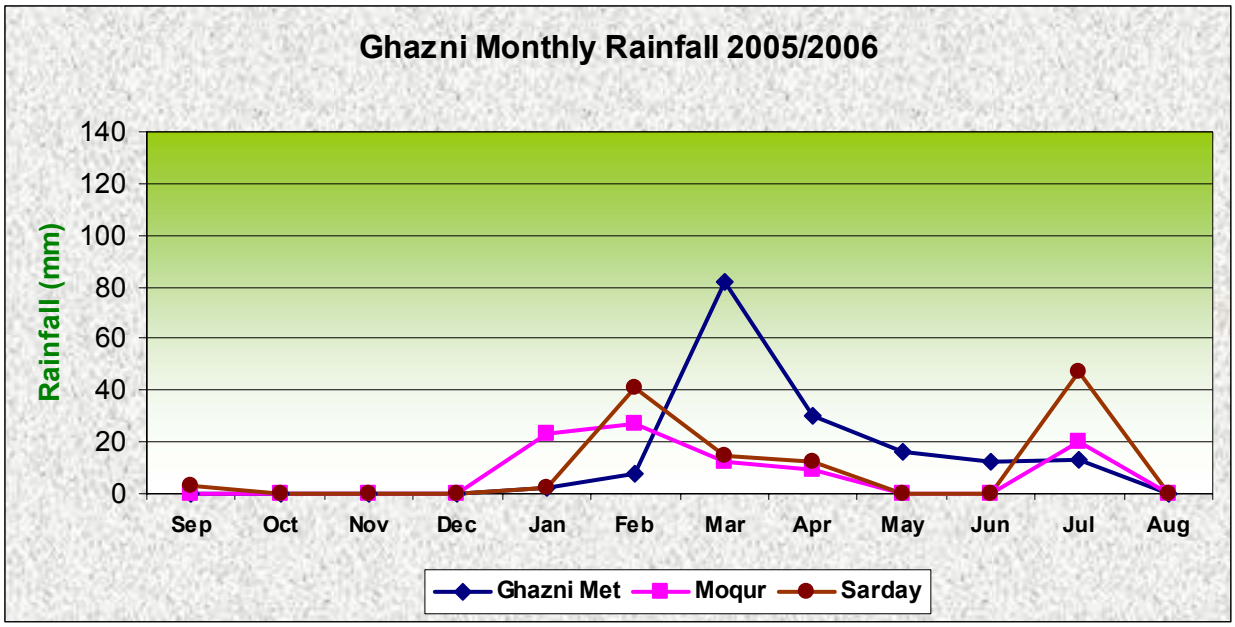
Southern Region



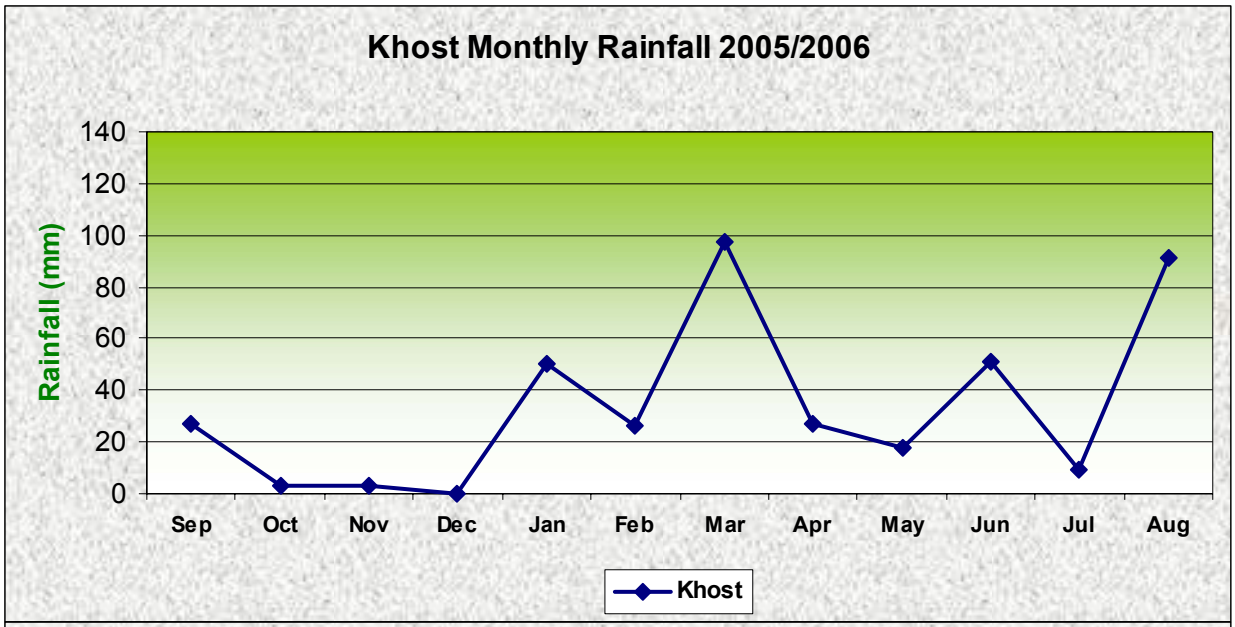


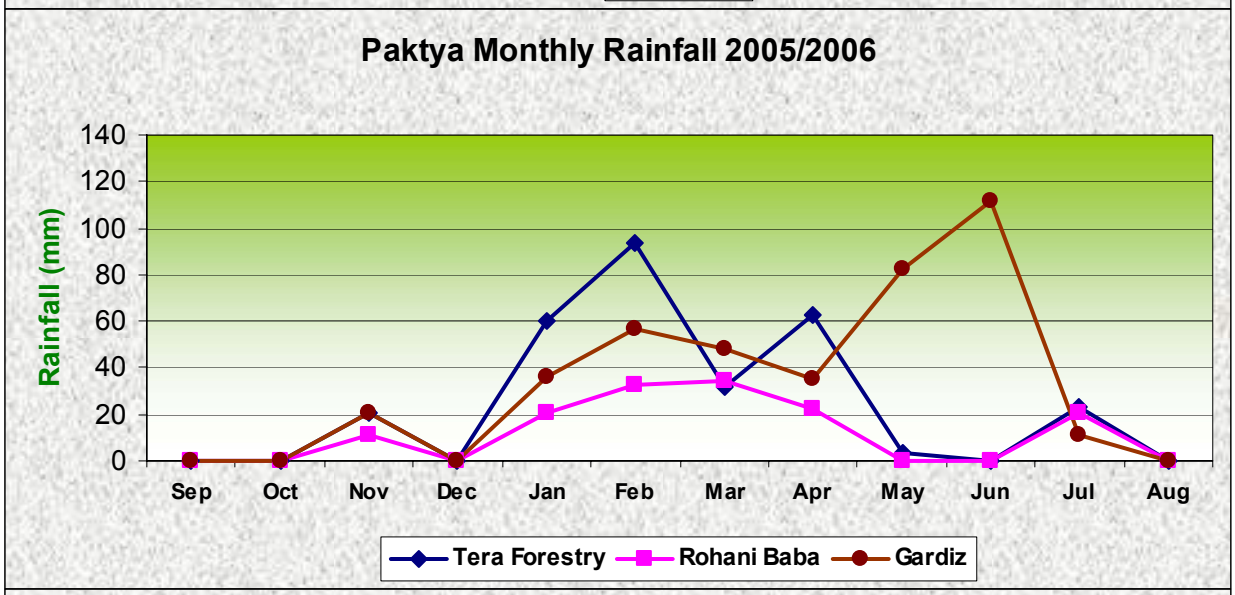


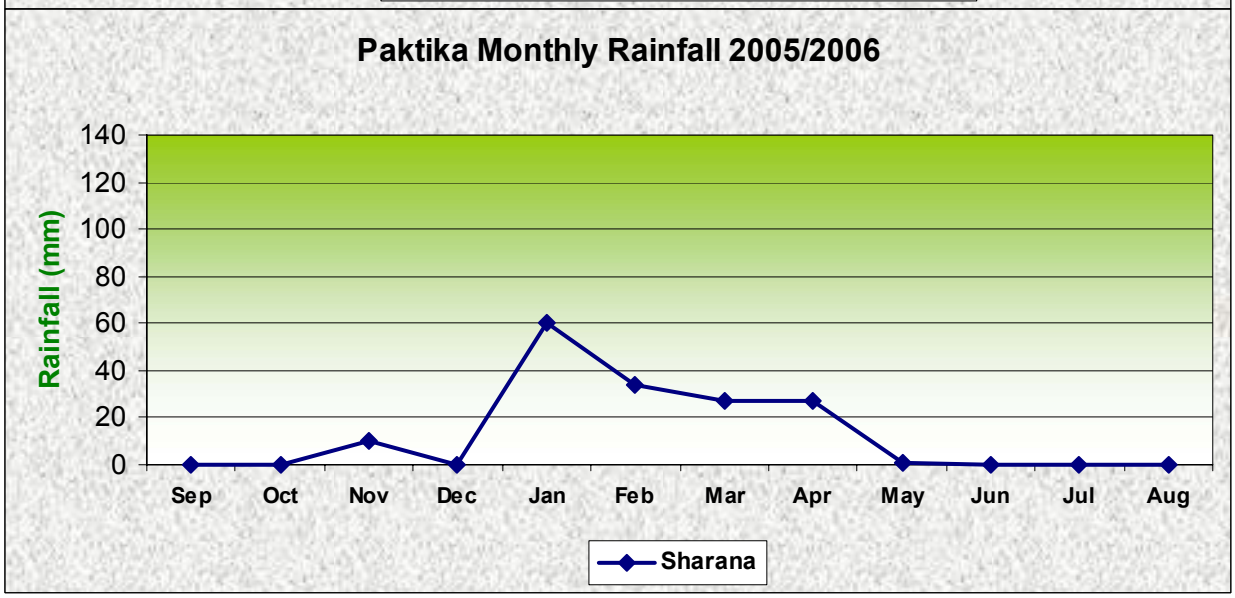
Southern Region



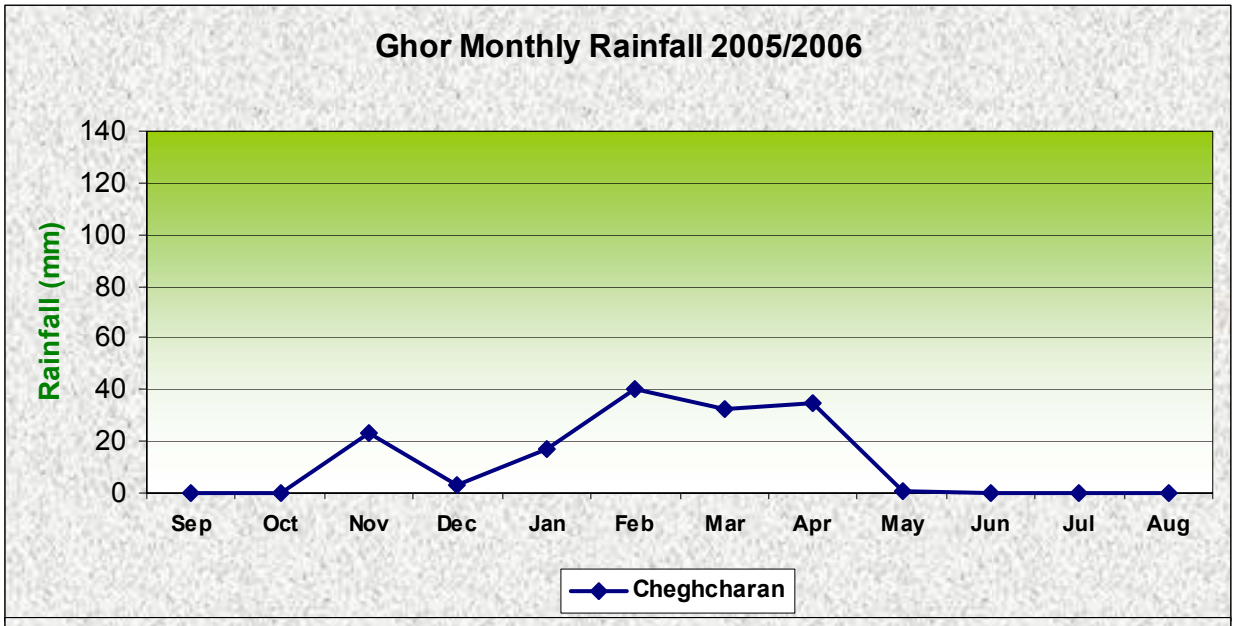
South East Region

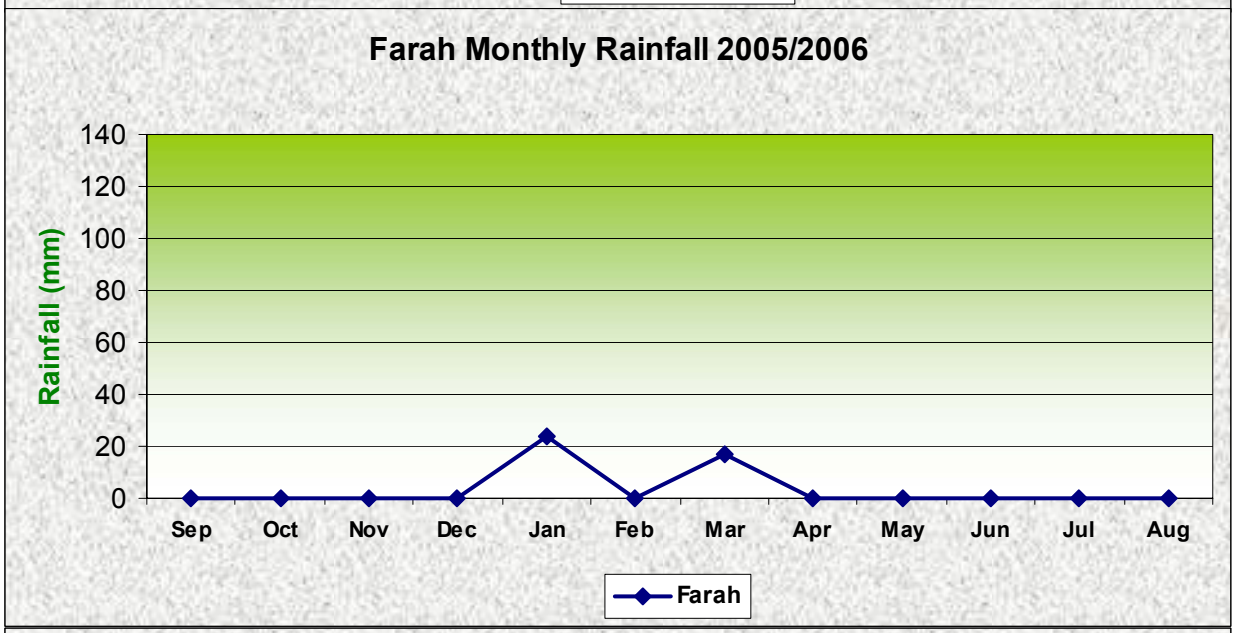


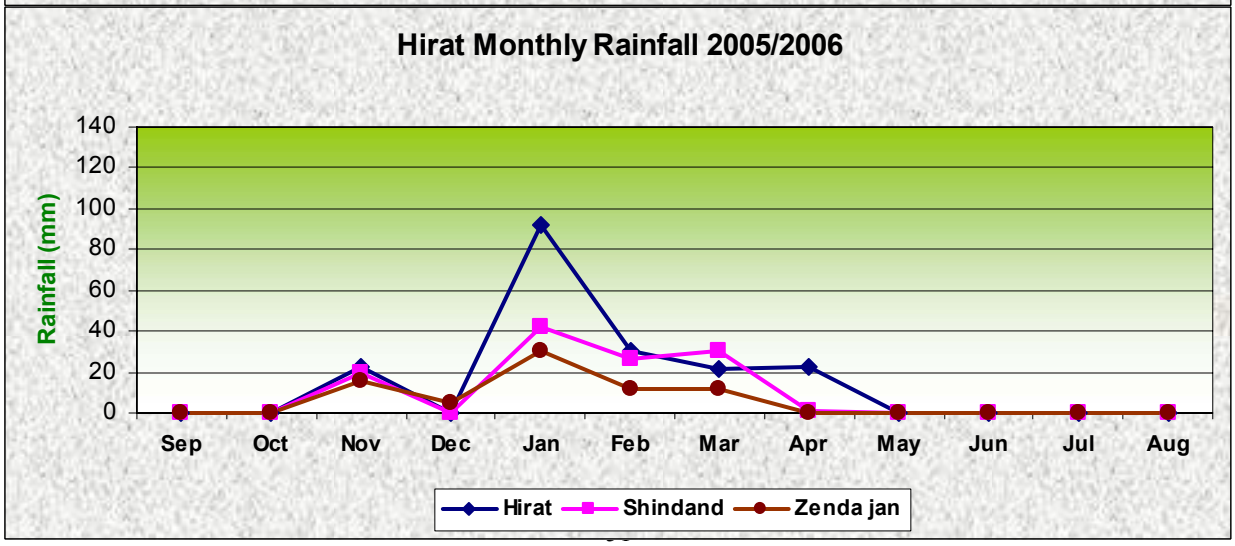




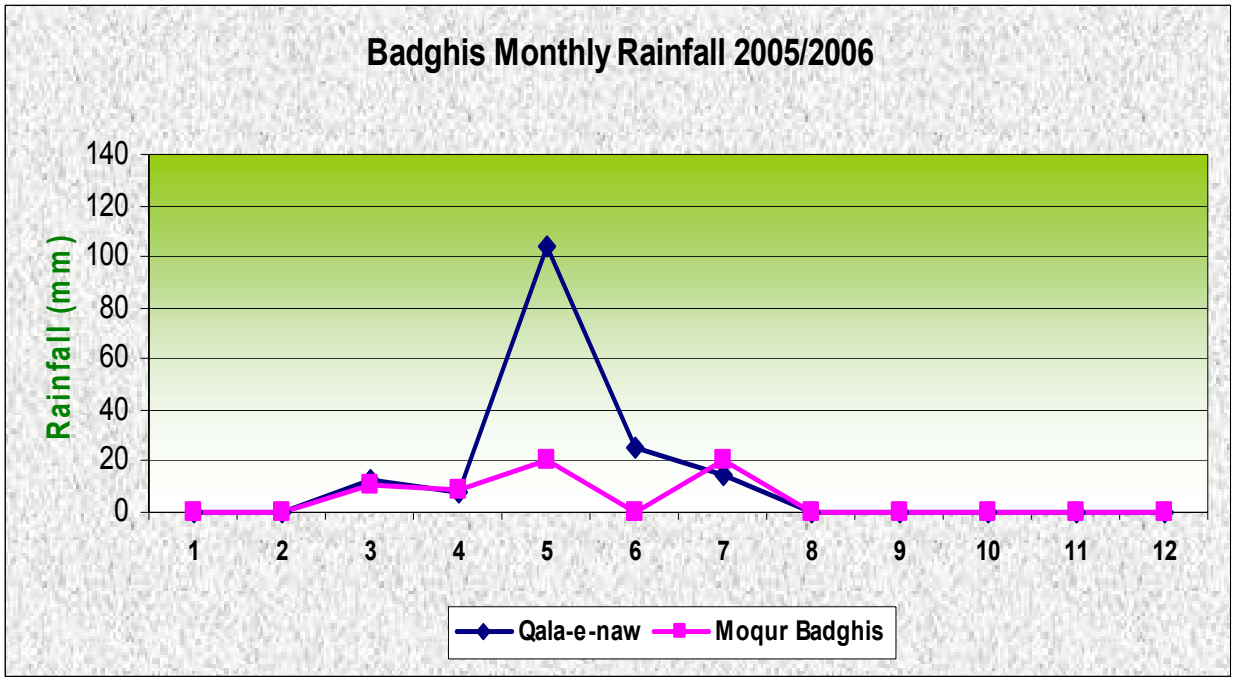
Western Region







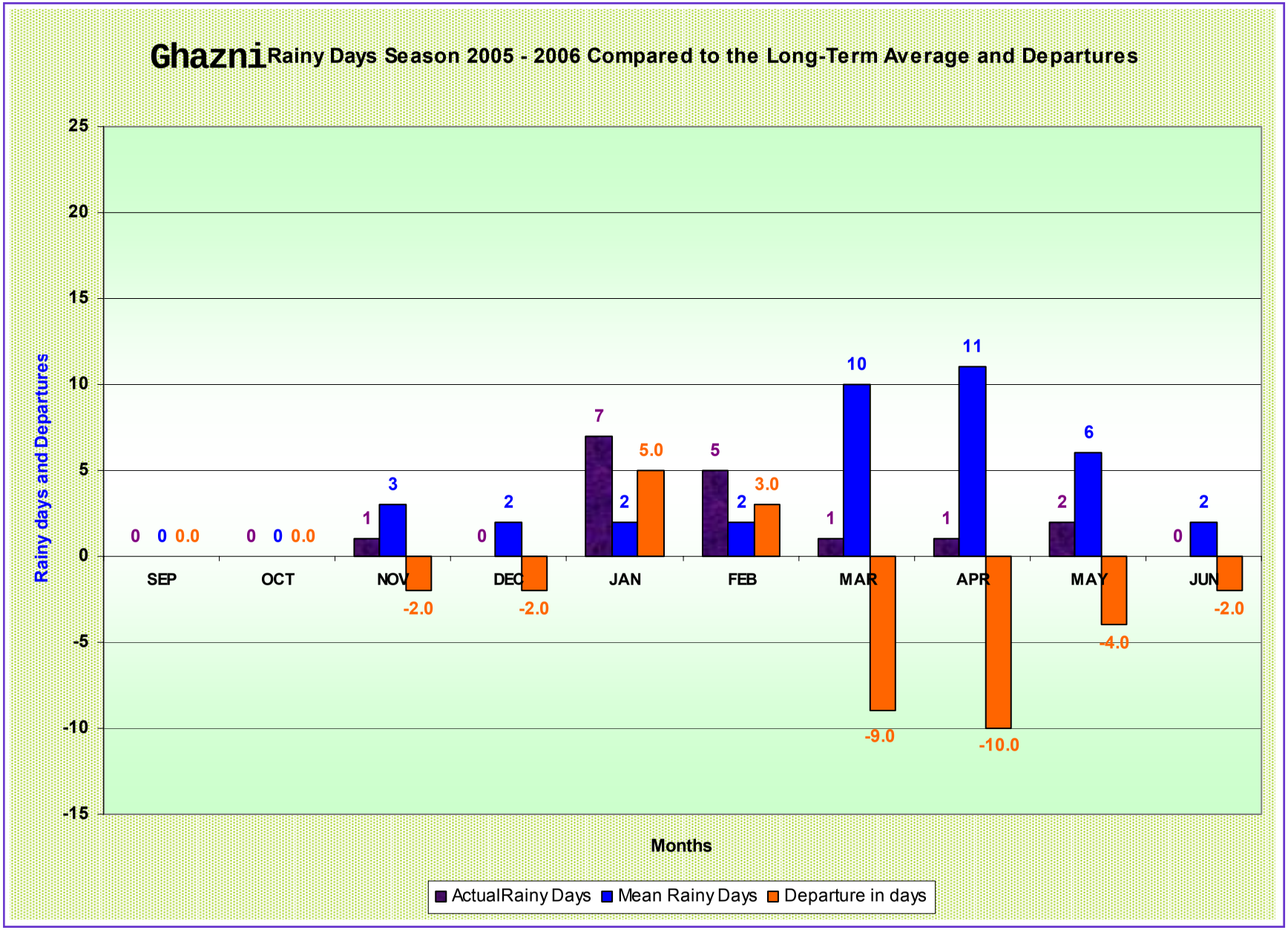
Western Region

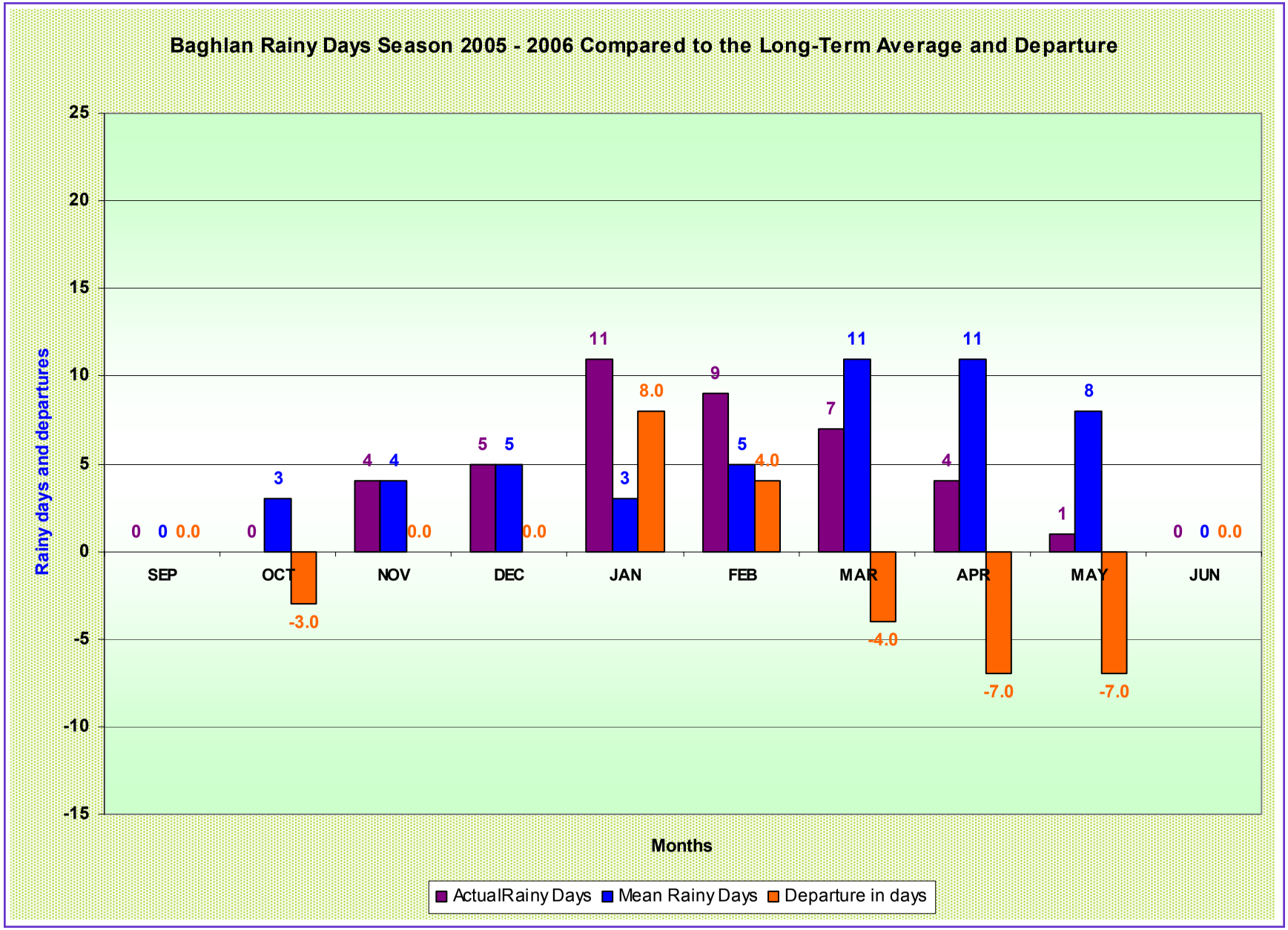


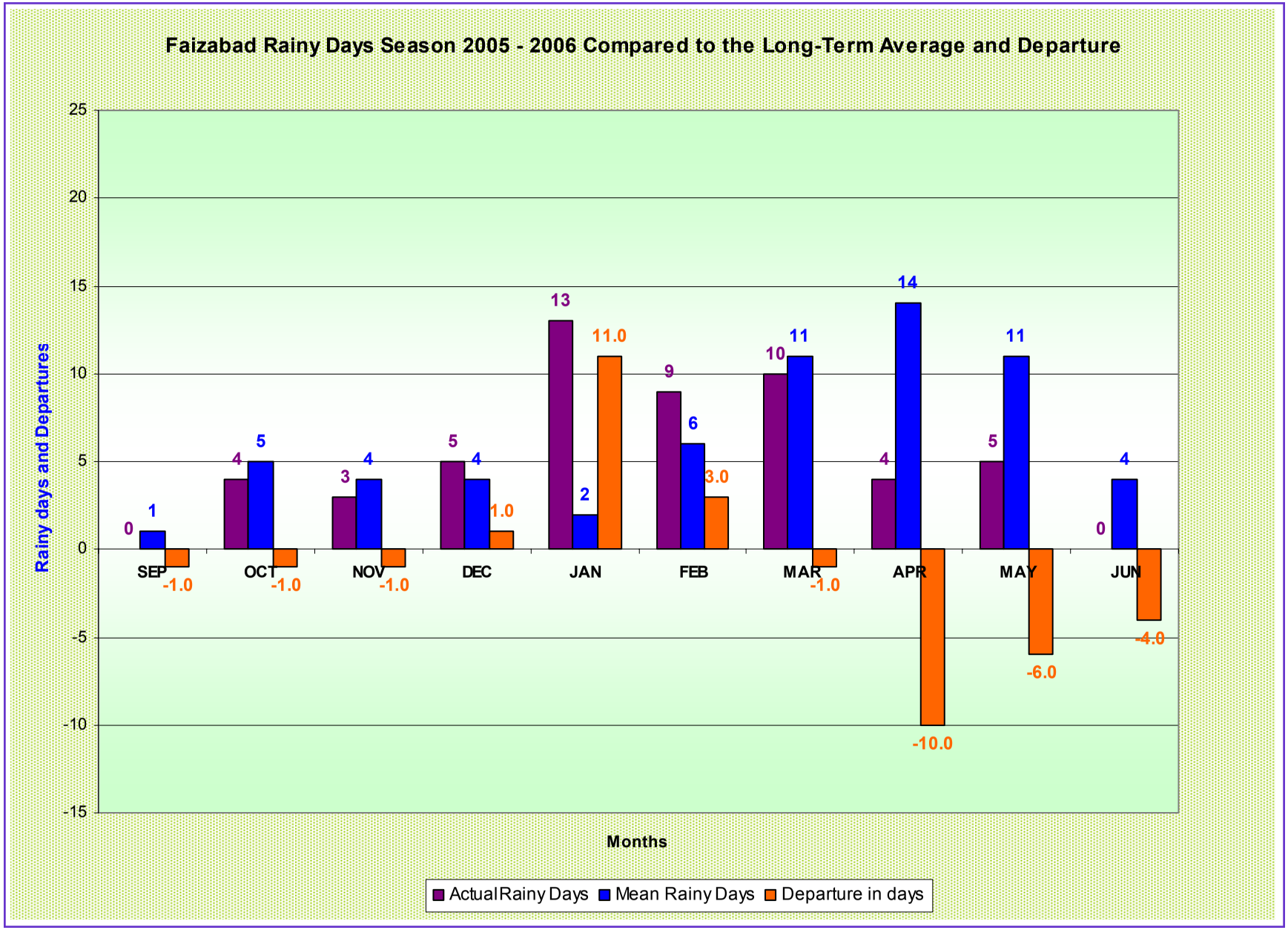
مقایسه روز های بارندگی فصل
(۲۰۰۵ - ۲۰۰۶)

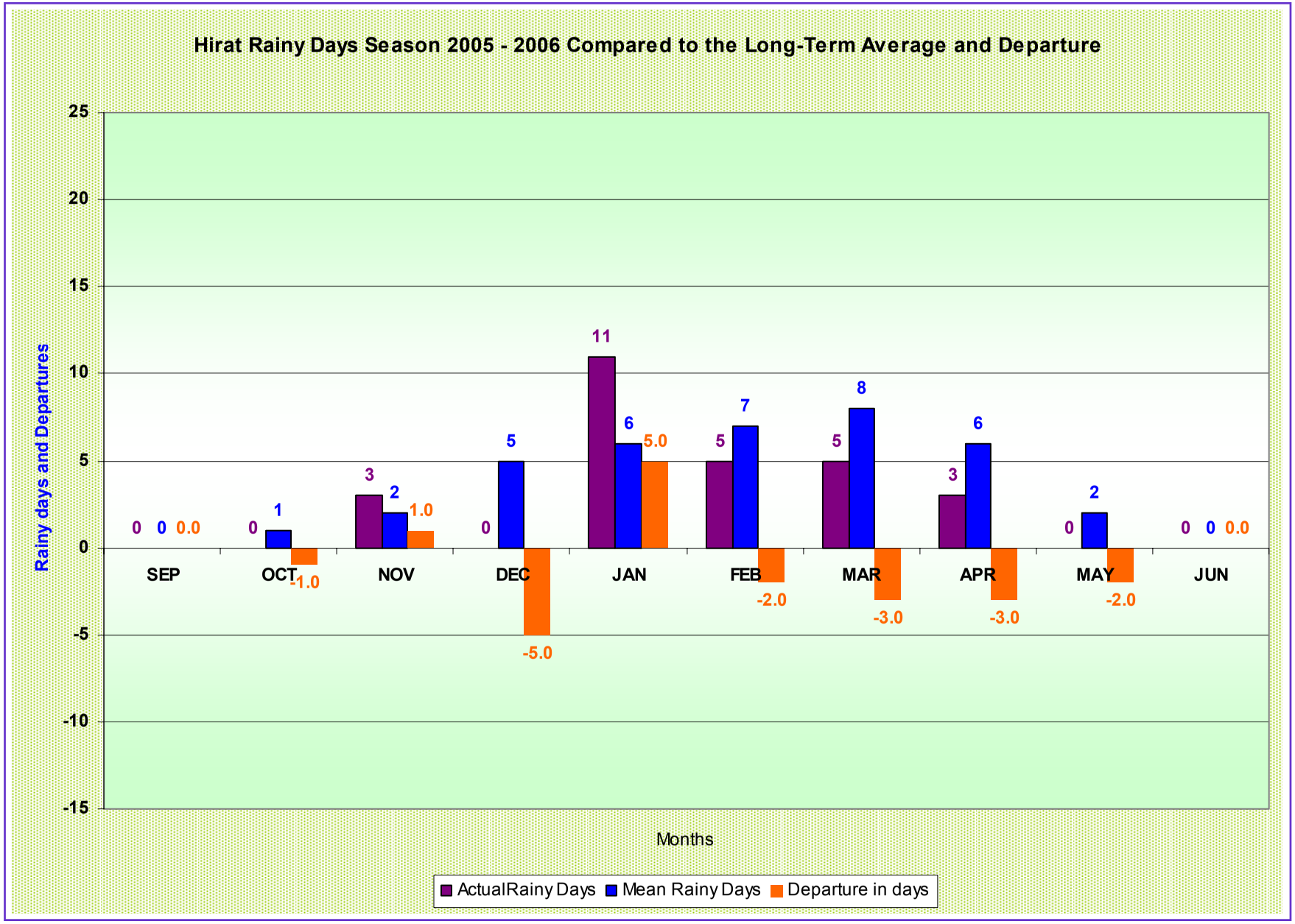
با

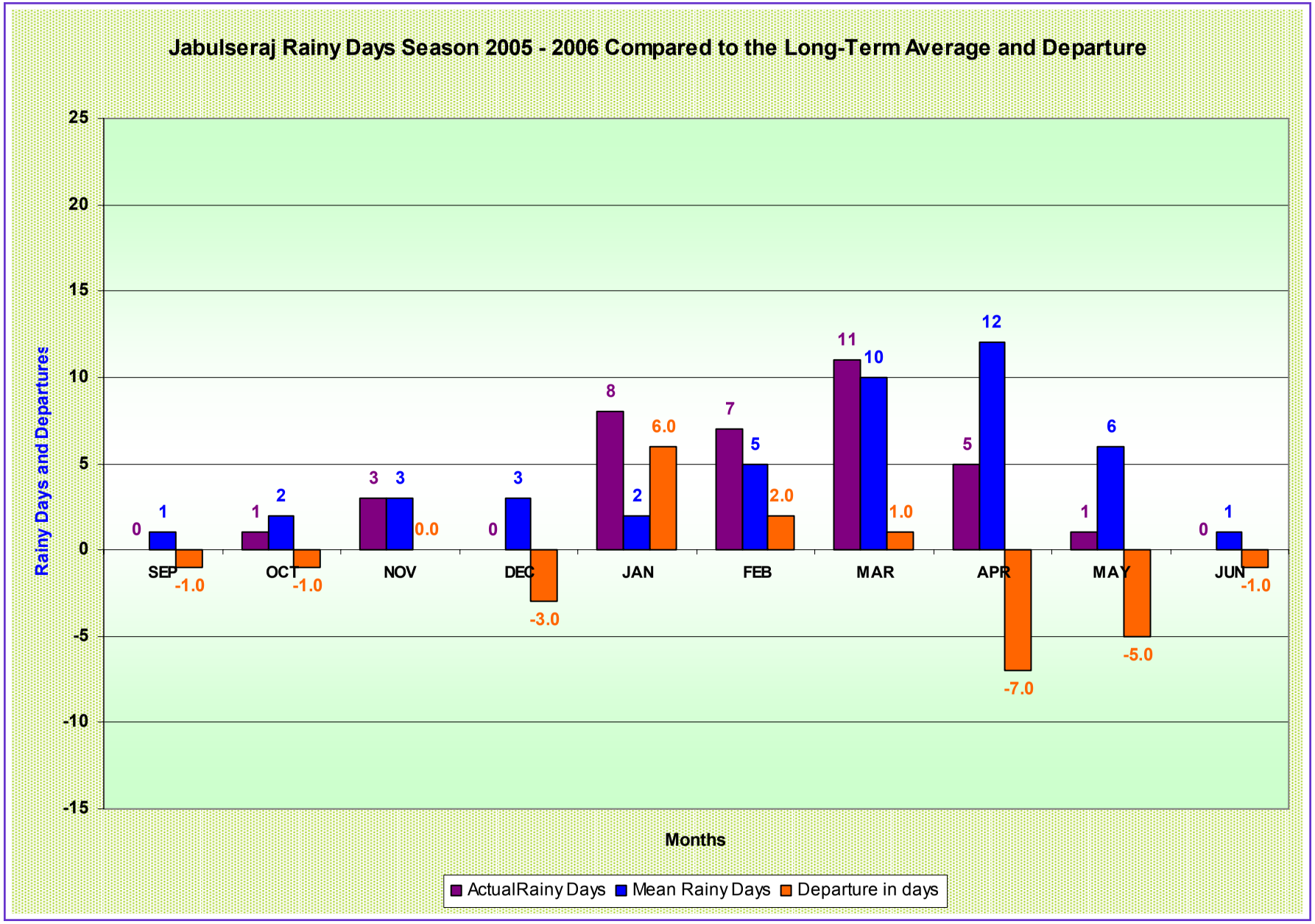
اوسط دراز مدت و انحراف آن

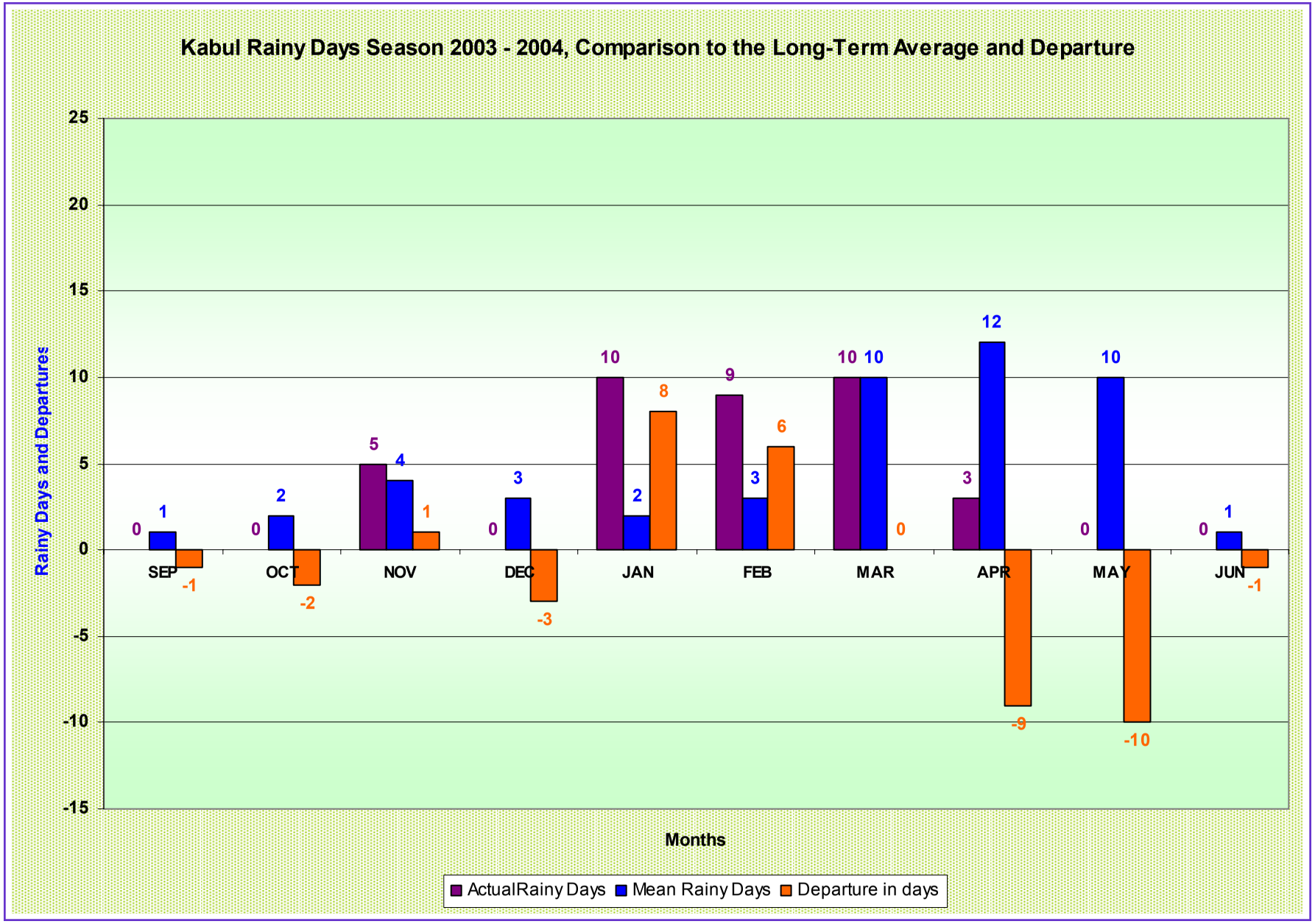

Ghazni Rainy Days Season 2005 - 2006 Compared to the Long-Term Average and Departures
Rainy days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
Months
0 0 0.0
0 0 0.0
1 3 -2.0
0 2 -2.0
7 2 5.0
5 2 3.0
1 10 -9.0
1 11 -10.0
2 6 -4.0
0 2 -2.0
ActualRainy Days
Mean Rainy Days
Departure in days

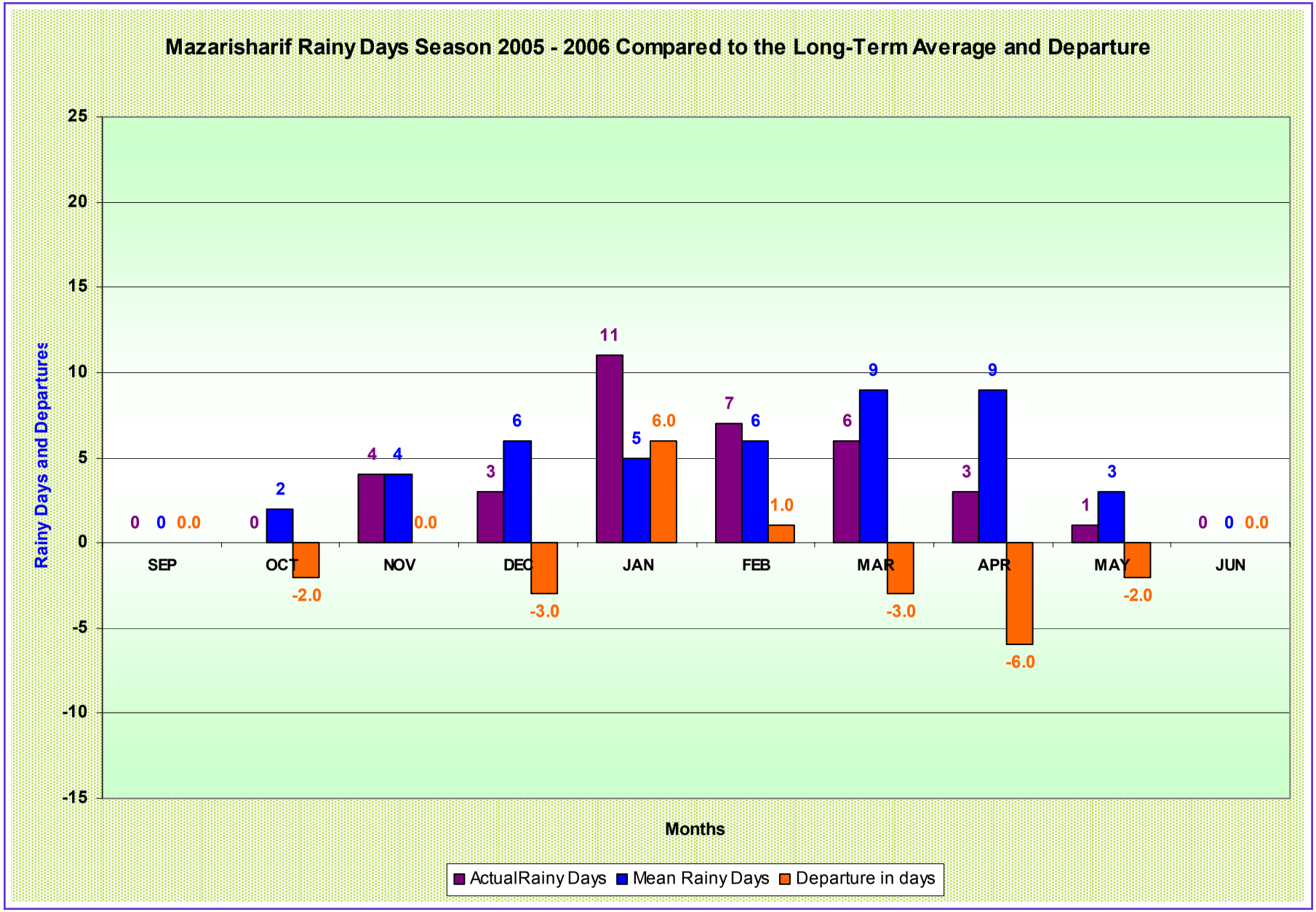

Baghlan Rainy Days Season 2005 - 2006 Compared to the Long-Term Average and Departure
Rainy days and departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
0 0 0.0
0 3 -3.0
4 4 0.0
5 5 0.0
11 3 8.0
9 5 4.0
7 11 -4.0
4 11 -7.0
1 8 -7.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

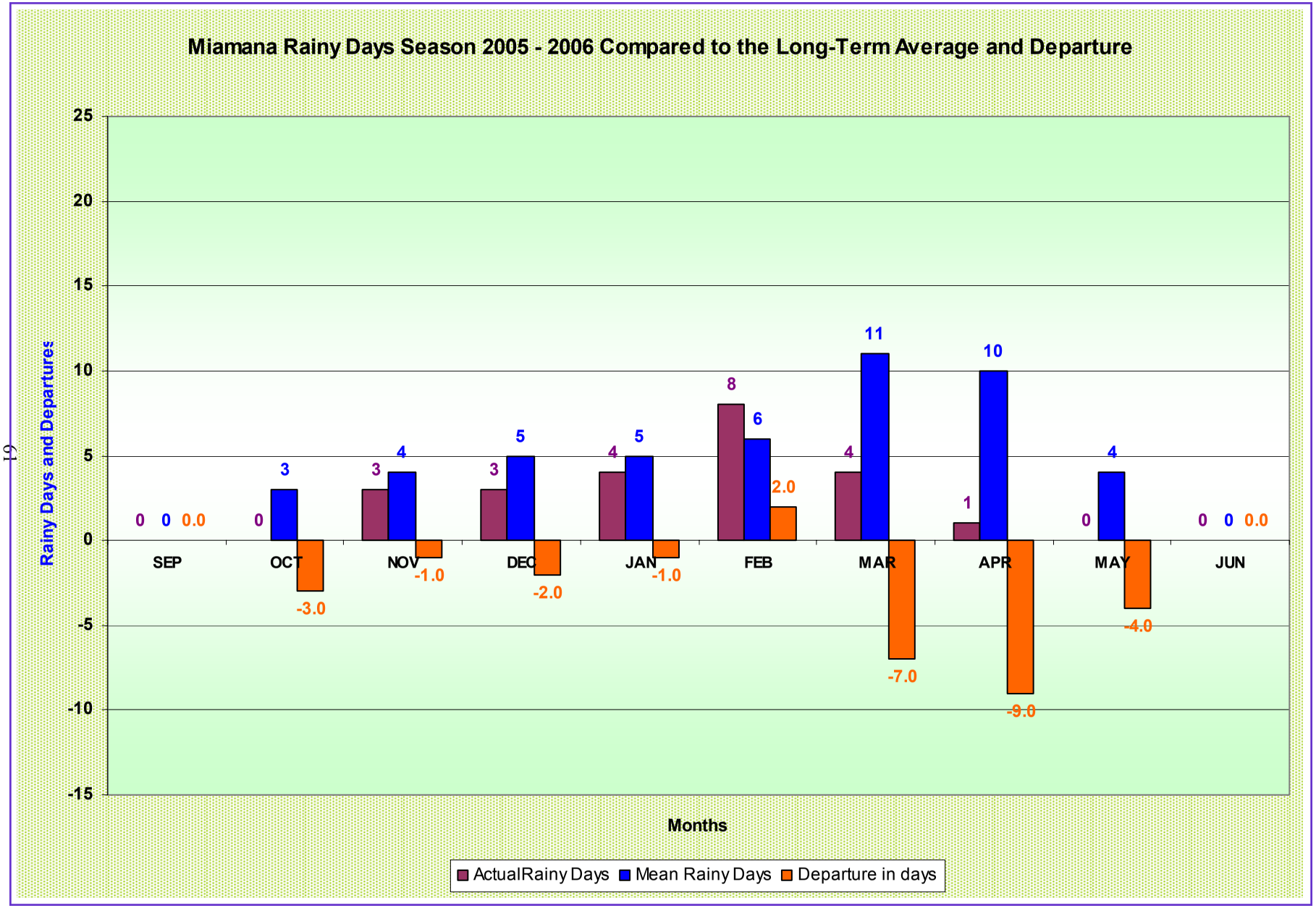

Faizabad Rainy Days Season 2005 - 2006 Compared to the Long-Term Average and Departure
Rainy days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
0
1
-1.0
4
5
-1.0
3
4
-1.0
5
4
1.0
13
2
11.0
9
6
3.0
10
11
-1.0
4
14
-10.0
5
11
-6.0
0
4
-4.0
Months
Actual Rainy Days
Mean Rainy Days
Departure in days

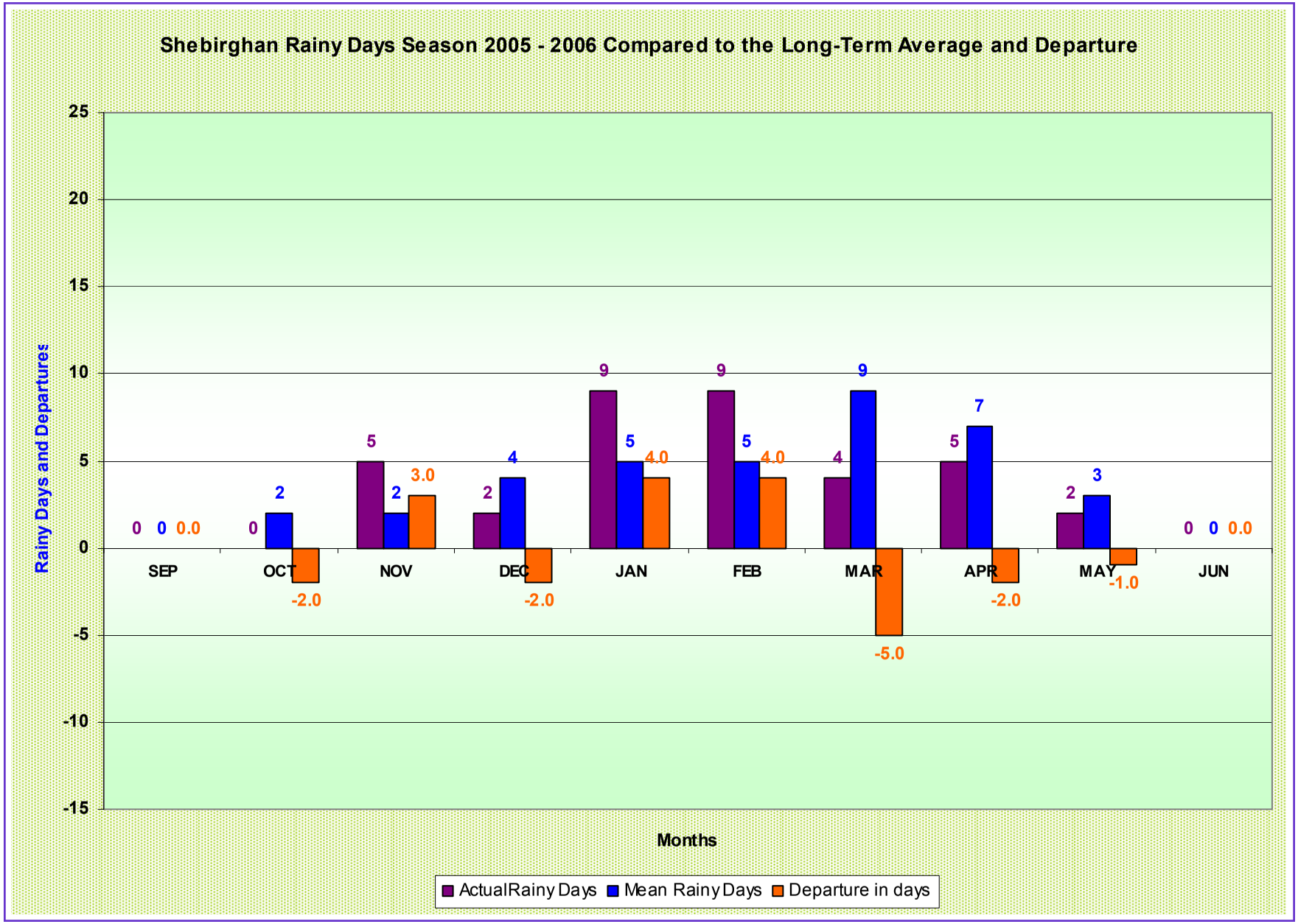

Hirat Rainy Days Season 2005 - 2006 Compared to the Long-Term Average and Departure
Rainy days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
0 0 0.0
0 1 -1.0
3 2 1.0
0 5 -5.0
11 6 5.0
5 7 -2.0
5 8 -3.0
3 6 -3.0
0 2 -2.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

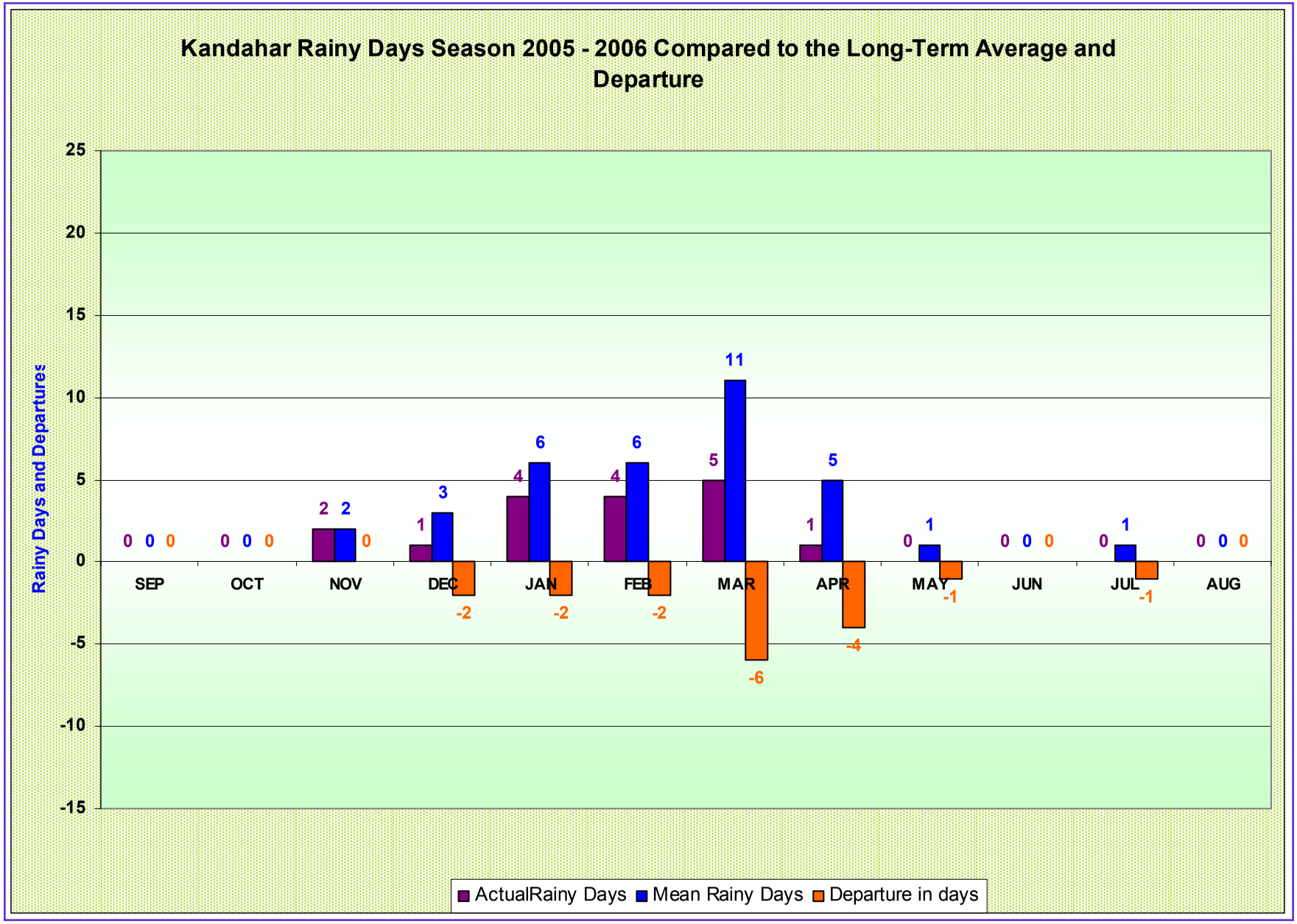

Jabulseraj Rainy Days Season 2005 - 2006 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
0
1
-1.0
1
2
-1.0
3
3
0.0
0
3
-3.0
8
2
6.0
7
5
2.0
11
10
1.0
5
12
-7.0
1
6
-5.0
0
1
-1.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

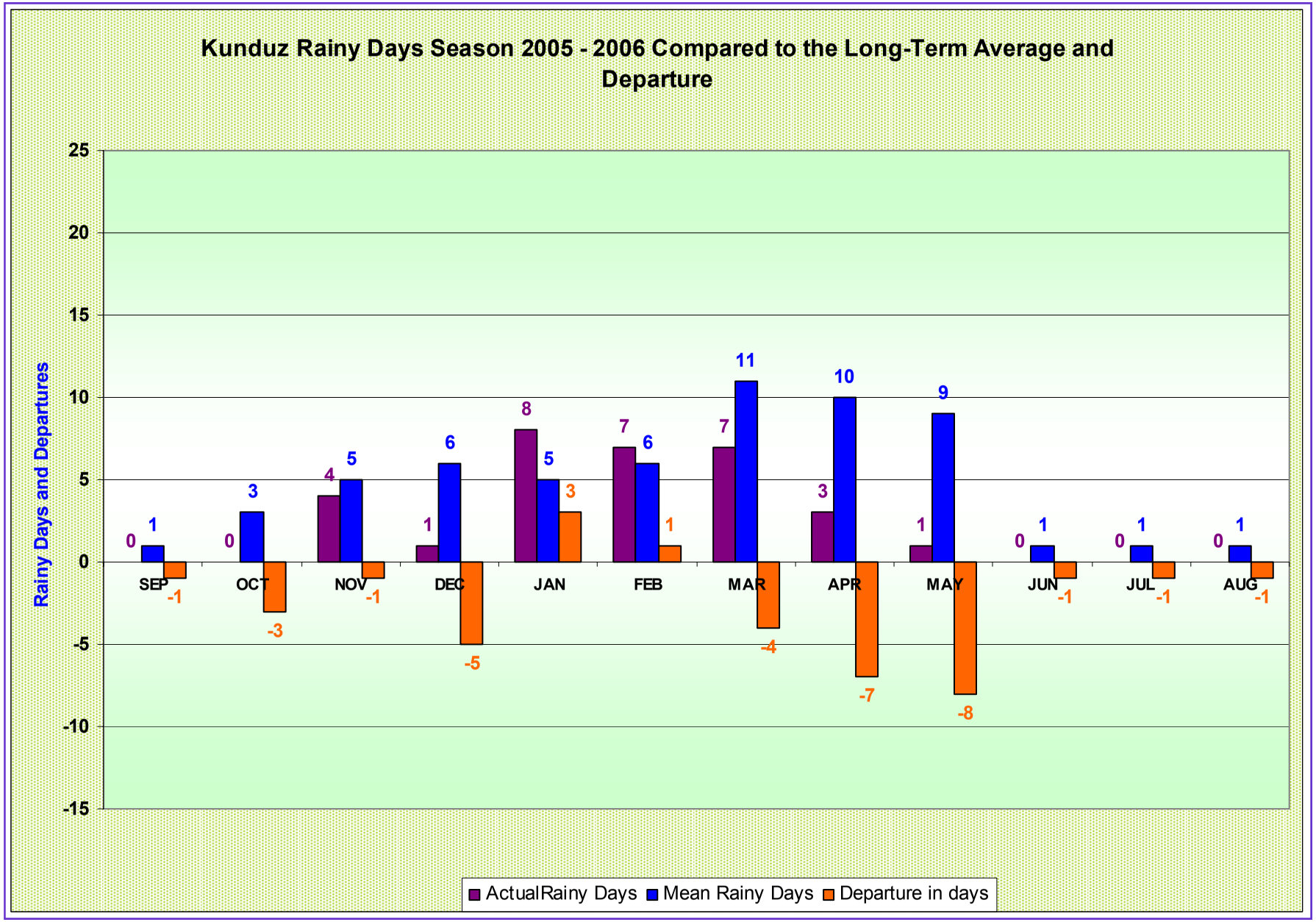

Kabul Rainy Days Season 2003 - 2004, Comparison to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
0 1 -1
0 2 -2
5 4 1
0 3 -3
10 2 8
9 3 6
10 10 0
3 12 -9
0 10 -10
0 1 -1
Months
ActualRainy Days
Mean Rainy Days
Departure in days


Mazarisharif Rainy Days Season 2005 - 2006 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
0 0 0.0
0 2 -2.0
4 4 0.0
3 6 -3.0
11 5 6.0
7 6 1.0
6 9 -3.0
3 9 -6.0
1 3 -2.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days


Miamana Rainy Days Season 2005 - 2006 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
0 0 0.0
0 3 -3.0
3 4 -1.0
3 5 -2.0
4 5 -1.0
8 6 2.0
4 11 -7.0
1 10 -9.0
0 4 -4.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days

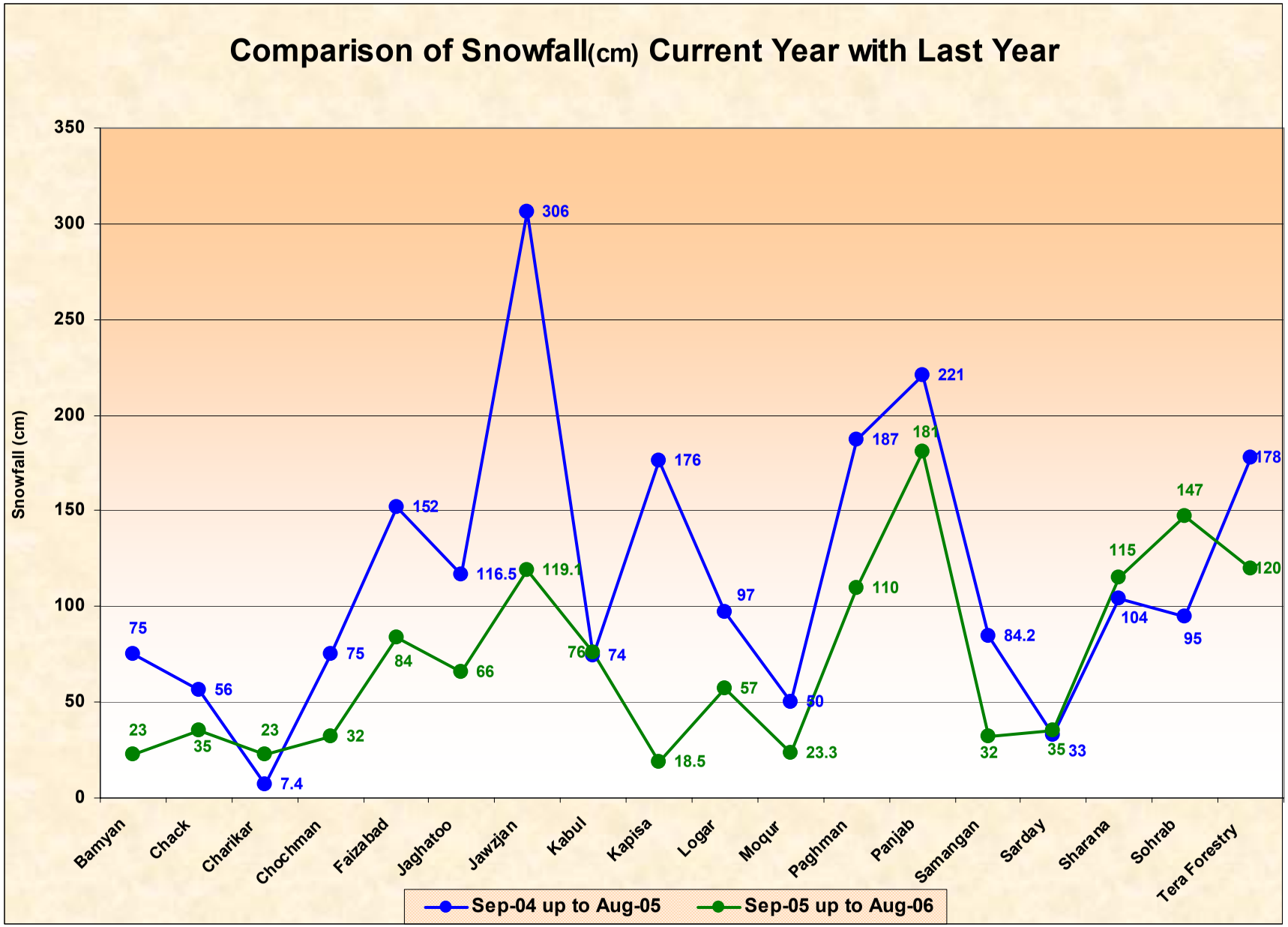

Shebirghan Rainy Days Season 2005 - 2006 Compared to the Long-Term Average and Departure
Rainy Days and Departures
25
20
15
10
5
0
-5
-10
-15
SEP
OCT
NOV
DEC
JAN
FEB
MAR
APR
MAY
JUN
0 0 0.0
0 2 -2.0
5 2 3.0
2 4 -2.0
9 5 4.0
9 5 4.0
4 9 -5.0
5 7 -2.0
2 3 -1.0
0 0 0.0
Months
ActualRainy Days
Mean Rainy Days
Departure in days


Kandahar Rainy Days Season 2005 - 2006 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
2 2 0
1 3 -2
4 6 -2
4 6 -2
5 11 -6
1 5 -4
0 1 -1
0 0 0
0 1 -1
0 0 0
ActualRainy Days
Mean Rainy Days
Departure in days


Kunduz Rainy Days Season 2005 - 2006 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
0
3
-3
4
5
-1
1
6
-5
8
5
3
7
6
1
7
11
-4
3
10
-7
1
9
-8
0
1
-1
0
1
-1
0
1
-1
ActualRainy Days
Mean Rainy Days
Departure in days

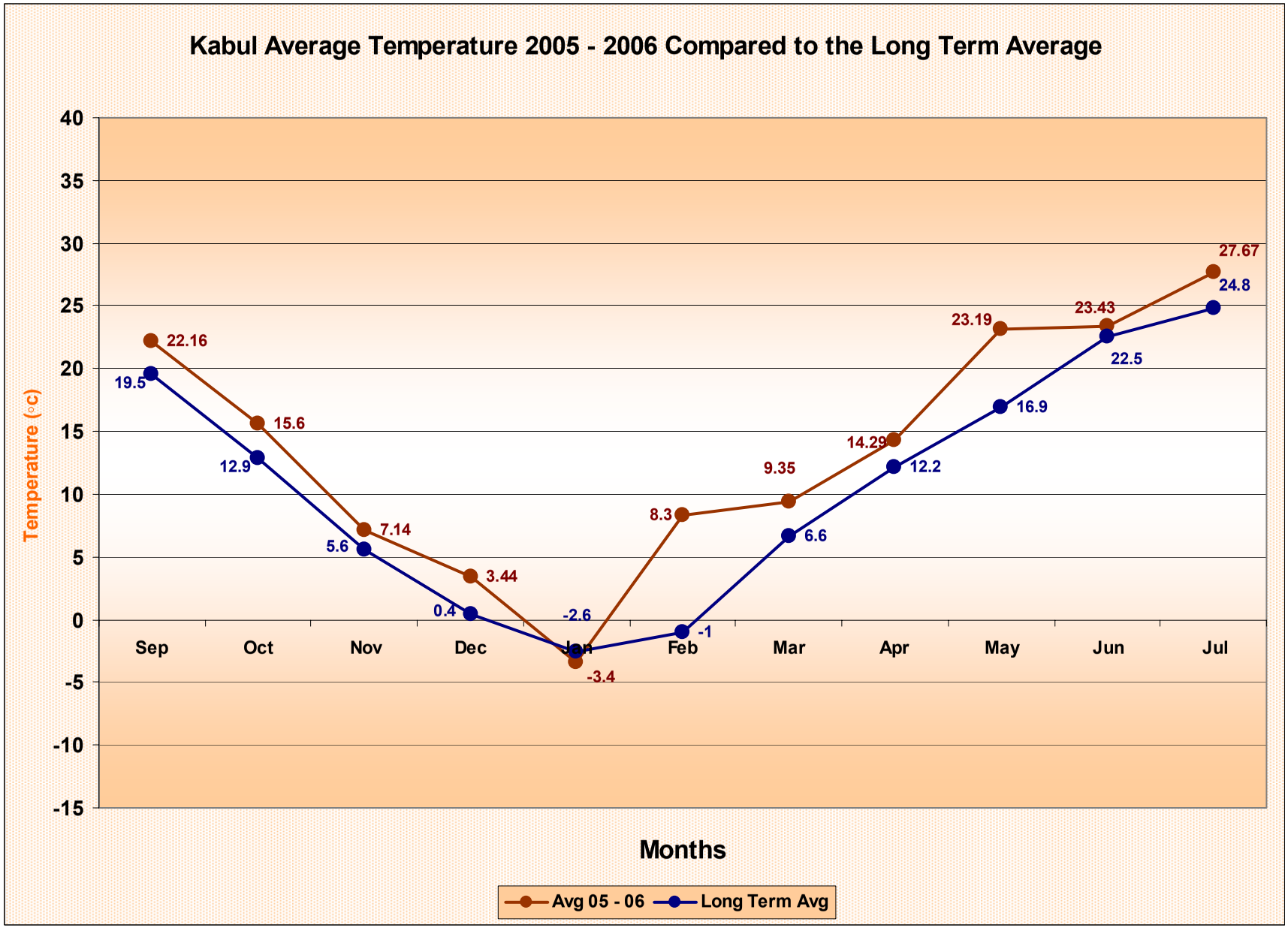
مقایسه برفباری فصل روان زراعتی
(۲۰۰۵ - ۲۰۰۶)

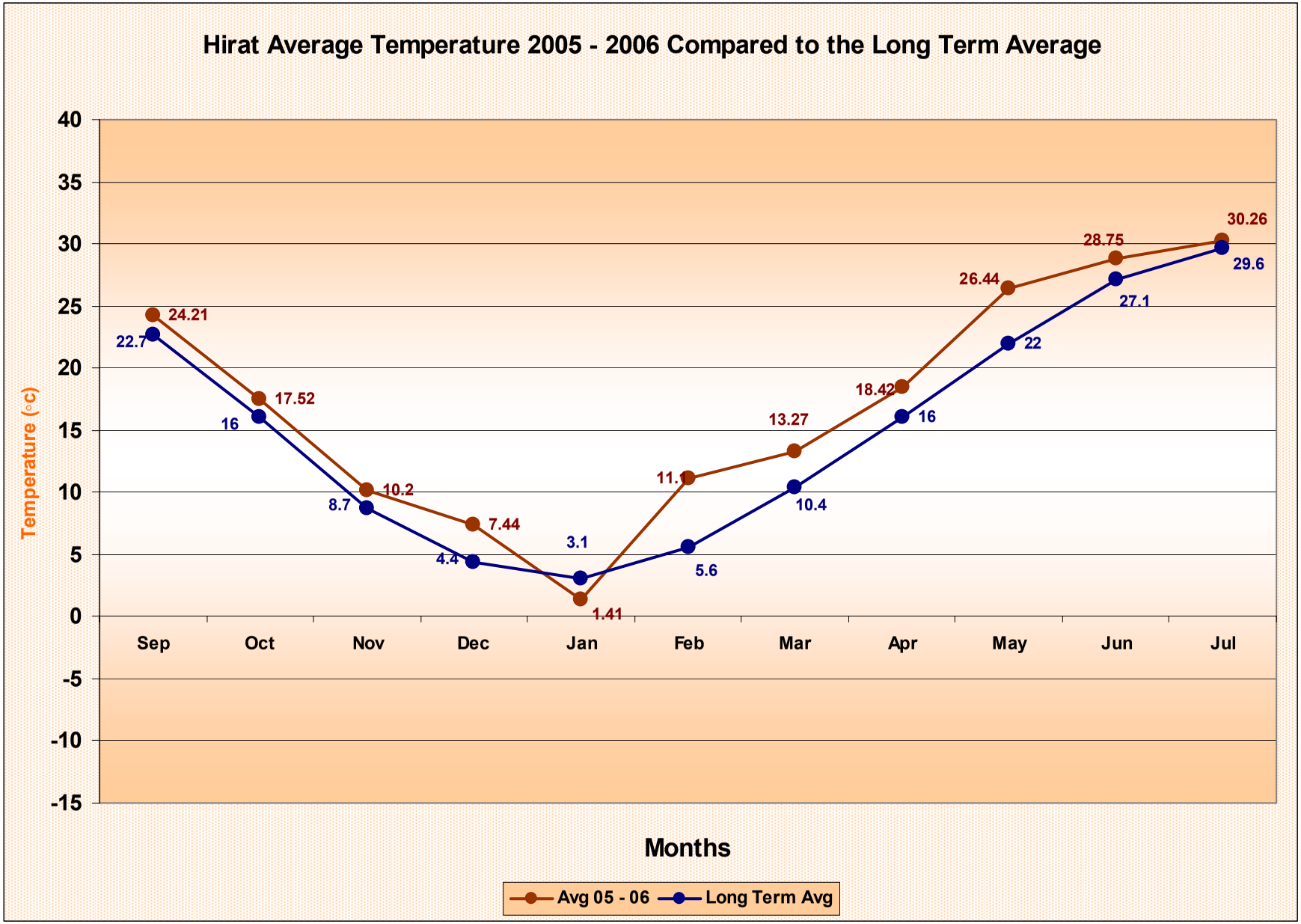
با سال قبل (به سانتی متر)

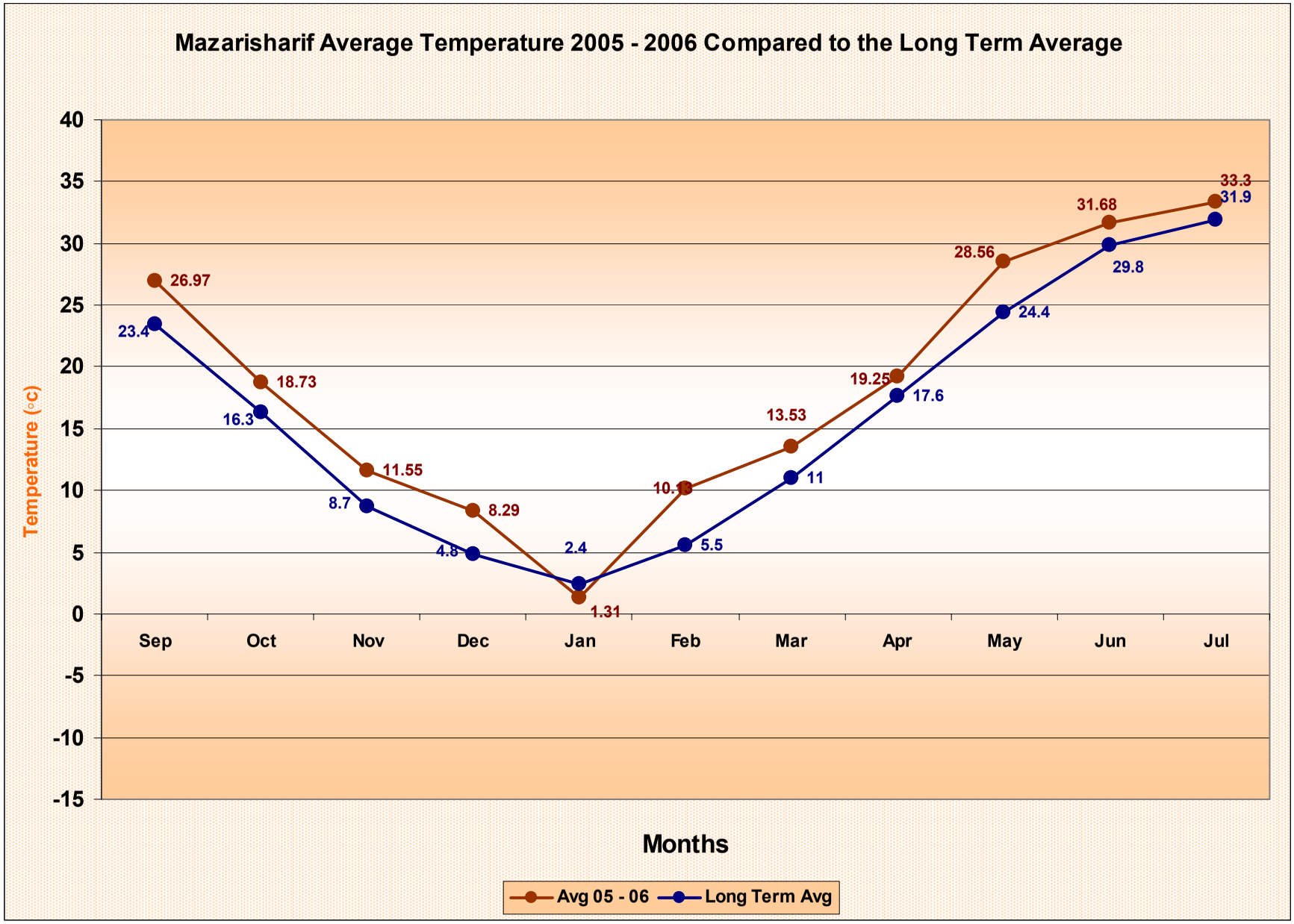

Comparison of Snowfall(cm) Current Year with Last Year
Snowfall (cm)
350
300
250
200
150
100
50
0
Bamyan
Chack
Charikar
Chochman
Faizabad
Jaghatoo
Jawzjan
Kabul
Kapisa
Logar
Moqur
Paghman
Panjab
Samangan
Sarday
Sharana
Sohrab
Tera Forestry
75
56
7.4
75
152
116.5
306
76
74
176
97
50
187
221
84.2
35
33
104
95
178
23
35
23
32
84
66
119.1
18.5
57
23.3
110
181
32
35
115
147
120
Sep-04 up to Aug-05
Sep-05 up to Aug-06

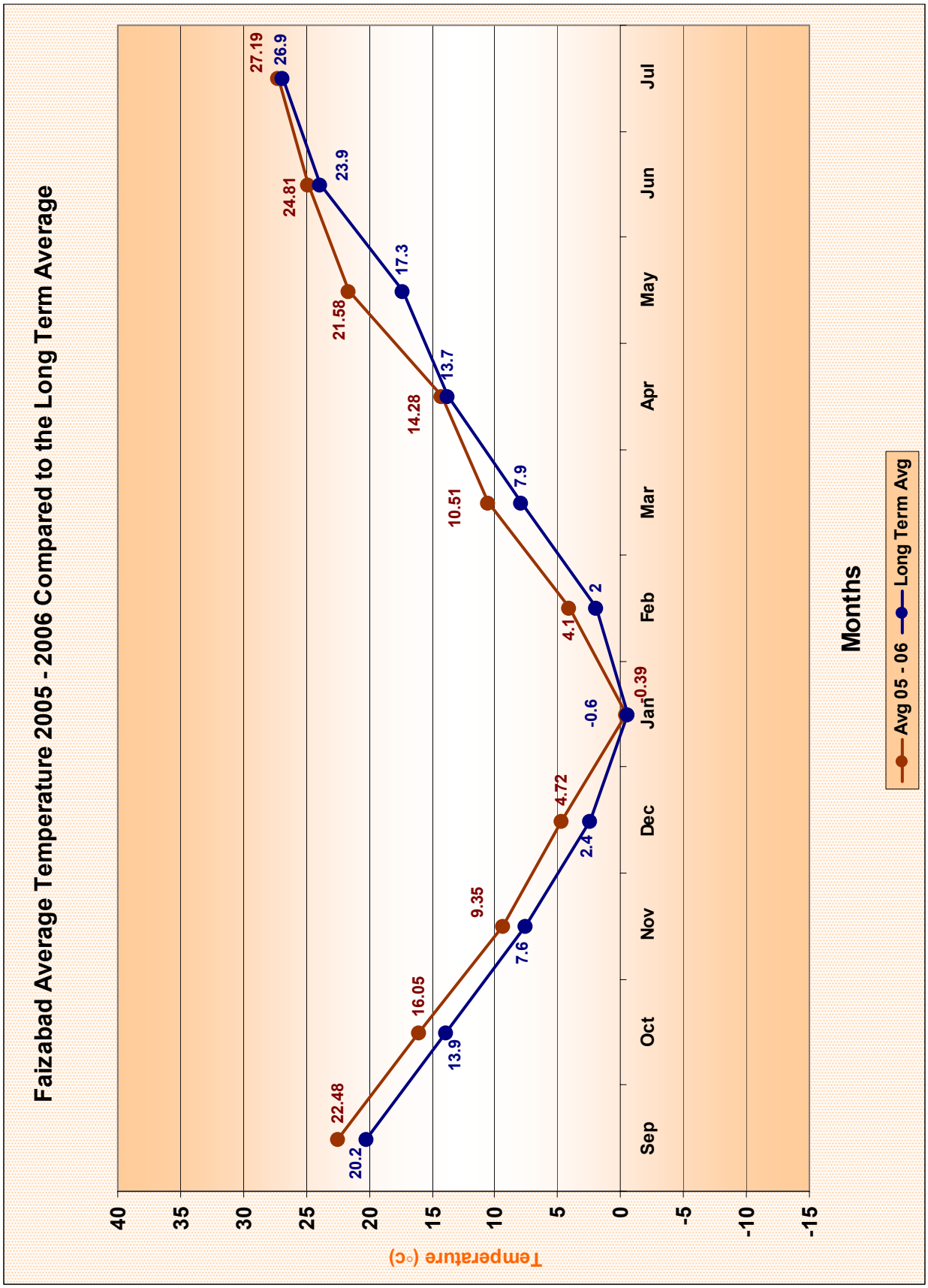
مقایسه اوسط درجه حرارت فصل
(۲۰۰۵ - ۲۰۰۶)

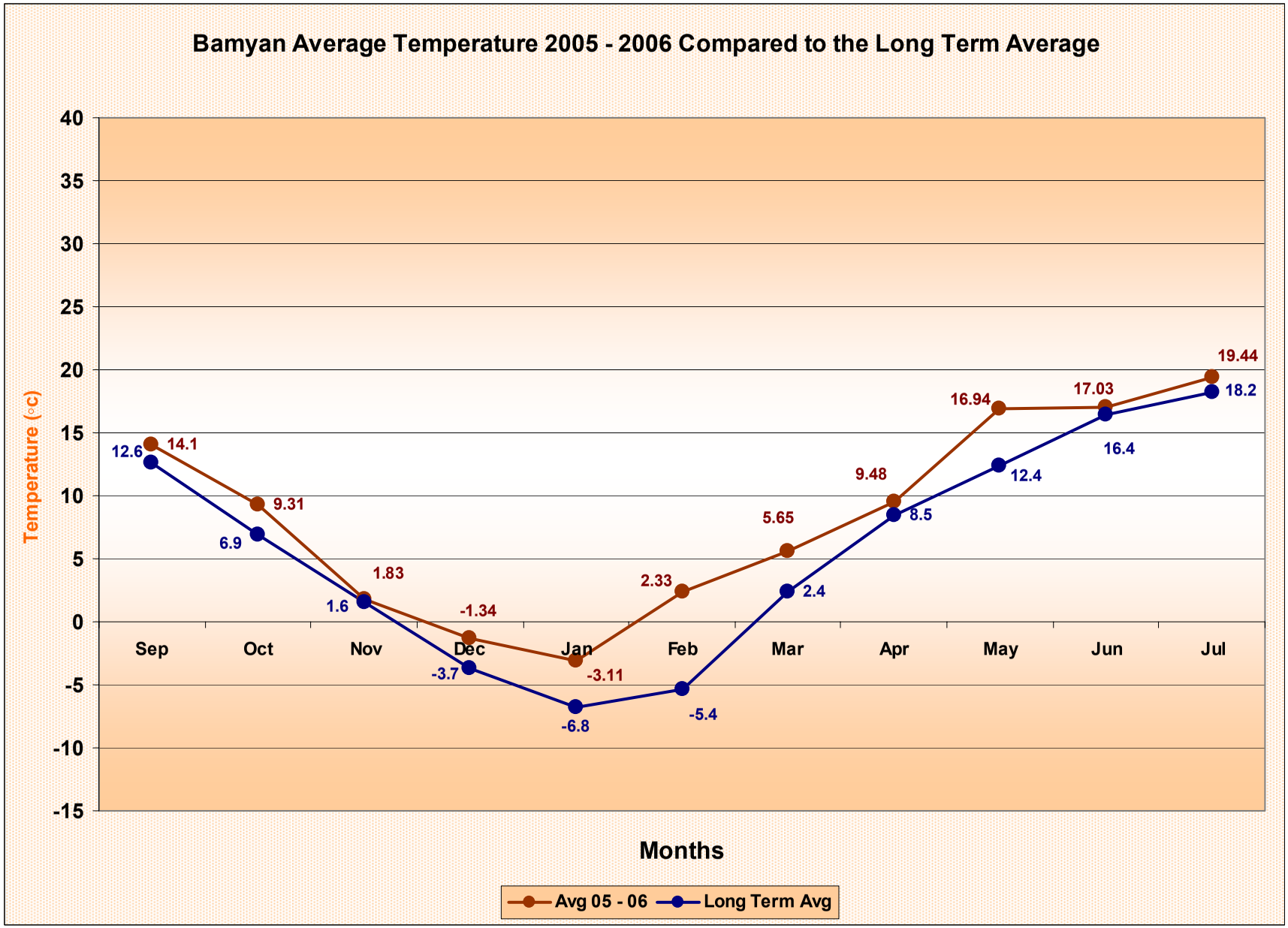
با اوسط درازمدت درجه حرارت

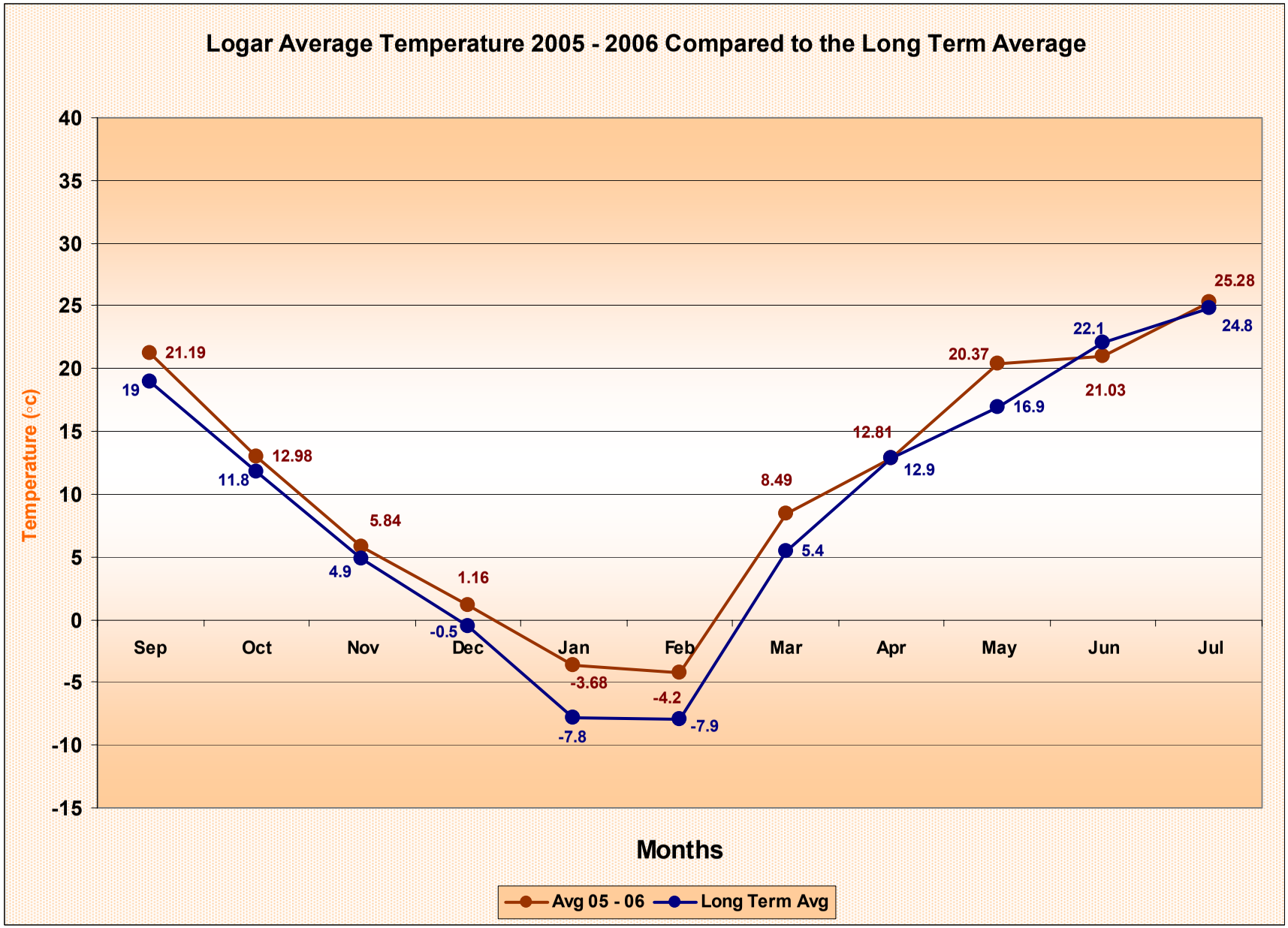

Kabul Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
22.16
15.6
7.14
3.44
-3.4
8.3
9.35
14.29
23.19
23.43
27.67
19.5
12.9
5.6
0.4
-2.6
-1
6.6
12.2
16.9
22.5
24.8
Months
Avg 05 - 06
Long Term Avg

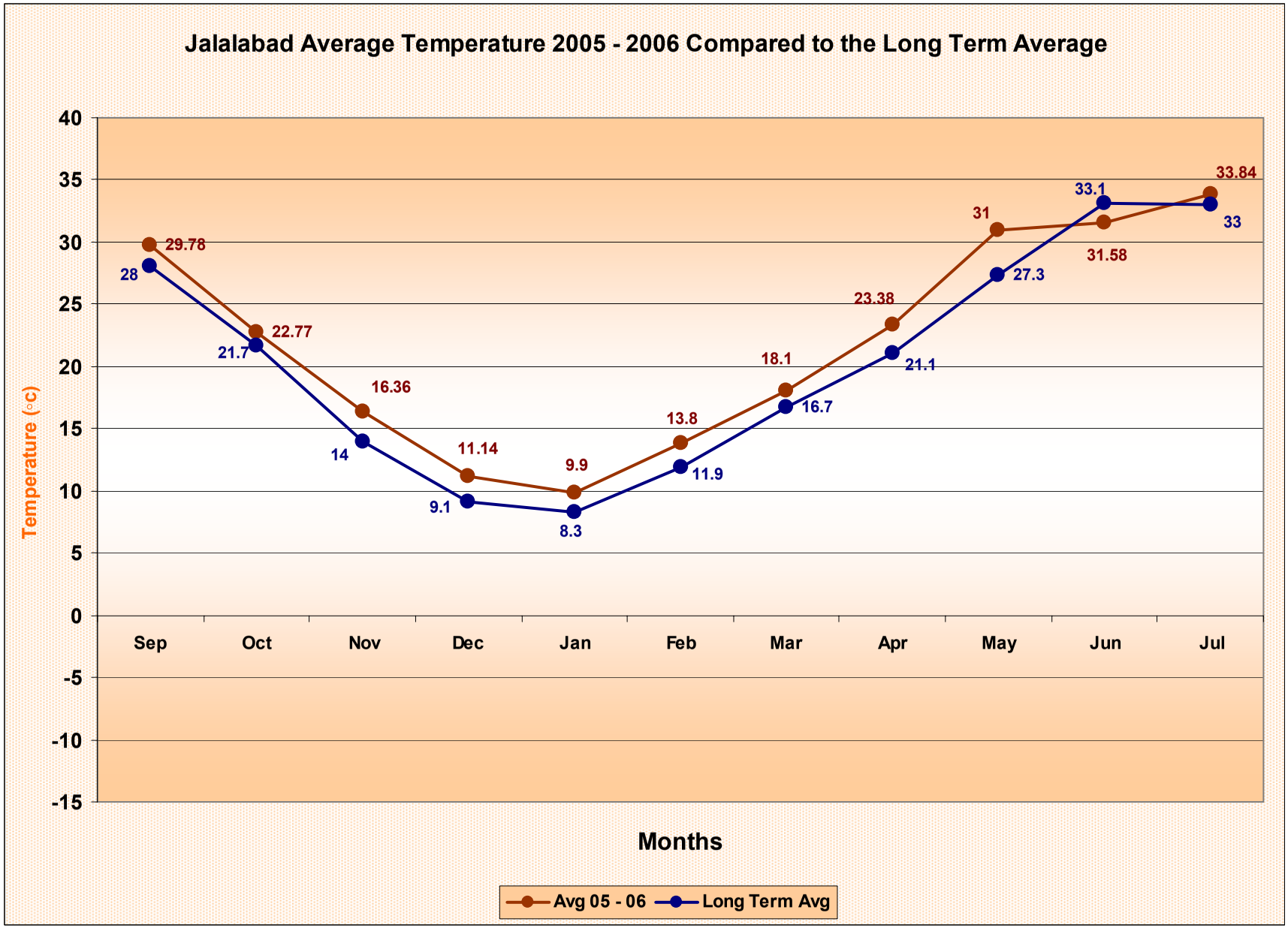

Hirat Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
24.21
17.52
10.2
7.44
1.41
11.1
13.27
18.42
26.44
28.75
30.26
22.7
16
8.7
4.4
3.1
5.6
10.4
16
22
27.1
29.6
Months
Avg 05 - 06
Long Term Avg

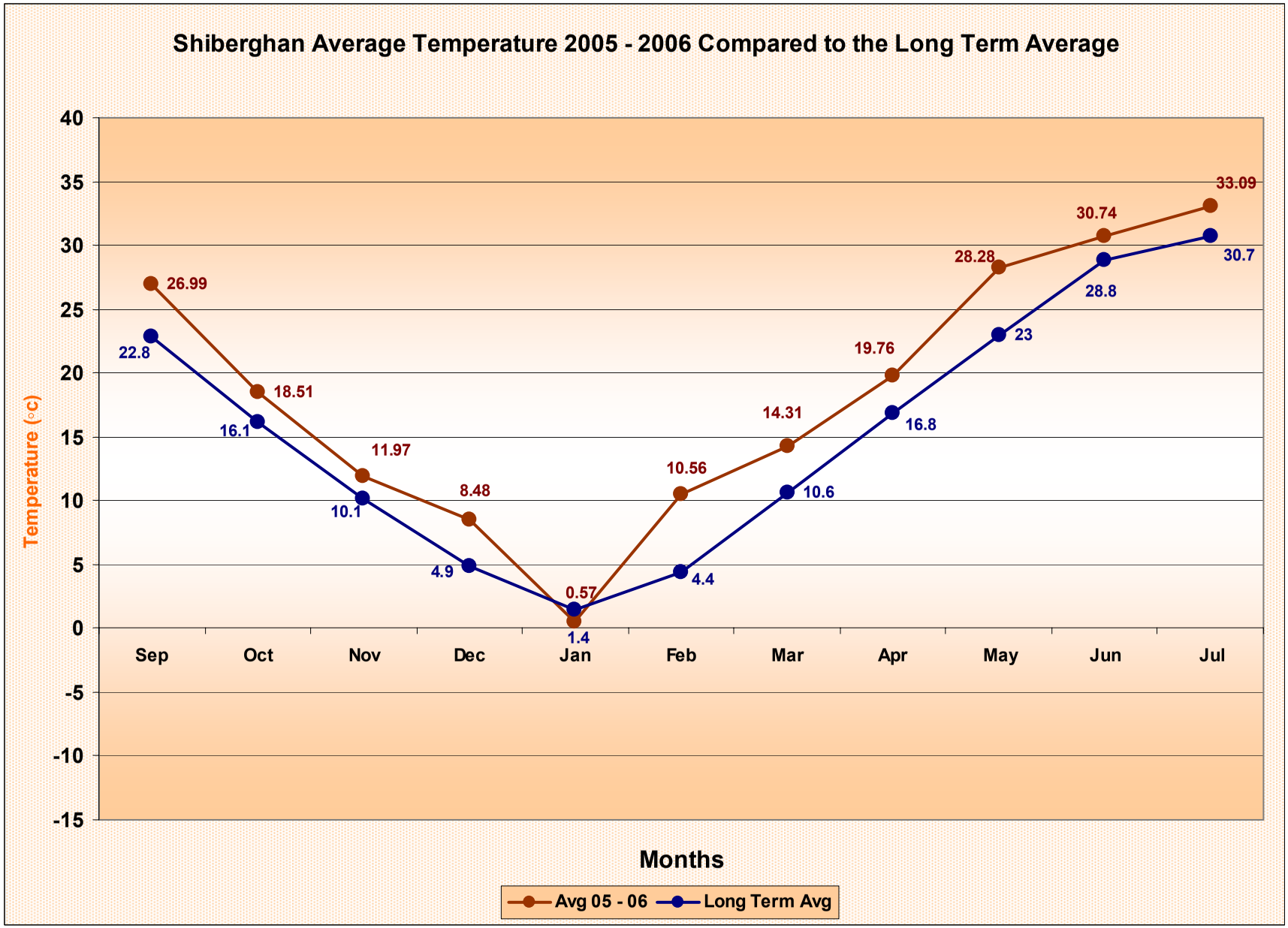

Mazarisharif Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
26.97
18.73
11.55
8.29
1.31
10.13
13.53
19.25
28.56
31.68
33.3
23.4
16.3
8.7
4.8
2.4
5.5
11
17.6
24.4
29.8
31.9
Months
Avg 05 - 06
Long Term Avg

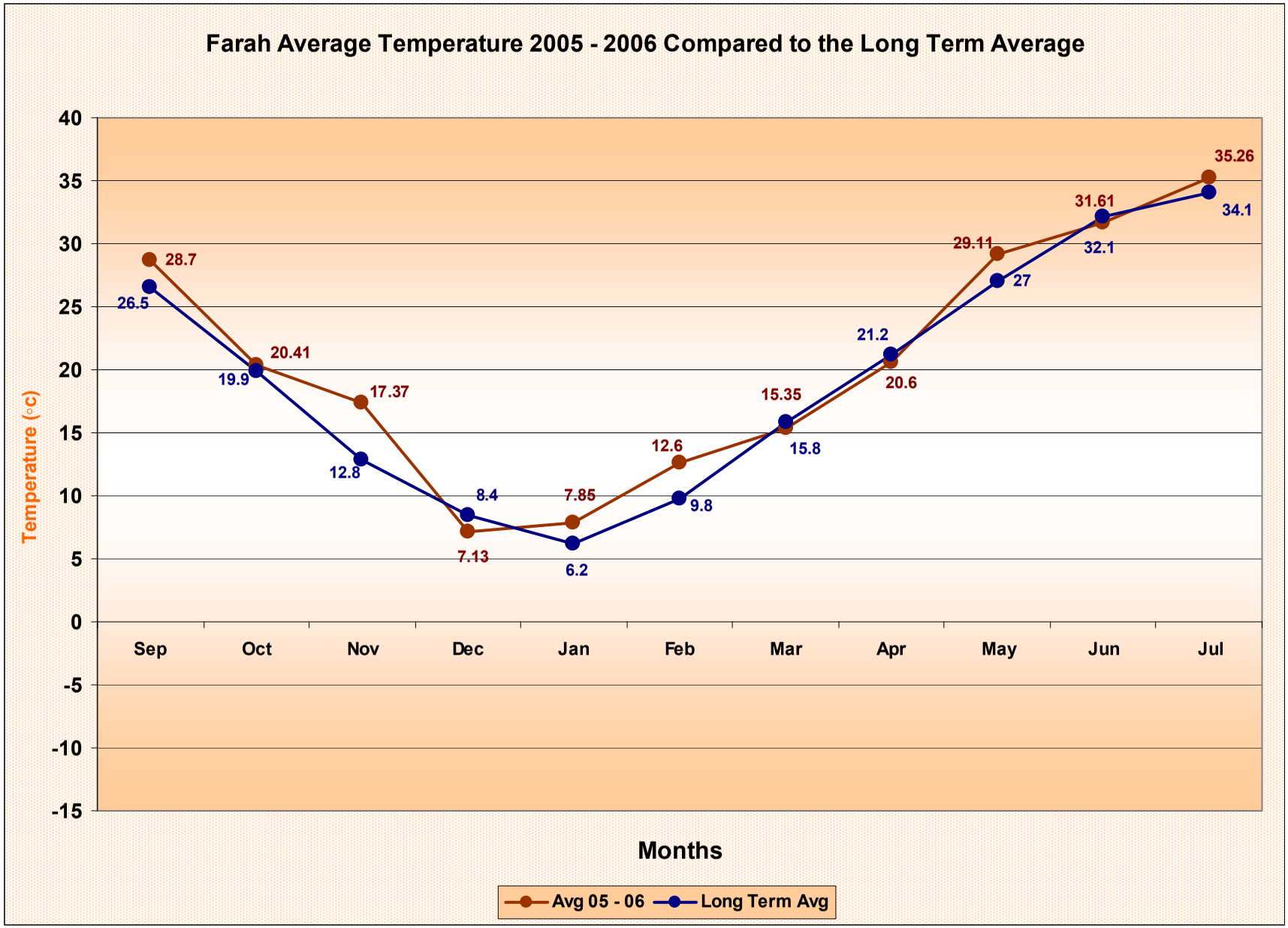

Faizabad Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Months
Avg 05 - 06
Long Term Avg
22.48
16.05
9.35
4.72
0.39
4.1
10.51
14.28
21.58
24.81
27.19
20.2
13.9
7.6
2.4
-0.6
2
7.9
13.7
17.3
23.9
26.9

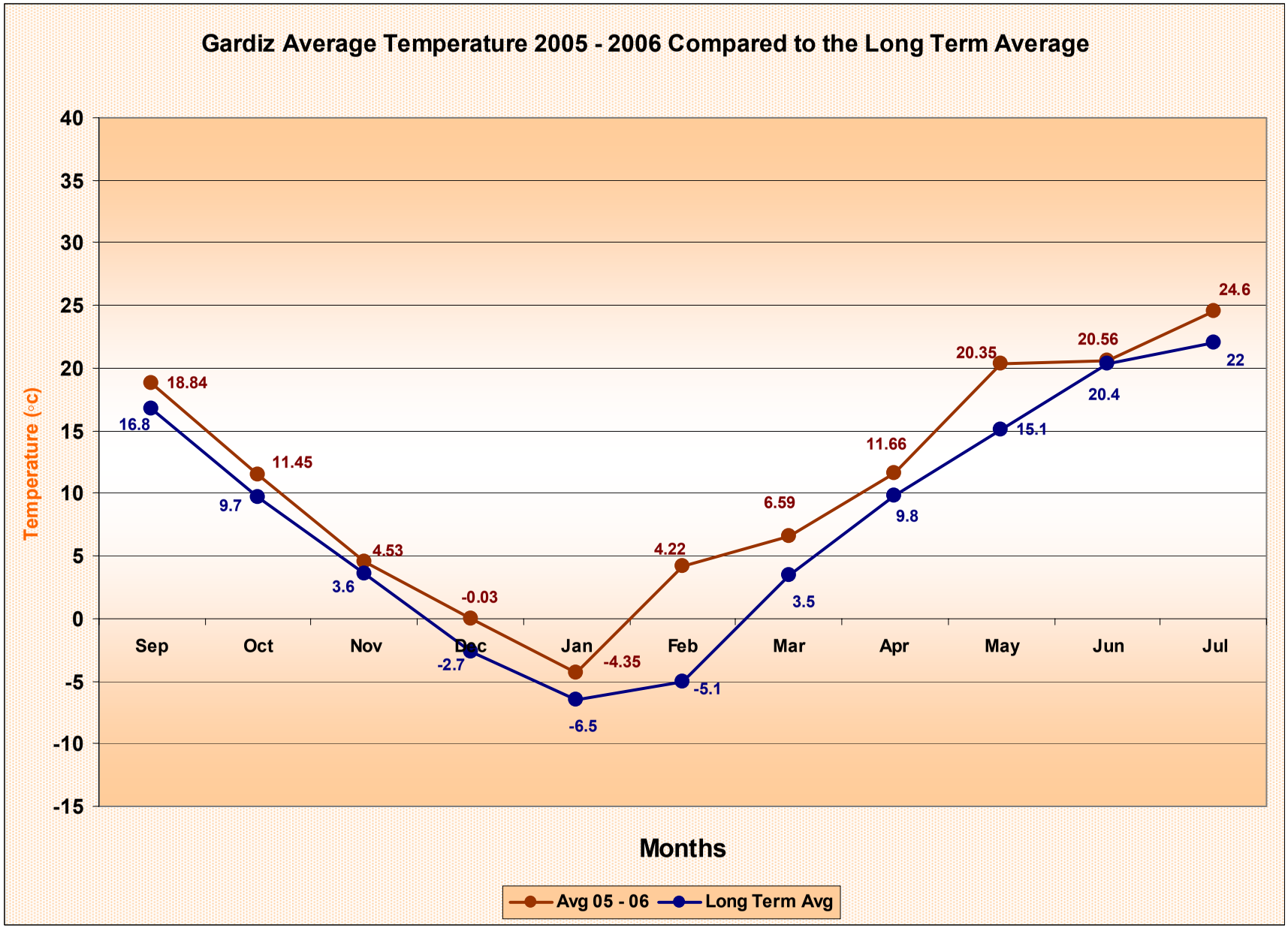

Bamyan Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
14.1
9.31
1.83
-1.34
-3.11
2.33
5.65
9.48
16.94
17.03
19.44
12.6
6.9
1.6
-3.7
-6.8
-5.4
2.4
8.5
12.4
16.4
18.2
Months
Avg 05 - 06
Long Term Avg

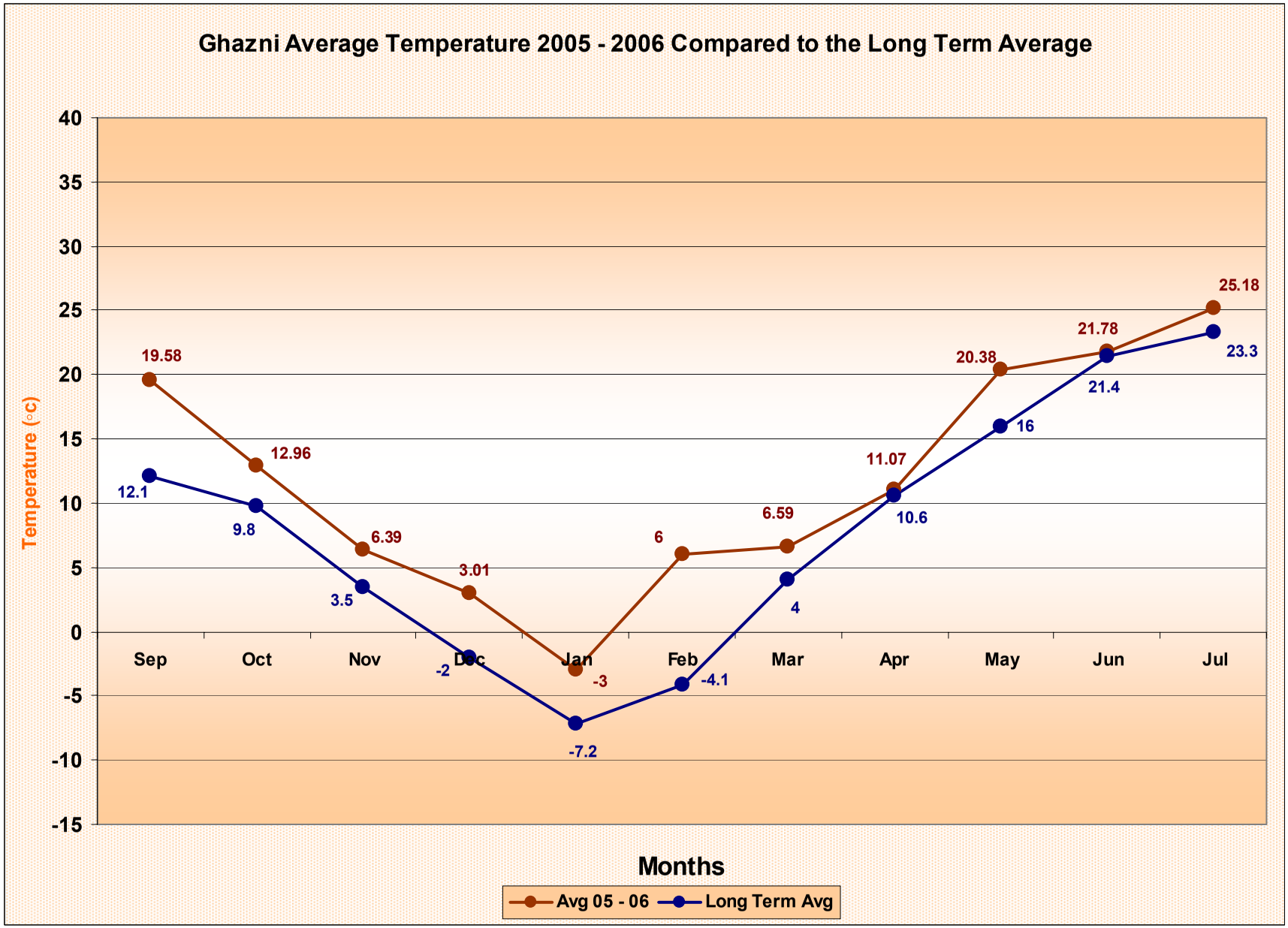

Logar Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
21.19
12.98
5.84
1.16
-3.68
-4.2
8.49
12.81
20.37
21.03
25.28
19
11.8
4.9
-0.5
-7.8
-7.9
5.4
12.9
16.9
22.1
24.8
Months
Avg 05 - 06
Long Term Avg

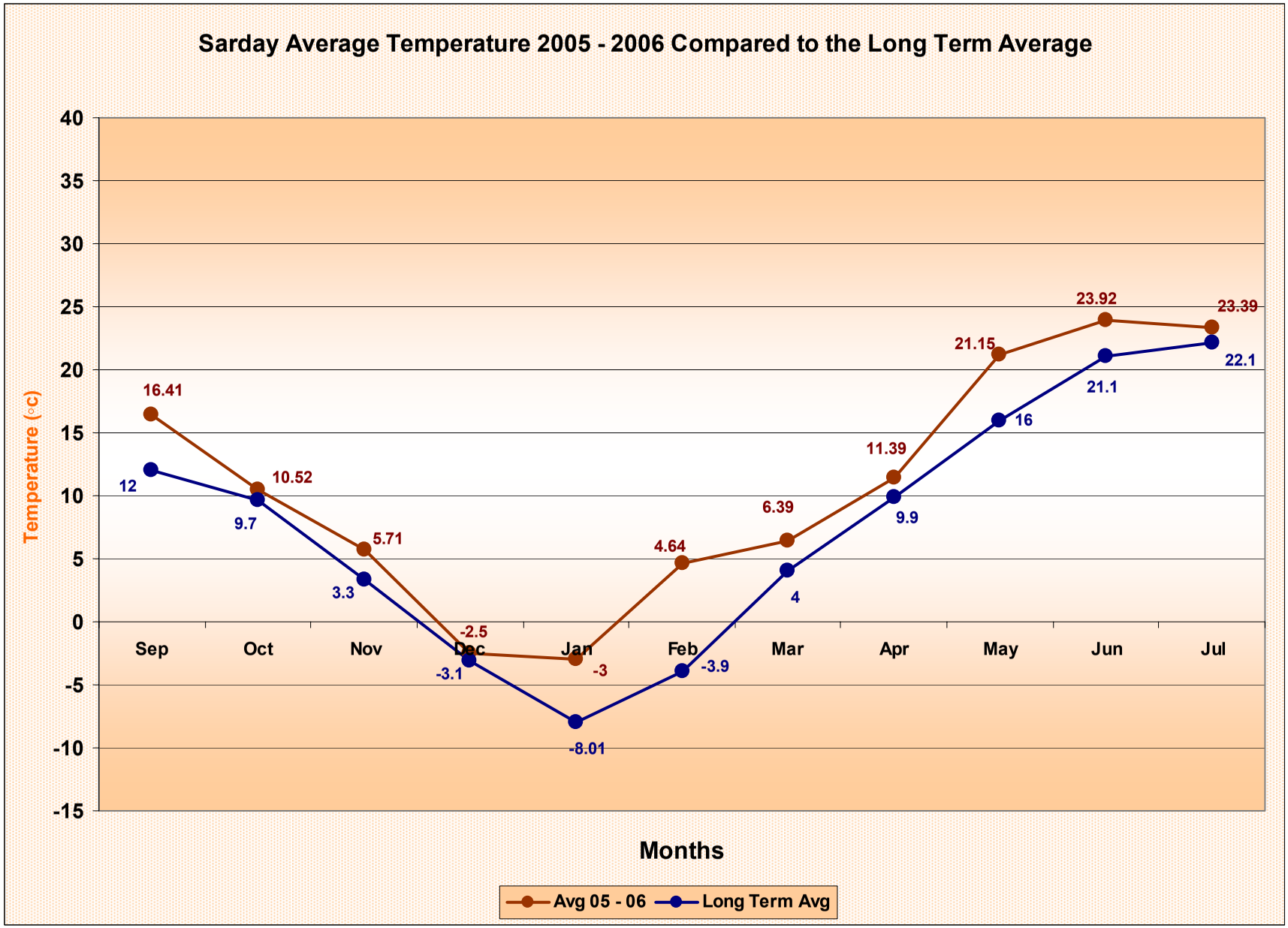

Jalalabad Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
29.78
22.77
16.36
11.14
9.9
13.8
18.1
23.38
31
31.58
33.84
28
21.7
14
9.1
8.3
11.9
16.7
21.1
27.3
33.1
33
Months
Avg 05 - 06
Long Term Avg

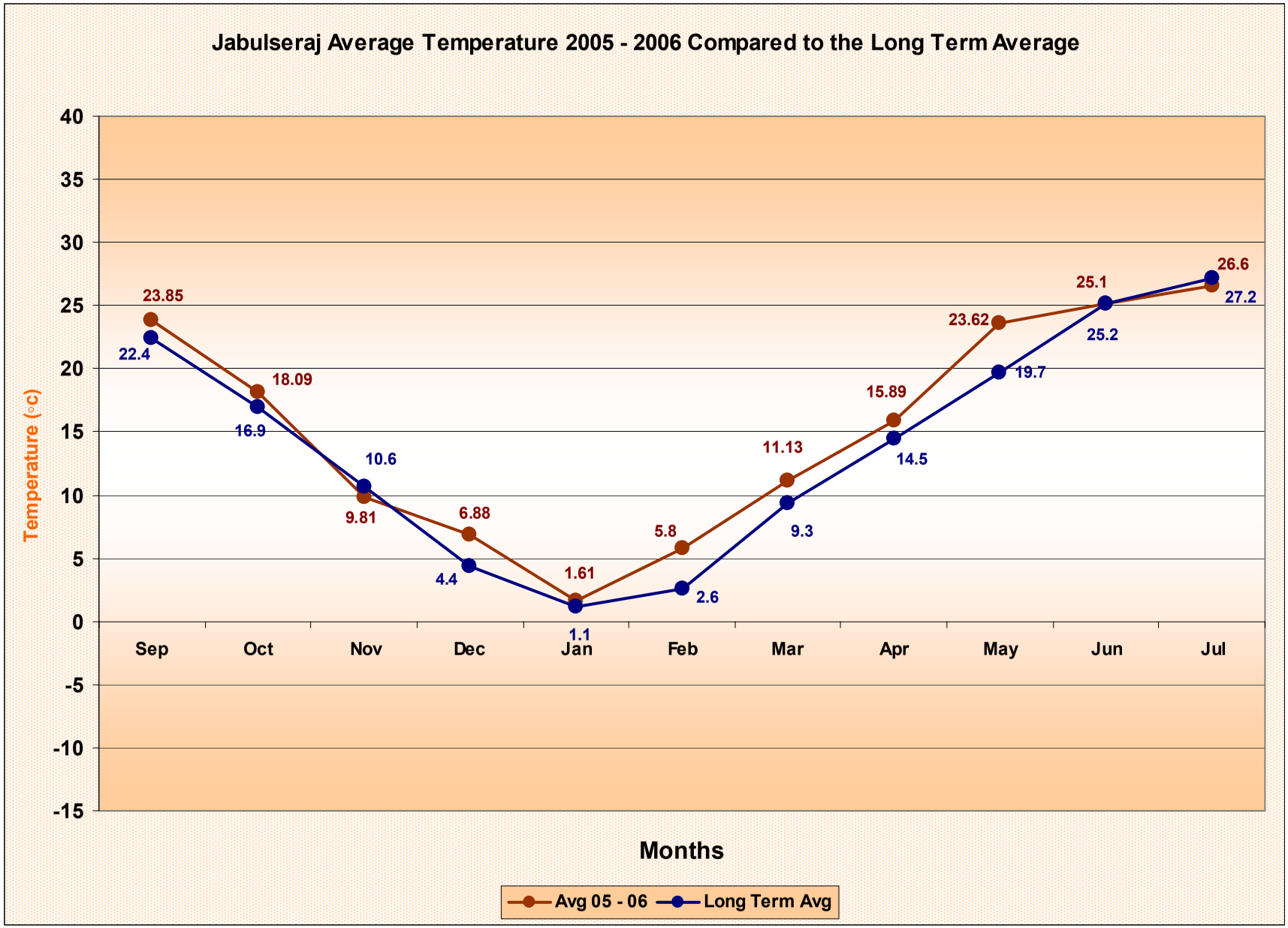

Shiberghan Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
26.99
18.51
11.97
8.48
0.57
10.56
14.31
19.76
28.28
30.74
33.09
22.8
16.1
10.1
4.9
1.4
4.4
10.6
16.8
23
28.8
30.7
Months
Avg 05 - 06
Long Term Avg

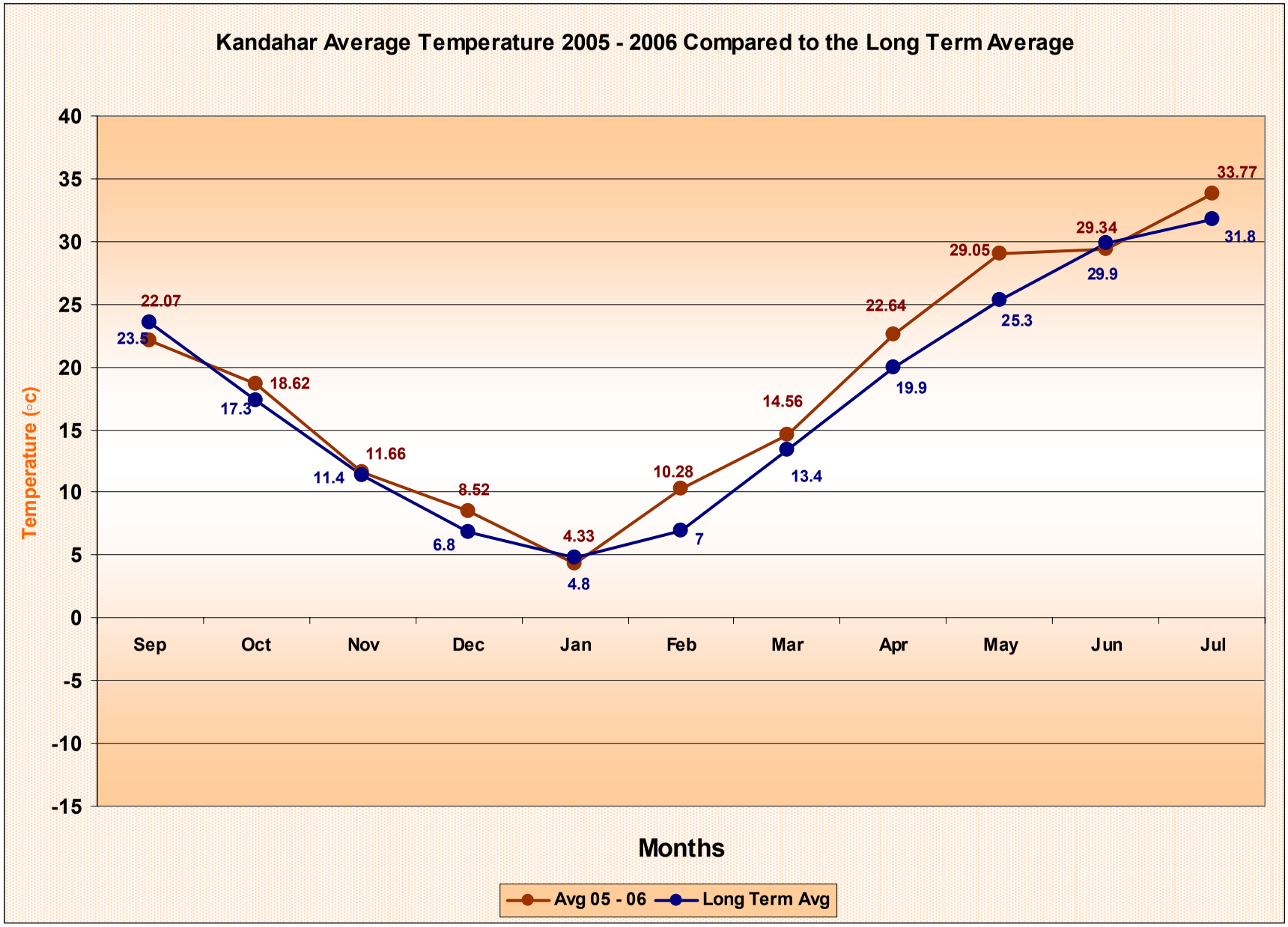

Farah Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
28.7
20.41
17.37
7.13
7.85
12.6
15.35
20.6
29.11
31.61
35.26
26.5
19.9
12.8
8.4
6.2
9.8
15.8
21.2
27
32.1
34.1
Months
Avg 05 - 06
Long Term Avg

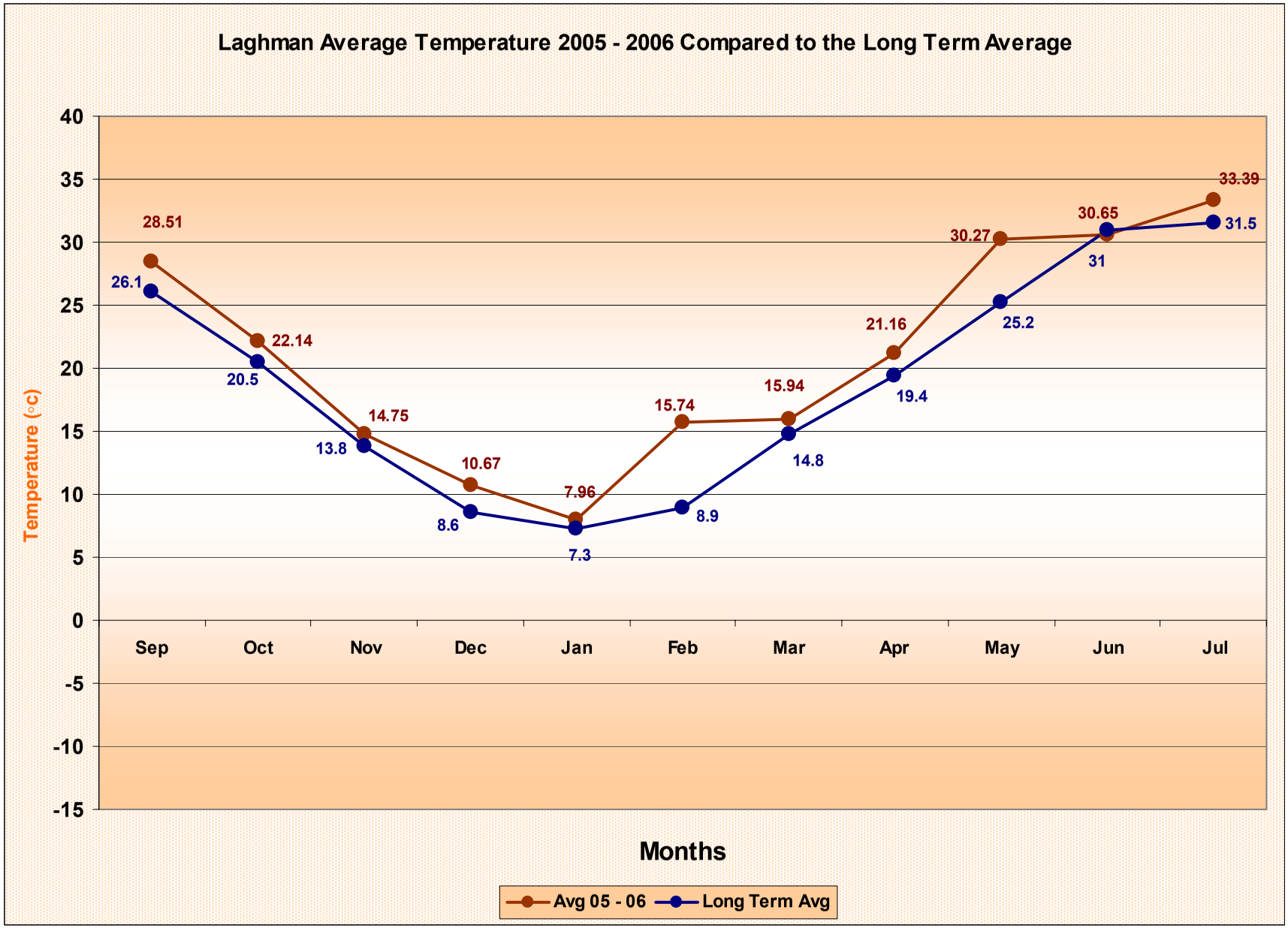

Gardiz Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (oc)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
18.84
11.45
4.53
-0.03
-4.35
4.22
6.59
11.66
20.35
20.56
24.6
16.8
9.7
3.6
-2.7
-6.5
-5.1
3.5
9.8
15.1
20.4
22
Months
Avg 05 - 06
Long Term Avg


Ghazni Average Temperature 2005 - 2006 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
19.58
12.96
6.39
3.01
-3
6
6.59
11.07
20.38
21.78
25.18
12.1
9.8
3.5
-2
-7.2
-4.1
4
10.6
16
21.4
23.3
Months
Avg 05 - 06
Long Term Avg


Sarday Average Temperature 2005 - 2006 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
16.41
10.52
5.71
-2.5
-3
4.64
6.39
11.39
21.15
23.92
23.39
12
9.7
3.3
-3.1
-8.01
-3.9
4
9.9
16
21.1
22.1
Months
Avg 05 - 06
Long Term Avg

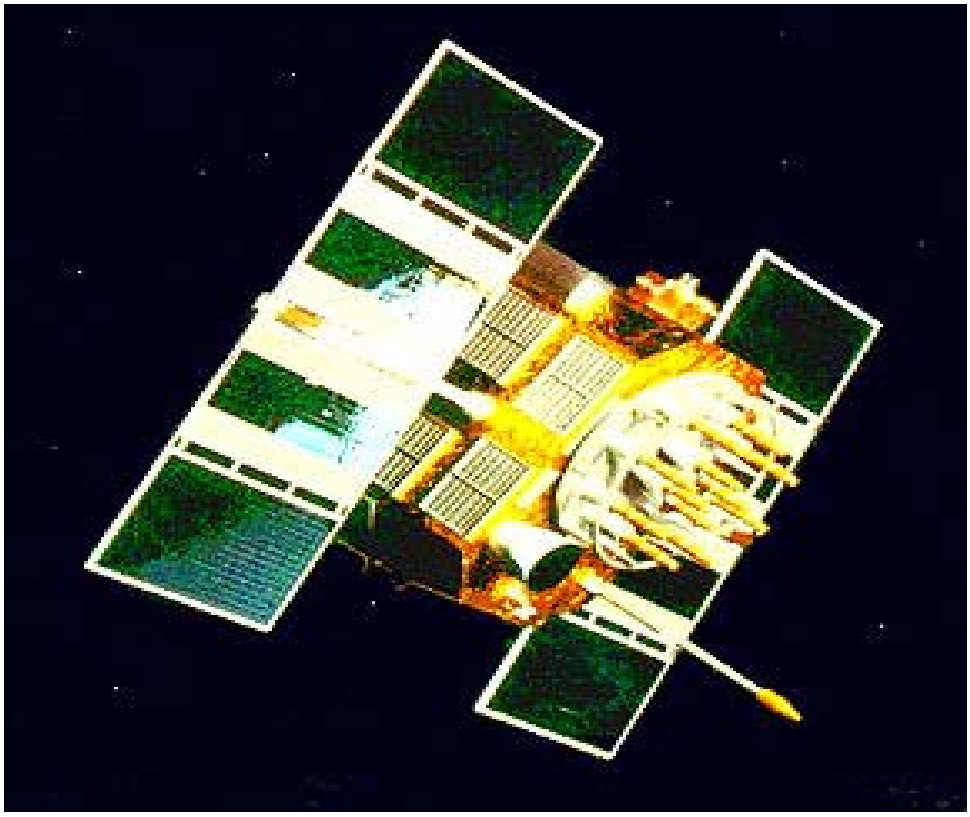

Jabulseraj Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
23.85
18.09
9.81
6.88
1.61
5.8
11.13
15.89
23.62
25.1
26.6
22.4
16.9
10.6
4.4
1.1
2.6
9.3
14.5
19.7
25.2
27.2
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Months
Avg 05 - 06
Long Term Avg

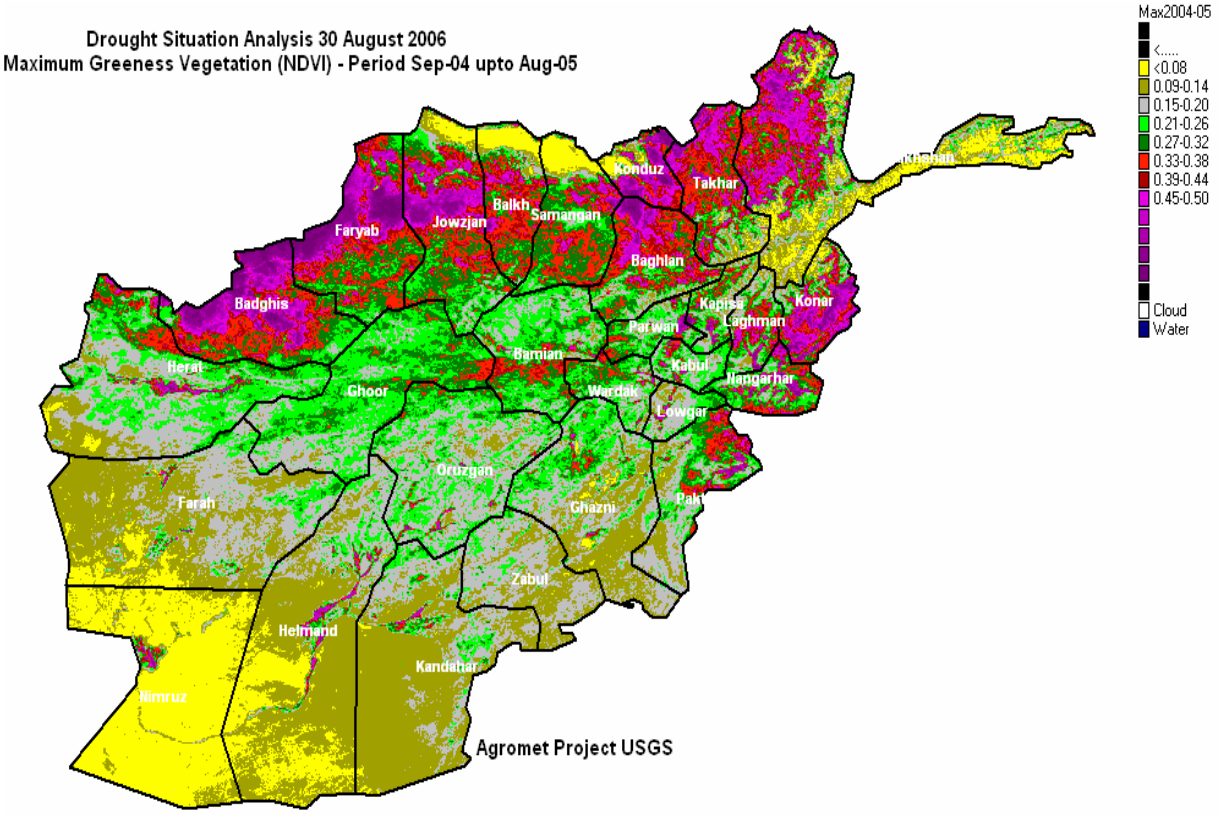

Kandahar Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
22.07
23.5
18.62
17.3
11.66
11.4
8.52
6.8
4.33
4.8
10.28
7
14.56
13.4
22.64
19.9
29.05
25.3
29.34
29.9
33.77
31.8
Months
Avg 05 - 06
Long Term Avg

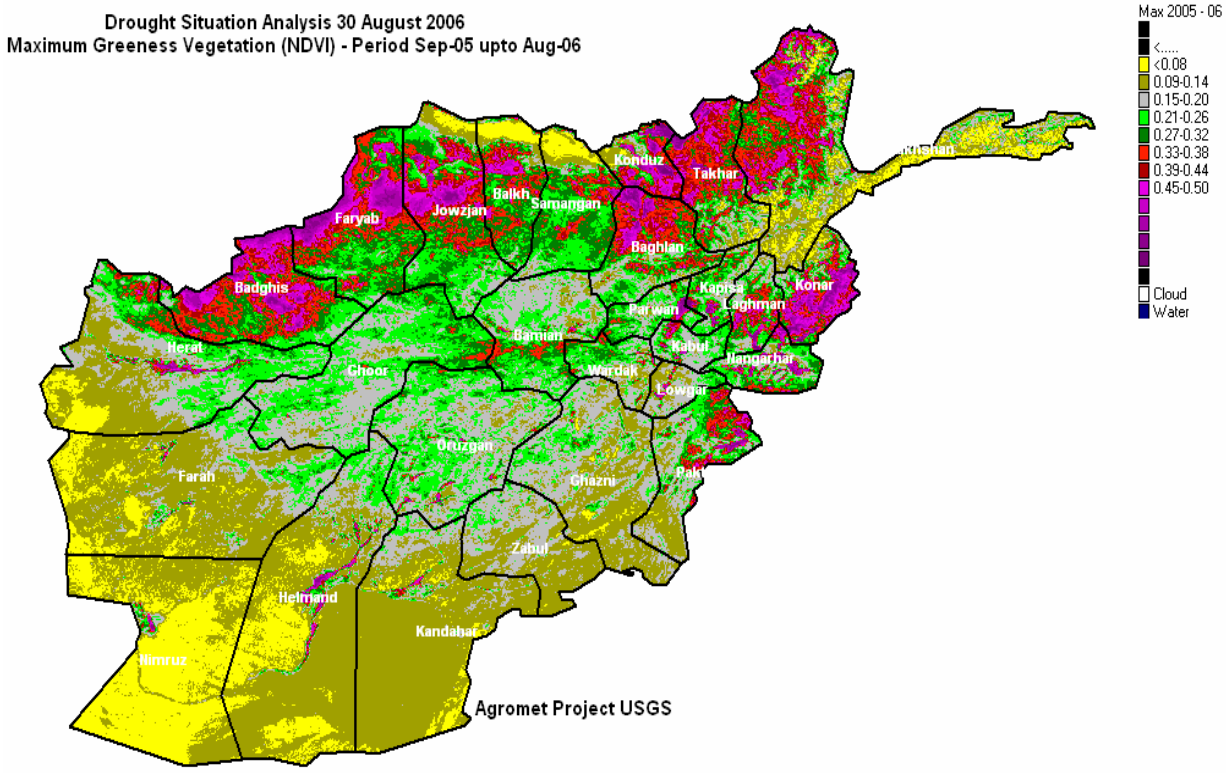

Laghman Average Temperature 2005 - 2006 Compared to the Long Term Average
Temperature (°c)
40
35
30
25
20
15
10
5
0
-5
-10
-15
Sep
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
28.51
22.14
14.75
10.67
7.96
15.74
15.94
21.16
30.27
30.65
33.39
26.1
20.5
13.8
8.6
7.3
8.9
14.8
19.4
25.2
31
31.5
Months
Avg 05 - 06
Long Term Avg

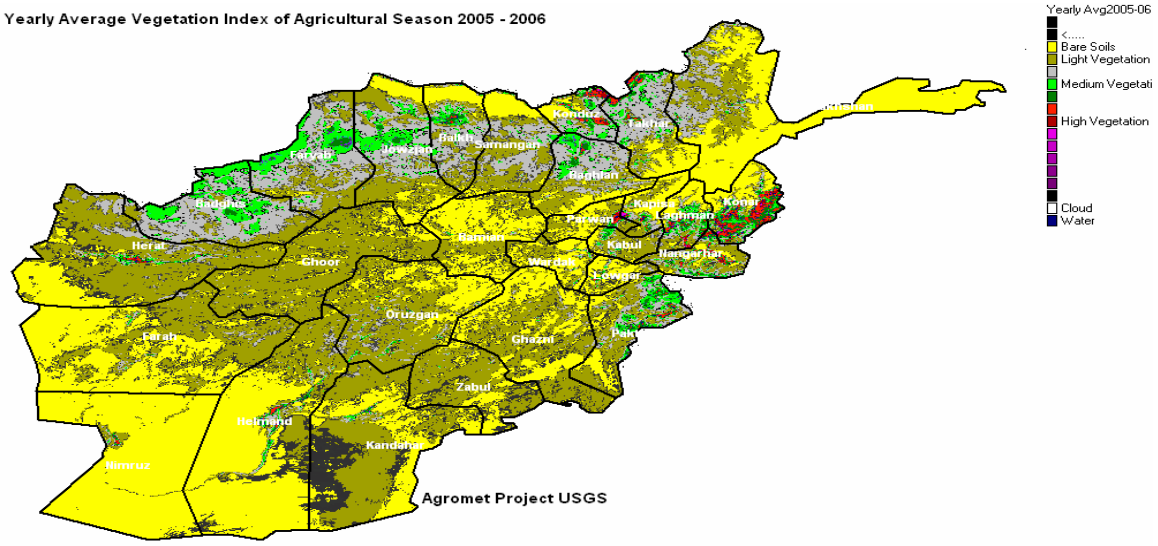
تفاوت شاخص سرسبزی نورمال
(NDVI)

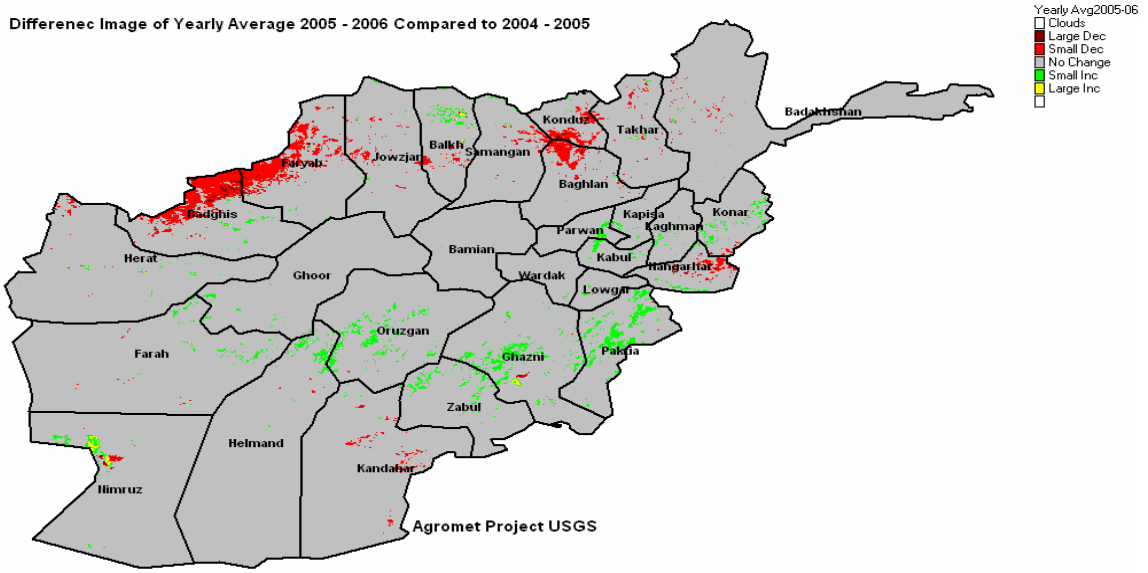
فصل زراعتی (۲۰۰۵ - ۲۰۰۶)

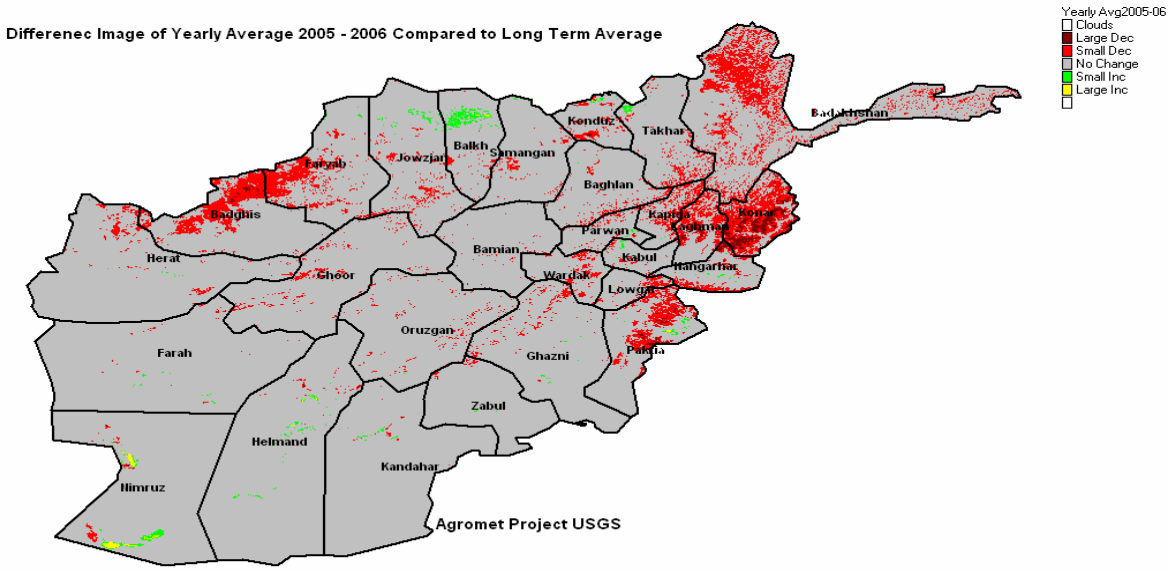


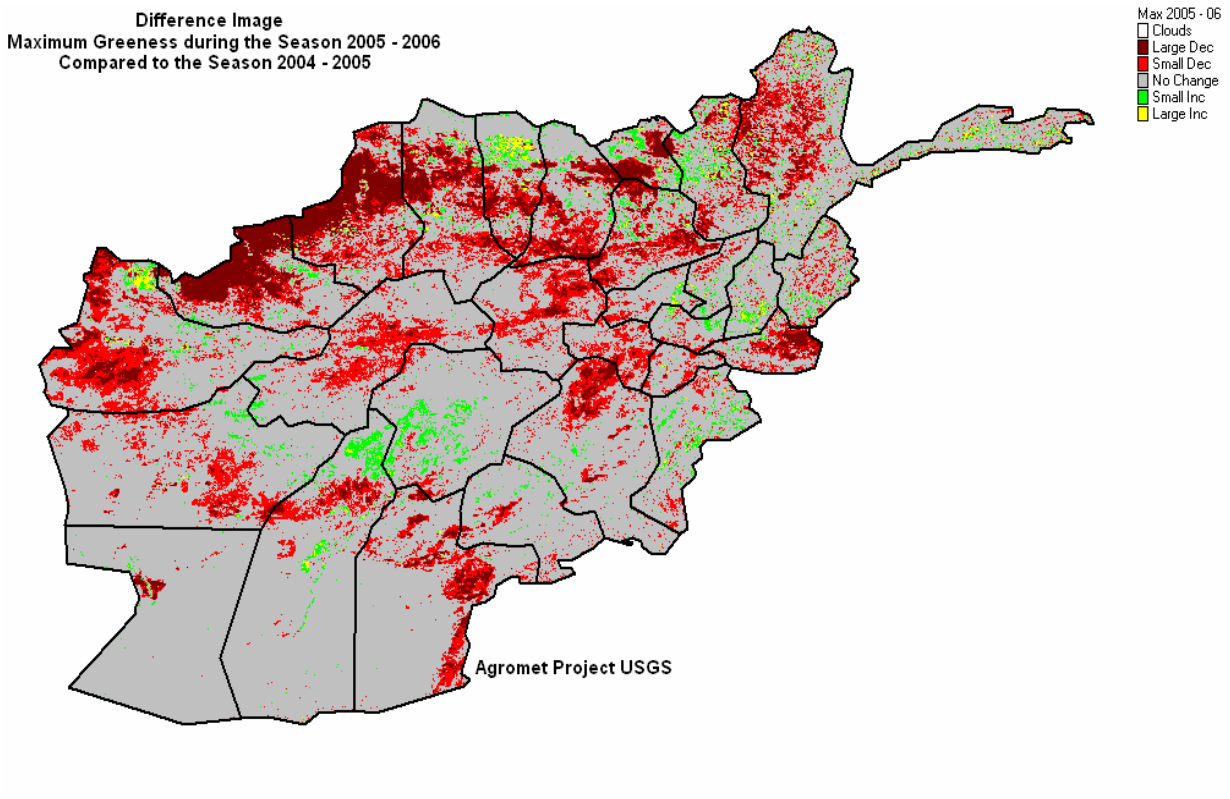

Drought Situation Analysis 30 August 2006
Maximum Greeness Vegetation (NDVI) - Period Sep-04 upto Aug-05
Max2004-05
<.....
<0.08
0.09-0.14
0.15-0.20
0.21-0.26
0.27-0.32
0.33-0.38
0.39-0.44
0.45-0.50
Cloud
Water
Badghis
Herat
Faryab
Jowzjan
Balkh
Samangan
Konduz
Takhar
Badakhshan
Baghlan
Kapisa
Konar
Laghman
Parwan
Bamian
Kabul
Nangarhar
Ghoor
Wardak
Logar
Oruzgan
Farah
Ghazni
Paktia
Zabul
Helmand
Kandahar
Nimruz
Agromet Project USGS

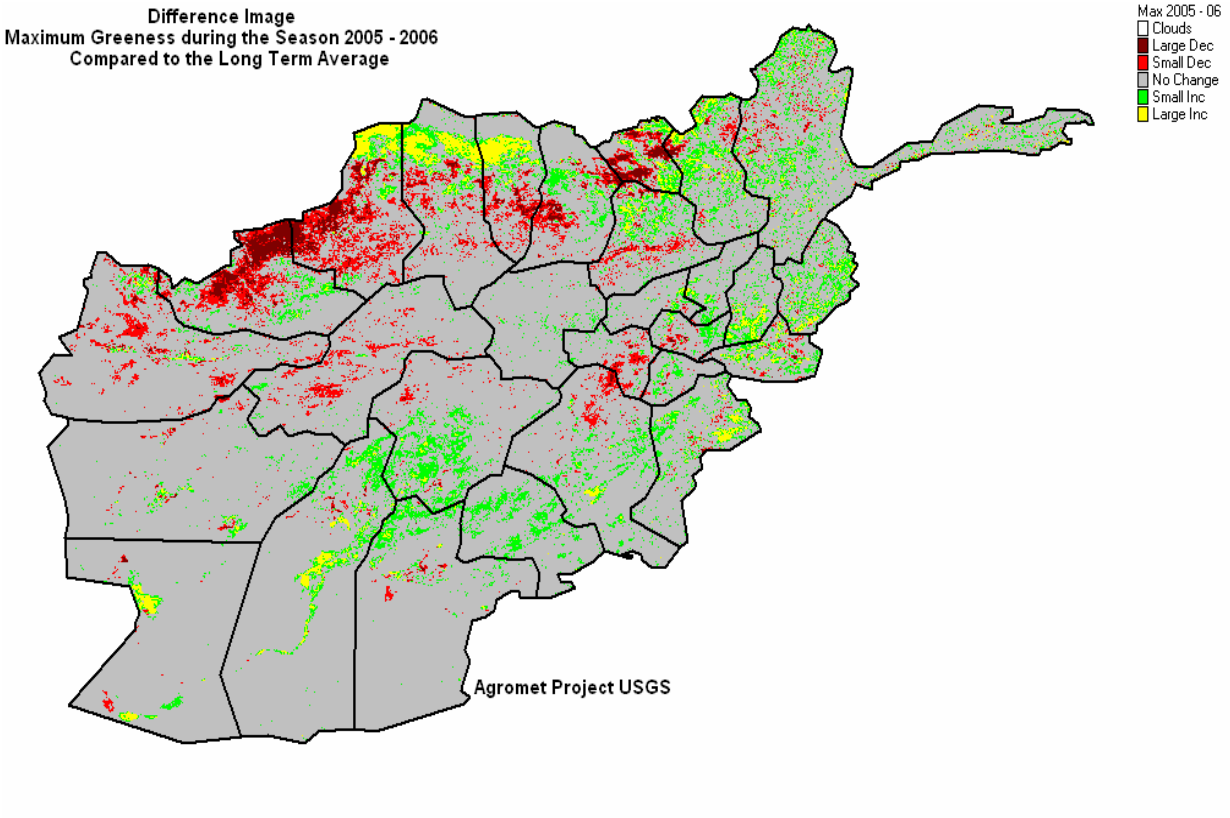

Drought Situation Analysis 30 August 2006
Maximum Greeness Vegetation (NDVI) - Period Sep-05 upto Aug-06
Max 2005 - 06
<.....
<0.08
0.09-0.14
0.15-0.20
0.21-0.26
0.27-0.32
0.33-0.38
0.39-0.44
0.45-0.50
Cloud
Water
Badghis
Herat
Faryab
Jowzjan
Balkh
Samangan
Konduz
Takhar
Badakhshan
Baghlan
Kapisa
Konar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

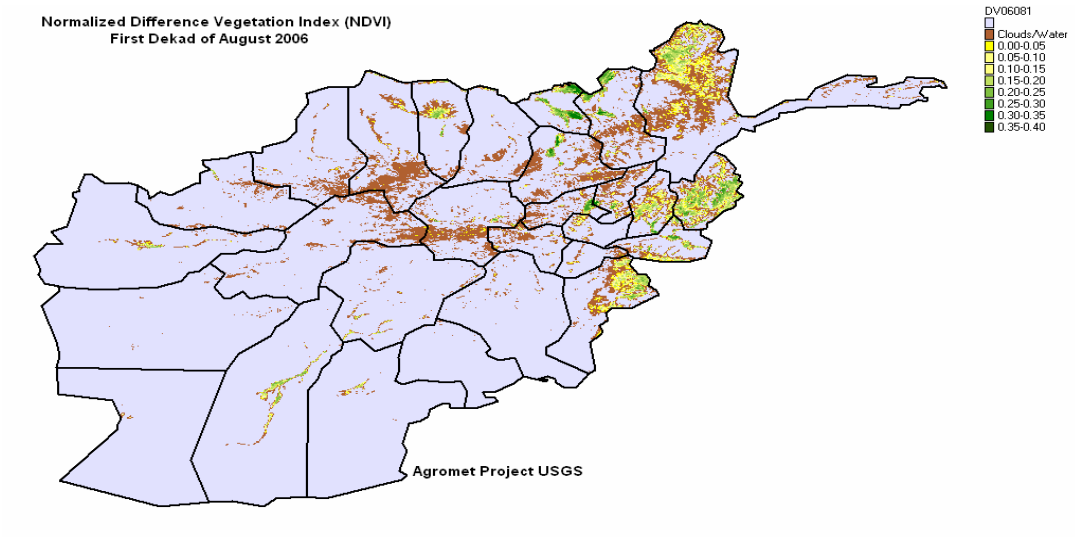

Yearly Average Vegetation Index of Agricultural Season 2005 - 2006
Yearly Avg2005-06
<.....
Bare Soils
Light Vegetation
Medium Vegetati
High Vegetation
Cloud
Water
Badakhshan
Takhar
Kondoz
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Laghman
Parwan
Herat
Bamian
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Oruzgan
Farah
Ghazni
Paktia
Zabul
Helmand
Kandahar
Nimruz
Agromet Project USGS

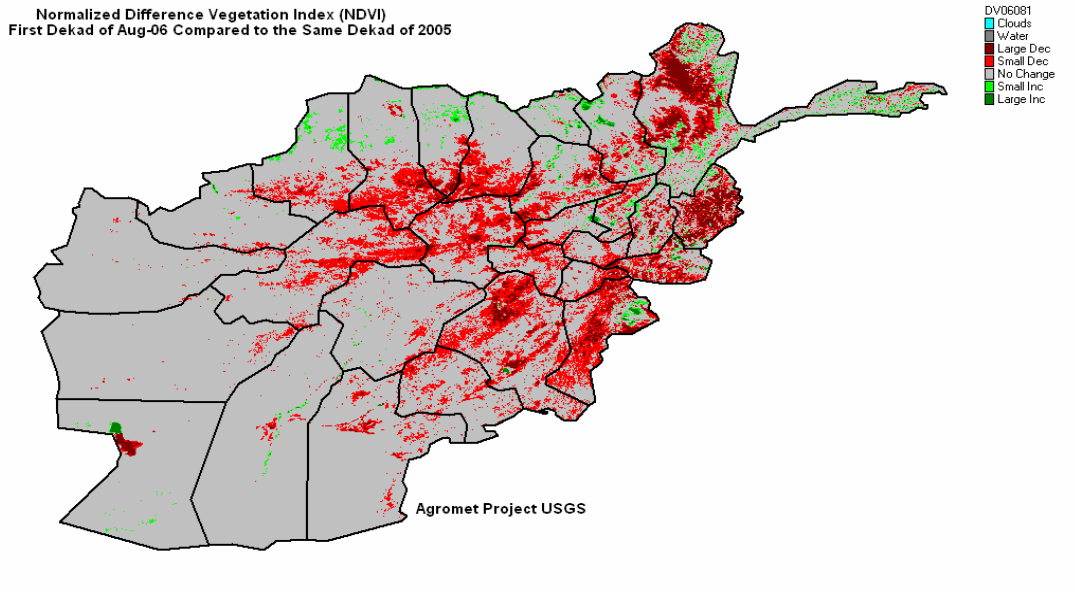

Differenec Image of Yearly Average 2005 - 2006 Compared to 2004 - 2005
Yearly Avg2005-06
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Badakhshan
Takhar
Kondoz
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Laghman
Parwan
Herat
Bamian
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Oruzgan
Farah
Ghazni
Paktia
Zabul
Helmand
Kandahar
Nimruz
Agromet Project USGS

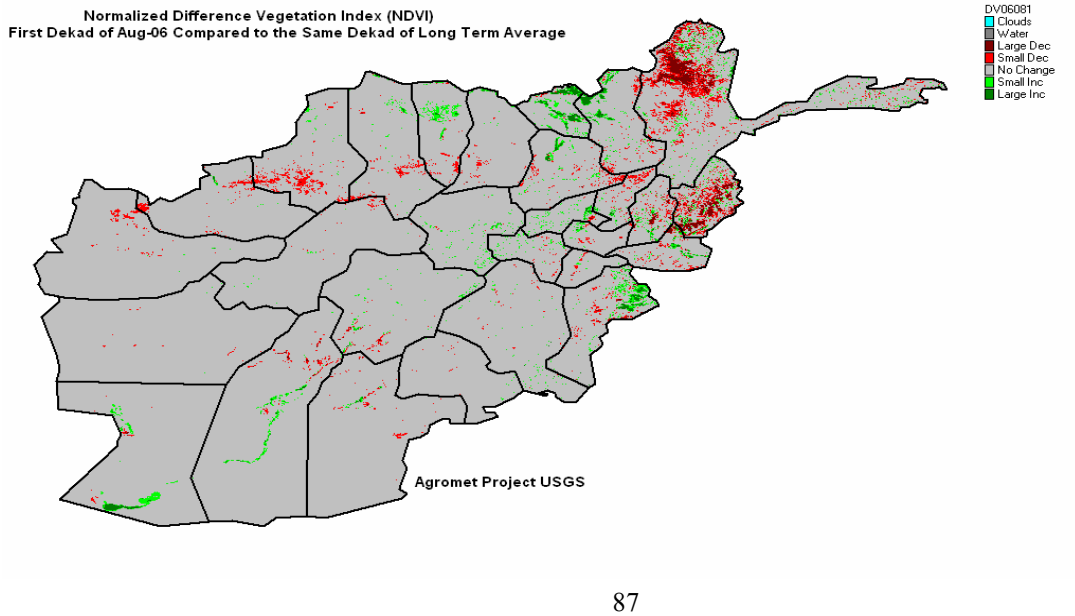

Differenec Image of Yearly Average 2005 - 2006 Compared to Long Term Average
Yearly Avg2005-06
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Badakhshan
Takhar
Kondoz
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Laghman
Parwan
Herat
Bamian
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Oruzgan
Farah
Ghazni
Paktia
Zabul
Helmand
Kandahar
Nimruz
Agromet Project USGS


Difference Image
Maximum Greeness during the Season 2005 - 2006
Compared to the Season 2004 - 2005
Max 2005 - 06
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Agromet Project USGS


Difference Image
Maximum Greeness during the Season 2005 - 2006
Compared to the Long Term Average
Max 2005 - 06
Clouds
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Agromet Project USGS


Normalized Difference Vegetation Index (NDVI)
First Dekad of August 2006
DV06081
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
Agromet Project USGS

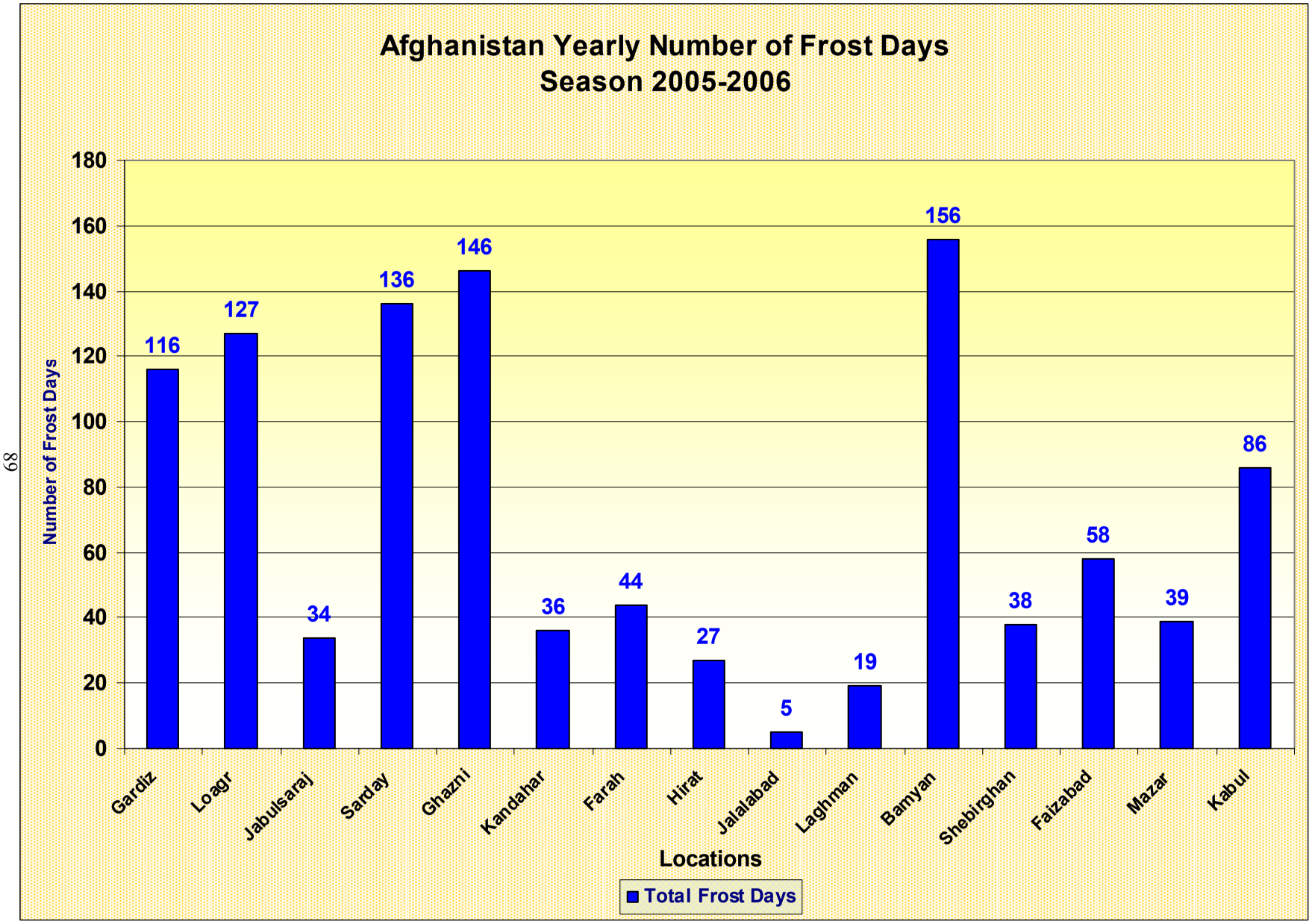

Normalized Difference Vegetation Index (NDVI)
First Dekad of Aug-06 Compared to the Same Dekad of 2005
DV06081
Clouds
Water
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Agromet Project USGS

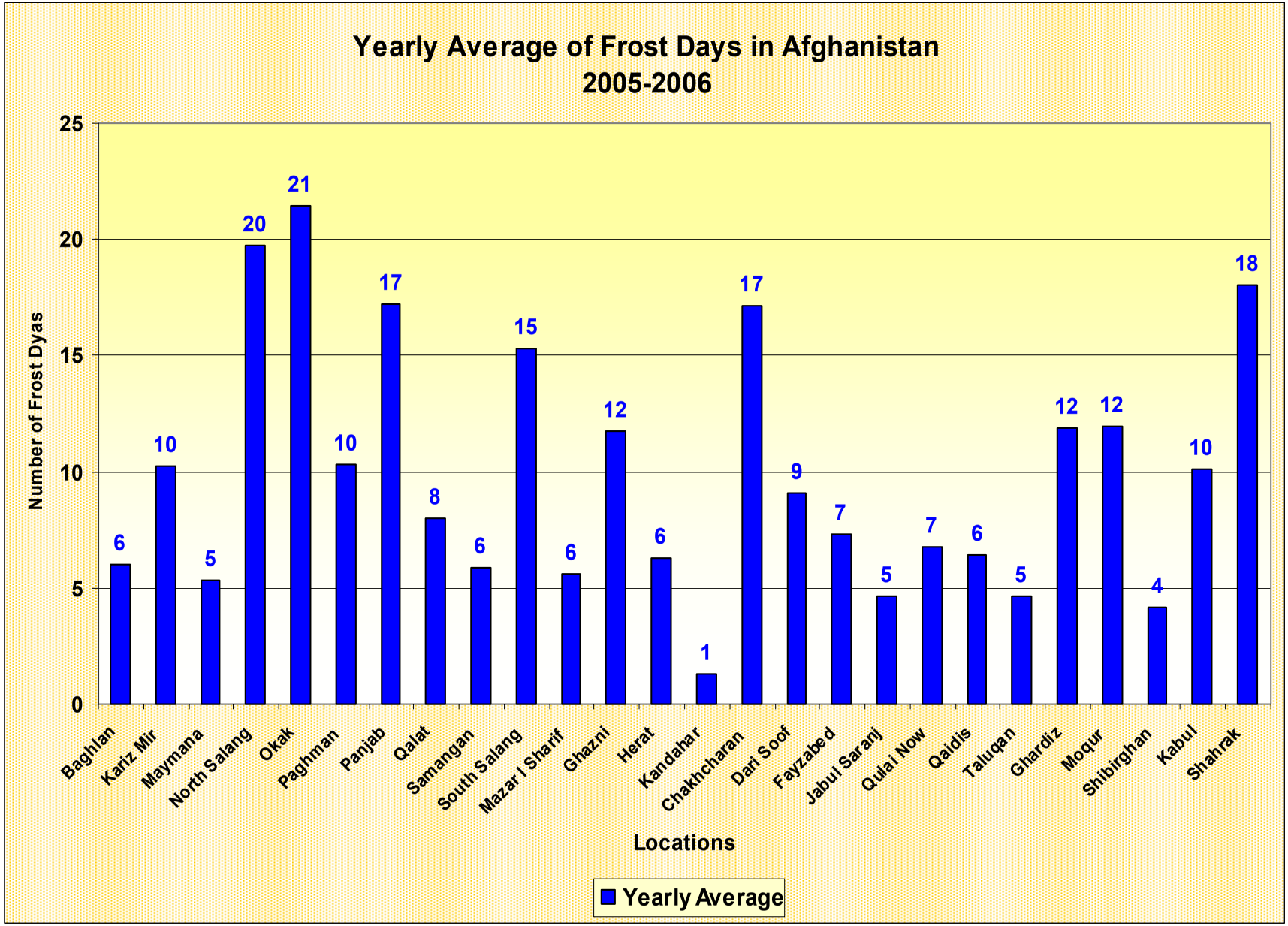

Normalized Difference Vegetation Index (NDVI)
First Dekad of Aug-06 Compared to the Same Dekad of Long Term Average
DV06081
Clouds
Water
Large Dec
Small Dec
No Change
Small Inc
Large Inc
Agromet Project USGS

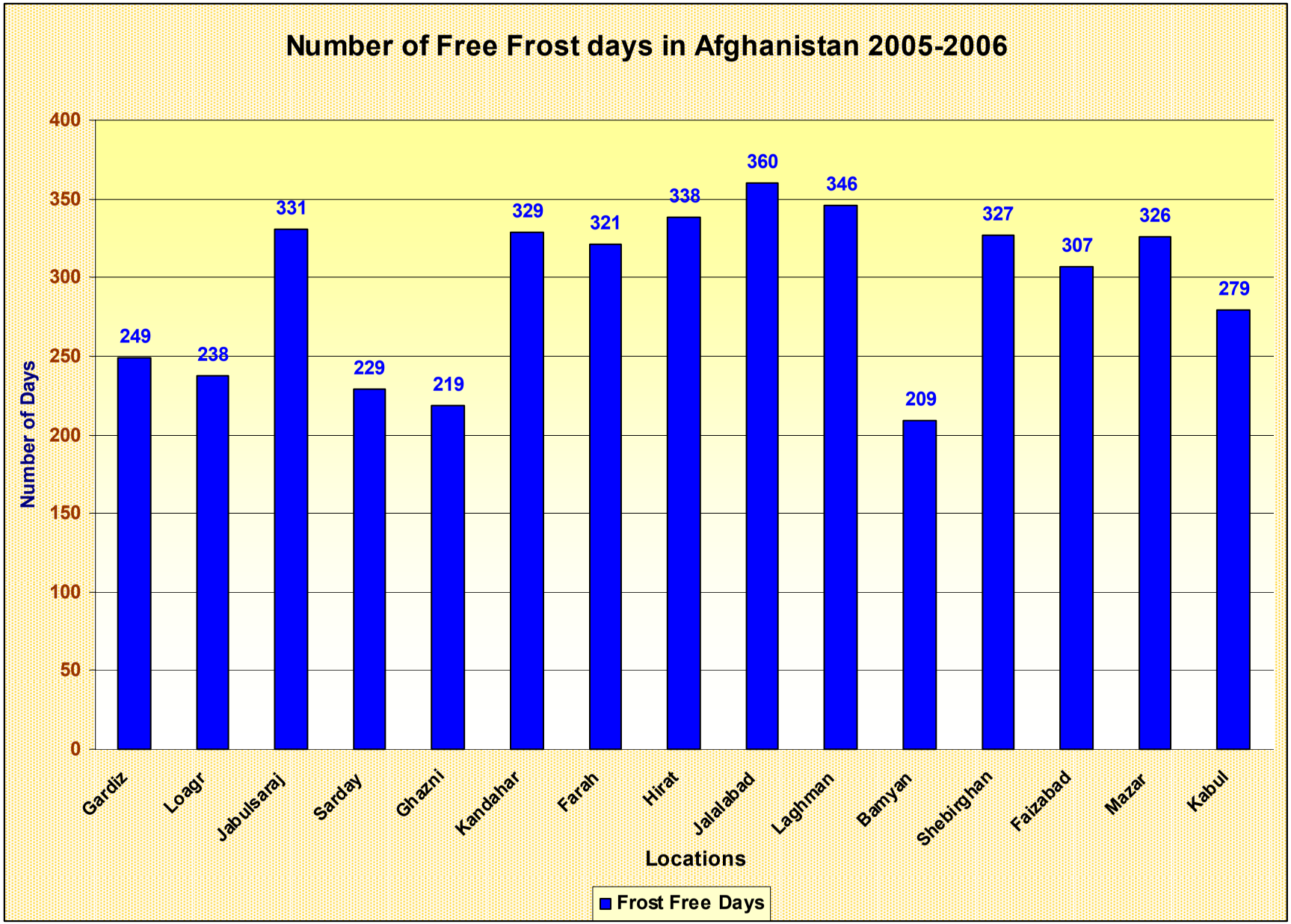
مقایسه روز های یخبندی فصل زراعتی
(۲۰۰۵ - ۲۰۰۶)

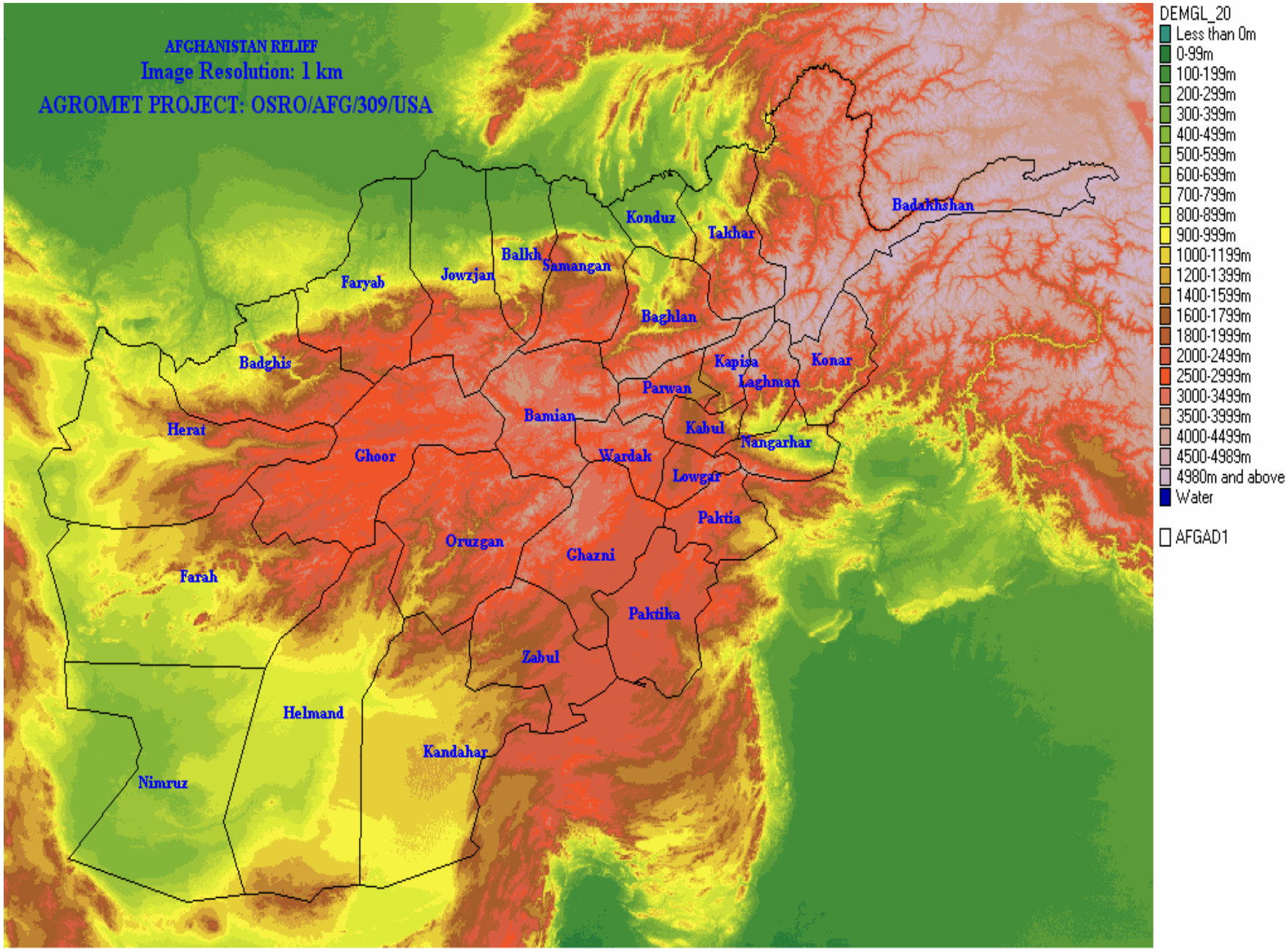
با

سال قبل و اوسط درازمدت


Afghanistan Yearly Number of Frost Days
Season 2005-2006
Number of Frost Days
180
160
140
120
100
80
60
40
20
0
116
127
34
136
146
36
44
27
5
19
156
38
58
39
86
Gardiz
Loagr
Jabulsaraj
Sarday
Ghazni
Kandahar
Farah
Hirat
Jalalabad
Laghman
Bamyan
Shebirghan
Faizabad
Mazar
Kabul
Locations
Total Frost Days


Yearly Average of Frost Days in Afghanistan
2005-2006
Number of Frost Dyas
25
20
15
10
5
0
6
10
5
20
21
10
17
8
6
15
6
12
6
1
17
9
7
5
7
6
5
12
12
4
10
18
Baghlan
Kariz Mir
Maymana
North Salang
Okak
Paghman
Panjab
Qalat
Samangan
South Salang
Mazar I Sharif
Ghazni
Herat
Kandahar
Chakhcharan
Dari Soof
Fayzabed
Jabul Saraij
Qulai Now
Qaidis
Taluqan
Ghardiz
Moqur
Shibirghan
Kabul
Shahrak
Locations
Yearly Average


Number of Free Frost days in Afghanistan 2005-2006
Number of Days
400
350
300
250
200
150
100
50
0
249
238
331
229
219
329
321
338
360
346
209
327
307
326
279
Gardiz
Loagr
Jabulsaraj
Sarday
Ghazni
Kandahar
Farah
Hirat
Jalalabad
Laghman
Bamyan
Shebirghan
Faizabad
Mazar
Kabul
Locations
Frost Free Days


AFGHANISTAN RELIEF
Image Resolution: 1 km
AGROMET PROJECT: OSRO/AFG/309/USA
Badakhshan
Konduz
Takhar
Balkh
Samangan
Jowzjan
Faryab
Baghlan
Badghis
Kapisa
Konar
Laghman
Parwan
Bamian
Herat
Kabul
Nangarhar
Ghoor
Wardak
Lowgar
Paktia
Oruzgan
Ghazni
Farah
Paktika
Zabul
Helmand
Kandahar
Nimruz
DEMGL_20
Less than 0m
0-99m
100-199m
200-299m
300-399m
400-499m
500-599m
600-699m
700-799m
800-899m
900-999m
1000-1199m
1200-1399m
1400-1599m
1600-1799m
1800-1999m
2000-2499m
2500-2999m
3000-3499m
3500-3999m
4000-4499m
4500-4989m
4980m and above
Water
AFGAD1

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National Counterpart
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National Counterpart
(AMA)

Abdul Salam Sabiry
National Counterpart
(MAAHF)

80 Weather and crop observers
Govt.(MAAHF/AMA)

20 Weather observers
Govt.(MAAHF/AMA)