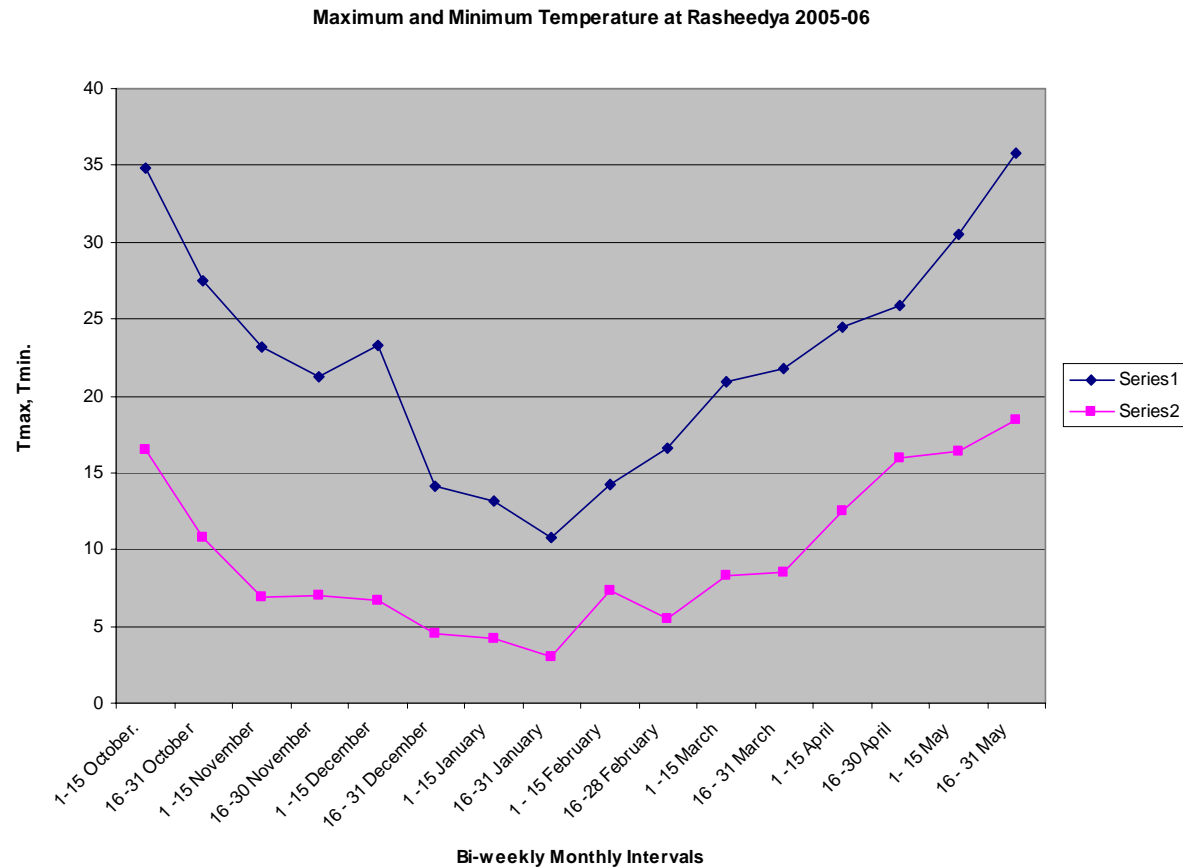


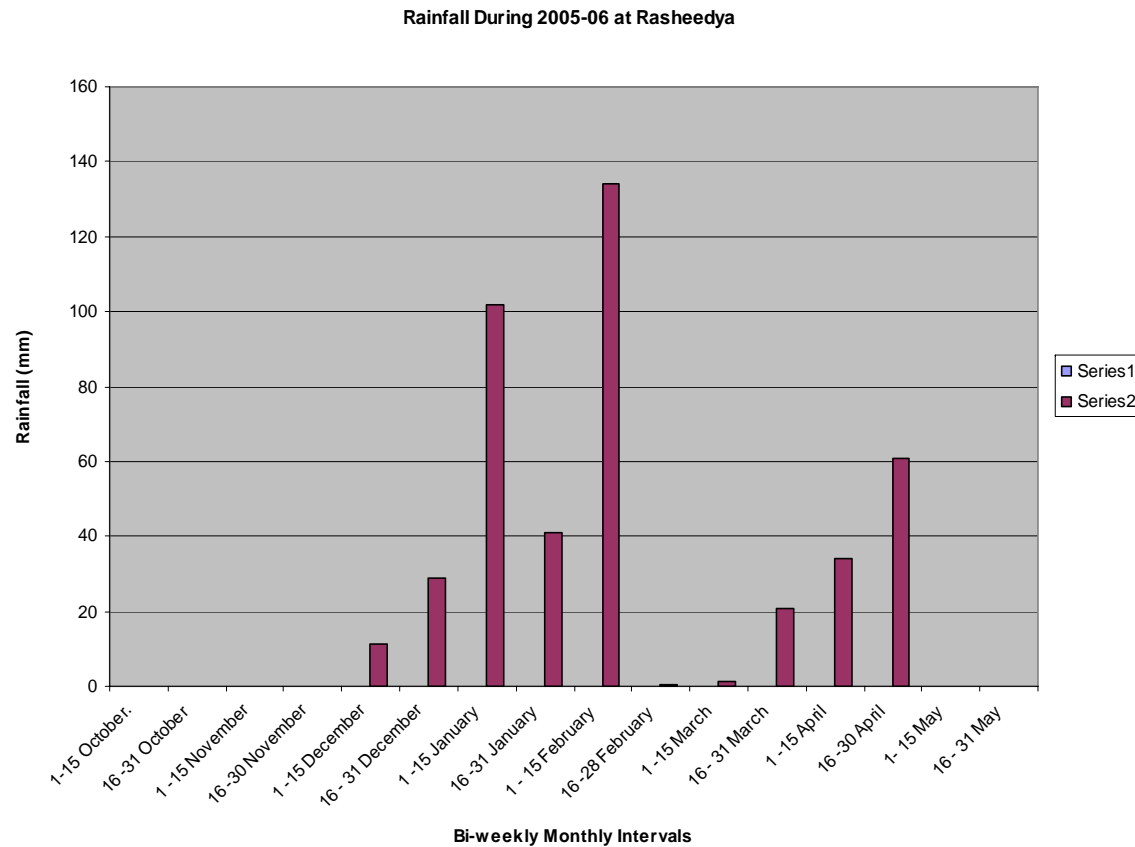
Legume Component

Dr Adnan Adary

Tmax and Tmin. At Rasheedya 2005/06



Rainfall At Rasheedya 2005/06



Lentil Program

- Lentil International F3 Nursery – Large Seed – 2006.
- Lentil International Elite Nursery –S-2006.
- Lentil International For Drought Tolerance Nursery 2006.
- Lentil International For Elite Nursery – Large – 2006.

Results of lentil program

- Lentil International F3 Nursery – Large Seed – 2006 (7 populations using 5-10 individual plant selection).
- Lentil International Elite Nursery –S-2006 (lines selected).
- Lentil International For Drought Tolerance Nursery 2006 (lines selected).
- Lentil International For Elite Nursery – Large – 2006 (lines selected).

Chickpea Program

- Chickpea F4 populations Mediterranean
- Chickpea International For Drought Tolerance 2006.
- Chickpea International For Fusarium wilt – 2006.
- Chickpea International for cold Tolerance – 2006.
- Chickpea International For Ascochyta Blight – 2006.
- Chickpea International Elite Nursery – spring – 2006.
- Chickpea International For Ascochyta Blight 2006.

Results chickpea Program

- Chickpea F4 populations Mediterranean (7 populations out of 36).
- Chickpea International For Drought Tolerance 2006 (results available).
- Chickpea International For Fusarium wilt – 2006 (38 lines selected out of 61).
- Chickpea International for cold Tolerance – 2006 (30 selected lines out of 40).
- Chickpea International For Ascochyta Blight – 2006 (33 lines selected out of 60).
- Chickpea International Elite Nursery – spring – 2006 (26 lines selected out of 50).

Faba Bean International Improved S1 Populations Nursery 2006

- **Book for the names , pedigree and data is available.**
- **The 8 line were planted in 4 row plot, 4m long 50 cm apart. Planting was done in Hills at 20 cm distance. One seed was put in each hill at 6cm depth.**
- **Climate:**

Faba Bean Grain Yield

- All entries exceeded the local check in grain yield.
- Entry No. 3 gave the highest grain yield (2001 kg/ha), Entry No. 6 (1642 kg/ha) and entry No.2 (1445.6 kg/ha). The local gave 990 kg/ha.

Table 1. Performance of faba Bean lines During 2006 growing season.

Name/ pedigree	Heading Time	Seed Yield	Seed Index	Plant Height
HPB/SOA/200 5	76	1371	77	56.7
HBP/SO b/2005	76	1446	64	51.2
HBP/SO D/2005	76	2001	64	56.7
HBP/SO C/01F6	76	1173	67.0	60.3

Table 1. cont..

HBP/S1 D/01-F6	76	1212	64.2	64
ILB1814	76	1642	97.1	52
ILB1266 Aq.dolci	76	1313	91.7	65
Local	76	990	57.7	60

Seed Index

- Entries 1,6 and 7 gave the highest seed index: 77, 97.3 and 91.6 for 1,7 and 6 entries, respectively.
- Desirability people consumption is for large seeded types but the production is low. The smaller seed varieties are used for Fool mudamas and as suggested in Iraq to be used as forage legume.

- Mechanized seed production system of small seeded varieties is better and could be utilized to increase yield of faba bean in Iraq.

Lessons learnt and implications for 2006/7 planning

MAJOR CONSTRAINTS

- ❖ Man power needed
- ❖ Security
- ❖ Lack of logistics – transportation
- ❖ Need for movable fences to protect experiments
- ❖ Seed storage
- ❖ Seed production for elite varieties
- ❖ Market distortion (unfavourable marketing environment due to very low prices of imported produce)
- ❖ Reluctance to use fertilizers

Lessons learnt and implications for 2006/7 planning

Changes needed for improved efficiency in project implementation

Change from public to private vehicles for project work

Need to concentrate on timely sowing

Timely harvesting to avoid grazing by sheep

Rebuild the poultry industry based on small-seeded faba bean genotypes

Seed containers

No cold tolerance nursery

Supply of large-seeded chickpea