

Cereal Program Activities in Iraq 2006

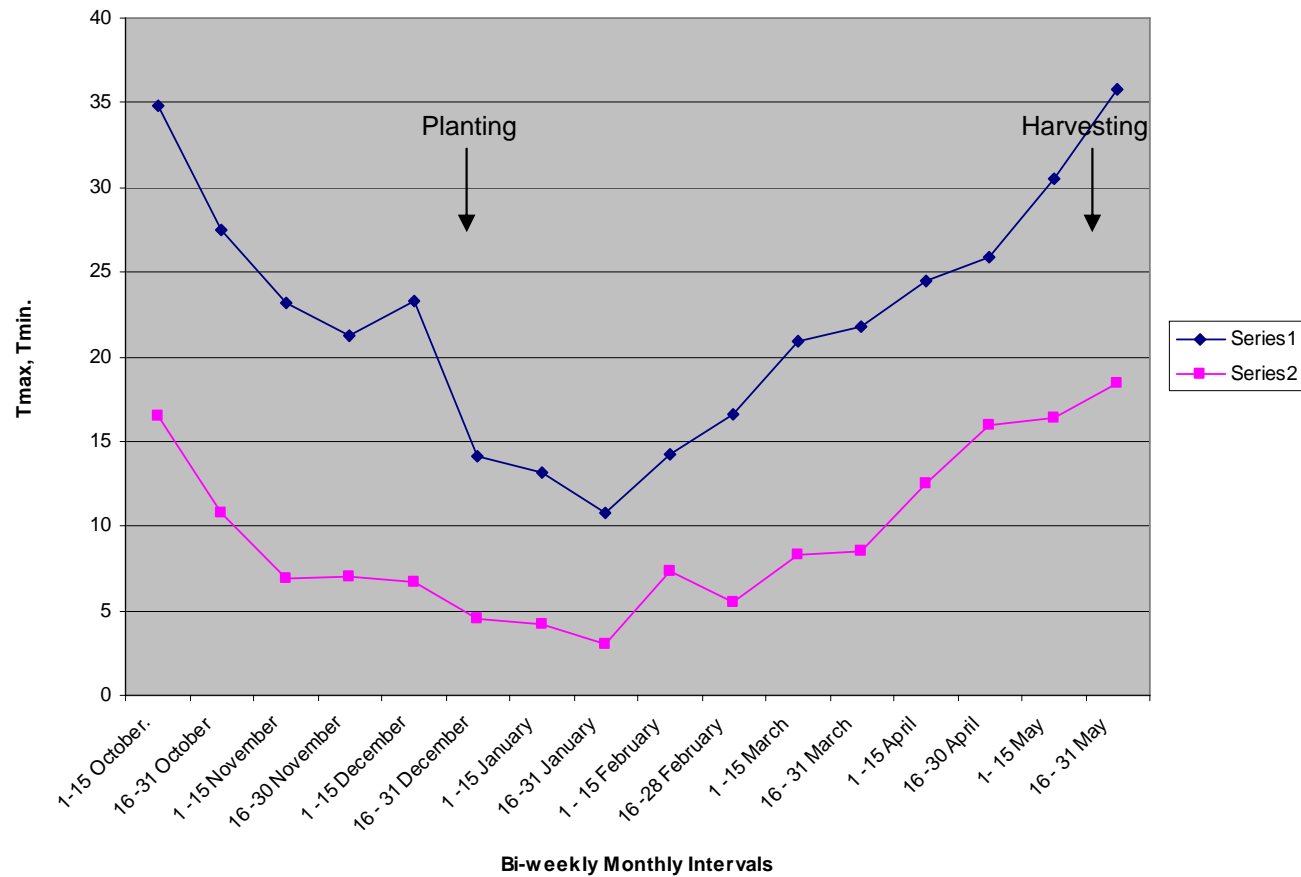
Wheat and Barley Programs

Climatic Conditions 2006

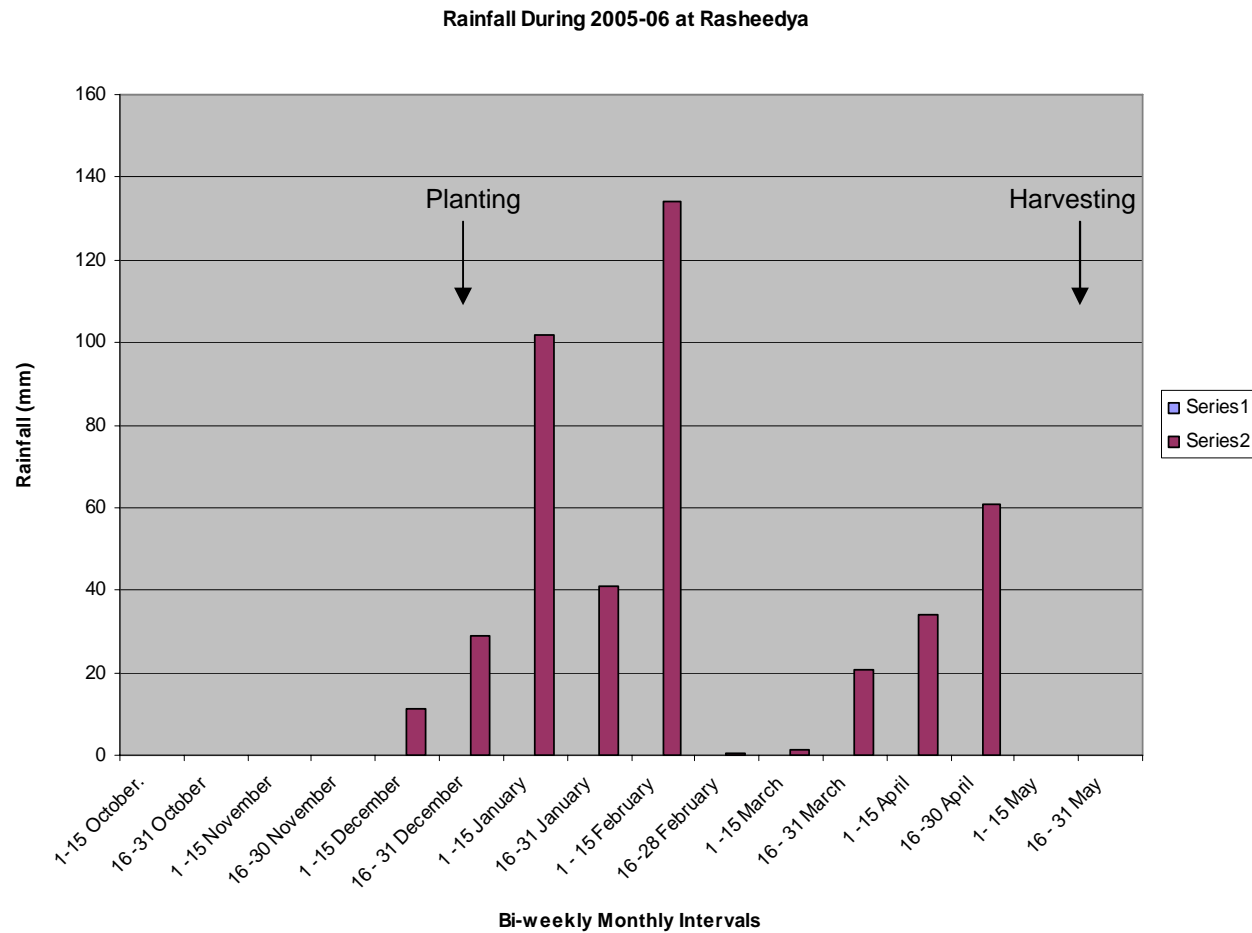
- Rainfall
- Maximum Temperature
- Minimum Temperature
- Relative Humidity
- Sun duration

Tmax and Tmin. At Rasheedya 2005/06

Maximum and Minimum Temperature at Rasheedya 2005-06



Rainfall At Rasheedya 2005/06



Barley Program 2005-06

- International Barley Segregating Populations – Spring Type.
- International Barley Segregating Populations Winter Types
- Barley Nursery for Iraq – Moderate Rainfall Areas
- Barley Nursery for Iraq – Low Rainfall Areas.

Main results of barley program

- International Barley Segregating Populations – Spring Type 2005-06 (crop failure).
- International Barley Segregating Populations Winter Types (Selection of 9 out of 146 populations as bulk);

1. Barley Nursery for Iraq-Moderate Rainfall Areas

- Available Book for the names and pedigree of the lines studied
- Number of lines tested 100 lines.
- Number of lines selected 32 lines.
- Data available: Heading Date, Maturity date, Plant Height, Biological Yield, Grain Yield and 1000 Kernel weight.
- Next season plan: 32 selected lines to be planted in 6 x 6 lattice design with two replicates. 2-3 locations are preferable in Rasheedya, Telkafe and Hamdanya

1. Barley Nursery MRA ...

- Selected lines for further testing:
11,17,18,19,20,21,23,24,25,27,29,37,41,
43,48,49,51,52,53,54,55,57,61,65,76,77,
78,88,90,91,92 and 94.
- Selection criteria:
 - Grain Yield > 1000 kg/ha or more than the yield of Rihane-03.
 - Lodging Tolerance
 - 1000 Kernel weight > 45 g.

2. Barley for Iraq - Low Rainfall Areas

- Books available for names, pedigree and data.
- Number of lines planted 100 lines
- Number of lines selected 46 lines
- Selection criteria:
 - Grain Yield > 500 g/plot
 - Lodging tolerance
 - Black seeded
 - Kernel weight > 45
 - Smooth awns

2. Barley For Iraq – LRA

- The selected lines were:
5, 6, 8,9, 10, 14,15,16,17, 23, 24, 25, 26, 27,
28, 29, 30,31,32, 33, 34, 35, 36, 38, 41, 44,
45, 46, 48, 49, 50, 55, 56, 66, 70,71,
75, 77, 79, 81, 84, 86, 87, 88, 90, 94.
- Next Season Plan:
Planting the selected lines in 7 X 7 lattice
design with two replicates and 3 sites in low
rainfall areas; Hatra, Mukhazaka and
Hamdanya with no fertilizes inputs.

Durum wheat Program

- International Durum Segregating Populations, Mediterranean Dry land 2005-06.
- International Durum Yield Trial for Dryland Temperate Areas.
- International Durum Observation Nursery for Irrigated/Favorable Areas 2005-06.

Results durum wheat program

- International Durum Segregating Populations, Mediterranean Dry land 2005-06 (15 out of 45 populations selected using 5-15 individual plant selection).
- International Durum Yield Trial for Dryland Temperate Areas (6 lines selected out of 24: 2, 3, 4, 5, 6, and 7; yield 2055-3611 kg/ha and Oumrabria: 2358 kg/ha and national check 1000 kg/ha).
- International Durum Observation Nursery for Irrigated/Favorable Areas 2005-06 (no superior lines identified).

Bread wheat Program

- CWANA First Dry land Spring Bread Wheat Screening Nursery 2005-06.
- CWANA First Dry Land Spring Bread Wheat Yield Trial: Low Rainfall – Temperate Areas 2005-06.
- CWANA First Dry Land Spring Bread Wheat Yield Trial: Low Rainfall – Continental Areas 2005-06.
- Crossing Block and F1, F2 Nurseries.
- Australian – Iraqi Wheat trial.

Bread wheat Program

- CWANA First Dry land Spring Bread Wheat Screening Nursery 2005-06 (30 lines selected out of 81).
- CWANA First Dry Land Spring Bread Wheat Yield Trial: Low Rainfall – Temperate Areas 2005-06 (discarded because of flooding and salinity).
- CWANA First Dry Land Spring Bread Wheat Yield Trial: Low Rainfall – Continental Areas 2005-06 (discarded because of flooding and salinity)..
- Crossing Block and F1, F2 Nurseries.
- Australian – Iraqi Wheat trial.

Results of Australia-Iraq wheat yield trial

No.	Name	O	HD	MD	Plth	HN	GY	STR	SPW	KW	KN
1	Kallanie	AUS	18	43	70	130	499	3519	1.6	38.2	39.0
2	Calingiri	AUS	14	45	68	49	205	790	2.2	39.1	21.3
3	Perinjori	AUS	19	46	63	68	322	483	1.9	38.5	-
4	Machete	AUS	19	46	63	162	1256	2910	1.6	36	33.3
5	Stilieto	AUS	20	51	65	141	577	3254	2.4	34.5	24.0
6	Westonia	AUS	21	51	72	67	510	1942	2.6	37	39.0
7	Blade	AUS	21	51	70	128	462	2315	2.6	36.5	20.5
8	Amery	AUS	19	49	79	108	589	2541	2.7	35.3	39.5
9	Wilgoyne	AUS	19	47	78	88	698	1856	2.5	36.3	38
10	Adnanya	IRAQ	19	46	78	66	246	1034	2.3	38.5	39
11	AbuGhr3	IRAQ	17	42	60	47	209	680	2.2	27.2	47
12	SU-30	IRAQ	20	43	82	89	522	1145	2.2	33.2	35.2
13	Hamra	IRAQ	17	50	73	71	387	1630	2.8	29.5	38.7
14	ACSA933	ACSAD	19	50	90	83	463	2537	3.4	37.4	47.0
15	ACSA901	ACSAD	20	50	73	78	816	2295	3.4	39.3	40.5
16	ACSA981	ACSAD	21	47	78	133	732	2713	2.5	34.8	30.9
17	ACSA885	ACSAD	18	54	75	87	739	2094	1.8	33.2	30.7
18	ACSA899	ACSAD	21	46	77	94	663	1784	2.4	36.2	31.5
19	Caudillo	USA	22	53	62	96	766	2460	1.5	27.5	40.5
29	Vee 's'	-	20	47	70	42	171	617	2.0	38.2	31.7