

PROJECT DURATION Continuous
LOCATION Rahim Yar Khan
TREATMENT S/METHODOLOGY **I- NEW CROSSES.** 20 new crosses will be attempted for further studies (List of Genotypes to be crossed in **Annex-II**)
RESEARCH WORKERS Muhammad Yasin, Idrees Ahmad and Masarrat Shaheen
PREVIOUS YEAR'S RESULTS Out of **79** cross combinations **75** successful cross combinations were harvested

II- FILIAL GENERATIONS

TREATMENT S/METHODOLOGY	Following filial generations will be raised.			
	Sr. No.	Generation	Crosses/Progenies	Design
	1.	F ₁	75	Augmented design (Annexure-III)
	2.	F ₂	317 Plants	Non replicated
	3.	F ₃	36 Plants	Non replicated, selection on the basis of row performance
	4.	F ₄	71 Plants	Non replicated, selection on the basis of row performance
	5.	F ₅	24 Progenies	Non replicated, selection on the basis of row performance
	6.	F ₆	8 Progenies	RCBD

PREVIOUS YEAR'S RESULTS	Following breeding material was studied during the last year			
	Sr. No.	Generation	Studied Crosses/Progenies	Selected Crosses/Plants/Progenies
	1.	F ₁	86 Crosses	317 Hybrids
	2.	F ₂	603 Plants	36 Plants
	3.	F ₃	121 Plants	71 Plants
	4.	F ₄	24 Plants	24 Plants
	5.	F ₅	8 Progenies	8 Progenies
	6.	F ₆	12 Progenies	10 Selected for MVT

3-TITLE EVALUATION OF GENOTYPES IN PRELIMINARY YIELD TRIALS

OBJECTIVES To select genotypes with high yield potential possessing desirable fiber traits and resistance/tolerance against pests and CLCuV

RESEARCH WORKER (S) Idrees Ahmed & Muhammad Yasin
PROJECT DURATION 2015-2016
LOCATION Rahim Yar Khan.
TREATMENT S/METHODOLOGY Layout =RCBD
 Repeats =3
 Plot size =9 x 3m
 Sowing time = 1st week of May, 2015
 Two Preliminary yield trials PYT 1-2, each comprising 11 new strains & one standard variety FH-142 will be conducted for the evaluation. Observations will be recorded on yield, earliness, plant height, No. of bolls / plant, boll weight, GOT%, fiber traits and incidence of CLCuV.

PREVIOUS YEAR'S RESULTS

PYT-1				
Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	3/12	33296	4305	37.4
2	1/12	29421	3800	36.3

3	10/12	30569	3736	39.2
4	MNH-886	30999	3650	43.1
5	7/12	36596	3525	38.1
6	2/12	32865	3426	35.4
7	4/12	28273	3417	42.6
8	9/12	29995	3100	36.3
9	8/12	30282	3067	36.9
10	6/12	17078	2923	39.3
11	5/12	18801	2830	40.7
12	11/12	15213	2778	37.0
	LSD (0.05)	4617	603	

PYT-2

Sr. No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	6/13	28847	4390	39.1
2	2/13	29134	3977	38.7
3	1/13	23824	3909	36.8
4	3/13	26263	3796	36.2
5	12/12	20666	3779	38.4
6	4/13	32435	3714	37.4
7	14/12	27842	3697	37.4
8	4/13	27699	3598	43.3
9	5/13	35592	3582	35.8
10	MNH-886	27842	3499	42.9
11	15/12	22101	3274	35.4
12	13/12	22532	2936	39.5
	LSD (0.05)	4653	457	

PYT-3

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	6/14	35879	4086	38.2
2	1/14	35592	4051	42.0
3	7/14	31430	4043	34.5
4	3/14	34300	3828	36.7
5	8/13	21384	3687	37.0
6	MNH-886	23824	3667	38.8
7	6/13	29277	3622	33.0
8	7/13	31860	3555	39.2
9	4/14	28129	3434	43.2
10	5/14	22819	3368	35.4
11	2/14	24972	3087	43.1
12	9/13	21527	2672	42.9
	LSD (0.05)	3956	437	

PYT-4

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	8/14	36309	4610	35.7
2	13/14	34300	4333	38.9
3	15/14	27699	4267	43.9
4	MNH-886	26981	4202	40.1
5	16/14	31573	4102	36.4
6	12/14	30138	4004	35.7
7	10/14	28273	3863	37.9
8	14/14	25259	3729	42.1
9	9/14	30999	3635	36.3
10	11/14	26120	3619	38.3
11	18/14	27411	3456	36.8
12	17/14	23537	3327	36.5
	LSD (0.05)	5945	481	

PYT-5

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	22/14	36884	4225	40.5
2	24/14	32722	3853	36.5
3	26/14	36453	3813	46.5
4	19/14	34300	3769	38.2
5	21/14	33439	3660	39.1
6	20/14	34157	3647	37.0
7	29/14	40041	3594	43.0

8	25/14	37171	3496	44.1
9	23/14	30856	3236	37.7
10	27/14	32865	3176	43.5
11	28/14	34444	3139	40.8
12	MNH-886	28990	3077	43.0
	LSD (0.05)	5168	303	

4-TITLE EVALUATION OF PROMISING LINES IN ADVANCE YIELD

TRIALS

OBJECTIVES To evaluate advance strains for yield performance, fiber characters and resistance/ tolerance against CLCV disease

RESEARCH

WORKER (S) Masarrat Shaheen & Muhammad Yasin

PROJECT

DURATION 2014-2016

LOCATION Rahim Yar Khan

TREATMENT Layout =RCBD

S/ Repeats =3

METHODOLOGY Plot size =9 x 3m

Sowing time = 1st week of May, 2015

Two trials (AYT 1-2) comprising 11 strains and one check FH-142 will be conducted

PREVIOUS YEAR'S RESULTS

AYT-1

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	6/13	36740	3872	36.5
2	5/13	37601	3740	36.3
3	22/11	36740	3598	39.9
4	10/13	42911	3485	35.3
5	11/11	41189	3364	41.6
6	9/11	37745	3338	39.7
7	5/11	39754	3209	35.3
8	17/12	38032	3022	36.1
9	9/12	35879	3017	40.0
10	MNH-886	41189	2903	41.1
11	6/11	34157	2867	36.0
12	18/11	27124	2176	37.0
	LSD (0.05)	3779	380	

AYT-2

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	11/13	44920	3513	32.1
2	7/13	47934	3357	36.4
3	7/11	38749	3146	36.8
4	14/11	39036	3140	33.0
5	17/13	39610	3037	35.3
6	10/11	44490	3031	38.4
7	9/13	31717	3001	34.6
8	MNH-886	43055	2944	40.0
9	24/11	40902	2837	39.4
10	23/11	42768	2814	37.3
11	4/11	27555	2529	38.7
12	21/11	30282	2019	36.9
	LSD (0.05)	4190	414	

AYT-3

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	8/13	42481	2890	36.7
2	25/11	41045	2694	42.8
3	2/13	35161	2655	39.2
4	12/11	37171	2622	35.3
5	16/11	37745	2520	37.7

6	8/11	38032	2474	39.1
7	20/11	38319	2451	41.8
8	19/11	37888	2385	42.5
9	MNH-886	39467	2288	41.8
10	13/11	37745	2268	37.6
11	17/13	32865	2258	35.4
12	15/11	35305	1926	37.1
	LSD (0.05)	5786	460	

AYT-4

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	19/13	37458	2282	46.4
2	20/13	43772	2169	37.6
3	3/13	40615	2097	35.4
4	8/13	42624	2008	38.4
5	2/13	36022	1874	39.1
6	4/13	38175	1821	41.9
7	16/13	22819	1778	36.7
8	MNH-886	41476	1722	43.1
9	18/13	29277	1630	39.1
10	1/13	25259	1462	38.8
11	5/12	28847	1371	39.6
12	8/12	19949	1118	35.1
	LSD (0.05)	5167	711	

AYT-5

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)	GOT %
1	6/12	36740	4653	43.3
2	2/12	38893	4297	39.7
3	4/12	37458	4283	38.3
4	13/13	36453	4018	36.4
5	12/13	33009	3714	38.8
6	15/13	34587	3707	46.8
7	MNH-886	37601	3584	38.8
8	14/13	37888	3581	45.5
9	3/12	28990	3371	37.8
10	7/12	33296	3365	47.6
11	1/11	16217	2783	36.3
12	2/11	25115	2774	40.6
	LSD (0.05)	6451	499	

5-TITLE **EVALUATION OF PROMISING STRAINS IN PROVINCIAL COTTON COORDINATED TRIAL (PCCT) ORGANIZED BY THE DIRECTOR, COTTON RESEARCH INSTITUTE, FAISALABAD**

OBJECTIVES To test the wider adaptability of new promising strains contributed by various breeders under different agro climatic conditions throughout Punjab

RESEARCH WORKER (S) Muhammad Yasin & Masarrat Shaheen

PROJECT DURATION 2015-16

LOCATION Rahim Yar Khan

TREATMENT S/ The seed of the trial will be furnished by the Director, Cotton Research Institute, Faisalabad and it will be laid out in

METHODOLOGY accordance with the instructions received along with seed.

**PREVIOUS
YEAR'S
RESULTS**

PCCT-1

Sr. No.	Code	Name of Variety	PP/ha	Yield (kg/ha)	GOT %
1	PCCT-18	VH-327	34587	4138	35.2
2	PCCT-14	IUB-63	39180	4064	38.7
3	PCCT-19	MNH-988	35305	3962	38.4
4	PCCT-05	IUB-13	39610	3921	39.5
5	PCCT-11	FH-326	36309	3909	35
6	PCCT-02	BS-52	41189	3891	41.7
7	PCCT-16	IR-NIBGE-6	35879	3810	34.2
8	PCCT-04	NIAB-874B	34587	3806	37.5
9	PCCT-20	NIAB-878B	38893	3785	39.1
10	PCCT-17	MNH-992	40041	3777	39
11	PCCT-01	AGC-999	39610	3766	38.1
12	PCCT-12	FH-142*	43198	3734	39.6
13	PCCT-15	AGC-NAZEER	43055	3598	38.3
14	PCCT-03	CYTO-177	37601	3563	40.8
15	PCCT-28	IUB-75	39897	3334	41
16	PCCT-22	BH-185	40615	3241	39.8
17	PCCT-27	CIM-616	40328	3216	37.9
18	PCCT-13	RH-647	39467	3137	41.3
19	PCCT-10	VH-305	35735	3121	38.3
20	PCCT-23	AGC-501	35448	3114	38
21	PCCT-26	FH-312	41620	3106	39.7
22	PCCT-9	FH-LALAZAR	30712	3074	39.4
23	PCCT-21	FH-NOOR	33009	3055	36.9
24	PCCT-07	SLH-8	35879	3038	37.6
25	PCCT-25	IR-NIBGE-7	37888	3025	38.4
26	PCCT-30	AA-926	34157	2981	38.1
27	PCCT-08	BH-84	39180	2966	38.4
28	PCCT-24	MNH-886*	35018	2961	35.8
29	PCCT-06	AA-919	38032	2711	39.1
30	PCCT-29	IUB-75	21958	2704	38.8
	LSD (0.05)		6184	693	

PCCT-2

Sr. No.	Code	Name of Variety	PP/ha	Yield (kg/ha)	GOT %
1	PCCT-1	CRYSTAL	38749	3687	38.1
2	PCCT-7	S-14	38175	3287	40.0
3	PCCT-11	NIAB-414	38749	3249	39.8
4	PCCT-8	MNH-886	38893	3208	39.1
5	PCCT-3	AL-SEEMI H-209	36022	3061	41.3
6	PCCT-10	SAHARA-133	39610	3004	39.7
7	PCCT-2	S-13	32148	2969	38.7
8	PCCT-6	EAGLE-1	39036	2720	38.1
9	PCCT-4	FH-142	41620	2712	38.1
10	PCCT-12	TARZEN-4	24398	2397	39.5
11	PCCT-5	SAHARA-120	38319	2111	39.2
12	PCCT-9	GS-433	11338	1808	37.3
	LSD (0.05)		7292	522	

PCCT-3

Sr. No.	Code	Name of Variety	PP/ha	Yield (kg/ha)	GOT %
1	PCCT-4	RH-650	32435	3430	41.2
2	PCCT-3	BH-177	44920	3206	36.6
3	PCCT-2	FH-142	35305	2578	32.7
4	PCCT-1	MNH-994	36166	2557	36.8
	LSD (0.05)		7099	595	

6-TITLE EVALUATION OF THE MOST PROMISING STRAINS IN NATIONAL CO-ORDINATED VARIETAL TRIAL

OBJECTIVES To test the wider adaptability of new promising strains contributed by different breeders under different ecological zones throughout Pakistan

RESEARCH WORKER (S) Muhammad Yasin, Masarrat Shaheen and Umair Faheem

PROJECT DURATION 2015-16
LOCATION Rahim Yar Khan

TREATMENT S/ The seed will be supplied by the Coordinator, NCVT, PCCC, Karachi and the trial will be laid out according to the instructions received by the Coordinator NCVT, Karachi

METHODOLOGY PREVIOUS YEAR'S RESULTS

NCVT (Set-C)

Sr.N	Code	PP/ha	Yield (kg/ha)	GOT %
1	C-12	39897	4931	40.6
2	C-13	35448	4847	39.5
3	C-3	49369	4448	35.4
4	C-4	41619	4304	39.4
5	C-5	36883	4168	38.9
6	C-10	42193	4133	39.8
7	C-7	39323	4020	40.4
8	C-11	37313	3935	38.1
9	C-6	41762	3876	39.2
10	C-14	41906	3849	39.6
11	C-17	33008	3845	39.9
12	C-9	41906	3716	39.1
13	C-2	41619	3671	41.4
14	C-15	46068	3571	39.1
15	C-18	29133	3519	40.2
16	C-16	37313	3497	40.2
17	C-1	37313	3463	42.9
18	C-8	36596	2958	38.6
	LSD (0.05)	9702	762	

NCVT (Set-D)

Sr. No.	Code	PP/ha	Yield (kg/ha)	GOT%
2	D-2	37888	4367	40.1
3	D-3	40614	4293	37.8
4	D-4	45637	4073	39.7
1	D-1	40184	3881	40.0
	LSD (0.05)	N.S	N.S	

7-TITLE MULTI-LOCATION TESTING OF PROMISING STRAINS UNDER DROUGHT CONDITION

OBJECTIVES To study the wider adaptability of new promising strains under drought conditions at different agro climatic conditions throughout Punjab (Six Locations)

RESEARCH WORKER (S) Muhammad Bakhsh, Naeem Ahmad and Muhammad Yasin.

PROJECT DURATION 2015-2016
LOCATION Rahim Yar Khan

TREATMENT S/ The seed of the trial will be furnished by the Director, Cotton Research Institute, Faisalabad

**METHODOL
OGY**

and it will be laid out in accordance with the instructions received along with the trial

**PREVIOUS
YEAR'S
RESULTS**

Set-1		
Variety	P.P/ha	Yield kg/ha
DVT-1	25653	1863
DVT-2	27447	1417
DVT-3	28703	1728
DVT-4	29600	1178
DVT-5	28524	1275
DVT-6	30138	1566
DVT-7	31214	1368
DVT-8	27447	1229
DVT-9	28344	1160
DVT-10	28524	1939
FH-142	26730	1174
FH-942	26909	1621

Set-2		
Variety	P.P/ha	Yield kg/ha
DVT-1	28882	3774
DVT-2	28524	3201
DVT-3	31035	3721
DVT-4	33905	3265
DVT-5	29779	3466
DVT-6	36776	3696
DVT-7	33547	3297
DVT-8	36596	3391
DVT-9	29779	3333
DVT-10	33188	4001
FH-142	31573	3011
FH-942	33367	3284

No. of Irrigation (3)**Normal (6-8) Irrigation**

01-09-14	60-days after germination
01-10-14	90- days after germination
01-11-14	120- days after germination

AGRONOMY TRIALS**8-TITLE****DETERMINATION OF OPTIMUM PLANTING TIME FOR NEW PROMISING STRAINS OF COTTON****OBJECTIVES**

To study the impact of different sowing dates on the growth and yield of strains /varieties of cotton

**RESEARCH
WORKER
(S)**

Muhammad Bakhsh &, Naeem Ahmad

PROJECT**DURATION**

2014-16

LOCATION

Rahim Yar Khan

TREATMENT

Treatments,

S/
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A) Varieties = 3 (FH-142, RH-647, RH-651)
 B)Dates of sowing: = 9 16/2,1/3,16/3,1/4,16/4,1/5,16/5,1/6 &16/6
 Layout: Split Plot Design
 Repeats: 4
 Plot size: 3.0 x 7.6m

The data regarding plant population, plant height number of bolls per plant, yield and CLCuV will be recorded.

**PREVIOUS
YEAR'S
RESULTS**

S. No	Treatments	Plant population/ha			Yield kg/ha			Mean
		FH-142	RH-647	RH-650	FH-142	RH-647	RH-650	
1	16-2-2014	38462	37458	35018	2024	1851	1859	1911
2	1-3-2014	37458	35018	39180	2008	1880	2052	1980
3	16-3-2014	35018	39180	34300	2354	1823	2280	2152
4	1-4-2014	39180	34300	36166	2669	2339	2555	2521
5	16-4-	34300	36166	41620	2698	2595	2655	2649

	2014								
6	1-5-2014	36166	41620	41046	2648	2332	2590	2524	
7	16-5-2014	41620	41046	39037	2425	2117	2388	2310	
8	1-6-2014	41046	39037	42768	1823	1622	1780	1741	
9	16-6-2014	39037	42768	38750	1292	1026	1213	1177	
LSD(0.05)									156

9-TITLE RESPONSE OF COTTON (RH-651) TO VARIOUS LEVELS AND TIME OF POTASH (K₂O) APPLICATION.

OBJECTIVES To determine the best responsive dose of K₂O and time of application to cotton

RESEARCH WORKER (S) Naeem Ahmad & Muhammad Bakhsh

PROJECT DURATION 2014-16

LOCATION Rahim Yar Khan

TREATMENT Variety = RH-651

TS/ Layout = SPD

METHOD Repeats = 4

LOGY Plot size = 3.0 x 7.6 m

Treatments

K₂O levels

- (A) F-1 Control (No K₂O will be applied)
 F-2 31.0 kg/ha K₂O
 F-3 62.0 kg/ha K₂O
 F-4 98.0 kg/ha K₂O

Time of application

- (B) T-1 Full at sowing
 T-2 Full at 35 DAS
 T-3 ½ at sowing + ½ at 35 DAS
 T-4 ½ at 35 DAS + ½ on 7th August (Peak flowering stage)

23-kg/acre P₂O₅ will be applied at sowing & 57-kg/acre N will be applied in three split doses.

The data regarding plant population, plant height, number of bolls per plant, average boll weight, yield, GOT% and staple length of cotton will be recorded.

PREVIOUS YEAR'S RESULTS

Treatment		Plant Population/ha	Plant Height (cm)	No. of Bolls/Plant	Boll weight (gm)	Yield (Kg/ha)
Fertilizer Dose	Time of Application					
F1	T1	46068	118.3	19.6	2.98	3853
F1	T2	45960	119.6	19.6	2.95	3832
F1	T3	47467	121.0	19.2	2.91	3756
F1	T4	46391	121.3	19.6	2.97	3907
F2	T1	45530	124.0	21.0	3.03	4327
F2	T2	46929	124.7	20.7	3.05	4295
F2	T3	46821	124.2	21.1	3.10	4435
F2	T4	48220	124.	20.6	3.06	4176

			2			
F3	T1	47144	123.7	21.9	3.17	4596
F3	T2	45853	125.1	21.0	3.12	4370
F3	T3	45422	127.5	22.2	3.12	4585
F3	T4	45637	126.5	20.8	3.09	4252
F4	T1	45960	126.5	21.9	3.12	4618
F4	T2	46929	124.9	20.2	3.12	4327
F4	T3	45422	126.9	22.4	3.13	4618
F4	T4	45530	128.3	22.1	3.12	4176
LSD (0.05)						199

10-TITLE ECONOMIC POTENTIAL OF RELAY CROPPING SYSTEM (RAYA, BARSEEM & WHEAT) IN NORMAL SOWN COTTON.

OBJECTIVES To determine the economic potential of relay cropping when wheat, Barseem and Raya will be planted in normal sown cotton

RESEARCH WORKER (S)

Muhammad Bakhsh & Naeem Ahmad

PROJECT DURATION

2014-16

LOCATION

Rahim Yar Khan

TREATMENT S/

Variety = RH-651

METHODOLOGY

Layout = RCBD

Repeats =4

Plot size = 4.5 x 7.5m

Date of sowing =1st fortnight of May, 2015 (cotton).

= Oct. & Nov., 2015 (Wheat, Raya &

Barseem).

Treatments 4

1. Cotton alone
2. Cotton + Raya
3. Cotton + wheat
4. Cotton + Barseem

Raya, Wheat and Barseem will be sown by broadcast method in standing cotton crop. The data regarding plant population, plant height, number of bolls per plant, CLCuV, yield will be recorded.

PREVIOUS YEAR'S RESULTS

Sr. No.	Treatments	Yield Kg/ha				Net profit /ha (Rs.)
		Cotton	Raya	Wheat	Barseem	
1.	Cotton alone	2701	-	-	-	28234
2.	Cotton + Raya	2627	1233	-	-	75148
3.	Cotton + wheat	2555	-	5606	-	159780
4.	Cotton + Barseem	2520	-	-	49259	129965
LSD (0.05)		356				75411

11-TITLE EFFECT OF PLANT SPACING ON THE PRODUCTIVITY OF NEW PROMISING COTTON STRAINS

OBJECTIVES To determine the optimum plant spacing within rows for getting maximum seed cotton yield from new cotton strains.

RESEARCH WORKER (S)

Muhammad Bakhsh & Naeem Ahmad

PROJECT DURATION

2014-16

LOCATION

Rahim Yar Khan

TREATMENT S/

Layout = RCBD

METHODOLOGY

Strain = RH-651

Plot size = 3.0 x 7.6 m

Repeats = 4

Date of sowing 1st fortnight of May, 2015.

Treatments	
S ₁ =	15.0 x 75 cm
S ₂ =	22.5 x 75 cm
S ₃ =	30.0 x 75 cm
S ₄ =	37.5 x 75 cm
S ₅ =	45.0 x 75 cm

The data regarding plant population, plant height, number of bolls per plant, CLCV%, yield, GOT%, Staple Length & insect pest population will be recorded.

PREVIOUS YEAR'S RESULTS

Treatments		PP/ha	Plant Height (cm)	No. of Bolls/Plant	Boll Weight (gms)	CLCV (%age)	Yield (Kg/ha)
S ₁ =	15.0 x 75 cm	79651	114.85	19	3.25	0	4211
S ₂ =	22.5 x 75 cm	55971	115.40	22	3.09	0	4131
S ₃ =	30.0 x 75 cm	42696	119.00	27	2.99	0	3648
S ₄ =	37.5 x 75 cm	34444	112.95	27	3.15	0	3711
S ₅ =	45.0 x 75 cm	27963	117.90	30	3.15	0	3835
LSD (0.05)							449.94

12-TITLE EFFECT OF NPK IN VARIOUS COMBINATION ON THE YIELD AND QUALITY OF THE NEW COTTON STRAINS

OBJECTIVES To study the most suitable combination of fertilizer for higher yield.

RESEARCH WORKER (S)

Naeem Ahmad & Muhammad Bakhsh

PROJECT DURATION

2014-16

LOCATION

Rahim Yar Khan

TREATMENT S/METHODOL OGY Variety: RH-651
 Layout: RCBD
 Repeats: 4
 Plot size: 3.0 x 7.6 m
 Date of sowing: 1st fortnight of May, 2015.

Treatments 6

N:P₂O₅:K₂O(Kg/acre)

F1 60:35:25
 F2 75:35:25
 F3 90:35:25
 F4 60:70:25
 F5 75:70:25
 F6 90:70:25

Soil will be analyzed before sowing of the experiment. The data regarding plant population, plant height, number of bolls per plant, CLCuV, yield, GOT% and staple length of cotton will be recorded.

PREVIOUS YEAR'S RESULTS

Treatments	Plant Population/ha	Plant Height (cm)	No. of Bolls/Plant	Boll Weight (gms)	Yield (Kg/ha)
F1= 60:35:25	47838	140	27	3.00	2643
F2= 75:35:25	48077	142	29	2.98	2918
F3= 90:35:25	48137	145	29	3.09	2942
F4= 60:70:25	48137	140	27	3.02	2685
F5= 75:70:25	48556	142	29	2.99	2948
F6= 90:70:25	48316	147	30	3.06	3008
LSD (0.05)	921.39	3.85	3.60		156.99

13 -TITLE IMPACT OF GROWTH REGULATORS ON COTTON CROP BEHAVIOUR AND YIELD

OBJECTIVE RESEARCH WORKER (S) To regulate the crop growth and enhancement of flowers/ boll retention

Muhammad Bakhsh, Muhammad Yasin & Umair Faheem.

PROJECT DURATION 2015-17

LOCATION CRI, Khanpur Distt. R.Y.Khan.

TREATMEN Variety = RH-651 and RH-647
TS/ Sowing time = May 1st, 2015
METHODOL No. of Sprays = 02 (1st July, 1st August)
OGY Treatments:
 T1: Flumetralin,
 T2: Control (no spray)

Layout	split plot
Plot size	2 Kanal
Replications	3

Recommended dose of NPK will be applied. Plant spacing will be kept 30cm. Data regarding agronomic traits (Fortnightly Plant height, Shedding %age, Boll Size, average Boll weight, seed cotton Yield and Quality traits) will be recorded.

**PREVIOUS
YEAR'S
RESULTS**

First year of experiment

ENTOMOLOGY TRIALS

14-TITLE EFFECT OF DIFFERENT SOWING TIMES ON POPULATION OF SUCKING INSECTS ON COTTON

OBJECTIVES To study the sucking insect pest pressure on cotton sown at different times.

RESEARCH

WORKER

Umair Faheem, Muhammad Bakhsh & Naeem Ahmad

(S)

PROJECT

DURATION

2013-15

LOCATION

Rahim Yar Khan

TREATMEN

Treatment

TS/

Varieties: 2 (V1=RH-647, V2=RH-651)

METHODOL

Dates of sowing: 5 (T1=16/3, T2=1/4, T3=16/4, T4=1/5, T5=16/5)

OGY

Layout: Split Plot Design

Repeats: 3

Plot size: 3.0 x 7.6m

Data regarding sucking pests (whitefly, thrips, jassid, mealy bug, mites & dusky cotton bug) will be recorded weekly.

**PREVIOUS
YEAR'S
RESULTS**

	Whitefly/leaf		Thrips/leaf		Jassid/leaf		Plant Population/ha		Yield (Kg/ha)	
	V1	V2	V1	V2	V1	V2	V1	V2	V1	V2
16.03.14	3.4 4	3.2 3	6.0 7	6.2 3	0.3 2	0.3 2	424 09	4154 8	947	840
01.04.14	3.4 9	3.1 6	5.8 1	6.0 3	0.3 1	0.3 2	423 02	4111 8	947	538
16.04.14	3.3 8	3.2 5	5.4 6	5.8 3	0.2 4	0.2 7	424 32	4154 8	893	452
01.05.14	3.0 7	2.9 7	5.3 5	5.4 4	0.2 1	0.2 2	410 22	4057 9	678	398
16.05.14	2.9 3	2.7 7	5.3 2	5.4 0	0.1 7	0.1 5	424 09	4025 6	721	409
LSD	0.04		0.07		0.028		590.92		304.56	

Annexure-I**LIST OF GENE POOL AT CRI, R.Y.KHAN.**

S.#.	Genotype	S.#.	Genotype	S.#.	Genotype	S.#.	Genotype	S.#.	Genotype	S.#.	Genotype	S.#.	Genotype
1	RH-1	29	RH-590	57	6056/05	85	CIM-498	11 3	VH-141	14 1	BAB- DAL	16 9	JS-212
2	RH-112	30	RH-598	58	6068/05	86	CIM-554	11 4	VH-142	14 2	BAB-SHAH	17 0	647/09
3	RH-305	31	RH-602	59	FH-113	87	CIM-557	11 5	VH-148	14 3	L-11	17 1	4002/10
4	RH-370	32	RH-604	60	FH-114	88	CIM-595	11 6	VH-278	14 4	U-633	17 2	4174/10
5	RH-405	33	RH-608	61	FH-115	89	CIM-598	11 7	SLS	14 5	TH-06/2	17 3	FH-Lalazar
6	RH-424	34	RH-609	62	FH-116	90	MNH-993	11 8	SLS-1	14 6	HT-41-83	17 4	CIM-616
7	RH-500	35	RH-611	63	FH-256	91	MNH-100	11 9	SLH-256	14 7	Sitara-008	17 5	MNH-988
8	RH-514	36	RH-615	64	FH-634	92	MNH-129	12 0	SLH-337	14 8	Coker Wilt- 100	17 6	VH-259
9	RH-518	37	RH-618	65	FH-635	93	MNH-632	12 1	CRIM-38	14 9	MEX-9	17 7	CIM-599
10	RH-527	38	RH-619	66	FH-682	94	MNH-633	12 2	CRISS-129	15 0	K-68/9	17 8	CIM-602
11	RH-531	39	RH-620	67	FH-699	95	MNH-456	12 3	CRIS-461	15 1	1812	17 9	NIAB-824
12	RH-532	40	RH-624	68	FH-900	96	MNH-886	12 4	CRIM-2007	15 2	MS-40	18 0	CEMB-33
13	RH-534	41	2/03	69	FH-901	97	NIAB-78	12 5	BS-1	15 3	VH-282	18 1	A-555
14	RH-536	42	5/03	70	FH-938	98	NIAB-98	12 6	MJ-6	15 4	VH-292	18 2	Tarzen-2
15	RH-538	43	38/03	71	FH-941	99	NIAB-208	12 7	GS-14	15 5	TARZAN	18 3	CIM-616
16	RH-540	44	44/03	72	FH-942	10 0	NIAB-777	12 8	GH-102	15 6	FH-142	18 4	CEMB-33

17	RH-541	45	48/03	73	FH-956-F	10 1	NIAB-824	12 9	Red Acala	15 7	CIM-573	18 5	LS-62
18	RH-542	46	52/03	74	CIM-996- 6/F3	10 2	NIAB-846	13 0	AC-134	15 8	MS-71	18 6	RH-651
19	RH-543	47	96/03	75	CIM- 996/2000	10 3	NIAB-852	13 1	A-637-24	15 9	MS-289	18 7	RH-655
20	RH-545	48	110/03	76	FH-207	10 4	NIAB-9811	13 2	A-ONE	16 0	MS-DK	18 8	RH-656
21	RH-547	49	111/03	77	FH-2007	10 1	NN-3	13 3	Acala (67)- 1479 6	16 1	FH-118 LS-62	18 9	RH-657
22	RH-550	50	5009/03	78	FH-2015	10 2	BH-125 Galazar	13 4	Acala (67)- 7834 7	16 2	FH-142 RH-651	19 0	Noor
23	RH-551	51	5052/04	79	FH-2021	10 3	BH-147 CIM-599	13 5	Acala GL- 510 8	16 3	IR-3701 RH-655		
24	RH-553	52	5026/04	80	FH-2037	10 4	BH-160 CIM-616	13 6	Acala-1517- 77 9	16 4	IR-901 RH-656		
25	RH-554	53	135/05	81	FH-2075	10 5	BH-172 CIM-598	13 7	Acala CIM DOS 10	16 5	IUB-222 RH-657		
26	RH-560	54	6023/05	82	H-277	11 0	BH-175	13 8	ARFT x HIP- 36	16 6	IUB-2009		
27	RH-570	55	6026/05	83	H-570	11 1	FVH-53	13 9	AHB-79-9- 90	16 7	A-555		
28	RH-573	56	6028/05	84	H-65	11 2	VH-137	14 0	Alseemihygr id	16 8	BH-178		

Annexure-II

LIST OF GENOTYPES TO BE USED FOR CROSSING DURING, 2015-16

Annexure-III**LIST OF CROSSES ATTEMPTED DURING 2014 AT CRI, R.Y.KHAN.**

S.#.	Parentage	S.#.	Parentage	S.#.	Parentage
1	Lalazar x PCCT-14	28	C-42 P7 x FH-142	55	645/09 x Lalazar
2	FSD x PCCT-14	29	C-42 P7 x CIM616	56	645/09 x FH-142
3	FSD x FH-142	30	C-42 P7 x FSD	57	645/09 x CIM-616
4	FSD x CIM-616	31	C-42 P8 x Lalazar	58	C-90 P6 x Lalazar
5	FSD x Lalazar	32	C-42 P8 x FH-142	59	C-90 P6 x FH-142
6	FH-142 x FSD	33	C-42 P8 x CIM-616	60	C-90 P6 x CIM-616
7	FH-142 x Lalazar	34	C-42 P8 x FSD	61	C-4 x Lalazar
8	FH-142 x CIM-616	35	C-1 x Lalazar	62	C-4 x V-2
9	Lalazar x FH-142	36	C-1 x FH-142	63	C-4 x V-3
10	Lalazar x CIM-616	37	C-1 x CIM-616	64	C-4 x V-10
11	Lalazar x FSD	38	C-1 x FSD	65	C-5 P3 x Lalazar
12	CIM-616 x Lalazar	39	C-9 P4 x Lalazar	66	C-5 P3 x V-2
13	CIM-616 x FH-142	40	C-9 P4 x FH-142	67	C-5 P3 x V-3
14	CIM-616 x FSD	41	C-9 P4 x CIM-616	68	C-5 P5 x Lalazar
15	4123/10 x Lalazar	42	C-9 P4 x FSD	69	C-5 P5 x V-10
16	C-12/09 x Lalazar	43	C-9 P5 x Lalazar	70	C-8 P2 x Lalazar
17	C-38 B3 P4 x Lalazar	44	C-9 P5 x FH-142	71	C-8 P2 x V-3
18	4123/10 x FH-142	45	C-9 P5 x CIM-616	72	RH-647 x V-2
19	C-12/09 x FH-142	46	C-9 P5 x FSD	73	C-4 B5 P3 x V-3
20	C-38 B3 P4 x FH-142	47	C-9 P6 x Lalazar	74	C-9 B12 P2 x V-10
21	4123/10 x CIM-616	48	C-9 P6 x FH-142	75	C-29 B1 P2 x V-2
22	C-12/09 x CIM-616	49	C-9 P6 x CIM-616	76	C-36 B3 P1 x V10
23	4123/10 x FSD	50	C-9 P6 x FSD	77	4174/10 x V-3
24	C-12/09 x FSD	51	C-16 P2 x Lalazar	78	C-9 B2 P2 x Lalazar
25	C-38 B3 P4 x CIM-616	52	C-16 P2 x FH-142	79	C-12 B4 P2 x Lalazar
26	C-38 B3 P4 x FSD	53	C-16 P2 x CIM-616		
27	C-42 P7 x Lalazar	54	C-16 P2 x FSD		