

ANNUAL PROGRAMME OF RESEARCH WORK COTTON RESEARCH INSTITUTE, KHANPUR, 2016- 17

BREEDING PHASE

**1-TITLE COLLECTION, MAINTENANCE AND EVALUATION OF
GERMPLASM.**

OBJECTIVES To screen high yielding, desired fiber characteristics, pest and CLCuV tolerant lines for use in hybridization programme.

RESEARCH WORKER (S) Idrees Ahmad and Umair Faheem

PROJECT DURATION Continuous

LOCATION Khanpur

TREATMENT S/METHODOL OGY	Entries =	i)	Existing:	190
		ii)	New collection	5
		Total:	195	(Annex-i)

Each entry will be planted in a single row in non replicated design during 1st week of May, 2016.

The following observations will be recorded.

- | | |
|-----|-----------------------------------|
| 1. | First flower appearance date. |
| 2. | Sympodial /Monopodial branches. |
| 3. | Leaf shape (okra/ broad /narrow). |
| 4. | Boll size (big, medium, small). |
| 5. | No. of bolls / plant. |
| 6. | Pest infestation. |
| 7. | CLCuV incidence. |
| 8. | Plant height. |
| 9. | Ginning Out Turn %age. |
| 10. | Fiber traits. |

PREVIOUS YEAR'S RESULTS One hundred and eighty two entries were studied and data for different traits is as under:

Character	Range
Plant Yield (g)	45 - 360
Plant Height (cm)	75 - 192
CLCuV (%)	0-100
Boll weight (gm)	2 - 4.5
Leaf Shape	Okra - Broad - Narrow
Leaf Size	Small - Large
GOT (%)	23 - 46
Staple Length (mm)	26 - 31.7

2-TITLE DEVELOPMENT OF BREEDING MATERIAL POSSESSING HIGH CLCuV TOLERANCE, EARLINESS, HIGH YIELD AND IMPROVED FIBRE QUALITY.

OBJECTIVE To create genetic variability.

PROJECT DURATION Continuous

LOCATION Khanpur

TREATMENT S/ METHODOL OGY **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 Musarrat Shaheen

PREVIOUS YEAR'S RESULTS Out of **60** cross combinations **52** successful cross combinations were harvested.

II- FILIAL GENERATIONS

TREATMENT S/ METHODOL OGY	Following filial generations will be raised.			
	Sr. No.	Generation	Crosses/Progenies	Design
	1.	F ₁	52	Augmented design
	2.	F ₂	500 Plants	Non -replicated
	3.	F ₃	664 Plants	Non -replicated, selection on the basis of row performance
	4.	F ₄	34 Plants	Non-replicated, selection on the basis of row performance
	5.	F ₅	47 Progenies	Non -replicated, selection on the basis of row performance
	6.	F ₆	22 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	75 Crosses	500 Hybrids
	2.	F ₂	317 Plants	664 Plants
	3.	F ₃	36 Plants	34 Plants
	4.	F ₄	71 Plants	47 Plants
	5.	F ₅	24 Progenies	22 Progenies
	6.	F ₆	14 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 and Muhammad Yasin

PROJECT DURATION 2016-2017

LOCATION

TREATMENT S/METHOD/LOGY Khanpur Layout =RCBD Repeats =3 Plot size =9 x 3m Sowing time = 1st week of May, 2016

Varieties

PYT-1=16/14, 24/14, 30/14, 31/14, 32/14, 33/14, 34/14, 35/14, 36/14, 37/14, 38/14 and FH-142

PYT-2=39/14, 40/14, 41/14, 42/14, 43/14, 44/14, 45/14, 01/15, 02/15, 03/15, 04/15 and FH-142

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%.

PYT-1

PREVIOUS YEAR'S RESULTS

Sr. No.	Varieties	P.P/ha	Yield (kg/ha)
1.	RH-661	40280	3518
2.	RH-660	37888	3420
3.	02/15	40758	3209
4.	RH-659	39801	3173
5.	17/12	38462	3018
6.	04/15	38175	2909
7.	FH-142	38079	2816
8.	RH-662	40184	2811
9.	RH-658	36453	2735
10.	03/15	35496	2599
11.	01//15	39227	2537
12.	30/14	42193	2449
	LSD (0.05)	5221	339

PYT-2

Sr. No.	Varieties	P.P/ha	Yield (Kg/ha)
1.	05/13	40184	3044
2.	RH-665	41141	3042
3.	RH-663	37505	3030
4.	RH-664	40471	3000
5.	FH-142	39993	2831
6.	01/13	39801	2754
7.	06/14	41332	2727
8.	11/13	40758	2489
9.	19/13	35687	2477
10.	RH-666	37123	2326
11.	02/14	41332	2211
12.	08/14	40089	2054
	LSD (0.05)	5535	290

4-TITLE EVALUATION OF PROMISING LINES IN ADVANCE YIELD TRIALS.

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

RESEARCH WORKER (S) Musarrat Shaheen and Muhammad Yasin

PROJECT 2016-2017

DURATION**LOCATION** Khanpur**TREATMENT S/METHOD/DOLOGY** Layout =RCBD
Repeats =3
Plot size =9 x 3m
Sowing time = 1st week of May, 2016**AYT-1**=08/11, 14/11, 01/12, RH-670, 14/12, 08/13, 11/13, 19/13, 31/13, 06/14, 10/14 and FH-142**AYT-2**=RH-655, RH-658, RH-660, RH-661, RH-662, RH-664, RH-667, RH-668, RH-669, RH-671, RH-672 and FH-142

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

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

AYT-1			
Sr. No.	Varieties	P.P/ha	Yield (kg/ha)
1.	14/11	44203	3495
2.	14/12	39897	2785
3.	06/13	43724	2769
4.	12/12	42193	2749
5.	RH-647	40471	2639
6.	FH-142	43820	2621
7.	08/13	39706	2585
8.	02/13	40567	2488
9.	22/11	40758	2461
10.	09/12	40758	2447
11.	31/13	41811	2428
12.	RH-651	43629	2366
	LSD (0.05)	4860	303

AYT-2

Sr.No.	Varieties	P.P/ha	Yield (kg/ha)
1.	08/11	38653	2769
2.	10/13	40376	2500
3.	17/13	38271	2412
4.	24/14	41141	2327
5.	13/13	38079	2315
6.	RH-655	34539	2264
7.	FH-142	37123	2206
8.	10/14	38558	2186
9.	16/14	40089	2067
10.	RH-652	37601	2043
11.	01/12	39514	1849
12.	16/13	40089	1694
	LSD (0.05)	6234	373

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.
Muhammad Yasin and Musarrat Shaheen

RESEARCH WORKER (S)

PROJECT DURATION 2016-17

LOCATION Khanpur

TREATMENTS/METHODOLOGY The seed of the trial will be furnished by the Director, Cotton Research Institute, Faisalabad and it will be laid out in accordance with the instructions received along with seed.

PCCT-1

PREVIOUS YEAR'S RESULTS

Sr. No.	Code	Name of Variety	PP/ha	Yield (kg/ha)
1.	PCCT-12		37458	3574
2.	PCCT-10		47791	3544
3.	PCCT-19		35736	3283
4.	PCCT-20		25833	3117
5.	PCCT-22		24972	3026
6.	PCCT-14		25402	2982
7.	PCCT-16		24541	2876
8.	PCCT-21		32722	2744
9.	PCCT-4		38750	2476
10.	PCCT-2		45208	2372
11.	PCCT-15		33152	2350
12.	PCCT-9		43486	2329
13.	PCCT-17		15500	2329
14.	PCCT-13		29277	2312
15.	PCCT-6		43916	2236

16.	PCCT-23		13347	2212
17.	PCCT-8		33152	2193
18.	PCCT-11		42194	2182
19.	PCCT-5		39611	2134
20.	PCCT-7		40472	2096
21.	PCCT-24		26694	2030
22.	PCCT-18		27555	1895
23.	PCCT-1		39611	1891
24.	PCCT-3		41763	1654
	LSD (0.05)		8860	651

PCCT-2

Sr. No.	Code	Name of Variety	PP/ha	Yield (kg/ha)
1.	PCCT-8		43485	3732
2.	PCCT-2		40758	3623
3.	PCCT-5		37314	3346
4.	PCCT-6		28703	3317
5.	PCCT-18		40902	3301
6.	PCCT-4		30282	3292
7.	PCCT-19		38606	3168
8.	PCCT-13		40184	3122
9.	PCCT-11		37601	3088
10.	PCCT-9		35592	2984
11.	PCCT-21		45494	2945
12.	PCCT-1		37745	2898
13.	PCCT-3		35879	2881
14.	PCCT-14		36022	2807
15.	PCCT-20		41907	2806
16.	PCCT-16		44203	2680
17.	PCCT-15		34444	2611
18.	PCCT-7		38175	2536
19.	PCCT-10		38032	2530
20.	PCCT-17		29995	2464
21.	PCCT-12		23824	2335
	LSD (0.05)		9279	559

PCCT-3

Sr. No.	Code	Name of Variety	PP/ha	Yield (kg/ha)
1.	PCCT-1		40184	2422
2.	PCCT-2		34300	2085
4.	PCCT-4		38462	2006
3.	PCCT-3		34874	1819
	LSD (0.05)		4864	614

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, Musarrat Shaheen and Umair Faheem

PROJECT 2016-17

DURATION

LOCATION Khanpur

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

**PREVIOUS
YEAR'S
RESULTS**

NCVT (Set-C)

Sr.N o.	Code	Name of Variety	PP/ha	Yield (kg/ha)
1.	C-9		44203	3931
2.	C-8		39610	3798
3.	C-12		46356	3717
4.	C-14		42194	3506
5.	C-18		45351	3420
6.	C-3		37027	3304
7.	C-7		40041	3277
8.	C-5		39036	3132
9.	C-2		36884	3040
10.	C-13		41189	3036
11.	C-10		40758	2988
12.	C-16		41333	2924
13.	C-17		41620	2721
14.	C-1		33152	2687
15.	C-20		41763	2595
16.	C-19		39036	2486
17.	C-11		41333	2473
18.	C-22		44633	2348
19.	C-4		40902	2293
20.	C-6		44059	2289
21.	C-15		14065	1669
22.	C-21		40471	1669
	LSD (0.05)		7794	447

NCVT (Set-D)

Sr. No.	Code	Name of Variety	PP/ha	Yield (kg/ha)
1.	D-1		46356	3589
2.	D-2		47647	3797
3.	D-3		43055	3511
4.	D-4		46643	3802
5.	D-5		42768	3587
6.	D-6		47360	2817
7.	D-7		38893	3116
8.	D-8		35735	2616
9.	D-9		40902	3280
10.	D-10		38893	2936
11.	D-11		37745	2549
12.	D-12		43629	3078
13.	D-13		50518	3258
14.	D-14		42337	2707
15.	D-15		37745	3371
16.	D-16		12486	1302
17.	D-17		49943	2641
18.	D-18		45925	3487
19.	D-19		48652	3716
	LSD (0.05)		7974	543

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 2016-2017

LOCATION Khanpur

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

METHODOLOGY and it will be laid out in accordance with the instructions received along with the treatment card.

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 and Naeem Ahmad

PROJECT DURATION 2016-18

LOCATION Khanpur

TREATMENT S/ Treatments,

METHODOLOGY A) Varieties = 3 (RH-661, RH-662, FH-142)
 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: 2.3 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

Sr. No	Treatments	Plant population/ha			Yield kg/ha			
		RH-647	RH-651	FH-142	RH-647	RH-651	FH-142	Mean
1.	16-2-2015	44633	44203	44633	1062	1134	1091	1095.3
2.	1-3-2015	44777	44777	44203	1177	1177	1134	1162.6
3.	16-3-2015	44777	44777	44777	1450	1493	1478	1473.6
4.	1-4-2015	44777	44777	44777	1536	1780	1636	1650.3
5.	16-4-2015	44633	44777	44777	2009	1966	2095	2023.7
6.	1-5-2015	44777	44777	44777	2052	1765	2081	1966.2
7.	16-5-2015	44346	44633	44777	1765	1880	2124	1923.0
8.	1-6-2015	44633	44777	44777	1119	1234	1177	1176.8
9.	16-6-2015	44777	44777	44777	1005	1076	1119	1066.7
		LSD(0.05)						137
		3.66						

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 and Muhammad Bakhsh

PROJECT DURATION

2014-16

LOCATION Khanpur

TREATMENT Variety = RH-651

TS/ Layout = SPD

METHODOLOGY Repeats = 04

OGY 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)

57KgP₂O₅/ha will be applied at sowing & 141kg/ha 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	48465	117.0	18.0	3.0	1808
F1	T2	48594	115.0	18.5	3.0	1880
F1	T3	49011	118.4	17.1	3.0	1665
F1	T4	49484	121.4	16.3	3.0	1564
F2	T1	50202	111.3	21.7	3.1	2196
F2	T2	46212	114.1	22.2	3.1	2167
F2	T3	47073	122.0	19.5	3.0	2052
F2	T4	47690	115.8	18.8	3.0	2009
F3	T1	48150	105.6	23.9	3.1	2540
F3	T2	48767	104.8	23.1	3.0	2339
F3	T3	46887	107.3	22.1	3.1	2282
F3	T4	48652	112.0	23.5	3.1	2325
F4	T1	50718	104.7	25.3	3.0	2569
F4	T2	45753	108.3	24.5	3.1	2526
F4	T3	50991	108.2	23.1	3.1	2268
F4	T4	50374	111.2	21.1	3.2	2181
LSD (0.05)						221

10-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 and Naeem Ahmad

PROJECT DURATION 2014-16

LOCATION Khanpur

TREATMENT

S/ Layout = RCBD
METHODOLOGY Strain = RH-661
 Plot size = 3.0 x 7.6 m
 Repeats = 4
 Date of sowing 1st fortnight of May, 2016.

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, CLCuV%, 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 (g)	CLC V (%a ge)	Yield (Kg/ha)
S ₁ = 15.0 x 75 cm	80656	117.6	19.3	2.98	0	2224
S ₂ = 22.5 x 75 cm	51953	123.9	20.5	2.93	0	2368
S ₃ = 30.0 x 75 cm	42337	130.0	21.5	3.02	0	2512
S ₄ = 37.5 x 75 cm	35735	129.7	17.7	3.05	0	2095
S ₅ = 45.0 x 75 cm	30425	127.8	16.9	3.04	0	1909
LSD (0.05)						222

11-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 and Muhammad Bakhsh

PROJECT DURATION 2014-16

LOCATION Khanpur

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, 2016.

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	46069	109.5	18.1	2.98	1794
F2= 75:35:25	50087	118.7	20.7	3.11	2081
F3= 90:35:25	47504	120.1	22.6	3.05	2239
F4= 60:70:25	47360	111.6	20.9	2.99	1995
F5= 75:70:25	49226	121.9	23.1	3.08	2325
F6= 90:70:25	47647	123.9	22.9	3.02	2311
LSD (0.05)	1818	6.64	1.57	0.098	315

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

OBJECTIVE To regulate the crop growth and enhancement of flowers/ boll retention.

RESEARCH WORKER (S) Muhammad Bakhsh, Muhammad Yasin and Umair Faheem

PROJECT DURATION 2015-17

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

TREATMENT/ Variety = RH-651 and RH-647
TS/ Sowing time = May 1st, 2016
METHOD No. of Sprays = 02 (1st July, 1st August)
LOGY

Dose= 1st Spray@240ml/acre
2nd Spray@900ml/acre

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

Sr. No.	Date	Plant Height (cm)	
		T1 (Sprayed)	T2 (Non Sprayed)
1.	22.07.15	45.55	79.88
2.	05.08.15	56.88	104.25
3.	19.08.15	72.00	128.03
4.	25.08.15	72.00	131.05
5.	11.09.15	78.33	139.35
6.	30.09.15	81.18	141.78
*Yield (Kg/ha)		3158	3744

13-TITLE MULTI-LOCATIONAL COTTON TRIAL IN FACE OF CLIMATE CHANGE

OBJECTIVE Optimization of Bt. Cotton production technology for different agro-ecological zones in the face of changing climate through simulation modeling.

RESEARCH WORKER (S) Muhammad Bakhsh, Muhammad Yasin and Umair Faheem

PROJECT DURATION 2016-18

LOCATION Khanpur

TREATMENTS/METHODOLOGY Variety = 04 ($V_1 = \text{FH-142}$, $V_2 =$, $V_3 =$, $V_4 =$)
Sowing time = 01/03, 16/03, 01/04, 16/04, 01/05, 16/05
Treatments: = 06

Layout	split plot
Plot size	4.2 x 7.0 m
Replications	3

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 (S) Umair Faheem, Muhammad Bakhsh and Naeem Ahmad

PROJECT DURATION 2016-17

LOCATION Khanpur

TREATMENT Treatment

TS/ Varieties: 3 (V1=RH-661, V2=RH-662, FH-142)

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

Layout: Split Plot Design

Repeats: 3

Plot size: 25" x 10"

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			PP/ ha			Yield (Kg/ha)		
	R H- 64 7	R H- 65 1	FH - 14 2	R H- 64 7	R H- 65 1	FH - 14 2	R H- 64 7	R H- 65 1	FH - 14 2	R H- 64 7	R H- 65 1	FH - 14 2	R H- 64 7	R H- 65 1	FH - 14 2
16.03.15	3.35	3.85	3.59	6.26	6.68	5.99	0.33	0.30	0.24	40.47 2	39.32 4	39.61 1	14.57	81.2	10.12
01.04.15	3.30	3.53	3.50	6.11	6.23	5.84	0.25	0.23	0.17	37.02 7	38.17 5	37.45 8	58.8	83.2	90.7
16.04.15	3.29	3.45	3.33	6.08	6.24	5.88	0.20	0.19	0.16	38.31 9	36.59 7	38.17 5	14.50	71.8	14.91
01.05.15	3.20	3.37	3.31	5.94	6.05	5.70	0.18	0.17	0.14	36.02 3	36.02 3	35.01 8	16.91	14.04	17.55
16.05.15	3.18	3.23	3.17	5.43	5.68	5.18	0.16	0.13	0.09	36.45 3	34.01 3	33.43 9	15.94	13.50	15.18
LSD (0.05)	0.092			0.177			0.033			720.33			222.36		

Annexure-I**LIST OF GENE POOL AT CRI, KHANPUR TO BE PLANTED DURING 2016-17.**

Sr.No.	Genotype	Sr.No.	Genotype	Sr.No.	Genotype	Sr.No.	Genotype	Sr.No.	Genotype	Sr.No.	Genotype	Sr.No.	Genotype
1.	RH-1	29.	RH-590	57.	6056/05	85.	CIM-498	113.	VH-141	141.	BAB- DAL	169.	JS-212
2.	RH-112	30.	RH-598	58.	6068/05	86.	CIM-554	114.	VH-142	142.	BAB-SHAH	170.	647/09
3.	RH-305	31.	RH-602	59.	FH-113	87.	CIM-557	115.	VH-148	143.	L-11	171.	4002/10
4.	RH-370	32.	RH-604	60.	FH-114	88.	CIM-595	116.	VH-278	144.	U-633	172.	4174/10
5.	RH-405	33.	RH-608	61.	FH-115	89.	CIM-598	117.	SLS	145.	TH-06/2	173.	FH-Lalazar
6.	RH-424	34.	RH-609	62.	FH-116	90.	MNH-993	118.	SLS-1	146.	HT-41-83	174.	CIM-616
7.	RH-500	35.	RH-611	63.	FH-256	91.	MNH-100	119.	SLH-256	147.	Sitara-008	175.	MNH-988
8.	RH-514	36.	RH-615	64.	FH-634	92.	MNH-129	120.	SLH-337	148.	Coker Wilt-100	176.	VH-259
9.	RH-518	37.	RH-618	65.	FH-635	93.	MNH-632	121.	CRIM-38	149.	MEX-9	177.	CIM-599
10.	RH-527	38.	RH-619	66.	FH-682	94.	MNH-633	122.	CRISS-129	150.	K-68/9	178.	CIM-602
11.	RH-531	39.	RH-620	67.	FH-699	95.	MNH-456	123.	CRIS-461	151.	1812	179.	NIAB-824
12.	RH-532	40.	RH-624	68.	FH-900	96.	MNH-886	124.	CRIM-2007	152.	MS-40	180.	CEMB-33
13.	RH-534	41.	2/03	69.	FH-901	97.	NIAB-78	125.	BS-1	153.	VH-282	181.	A-555
14.	RH-536	42.	5/03	70.	FH-938	98.	NIAB-98	126.	MJ-6	154.	VH-292	182.	Tarzen-2
15.	RH-538	43.	38/03	71.	FH-941	99.	NIAB-208	127.	GS-14	155.	TARZAN	183.	CIM-616
16.	RH-540	44.	44/03	72.	FH-942	10	NIAB-777	12	GH-102	15	FH-142	18	CEMB-33

						0.		8.		6.		4.	
17.	RH-541	45.	48/03	73.	FH-956-F	10	NIAB-824	12	Red Acala	15	CIM-573	18	LS-62
18.	RH-542	46.	52/03	74.	CIM-996-6/F3	10	NIAB-846	13	AC-134	15	MS-71	18	RH-651
19.	RH-543	47.	96/03	75.	CIM-	10	NIAB-852	13	A-637-24	15	MS-289	18	RH-655
					996/2000	3		1.		9		7.	
20.	RH-545	48.	110/03	76.	FH-207	10	NIAB-9811	13	A-ONE	16	MS-DK	18	RH-656
					FH-142	4.		2.		0.		8.	
21.	RH-547	49.	111/03	77.	FH-2007	10	NN-3	13	Acala (67)-1479	16	FH-118	18	RH-657
					FH-Lalazar	5.		3.		1.		9.	
22.	RH-550	50.	5009/03	78.	FH-2015	10	BH-125	13	Acala (67)-7834	16	FH-142	19	Noor
					CIM-599	6.		4.		2.		0.	
23.	RH-551	51.	5052/04	79.	FH-2015	10	BH-147	13	Acala (67)-510	16	FH-3701	19	Kehkashan
					CIM-616	7.		5.		3.		1.	
24.	RH-553	52.	5026/04	80.	FH-2015	10	BH-160	13	Acala (67)-517-77	16	FH-901	19	Shahkar
					CIM-598	8.		6.		4.		2.	
25.	RH-554	53.	135/05	81.	FH-2015	10	BH-172	13	Acala (67)-CIM-DOS	16	FH-222	19	IUB-13
						9.		7.		5.		3.	
26.	RH-560	54.	6023/05	82.	H-277	11	BH-175	13	ARFT x HIP-36	16	IUB-2009	19	MNH-992
						0.		8.		6.		4.	
27.	RH-570	55.	6026/05	83.	H-570	11	FVH-53	13	AHB-79-9-90	16	A-555	19	RH-670
						1.		9.		7.		5.	
28.	RH-573	56.	6028/05	84.	H-65	11	VH-137	14	Alseemihygid	16	BH-178		
						2		0		8.			

Annexure-II

LIST OF GENOTYPES TO BE USED FOR CROSSING DURING, 2016-17

