

8. ICAR-AICRP ON COTTON

8.1.: Genotypes/Hybrids sponsored in AICCIP Trials (2017-18)

Name of the trial	Particulars	No. of entries
National Trials		
Br 02 (a)	IET – <i>G. hirsutum</i> – Irrigated	37
Br 02 (b)	IET – <i>G. hirsutum</i> – Rainfed	27
Br 06 (a)	IET – <i>G. hirsutum</i> – Irrigated	20
Br 06 (b)	IET – Compact genotypes – <i>G. hirsutum</i>	20
Br 12 (a)	IET – <i>G. barbadense</i>	04
Br 15 (a)	PHT – H x B	06
Br 22 (a/b)	IET – <i>G. arboreum</i> – Irrigated/Rainfed	30
Br 22 (a/b) LL	IET – LL <i>G. arboreum</i>	15
Br 22 (a/b) CC	IET – CC (<i>G. arboreum</i>)	07
Br 25 (a/b)	PHT – <i>desi</i> cotton – Irrigated/Rainfed	10
Br 32 (b)	PHT – <i>desi</i> hybrids	10

8.2: All India Coordinated Research Project on Cotton (Entomology)

Ent 1a-Preliminary screening of breeding material for their reaction to key pests of Cotton in north zone (Br 22a b), (Br 22LL), (Br 24), (Br 24LL), (Br 25), (Br 02a), (Br 06a)

Ent. 1b-Advance screening and confirmation of host plant resistance under control conditions

Ent 2-Population dynamics to develop suitable forecasting model (sucking pest) of cotton in north zone

Ent 3-Survey for key and emerging pests in cotton in farmer's field for weekly advisory

Ent 4-ETL determination for PBW based on rosette flower and boll damage

8.3: All India Coordinated Research Project on Cotton (Plant pathology)

-The following experiments were conducted at the station:

Path.1: Epidemiological studies on cotton disease:

Path 1(b): Disease progress in relation to weather factors.

Path.2: Screening of AICRP entries for disease reaction:

Path 2(a) : Screening of breeding lines for disease

reaction.

Path 2 (b) : Confirmation and maintenance of disease resistant lines (2009-10).

Path.3: Management of Diseases:

Path. 3 (f): Management of sooty mould (*Capnodium* spp.) in cotton (2017-20)

8.4.:Evaluation of ICAR Bt cotton hybrids and varieties (initial and advanced) trial under unprotected conditions.

8.5.: All India Coordinated Research Project on Cotton (Crop Production)

The following experiment was conducted at the station:

PHY 3b. Stress management through use of different Osmo-protectants.

8.6: Front Line Demonstrations under NFSM – Commercial Crops

A total of 437 Front Line Demonstrations on Integrated Crop Management (ICM) on cotton, 171 Front Line Demonstrations on *Desi* / ELS cotton / ELS cotton seed production and 186 Front Line Demonstrations on intercropping with cotton were conducted by sixteen centers of ICAR - All India

Coordinated Research Project on Cotton and ICAR-CICR and its regional stations at Coimbatore and Sirsa. Main emphasis was given to the demonstrations for enhancing the production of cotton in low productivity areas / problematic areas. Altogether, 1563 farmers participated in demonstrations conducted in an area of 794 hectares. A total of 314 SC/ST farmers, 354 OBC

farmers and 149 farmwomen were benefitted. **In all the centers, the FLDs could obtain more yield than the local farmers' practices.** A total of 238 visits by the Scientists, 94 farmers' meetings, 20 field days and 42 awareness programs were conducted to popularize the cotton production technologies among the growers.



Fig 45. Project Coordinator interacting with FLD cotton farmers of PAU, Faridkot



Fig 46. FLD conducted by ICAR- CICR, Nagpur



Fig 47. FLD conducted by ICAR- CICR, Sirsa



Fig 48. FLD conducted by ICAR- CICR, Coimbatore