

List of on research station demonstrations (Last five years)

Year	S.N.	Name of Demonstration	Yield (kg/ha)	
			FP	IP
2019-20	1	Alternate furrow irrigation in cotton	340	395
	2	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	393	470
	3	Varietal demonstrations of G. cot. hybrid 10 (BG II)	393	480
	4	Integrated management of pink boll worm in cotton	340	405
	5	Varietal demonstration of pigeon pea (AGT 2)	Fail	Fail
	6	Integrated nutrient management in castor	675	725
	7	Varietal demonstration of castor (GAC 11)	450	475
	8	Weed management in wheat with premix broad spectrum herbicides	2600	2950
	9	Irrigation at critical growth stages in wheat	2750	2963
	10	Water and nutrient management through fertigation in sapota	13000	14125
<p>Note: 1. About 60-65 % plant population of cotton crop was affected on account of water logging condition arised due to heavy rainfall (1359.8 mm) during the monsoon season. About two times gap filling was carried out in the field, but, growth of gap filled plants were observed very poor and also flower dropping problem was shown due to high intensity rainfall. Due to the above reasons, seed cotton yield was low.</p> <p>2. Poor vegetative growth was observed in castor. This might be due to late sowing on account of continues rainfall up to 20th ,October and also due to soil physico-chemical condition.</p>				
2020-21	1	Alternate furrow irrigation in cotton	1800	1903
	2	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	655	830
	3	Varietal demonstrations of G. cot. hybrid 10 (BG II)	655	728
	4	Cotton-castor relay cropping system	2520	3059 (CEY)
	5	Detopping in <i>Bt</i> cotton	1800	2270
	6	Integrated management of pink boll worm in cotton	900	1013
	7	Varietal demonstration of pigeon pea (AGT 2)	Fail	Fail
	8	Integrated nutrient management in castor	150	155
	9	Varietal demonstration of castor (GAC 11)	491	213
	10	Weed management in wheat with premix broad spectrum herbicides	1850	2100
	11	Irrigation at critical growth stages in wheat	3800	4088
	12	Water and nutrient management through fertigation in sapota	Fail	Fail
<p>Note: The seed yield of castor was low because of poor vegetative growth of castor</p>				
2021-22	1	Alternate furrow irrigation in cotton	980	1075
	2	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	1088	1335
	3	Varietal demonstrations of G. cot. hybrid 10 (BG II)	1088	1264
	4	Effect of topping and nitrogen level on yield of Bt cotton	1070	1309
	5	Integrated management of pink boll worm in cotton	513	547
	6	Cotton-castor relay cropping system	1140	1818 (CEY)
	7	Irrigation scheduling in pigeonpea	600	675
	8	Integrated nutrient management in castor	1233	1300
	9	Varietal demonstration of castor (GCH 10)	1330	1400
	10	Weed management in wheat with premix broad spectrum herbicides	3040	3490
	11	Irrigation at critical growth stages in wheat	3430	3518
2022-23	1	Alternate furrow irrigation in cotton	162	167

	2	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	304	358
	3	Varietal demonstrations of G. cot. hybrid 10 (BG II)	304	550
	4	Effect of topping and nitrogen level on yield of Bt cotton	316	359
	5	Integrated management of pink boll worm in cotton	170	175
	6	Irrigation scheduling in pigeonpea	1550	1600
	7	Water requirement and irrigation scheduling in castor	750	863
	8	Integrated nutrient management in castor	920	1065
	9	Varietal demonstration of castor (GCH 10)	1330	670
	10	Weed management in wheat with premix broad spectrum herbicides	2100	2500
	11	Irrigation at critical growth stages in wheat	2140	2240

Note: Cotton, about 75-80 % plant population was affected on account of water logging condition arised in all cotton field (plot no. 9,18) due to heavy rainfall (524.2 mm) from date 6/07/2022 to 14/07/2022, so that, all cotton fields were submerged. After that, about three times gap filling was carried out in the field, but, very poor growth of gap filled plants were observed. Due to the above reasons, overall seed cotton yield was recorded very low.

2023-24	1	Alternate furrow irrigation in cotton	800	880
	2	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	800	885
	3	Varietal demonstrations of G. cot. hybrid 10 (BG II)	800	915
	4	Effect of topping and nitrogen level on yield of Bt cotton	450	513
	5	Integrated management of pink boll worm in cotton	370	410
	6	Irrigation scheduling in pigeonpea	870	908
	7	Varietal demonstrations of pigeonpea (GT 106)	920	990
	8	Water requirement and irrigation scheduling in castor	1400	1558
	9	Varietal demonstration of castor (GCH 9)	1700	1825
	10	Weed management in wheat with premix broad spectrum herbicides	1320	1553
	11	Irrigation at critical growth stages in wheat	1510	1600

Note: (1) About 50 % plant population was affected on account of water logging condition arised in all cotton field (plot no. 10,16) due to heavy rainfall (400 mm) from 8/07/2023 to 31/07/2023. After that, gap filling operation was carried out in the field, but, very poor growth of gap filled plants was observed. Unseasonal rainfall (45 mm) along with high wind velocity observed on 26/11/2023 at the Khandha farm. So that, flowers dropping was observed in cotton plants. Due to the above reasons, overall seed cotton yield was decreased.

(2) Unseasonal rainfall (45 mm) along with high wind velocity observed on 26/11/2023 at the Khandha farm at flowering stage of pigeonpea, so that, flowers dropped and lodging was observed in most of plants, therefore, yield of pigeonpea was reduced.

* FP- Farmer practice, IP-Improved practice, CEY- Crop equivalent yield

List of on farm demonstrations (On farmer's field) (Last five years)

Year	Name of demonstration	No. of farmers	Average yield (kg/ha)	
			FP	IP
2019-20	Alternate furrow irrigation in cotton	10	1695	1847
	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	10	-	1784
	Varietal demonstrations of G. cot. hybrid 10 (BG II)	10	-	1773
	Varietal demonstration of pigeon pea (AGT 2)	20	-	1064
	Varietal demonstration of castor (GAC 11)	10	-	1986
	Weed management in wheat with premix broad spectrum herbicides	20	1687	1870
	Total		80	-
2020-21	Alternate furrow irrigation in cotton	10	1342	1363

	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	10	-	1424
	Varietal demonstrations of G. cot. hybrid 10 (BG II)	10	-	1661
	Detopping in Bt cotton	10	1268	1437
	Integrated management of pink boll worm in cotton	10	1391	1597
	Varietal demonstration of pigeon pea (AGT 2)	20	-	881
	Weed management in wheat with premix broad spectrum herbicides	20	1712	2278
	Irrigation at critical growth stages in wheat	10	1680	2117
	Total	100	-	-
2021-22	Alternate furrow irrigation in cotton	10	1189	1373
	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	10	-	1112
	Varietal demonstrations of G. cot. hybrid 10 (BG II)	10	-	1146
	Detopping and nitrogen management in Bt cotton	10	1310	1424
	Integrated management of pink boll worm in cotton	10	1272	1344
	Irrigation scheduling in pigeonpea	10	658	736
	Varietal demonstration of castor (GCH 10)	10	-	1491
	Weed management in wheat with premix broad spectrum herbicides	20	3162	3512
	Irrigation at critical growth stages in wheat	10	3335	3381
	Total	100	-	-
2022-23	Alternate furrow irrigation in cotton	10	1271	1382
	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	10	-	1117
	Varietal demonstrations of G. cot. hybrid 10 (BG II)	10	-	1260
	Effect of topping and nitrogen level on yield of Bt cotton	10	1365	1492
	Integrated management of pink boll worm in cotton	10	1361	1466
	Irrigation scheduling in pigeon pea	10	583	605
	Water requirement and irrigation scheduling in castor	10	1796	1863
	Varietal demonstration of castor (GCH 10)	10	-	2132
	Weed management in wheat with premix broad spectrum herbicides	10	2976	3353
	Irrigation at critical growth stages in wheat	10	2821	3000
	Total	100	-	-
2023-24	Alternate furrow irrigation in cotton	10	1382	1587
	Varietal demonstrations of Bt cotton hybrid GTHH 49 (BG II)	10	-	1014
	Varietal demonstrations of G.cot. hybrid 10 (BG II)	10	-	1092
	Effect of topping and nitrogen level on yield of Bt cotton	10	1305	1534
	Integrated management of pink boll worm in cotton	10	1391	1492
	Irrigation scheduling in pigeonpea	10	1124	1321
	Varietal demonstrations of pigeonpea (GT 106)	10	-	1203
	Varietal demonstration of castor (GCH 9)	10	-	1388
	Weed management in Wheat with premix broad spectrum herbicides	10	2447	2750
	Irrigation at critical growth stages in wheat	10	2249	2417
	Total	100	-	-