

Main Sugarcane Research Station
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Navsari



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No. MSRS/F / /2014

Date: 23/05/2014

To,
Dr. N.Vijayan Nair
Director & Principal Investigator,
Crop Improvement-AICRP(S)
Sugarcane Breeding Institute(ICAR)
Coimbatore-641 007
Tamil Nadu

Sub: Submission of Annual Report of AICRP(S) for the year 2013-14

Reference: (1) Your letter D.O. No: 1-11/2014-CI(Br.) Dated 01/04/2014

(2) A letter from PC (S'cane) F. No. 17-33/2014-PCS

Respected Sir,

I am submitting herewith the hard and soft copy of data duly analysed for the sugarcane breeding trials of AICRP(S) conducted at this station during the year 2013-14 as per the prescribed performa circulated by you. This work was carried out as per the guidelines of technical programme. Kindly include the same in the Annual Report and oblige. The progress under fluff supply programme has also been submitted along with the results of the trial.

Thanking you sir,

Encl: As above hard and soft copy of

Annual report of 2013-14

Yours sincerely

(D.U.Patel)

Copy F.W.Cs to

1. The Project Coordinator, AICRP(S), IISR, Lucnow-226 002 for information please with copy of Research Report (Hard and Soft)
2. The Director of Research, NAU, Navsari for information please with copy of Research Report (Hard and Soft)

Annual Report
of
ALL INDIA CO-ORDINATED RESEARCH
PROJECT (AICRP)
ON
SUGARCANE
DISCIPLINE : CROP IMPROVEMENT
YEAR : 2013-14



MAIN SUGARCANE RESEARCH STATION
NAVSARI AGRICULTURAL UNIVERSITY,
NAVSARI- 396 450
GUJARAT

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Peninsular Zone

1. Initial Varietal Trial (Early)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (10 m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	Pol % cane (10m)	Extracti on % (10m)	Fibre % (10m)	NMC at 10m ('000/ha)
1	Co 10004	14.91	116.04	19.75	18.21	92.26	12.84	13.95	48.67	13.39	114.16
2	Co 10005	15.99	117.29	19.65	18.95	96.46	13.63	14.52	55.21	13.38	115.83
3	Co 10006	15.21	116.87	20.25	18.50	91.35	13.00	14.02	55.24	14.22	118.96
4	Co 10024	14.76	102.29	21.60	20.30	93.99	14.44	15.53	56.96	13.51	104.58
5	Co 10026	15.04	117.29	20.12	18.30	90.95	12.83	14.02	55.18	13.36	121.46
6	Co 10027	15.49	116.04	20.00	18.75	93.77	13.33	14.22	60.65	14.16	116.66
7	CoM 10081	15.71	120.62	20.15	18.50	91.81	13.03	14.08	58.17	13.89	117.29
8	CoM 10082	17.30	124.37	21.60	19.78	91.56	13.91	15.09	57.68	13.68	120.41
9	CoN 10071	17.30	130.41	20.10	18.30	91.04	12.84	14.05	60.71	13.24	116.66
10	CoN 10072	15.77	121.25	20.20	18.50	91.60	13.01	14.17	62.88	13.40	115.00
11	CoT 10366	15.97	123.33	19.70	18.30	92.91	12.95	13.97	57.13	13.65	111.04
12	CoT 10367	16.54	121.46	19.70	18.95	96.20	13.62	14.56	55.15	13.19	112.91
Stds											
1	CoC 671	13.30	101.67	20.05	18.55	92.51	13.11	14.20	57.19	13.44	101.67
2	Co 94008	13.78	105.62	20.10	18.50	92.04	13.04	14.12	55.93	13.70	110.41
3	Co 85004	14.69	111.25	20.00	18.65	93.24	13.22	14.22	57.12	13.75	115.41
	CD	2.17	13.86	0.75	0.77	2.89	0.65	0.60	5.95	0.32	15.72
	CV	6.53	5.54	1.74	1.92	1.45	2.30	1.94	4.88	1.10	6.42

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (8 m)	Sucrose % (8 m)	Purity % (8 m)	CCS % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 10004	279.00	2.35	1.13	18.25	16.70	91.51	11.74	144.34	160.66	48.21
2	Co 10005	263.50	2.34	0.97	18.50	16.82	90.91	11.79	159.63	178.99	50.25
3	Co 10006	242.00	2.42	1.14	18.55	16.05	86.57	10.99	145.31	163.75	45.82
4	Co 10024	262.00	2.44	0.96	20.35	17.80	87.52	12.25	138.56	156.73	49.80
5	Co 10026	251.00	2.45	1.13	18.55	16.66	89.79	11.61	161.17	182.51	43.27
6	Co 10027	252.00	2.52	1.12	18.20	16.86	92.64	11.92	155.00	174.43	47.42
7	CoM 10081	245.50	2.35	1.15	18.15	16.60	91.46	11.67	154.67	185.71	53.16
8	CoM 10082	229.50	2.46	1.35	20.35	18.24	89.65	12.70	174.11	191.23	55.12
9	CoN 10071	269.00	3.04	1.31	18.15	16.25	89.53	11.31	149.17	177.73	54.72
10	CoN 10072	285.50	2.49	1.28	18.45	16.87	91.43	11.86	146.18	176.22	52.22
11	CoT 10366	262.50	2.37	1.14	17.95	16.29	90.73	11.41	145.40	182.66	45.18
12	CoT 10367	265.00	2.46	1.26	17.90	15.80	88.25	10.93	153.73	175.65	54.16
Stds											
1	CoC 671	271.50	2.61	1.15	18.45	16.87	91.44	11.86	145.33	159.11	42.98
2	Co 94008	267.00	2.53	1.10	18.15	16.60	91.46	11.67	147.67	165.73	45.16
3	Co 85004	269.00	2.21	1.15	18.20	16.90	92.86	11.96	146.17	170.76	43.42
	CD	NS	0.27	0.14	0.61	0.49	NS	0.51	NS	17.84	NS
	CV	5.15	5.15	5.47	1.54	1.36	1.82	2.02	5.35	4.79	12.51

2. Advanced Varietal Trial (Early II Plant)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (10 m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	Pol % cane (10m)	Extracti on % (10m)	Fibre % (10m)	NMC at 10m ('000/ha)
1	Co 08001	17.06	136.48	19.58	17.82	91.13	12.50	13.24	58.56	15.70	124.54
2	VSI 08121	14.99	124.17	19.83	17.50	88.25	12.10	12.92	58.67	16.15	118.80
Stds											
1	CoC 671	13.22	105.09	20.13	18.04	89.66	12.56	13.46	57.69	15.40	101.94
2	Co 94008	14.99	121.20	19.08	17.57	92.12	12.39	12.92	54.50	16.50	106.30
3	Co 85004	14.01	119.63	19.00	16.88	88.83	11.70	12.49	52.78	16.03	117.59
	CD	2.14	18.60	0.76	0.60	2.59	0.48	0.49	4.53	0.61	14.49
	CV	9.36	9.95	2.52	2.21	1.87	2.56	2.46	5.20	2.46	8.25

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (8 m)	Sucrose % (8 m)	Purity % (8 m)	CCS % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 08001	305.25	2.64	1.17	18.85	17.15	91.00	12.03	150.64	182.64	46.07
2	VSI 08121	274.75	2.65	1.16	18.53	16.33	88.11	11.28	135.07	172.11	48.44
Stds											
1	CoC 671	259.00	2.85	1.25	18.85	16.80	89.16	11.67	121.12	162.04	46.77
2	Co 94008	257.25	2.67	1.18	18.10	16.28	89.91	11.35	121.70	165.57	45.74
3	Co 85004	263.75	2.46	1.12	18.33	16.23	88.54	11.24	125.52	170.66	48.05
	CD	NS	0.23	0.08	NS	0.51	1.85	0.37	10.07	13.36	NS
	CV	9.09	5.71	3.95	2.491	2.00	1.34	2.07	5.00	5.08	8.52

3. Advanced Varietal Trial (Early Ratoon)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (9 m)	Sucrose % (9m)	Purity % (9m)	CCS % (9m)	Pol % cane (9m)	Extracti on % (9m)	Fibre % (9m)	NMC at ('000/ha) (9m)
1	Co 08001	15.60	115.00	19.35	17.92	91.22	12.66	13.45	56.84	14.92	120.09
2	VSI 08121	14.18	104.44	18.70	17.41	88.32	12.33	12.94	56.96	15.66	110.19
Stds											
1	CoC 671	13.80	97.31	20.43	18.88	89.68	13.34	14.02	57.95	15.76	101.20
2	Co 94008	12.47	96.39	18.45	17.00	92.07	11.99	12.76	56.92	14.91	102.13
3	Co 85004	14.12	102.04	18.93	17.61	88.82	12.47	13.12	50.94	15.47	108.89
	CD	1.67	11.80	0.69	0.71	NS	0.65	0.56	4.81	0.55	12.62
	CV	7.72	7.43	2.33	2.61	2.43	3.35	2.74	5.58	2.31	7.55

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	No. of tillers ('000/ha) 120 days	No. of tillers ('000/ha) 90 days
1	Co 08001	274.50	2.61	1.06	185.47	176.85
2	VSI 08121	273.00	2.65	1.11	173.32	166.72
Stds						
1	CoC 671	256.75	2.83	1.17	155.09	162.27
2	Co 94008	245.50	2.75	1.06	165.97	154.11
3	Co 85004	243.25	2.52	1.06	171.18	164.24
	CD	20.49	0.21	NS	13.75	13.99
	CV	5.14	5.05	4.75	5.24	5.51

4. Initial Varietal Trial (Midlate)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (12 m)	Sucrose % (12 m)	Purity % (12 m)	CCS % (12 m)	Pol % cane (12m)	Extracti on % (12 m)	Fibre % (12 m)	NMC at 12 m ('000/ha)
1	Co 10015	11.30	105.21	19.45	17.80	91.56	12.52	13.59	57.22	13.66	98.33
2	Co 10017	--	--	--	--	--	--	--	--	--	--
3	Co 10031	12.79	102.08	20.15	18.50	91.85	13.03	14.03	52.61	14.19	95.21
4	Co 10033	13.34	107.50	19.45	17.60	90.49	12.31	13.49	57.24	13.33	100.00
5	CoM 10083	14.34	120.00	19.20	17.25	89.89	12.03	13.24	59.22	13.25	112.08
6	CoM 10084	15.03	121.66	19.70	17.65	89.60	12.29	13.49	58.72	13.57	112.91
7	CoN 10073	15.70	130.83	19.46	18.05	92.80	12.77	13.87	57.14	13.14	112.50
8	CoT 10368	13.13	118.75	18.35	16.65	90.73	11.66	12.75	54.42	13.44	111.04
9	CoT 10369	18.05	132.91	21.40	19.35	90.45	13.53	14.86	55.67	13.19	115.41
10	CoVC 10061	14.24	127.29	18.70	16.95	90.64	11.87	12.98	58.16	13.45	114.37
11	COVSI 10121	14.49	128.12	18.85	17.00	90.18	11.87	13.06	60.99	13.16	116.25
12	CoVSI 10122	14.31	115.00	18.60	17.25	92.75	12.20	13.25	57.22	13.21	107.71
13	PI 10131	12.01	111.04	18.55	16.30	87.89	11.25	12.49	55.20	13.40	104.79
14	PI 10132	13.75	109.37	19.95	18.60	93.24	13.19	14.27	56.55	13.26	98.33
Stds											
1	Co 86032	14.23	112.29	19.75	18.35	92.91	12.99	14.03	58.16	13.54	106.66
2	Co 99004	13.44	109.16	19.80	18.68	94.32	13.31	14.22	55.13	13.84	95.83
	CD	1.49	15.51	1.09	0.88	NS	0.73	0.69	NS	0.36	13.99
	CV	4.95	6.19	2.60	2.30	1.89	2.76	2.35	3.81	1.26	6.11

*Note: Co 10017 was not included in the trial due to insufficient seed material

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 10015	220.00	2.37	1.09	17.95	16.20	90.24	11.32	136.37	176.72	40.37
2	Co 10017	--	--	--	--	--	--	--	--	--	--
3	Co 10031	262.50	2.85	1.02	18.85	17.05	90.46	11.92	137.16	167.47	42.81
4	Co 10033	263.00	2.26	1.03	18.00	16.20	90.00	11.30	148.74	181.75	48.92
5	CoM 10083	260.50	2.50	1.13	16.70	14.75	88.33	10.20	148.18	181.24	50.78
6	CoM 10084	264.50	2.63	1.10	17.95	15.85	88.30	10.96	153.14	195.33	54.02
7	CoN 10073	269.50	2.47	1.17	17.00	15.25	89.72	10.63	151.19	173.75	54.76
8	CoT 10368	270.50	2.42	1.08	16.85	15.15	89.93	10.57	142.27	171.88	54.77
9	CoT 10369	261.50	2.45	1.21	18.65	16.80	90.10	11.73	152.99	183.68	57.21
10	CoVC 10061	261.00	2.42	1.22	16.70	14.85	88.93	10.30	143.50	174.99	54.15
11	COVSI 10121	275.00	2.60	1.14	17.00	15.20	89.41	10.57	160.71	173.34	52.69
12	CoVSI 10122	270.50	2.40	1.12	16.35	14.75	90.21	10.30	139.17	170.21	55.61
13	PI 10131	250.50	2.40	1.13	17.25	15.00	86.99	10.30	147.16	164.75	53.74
14	PI 10132	279.50	2.44	1.06	18.10	16.75	92.54	11.84	138.32	164.96	42.88
Stds											
1	Co 86032	264.50	2.38	1.10	18.55	16.90	91.11	11.86	142.11	173.26	53.80
2	Co 99004	291.00	2.43	1.11	18.20	16.70	91.76	11.76	126.05	147.50	44.28
	CD	29.63	0.27	NS	1.12	0.92	2.66	0.67	16.50	20.52	6.43
	CV	5.23	5.02	5.14	2.97	2.72	1.38	2.83	5.33	5.52	5.92

***Note:** Co 10017 was not included in the trial due to insufficient seed material

5. Advanced Varietal Trial (Midlate II Plant)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (12 m)	Sucrose % (12 m)	Purity % (12 m)	CCS % (12 m)	Pol % cane (12m)	Extracti on % (12 m)	Fibre % (12 m)	NMC at 12 m ('000/ha)
1	Co 08008	15.61	113.95	20.83	19.37	92.95	13.71	14.36	56.17	15.87	114.20
2	Co 08009	17.38	123.70	20.37	19.57	96.08	14.05	14.50	59.71	15.87	120.37
3	Co 08016	18.77	126.42	22.13	20.83	94.11	14.83	15.64	58.86	14.90	129.63
4	Co 08020	14.89	110.12	20.30	19.03	93.77	13.53	14.06	56.78	16.13	106.30
5	CoSnk 08101	15.18	110.49	20.47	19.30	94.30	13.75	14.39	56.19	15.47	109.63
Stds											
1	Co 86032	16.36	114.57	21.27	20.07	94.36	14.30	15.04	56.81	15.07	112.22
2	Co 99004	13.94	98.39	20.97	19.87	94.75	14.18	14.79	48.40	15.53	101.23
	CD	1.12	15.49	0.74	0.89	NS	0.71	0.77	6.39	0.68	15.29
	CV	7.15	7.64	2.00	2.52	1.02	2.84	2.98	6.40	2.48	7.58

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germina tion % (30 days)
1	Co 08008	284.33	2.59	1.07	19.83	18.37	92.70	12.98	134.95	170.68	41.10
2	Co 08009	298.00	2.70	1.10	19.27	17.41	90.35	12.17	153.39	181.02	51.37
3	Co 08016	273.67	2.37	1.09	21.75	20.36	93.59	14.46	158.56	176.85	49.53
4	Co 08020	265.00	2.57	1.05	19.50	17.49	89.77	12.19	142.98	153.55	44.15
5	CoSnk 08101	308.00	2.82	1.19	19.10	16.15	84.53	10.93	144.52	167.44	43.48
Stds											
1	Co 86032	275.33	2.59	1.11	20.00	18.50	92.52	13.07	149.46	171.84	48.16
2	Co 99004	284.67	2.65	1.11	19.70	18.23	92.58	12.89	144.91	167.90	46.61
	CD	25.77	0.24	NS	1.07	0.89	3.26	0.70	13.09	15.32	6.44
	CV	5.10	5.13	6.20	3.04	2.77	2.01	3.09	5.01	5.07	7.81

6. Advanced Varietal Trial (Midlate - Ratoon)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (11 m)	Sucrose % (11 m)	Purity % (11 m)	CCS % (11 m)	Pol % cane (11m)	Extracti on % (11 m)	Fibre % (11 m)	NMC at ('000/ha) (11 m)
1	Co 08008	13.87	110.37	19.87	17.97	90.47	12.57	13.40	21.00	15.47	105.80
2	Co 08009	15.06	115.80	19.53	18.31	93.74	13.01	13.84	18.67	14.40	111.98
3	Co 08016	16.23	127.28	20.02	18.18	90.80	12.74	13.73	20.27	14.47	120.25
4	Co 08020	14.04	104.81	20.27	18.89	93.23	13.39	14.28	20.03	14.40	104.32
5	CoSnk 08101	14.00	108.64	19.83	18.27	92.14	12.89	13.67	22.27	15.20	105.56
Stds											
1	Co 86032	14.24	101.73	21.50	19.83	92.24	14.00	14.97	20.87	14.53	99.88
2	Co 99004	14.13	100.62	20.90	19.75	94.50	14.09	14.83	20.63	14.93	105.80
	CD	1.40	9.87	0.73	0.97	NS	0.88	0.74	1.91	0.62	11.56
	CV	5.41	5.05	2.02	2.90	2.38	3.75	2.96	5.23	2.35	5.26

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	No. of shoots ('000/ha) 180 days	No. of tillers ('000/ha) 90 days
1	Co 08008	268.67	2.69	1.00	133.56	170.37
2	Co 08009	293.00	2.84	1.07	151.08	175.31
3	Co 08016	267.33	2.33	1.08	153.16	173.38
4	Co 08020	246.67	2.54	1.07	140.74	165.74
5	CoSnk 08101	264.33	2.70	1.19	140.20	169.83
Stds						
1	Co 86032	272.33	2.60	1.08	144.06	164.66
2	Co 99004	273.00	2.63	1.09	135.57	163.27
	CD	24.33	0.28	0.10	12.87	NS
	CV	5.08	5.95	5.01	5.07	5.03

7. Fluff Supply Programme 2014

Centre : Main Sugarcane Research Station, N.A.U., Navsari

Station Crosses

No.	Cross	Fluff weight(gm)	No. of Plants planted in Polybags	No. of Plants planted in Field
407	Co 8213 x Co 1148	22	126	126
408	Co 89003 x Co 775	26	831	780
452	Co 0233 x Co 860249	12.5	148	140
461	Co 94012 x Co 62198	26	9	9
462	Co 97009 x CoN 91132	17.5	706	668
463	ISH 100 x Co 94008	14.5	79	79
488	CoN 07072 x Co 1148	20.5	1500	1330
489	C 79218 x CoV 92102	12	22	20
519	CoC 671 x Co 97015	31	16	16
528	Co 88025 x Co 97015	14	145	140
529	Co 94012 x 85 R 186	18.5	278	275
530	Co 7706 x CoC 671	70.5	336	290
601	Co 740 x Co 94008	34.5	710	810
602	Co 8371 x CoT 8201	17	1255	815
616	Co 7704 x 85 R 186	17.5	234	220
617	Co 7204 x Co 94005	14.5	149	145
626	Co 740 x Co 97015	24	731	720
14	CoN 05071 x Co 453	10.5	2	2
52	CoN 05071 x BO 130	10.5	12	12
33	CoN 05071 x CoL 9	14	3	3
30	CoN 05071 x BO 32	6	10	10
32	CoN 05071 x BO 128	11	24	24
31	CoN 05071 x Co 89029	7.5	29	29
13	CoN 05071 x Co 62198	11.5	1	1
Total A		463.50	7356	6664

Zonal Crosses

No.	Cross	Fluff weight(gm)	No. of Plants planted in Polybags	No. of Plants planted in Field
178	Co 86002 x Co 1148	12	794	760
179	Co 85002 x Co 62175	18	122	110
210	Co 8213 x Co 86011	20	54	54
211	Co 8213 x CoT 8201	17	210	210
299	CoV 94101 x Co 97015	9	200	210
328	Co 8371 x CoT 8201	10.5	1055	870
394	CoC 671 x CoT 8201	9.5	200	200
395	CoC 671 x Co 94008	10.5	174	180
504	Co 740 x Co 775	7.5	236	240
506	CoM 0265 x Co 99006	8	12	12
584	Co 86032 x Co 86250	11.5	10	10
653	Co 8371 x Co 86011	10	1117	980
654	CoM 0265 x Co 775	7.5	22	20
Total B		151	4206	3856

Poly Crosses

No.	Female	Fluff weight(gm)	No. of Plants planted in Polybefs	No. of Plants planted in Field
1	CoM 0265	9.5	10	10
2	ISH 100	18	375	397
3	Co 94012	39.5	283	280
4	Co 85002	23	286	280
5	CoA 7602	8	245	240
6	86 V 46	9	515	502
7	CoC 671	8	-	-
8	CP 52-68	8	3	3
9	Co 2000-10	17	178	170
10	CoC 90063	4	6	6
11	Co 7201	10.5	43	40
12	Co 8371	11	993	980
Total C		165.5	2937	2908

General Crosses

No.	Female	Fluff weight(gm)	No. of Plants planted in Polybefs	No. of Plants planted in Field
1	CoN 98133	52	458	450
2	CoN 91132	88.5	1256	1108
3	CoM 9206	7	-	-
4	Co 87273	53	36	36
5	Co 87267	13	69	68
6	CoN 05071	13	59	50
7	CoN 85134	65	497	420
8	HR 83-144	16	-	-
9	Co 7704	32	307	280
10	HR 83-65	32	515	440
11	CoM 6806	44	-	-
12	Co 88013	59.5	1510	1460
Total D		475	4707	4312
		Fluff weight(gm)	No. of Plants planted in Polybefs	No. of Plants planted in Field
Total (A+B+C+D)		1255	19206	17740

FLUFF SUPPLY PROGRAMME (CROSSING PROGRAMME):

Clonal Stage-I Trial

A total of 2411 clones were selected from 14521 single plants raised in fluff ground nursery and were planted on 28/03/2014 in non replicated augmented design in Clonal stage-I trial.

Clonal Stage-II Trial

A total of 377 clones were selected from C-I trial of 2411 clones and were planted on 03/03/2014 along with six checks in C-II trial with two replications.

Clonal Stage-III Trial

A total of 44 promising clones along with eight checks were planted in RBD with two replications in C-III trial on 15/02/2014.

The progress of selection under fluff supply programme is as under

Sr. No.	Year	Crosses	GC/PC	No. of seedlings	C-I	C-II	C-III
1	2014	25+13=38	12+12 =24	17740			
1	2013	20 + 13	41+13= 54	14521	1493	-	-
2	2012	16+14=30	13+18=31	23832	2411	377	-
3	2011	17+13=30	4+12=16	14740	1318	184	44
4	2010	26+15=41	39+12=51	6477	925	121	36
5	2009	22+14=36	10+11=21	12218	618	164	40
6	2008	35	50	13202	1280	698	150
7	2007	61	6	10308	514	166	72