

**Acharya N.G. Ranga Agricultural University**

**AICRP ON SUGARCANE**

*Annual Report*

*of*

*Genetics & Plant Breeding*

**2015-2016**

---

**Regional Agricultural Research Station,  
Anakapalle – 531 001, Visakhapatnam District (A.P)**

**PLANT BREEDING**  
**Detailed report on experiment wise**

- I. Project No.** : B IV fluff supply programme  
P2 – 2015/ 1 / AHD / F30 / H10 / H20 / 0230
- II. Project Title** : Evolving improved sugarcane genotypes suitable for different agro-climatic zones of Andhra Pradesh – Seedling nursery
- III. Serial number of the year of Experimentation** : I
- IV. Location** : Regional Agricultural Research Station, Anakapalle
- V. Objective** : To screen and isolate promising genotypes from population of true seed for further testing in settling nursery.
- VI. Technical Programme on which the report is based.** : Based on location specific problems and needs of farmers and sugar industry in different agro-climatic zones of the state.
- VII. Discipline wise – technical report** :
- a. Date of transplanting** : 15.6.2015 to 20.6.2015, 30.6.2015
- b. Varieties** : 10,397 seedlings from 33 station crosses, 13 zonal crosses, 13 PCs and 56 GCs.
- c. Fertilizer application** : 100 kg P<sub>2</sub>O<sub>5</sub> + 120 kg K<sub>2</sub>O / ha basal. 112 kg N in two splits, i.e. 30 Per cent at 10 DAP and 70 Per cent at 60 DAP.
- d. Cultural practices** :
- |                                 |   |                                   |
|---------------------------------|---|-----------------------------------|
| Hand weeding and hoeing         | : | 24.6.2015 to 30.6.2015            |
| Inter cultivation               | : | 28.9.2015;30.9.2015; 1.10.2015    |
| Rectification of cross channels | : | 5.10.2015 to 9.10.2015            |
| Earthing up                     | : | 20.10.2015 to 24.10.2015          |
| Removal of flower weeds         | : | 24.11.2015; 26.11.2015; 1.12.2015 |
| I Tier TT propping              | : | 6.11.2015 to 10.11.2015           |
| II Tier TT Propping             | : | 17.11.2015 to 24.12.2015          |
| III Tier TT Propping            | : | 3.1.2016 to 31.3.2016             |
- e. Irrigations** : Irrigation at alternate days till establishment and once in six days during formative phase and once in 18 days during maturity.
- f. Plant protection** : Need based
- g. Date of harvest** : 18.05.2016 to 20.05.2016
- h. Plot size** : Furrows of 10m length with 80 cm between furrow
- i. Layout** : ARCBD
- j. Replications** : Non – replicated spaced planted trial.
- k. Total experimental area** : 1.50 acres
- l. Name and designation of the participants** :
1. Dr.M.Charumathi, Senior Scientist (Plant Breeding)
  2. Dr. A. Appalaswamy, Principal Scientist (Plant Breeding)
  3. Dr.D.Adilakshmi, Senior Scientist (Plant Breeding)

### **m. Results recorded during the previous year :**

During 2014-15 a total quantity of 2074.50 g of fluff was received from SBI, Coimbatore. A total number of 11336 seedlings were transplanted from 77 crosses (30 station crosses, 11 Zonal crosses, 12 PCs and 24 General crosses. Out of which 8539 seedlings survived in the main field with an average survival per cent of 75.33 (Table 1 & 2).

Three hundred genotypes were selected from seedling nursery based on desired morphological characters and HR Brix values. Maximum no of genotypes were selected in CoV89101 XISH 69 (29) followed by ISH 69 GC (26) and Co 85002 PC (25). The range of different characters recorded are furnished in (Table 3). Number of clones per clump ranged from 2.00 (Co 8371 X Co 775) to 11.50 (2000V 59 X Co A 7602), Brix 20.00 (ISH 100 PC) to 25.00 (Co A 92081 X Co 94008), Cane length (m) ranged from 2.09 (ISH 100 X Co Se 92423) to 2.67 (2000V 59 X Co A 7602), Cane girth (cm) ranged from 2.00 (ISH 100 PC) to 2.57 (Co 92081 GC), Single cane weight (kg) ranged from 0.921 (ISH 100 PC) to 1.186 (Co99006 GC).

### **n. Results obtained during the year :**

During 2015-16, a total of 2651.00 g of fluff was received from Sugarcane Breeding Institute, Coimbatore. A total of 10,397 seedlings were transplanted from 46 crosses (station crosses and zonal crosses) 13 PCs and 56 GCs. Out of which 7314 seedlings survived in the main field with an average survival per cent of 70.35 (Table 1&2).

Seven hundred and sixty genotypes were selected from seedling nursery based on desirable morphological characters and HR brix values. Maximum number of genotypes were selected in CoV 89101 GC (42), Co 86032 x Co 94008 (40) followed by ISH 100 x Co 87268 (39), CoA 7602 GC (39), CoA 93082 GC (26), Co 11001 GC (25) and CoC 671 GC (25). Number of canes / clump ranged from 1.50 (CoA 09321 GC) to 12.30 (CoV 89101 x CoA 7602). HR brix per cent ranged from 21.50 (CoC 90062 x Co 94008) to 28.00 (CoA 07321 x CoC 671). Cane length ranged from 136 cm (Co 871 GC) to 293 cm (CoV 89101 x ISH 69). Cane diameter ranged from 1.90 cm (Co 62178 x ISH 287 and Co 62178 x Co 89029) to 2.90 cm CoOr 03-152 GC. Single cane weight ranged from 0.98 kg (CoV 94101) to 1.40 kg (CoA 11324 GC) (Table 3).

### **VIII Technical programme of the year next to the reporting year:**

1245 g of fluff, 24 station crosses, 8 zonal crosses, 13 poly crosses and 18 GCs were received from Sugarcane Breeding Institute, Coimbatore will be studied during 2016-17.

### **IX Technical summary of the individual reporting year :**

Seven hundred and sixty genotypes were selected from seedling nursery based on desirable morphological characters and HR brix values. Maximum number of genotypes were selected in CoV 89101GC (42), Co 86032 x Co 94008 (40) followed by ISH 100 x Co 87268 (39), CoA 7602 GC (39), CoA 93082 GC (26), Co 11001 GC (25) and CoC 671 GC (25). Number of canes / clump ranged from 1.5 (CoA 09321 GC) to 12.30 (CoV 89101 x CoA 7602). HR brix per cent ranged from 21.50 (CoC 90062 x Co 94008) to 28.00 (CoA 07321 x CoC 671). Cane length ranged from 136 cm (Co 871 GC) to 293 cm (CoV 89101 x ISH 69). Cane diameter ranged from 1.90 cm (Co 62178 x ISH 287 and Co 62178 x Co 89029) to 2.90 cm CoOr 03-152 GC. Single cane weight ranged from 0.98 kg (CoV 94101) to 1.40 kg (CoA 11324 GC).

### **X Salient findings.**

Seven hundred and sixty genotypes were selected from seedling nursery based on desirable morphological characters and HR brix values. Maximum number of genotypes were selected in Co CoV89101GC (42), Co86032 x Co 94008 (40) followed by ISH 100 x Co 87268 (39), CoA 7602 GC (39), CoA 93082 GC (26), Co 11001 GC (25) and CoC 671 GC (25). Number of canes / clump ranged from 1.5 (CoA 09321 GC) to 12.30 (CoV 89101 x CoA 7602). HR brix per cent ranged from 21.50 (CoC 90062 x Co 94008) to 28.00 (CoA 07321 x CoC 671). Cane length ranged from 136 cm (Co 871 GC) to 293 cm (CoV 89101 x ISH 69). Cane diameter ranged from 1.90 cm (Co 62178 x ISH 287 and Co 62178 x Co 89029) to 2.90 cm CoOr 03-152 GC. Single cane weight ranged from 0.98 kg (CoV 94101) to 1.40 kg (CoA 11324 GC).

**Table 1: Details of fluff sown and per cent survival in Seedling Nursery 2015-16**

S. No.	Station Crosses		Qty of Fluff received (g)	No. of seedlings obtained	No. of seedlings / gm of fluff	No. of seedlings survived	Survival %
	<b>Station crosses</b>						
1	CoS96268	X Co 62198	16.0	<b>Germination Failed</b>			
2	Co 62198	X ISH 287	24.0	<b>Germination Failed</b>			
3	Co 87272	X ISH 176	11.0	<b>Germination Failed</b>			
4	Co 62198	X Co Jaw 270	26.5	<b>Germination Failed</b>			
5	Co 87272	X Co Jaw 270	8.5	<b>Germination Failed</b>			
6	Co 93082	X ISH 176	14.5	4	0.276	4	100.00
7	Co 93082	X Co 89029	15.5	31	2.000	28	90.32
8	Co 05011	X ISH 176	33.0	42	1.270	40	95.23
9	Co 05011	X ISH 287	23.5	12	0.51	12	100.00
10	Co 62198	X Co 89029	34.0	21	0.618	17	80.95
11	Co 62198	X ISH 176	18.0	4	0.222	2	50.00
12	Co 87272	X Co S 88216	12.0	29	2.416	25	86.21
13	Co 0240	X Co 89029	30.0	907	13.567	368	90.41
14	ISH 100	X Co 87268	22.5	324	14.400	301	92.90
15	Co 86002	X Co 87268	37.5	895	23.87	390	98.73
16	Co A 11324	X Co 62198	22.5	115	5.111	105	91.30
17	Co A 10321	X Co H 13	31.5	217	6.890	200	92.17
18	Co A 11324	X Co 99006	15.5	74	4.784	52	70.27
19	Co A 10321	X HR 83-65	20.5	63	3.073	51	80.95
20	Co 86032	X Co A 7602	28.5	96	3.368	64	66.67
21	Co A 07321	X Co C 671	17.0	10	0.588	5	50.00
22	Co 2000-10	X 2003 V 46	16.5	14	0.848	10	71.43
23	Co Si 6	X Co V 92102	24.5	12	0.489	5	41.66
24	Co 86032	X Co T 8201	16.0	3	0.187	3	100.00
25	Co A 05323	X Co 94008	33.0	376	11.393	350	93.08
26	Co 86032	X 85 R186	36.0	359	9.972	300	83.57
27	Co 8209	X Co 94008	32.5	68	2.092	52	76.47
28	Co A 90081	X Co Se 92423	16.5	15	0.909	5	33.33
29	Co 86032	X Co 94008	33.5	290	8.656	275	94.83
30	Co C 671	X Co T 8201	18.0	6	0.333	5	83.33
31	Co A 92082	X Co 94008	19.5	11	0.564	9	81.82
32	Co 7219	X Co S8436	29.0	19	0.655	10	52.63
33	Co A 07321	X ISH 50	9.0	45	5.000	25	55.56
	<b>Total</b>		<b>748.0</b>	<b>4062</b>	<b>5.41</b>	<b>2713</b>	<b>66.79</b>

**Zonal crosses**

S. No.	Zonal Cross		Qty of Fluff received (g)	No. of seedlings obtained	No. of seedlings / gm of fluff	No. of seedlings survived	Survival %
1	ISH 100	X Co 94008	44.5	20	0.449	5	25.00
2	Co A 92081	X Co T 8201	27.50	20	0.727	8	40.00
3	Co A 92081	X Co 94008	26.50	20	0.754	12	60.00
4	Co V 89101	X Co T 8201	34.50	100	2.898	64	64.00
5	Co V 89101	X ISH 69	14.00	129	9.214	88	68.22
6	Co 8013	X Co C 671	22.00	54	2.454	52	96.30
7	Co V 89101	X Co A 7602	26.50	164	6.188	123	75.00
8	Co 8371	X Co 99006	13.50	85	6.296	83	97.65
9	Co V 94101	X Co 99006	18.50	<b>Germination failed</b>			
10	Co C 90063	X Co 94008	13.00	33	2.538	78	93.97
11	Co A 92081	X Co V 92102	5.00	<b>Germination failed</b>			
12	Co 86032	X Co 94008	45.50	100	2.197	52	52.00
13	Co 740	X Co C 671	17.00	108	0.588	8	80.00
	Total		308.00	833	2.70	573	68.79

**Poly crosses**

S. No.	Females	Males	Qty of Fluff received (g)	No. of seedlings obtained	No. of seedlings / gm of fluff	No. of seedlings survived	Survival %
1	Co M 0265	Co 775 Co 99006 Co 94008 Co T 8201 Co 86011 Co V 92101 ISH 69 Co 93009	19.00	49	72.578	8	16.32
2	ISH 100		27.50	9	0.33	9	100
3	Co 94012		34.50	<b>Germination failed</b>			
4	Co 85002		34.00	115	3.382	44	38.26
5	Co A 7602		53.00	<b>Germination failed</b>			
6	86 V 46		26.00	208	8.00	110	52.88
7	Co C 671		26.00	12	0.046	8	66.66
8	CP 52-68		10.50	<b>Germination failed</b>			
9	Co 2000-10		30.50	<b>Germination failed</b>			
10	Co C 90063		32.00	57	1.781	42	73.68
11	Co 7201		23.50	<b>Germination failed</b>			
12	Co 8371		42.00	<b>Germination failed</b>			
13	Co V 89101		59.50	<b>Germination failed</b>			
	Total		418.0	450	1.08	221	49.11

S. No.	GCs	Qty of Fluff received (g)	No. of seedlings obtained	No. of seedlings / gm of fluff	No. of seedlings survived	Survival %
1	70 A 2	47.00	147	3.127	130	88.44
2	70 A 5	38.50	135	3.506	66	48.89
3	85 R 186	11.50	<b>Germination failed</b>			
4	97 R 401	44.00	199	4.522	102	51.26
5	Co 0118	13.50	47	3.481	42	81.55
6	Co 0233	16.50	103	6.242	84	63.64
7	Co 0238	7.50	<b>Germination failed</b>			
8	Co 06033	3.50	11	3.142	7	85.12
9	Co 11001	46.50	121	2.602	103	88.52
10	Co 1158	33.00	61	1.848	54	53.33
11	Co 2000-10	5.50	15	2.727	8	
12	Co 7706	9.00	<b>Germination failed</b>			
13	Co 8213	25.50	498	19.53	142	71.71
14	Co 8371	8.00	61	7.625	54	88.52
15	Co 86011	27.00	85	3.148	35	41.18
16	Co 86032	11.50	<b>Germination failed</b>			
17	Co 87044	9.00	43	4.777	40	93.02
18	Co 89010	17.00	<b>Germination failed</b>			
19	Co 94008	27.50	<b>Germination failed</b>			
20	Co 94012	5.50	20	3.636	18	90.00
21	Co 97015	71.00	354	4.985	300	84.75
22	Co 98008	10.50	65	6.190	62	95.38
23	Co 98010	4.00	23	5.75	12	52.17
24	Co 98013	11.00	<b>Germination failed</b>			
25	Co 98015	9.50	71	7.473	62	87.32
26	Co 99006	20.00	123	6.15	104	84.55
27	Co A 05321	8.00	46	5.75	42	91.30
28	Co A 05322	5.00	64	12.8	60	93.75
29	Co A 05323	17.00	42	2.470	40	95.25
30	Co A 07321	10.00	114	11.4	103	90.35
31	Co A 09321	6.50	37	5.692	30	81.08
32	Co A 11322	8.00	<b>Germination failed</b>			
33	Co A 11323	64.00	168	2.625	157	93.45
34	Co A 11326	12.50	45	3.600	42	93.33
35	Co A 7602	62.00	245	3.951	208	84.90
36	Co A 90081	5.00	49	9.53	40	81.63
37	Co A 92081	3.50	2	0.571	2	100.00
38	Co A 92082	5.50	6	1.090	4	66.67
39	Co A 93082	41.00	183	4.463	164	89.62
40	Co A 99082	6.50	20	3.08	18	90.00
41	Co C 671	14.50	<b>Germination failed</b>			
42	Co H 1	9.50	21	2.210	20	95.24
43	Co Jaw 270	69.00	3	0.043	3	100.00
44	Co OR 03152	43.50	12	0.275	12	100

45	Co T 8021	12.50	182	14.56	174	95.60
46	Co V 89101	88.50	819	9.254	500	61.05
47	Co V 92103	7.00	<b>Germination failed</b>			
48	Co V 94101	8.00	41	75.125	37	90.24
49	ISH 100	14.50	<b>Germination failed</b>			
50	NB 94-545	5.00	<b>Germination failed</b>			
51	Co A 08323	5.50	60	10.909	48	80.00
52	Co A 11324	74.50	253	3.395	240	94.86
	Total	1139.5	4574	4.01	3351	73.26

### **GCs - SBI RC (AGALI)**

1	97 R 28	7.0	90	12.857	82	91.11
2	Co M 0265	5.0	49	9.800	70	88.61
3	93 A 145	17.0	206	12.117	186	90.29
4	Co 89003	10.50	113	10.761	100	88.49
	Total	39.50	458	11.600	438	95.63
	GRAND TOTAL	2651.00	10397	3.92	7314	70.35

**Table 2: Abstract of survival percent of seedling nursery 2015-16**

Cross / GC/PC	Total crosses/ GCs PCs	No. of crosses GCs/ PCs germinated	No. of crosses GCs/ PCs failed to germinate	Quantity of fluff received in grams	No. of seedlings obtained	No. of seedlings/ gram of fluff	No. of seedlings survived	Survival percent
Station crosses	33	28	5	746.00	4050	4.08	2701	66.69
Zonal crosses	13	11	2	308.00	833	2.70	513	68.79
PCs	13	6	7	418.00	441	1.06	212	48.07
GCs	52	40	12	1139.50	4574	4.01	3351	73.26
GCs (Agali)	4	4	-	39.50	458	10.76	438	95.63
Total	115	89	26	2651.00	10397	3.92	7314	70.35

**Table 3: Performance of selected clones in Seedling Nursery 2015-16**

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
1	Co 11001 GC	2016A 1	6	6.42	23.00	145.00	2.30
2	Co 11001 GC	2016A 2	3	3.00	22.00	180.00	2.30
3	Co 11001 GC	2016A 3	5	5.63	23.00	158.00	2.20
4	Co 11001 GC	2016A 4	5	5.42	25.00	136.00	2.50
5	Co 11001 GC	2016A 5	7	7.12	23.00	194.00	2.80
6	Co 11001 GC	2016A 6	4	4.30	23.50	195.00	2.40
7	Co 11001 GC	2016A 7	2	2.11	24.50	180.00	2.30
8	Co 11001 GC	2016A 8	5	5.20	25.00	140.00	2.00
9	Co 11001 GC	2016A 9	3	3.22	23.00	156.00	2.40
10	Co 11001 GC	2016A 10	3	3.77	20.00	210.00	2.30
11	Co 11001 GC	2016A 11	7	7.10	20.00	183.00	1.80
12	Co 11001 GC	2016A 12	4	4.34	22.00	175.00	2.40
13	Co 11001 GC	2016A 13	4	4.16	21.00	142.00	2.50
14	Co 11001 GC	2016A 14	3	3.32	25.00	170.00	2.20
15	Co 11001 GC	2016A 15	5	4.44	24.60	206.00	2.00
16	Co 11001 GC	2016A 16	6	3.28	23.40	258.00	2.30
17	Co 11001 GC	2016A 17	5	4.80	21.00	242.00	2.20
18	Co 11001 GC	2016A 18	5	5.22	21.30	192.00	2.20
19	Co 11001 GC	2016A 19	3	2.40	23.70	253.00	2.30
20	Co 11001 GC	2016A 20	6	6.80	24.20	238.00	2.90
21	Co 11001 GC	2016A 21	4	4.00	24.00	256.00	2.40
22	Co 11001 GC	2016A 22	4	4.80	24.40	275.00	2.40
23	Co 11001 GC	2016A 23	3	3.40	21.60	210.00	2.40
24	Co 11001 GC	2016A 24	6	5.14	20.30	248.00	2.20
25	Co 11001 GC	2016A 25	3	2.38	23.00	130.00	2.10
26	70 A2 GC	2016A 26	1	0.80	23.10	240.00	2.70
27	70 A2 GC	2016A 27	4	2.23	20.00	190.00	2.10
28	70 A2 GC	2016A 28	2	0.90	22.00	180.00	2.20
29	70 A2 GC	2016A 29	4	2.78	20.80	195.00	2.20
30	70 A2 GC	2016A 30	5	6.07	21.20	256.00	2.40
31	70 A2 GC	2016A 31	7	7.60	23.00	155.70	1.70
32	70 A2 GC	2016A 32	3	2.18	20.60	246.60	2.30
33	70 A2 GC	2016A 33	3	3.45	25.30	173.30	2.20
34	70 A2 GC	2016A 34	10	10.10	18.00	176.90	2.50
35	70 A2 GC	2016A 35	1	1.06	22.60	260.00	2.60
36	70 A2 GC	2016A 36	4	4.60	22.60	172.50	2.00
37	70 A2 GC	2016A 37	5	4.45	23.00	290.00	1.90
38	70 A2 GC	2016A 38	5	4.30	23.20	212.00	2.10
39	70 A2 GC	2016A 39	4	4.67	28.00	238.70	2.20
40	70 A2 GC	2016A 40	2	1.80	22.00	250.00	2.40
41	70 A2 GC	2016A 41	2	1.80	20.70	232.50	2.30
42	70 A2 GC	2016A 42	4	4.60	23.60	261.20	2.20
43	70 A2 GC	2016A 43	9	8.33	23.10	252.20	1.90
44	70 A2 GC	2016A 44	4	3.60	24.00	245.00	2.60
45	70 A2 GC	2016A 45	3	3.26	22.40	206.60	2.50
46	CoT 8201 GC	2016A 46	5	4.80	24.80	262.00	2.50
47	CoT 8201 GC	2016A 47	3	3.30	20.30	230.00	2.10
48	CoT 8201 GC	2016A 48	16	17.90	20.00	243.70	2.10
49	CoT 8201 GC	2016A 49	7	8.73	22.80	168.70	2.00



S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
50	CoT 8201 GC	2016A 50	6	6.49	20.00	188.00	2.20
51	CoT 8201 GC	2016A 51	5	5.30	21.30	215.00	2.30
52	CoT 8201 GC	2016A 52	5	5.23	21.00	240.00	2.14
53	CoT 8201 GC	2016A 53	4	5.78	20.00	280.00	2.60
54	CoT 8201 GC	2016A 54	1	1.50	22.50	160.00	2.80
55	CoT 8201 GC	2016A 55	6	6.22	25.60	183.20	2.60
56	CoT 8201 GC	2016A 56	6	6.83	27.00	171.60	2.60
57	CoT 8201 GC	2016A 57	3	3.80	26.00	165.00	2.40
58	CoT 8201 GC	2016A 58	6	6.24	21.00	230.60	2.10
59	CoT 8201 GC	2016A 59	5	5.64	24.00	153.70	2.20
60	CoT 8201 GC	2016A 60	6	6.63	27.60	160.00	2.40
61	Co 0233 GC	2016A 61	3	3.43	24.30	143.30	2.40
62	Co 0233 GC	2016A 62	5	5.94	24.10	224.60	2.10
63	Co 0233 GC	2016A 63	7	7.26	25.40	160.00	2.80
64	Co 0233 GC	2016A 64	4	4.80	25.00	113.70	2.20
65	Co 0233 GC	2016A 65	2	2.84	23.70	242.50	2.30
66	Co 0233 GC	2016A 66	8	8.30	25.00	214.30	2.50
67	Co 97015 GC	2016A 67	4	4.60	25.00	162.50	2.40
68	Co 97015 GC	2016A 68	6	6.44	24.20	136.30	2.20
69	Co 97015 GC	2016A 69	7	7.52	25.50	143.00	2.60
70	Co 97015 GC	2016A 70	7	7.80	21.60	244.00	2.30
71	Co 97015 GC	2016A 71	4	4.02	20.00	235.00	1.80
72	Co 97015 GC	2016A 72	5	5.10	22.00	159.00	2.30
73	Co 97015 GC	2016A 73	6	6.37	23.00	243.20	1.90
74	Co 97015 GC	2016A 74	4	1.66	22.00	162.50	2.40
75	Co 97015 GC	2016A 75	3	3.50	24.60	233.30	2.20
76	Co 97015 GC	2016A 76	1	1.74	22.40	190.00	2.90
77	Co 97015 GC	2016A 77	5	4.33	24.70	251.00	2.30
78	Co 97015 GC	2016A 78	2	2.80	25.30	250.00	3.20
79	Co 97015 GC	2016A 79	4	4.16	26.00	262.50	2.20
80	Co 97015 GC	2016A 80	6	6.96	26.40	230.00	2.20
81	Co 97015 GC	2016A 81	3	3.01	22.00	293.30	2.90
82	Co 97015 GC	2016A 82	6	6.15	20.00	312.10	2.40
83	Co 1158 GC	2016A 83	6	6.64	29.00	200.80	2.20
84	Co 1158 GC	2016A 84	4	4.70	25.00	232.50	2.30
85	Co 1158 GC	2016A 85	4	4.76	25.40	155.00	2.30
86	97 R 401 GC	2016A 86	3	3.22	21.50	160.00	2.10
87	97 R 401 GC	2016A 87	6	6.55	20.30	153.30	2.30
88	97 R 401 GC	2016A 88	7	7.32	25.50	174.20	2.10
89	97 R 401 GC	2016A 89	4	4.11	23.70	177.50	1.90
90	97 R 401 GC	2016A 90	9	9.78	20.00	181.10	2.50
91	Co 86032 x Co 94008	2016A 91	2	2.94	20.60	130.00	2.20
92	Co 86032 x Co 94008	2016A 92	1	1.60	21.40	240.00	2.50
93	Co 86032 x Co 94008	2016A 93	3	3.86	22.80	160.00	2.50
94	Co 86032 x Co 94008	2016A 94	4	3.64	22.20	250.00	2.10
95	Co 86032 x Co 94008	2016A 95	5	5.80	22.60	245.00	2.30
96	Co 86032 x Co 94008	2016A 96	3	3.11	18.00	173.30	2.80
97	Co 86032 x Co 94008	2016A 97	4	4.20	21.00	236.20	2.40
98	Co 86032 x Co 94008	2016A 98	4	4.20	21.40	205.00	2.00
99	Co 86032 x Co 94008	2016A 99	3	3.61	22.60	163.30	2.00
100	Co 86032 x Co 94008	2016A 100	5	5.20	23.60	145.00	1.80

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
101	Co 86032 x Co 94008	2016A 101	3	3.84	27.00	216.00	1.90
102	Co 86032 x Co 94008	2016A 102	3	3.62	22.00	166.00	2.10
103	Co 86032 x Co 94008	2016A 103	6	6.70	26.80	243.00	2.10
104	CoA 07321 x ISH 50	2016A 104	4	4.00	24.40	232.00	2.20
105	CoA 07321 x ISH 50	2016A 105	3	3.84	24.20	263.00	2.50
106	CoA 07321 x ISH 50	2016A 106	4	4.80	20.00	223.00	2.40
107	CoA 07321 x ISH 50	2016A 107	5	5.65	22.60	158.00	3.10
108	CoA 07321 x ISH 50	2016A 108	3	3.01	25.00	258.00	2.80
109	CoA 07321 x ISH 50	2016A 109	6	6.46	24.40	150.00	2.50
110	CoA 07321 x ISH 50	2016A 110	2	2.01	22.70	145.00	2.10
111	CoA 07321 x ISH 50	2016A 111	2	2.96	22.80	170.00	1.50
112	CoA 07321 x ISH 50	2016A 112	8	8.20	22.00	165.00	2.50
113	CoA 07321 x ISH 50	2016A 113	3	3.16	21.00	255.00	2.40
114	CoA 07321 x ISH 50	2016A 114	5	5.12	17.00	252.00	2.40
115	CoA 07321 x ISH 50	2016A 115	3	3.87	22.00	245.00	2.20
116	Co 99006 GC	2016A 116	4	4.40	23.60	270.00	2.20
117	Co 99006 GC	2016A 117	4	4.36	27.00	172.00	2.20
118	Co 99006 GC	2016A 118	9	9.56	24.60	166.00	2.20
119	Co 99006 GC	2016A 119	3	3.62	22.00	233.00	2.50
120	Co 99006 GC	2016A 120	7	7.34	23.40	164.00	2.30
121	CoOr 03-152 GC	2016A 121	4	4.83	24.00	262.00	2.90
122	CoV 89101 GC	2016A 122	3	3.60	25.00	223.00	2.70
123	CoV 89101 GC	2016A 123	6	6.25	23.00	234.00	2.40
124	CoV 89101 GC	2016A 124	2	2.40	26.20	230.00	2.30
125	CoV 89101 GC	2016A 125	3	3.64	23.20	156.00	2.20
126	CoV 89101 GC	2016A 126	3	3.98	20.00	236.00	2.20
127	CoV 89101 GC	2016A 127	5	5.20	23.00	237.00	2.70
128	CoV 89101 GC	2016A 128	2	2.96	22.60	175.00	2.50
129	CoV 89101 GC	2016A 129	7	7.60	19.00	181.00	2.10
130	CoV 89101 GC	2016A 130	4	4.46	22.00	240.00	2.40
131	CoV 89101 GC	2016A 131	5	5.20	22.40	250.00	2.50
132	CoV 89101 GC	2016A 132	3	3.14	20.00	251.00	2.50
133	CoV 89101 GC	2016A 133	4	4.40	22.00	195.00	1.70
134	CoV 89101 GC	2016A 134	5	5.86	22.40	203.00	2.70
135	CoV 89101 GC	2016A 135	3	3.40	20.00	228.00	2.10
136	CoV 89101 GC	2016A 136	3	3.86	22.20	266.00	2.20
137	CoV 89101 GC	2016A 137	4	4.42	20.00	245.00	2.20
138	CoV 89101 GC	2016A 138	6	6.80	22.00	251.00	2.30
139	CoV 89101 GC	2016A 139	5	5.20	24.30	164.00	2.10
140	CoV 89101 GC	2016A 140	4	4.00	21.60	130.00	1.40
141	CoV 89101 GC	2016A 141	6	6.48	22.00	172.00	2.60
142	CoV 89101 GC	2016A 142	5	5.06	19.00	142.00	1.80
143	CoV 89101 GC	2016A 143	8	8.87	22.00	227.00	2.30
144	CoV 89101 GC	2016A 144	6	6.30	23.00	260.00	1.70
145	CoV 89101 GC	2016A 145	10	10.82	22.40	195.00	2.00
146	CoV 89101 GC	2016A 146	9	9.57	22.00	260.50	2.30
147	CoV 89101 GC	2016A 147	6	6.24	23.00	264.00	1.80
148	CoV 89101 GC	2016A 148	5	5.86	25.00	256.00	2.30
149	Co 86032 x Co 94008	2016A 149	4	4.42	22.40	230.00	2.80
150	Co 86032 x Co 94008	2016A 150	8	8.26	25.00	243.00	2.00
151	Co 86032 x Co 94008	2016A 151	3	3.33	27.00	258.00	2.30

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
152	Co 86032 x Co 94008	2016A 152	5	5.40	26.40	276.00	1.90
153	Co 86032 x Co 94008	2016A 153	3	3.20	25.40	220.00	2.30
154	Co 86032 x Co 94008	2016A 154	5	3.89	22.00	198.00	2.10
155	Co 86032 x Co 94008	2016A 155	7	7.47	22.40	265.00	2.80
156	Co 86032 x Co 94008	2016A 156	3	3.38	25.00	140.00	2.00
157	Co 86032 x Co 94008	2016A 157	12	12.25	22.40	242.00	1.80
158	Co 86032 x Co 94008	2016A 158	10	10.45	26.00	132.00	2.30
159	Co 86032 x Co 94008	2016A 159	4	4.20	23.00	226.00	2.50
160	Co 86032 x Co 94008	2016A 160	5	5.11	22.60	238.00	2.30
161	Co 86032 x Co 94008	2016A 161	5	5.44	21.80	250.00	1.90
162	CoV 89101 x ISH 69	2016A 162	5	5.61	22.00	278.00	2.40
163	CoV 89101 x ISH 69	2016A 163	7	7.77	22.00	256.00	2.00
164	CoV 89101 x ISH 69	2016A 164	9	9.84	22.40	250.00	2.70
165	CoV 89101 x ISH 69	2016A 165	6	6.77	21.60	260.00	2.60
166	CoV 89101 x ISH 69	2016A 166	8	8.60	24.00	171.20	2.10
167	CoV 89101 x CoA 7602	2016A 167	5	5.23	24.40	280.00	2.20
168	CoV 89101 x CoA 7602	2016A 168	3	3.16	26.00	135.00	2.30
169	CoV 89101 x CoA 7602	2016A 169	2	2.60	25.00	160.00	2.60
170	CoV 89101 x CoA 7602	2016A 170	5	5.82	23.40	186.30	1.90
171	CoV 89101 x CoA 7602	2016A 171	6	6.33	26.40	248.50	2.40
172	CoV 89101 x CoA 7602	2016A 172	5	5.37	25.00	178.00	2.60
173	CoV 89101 x CoA 7602	2016A 173	5	5.92	27.00	210.00	2.10
174	CoV 89101 x CoA 7602	2016A 174	7	7.44	27.00	191.40	2.30
175	CoV 89101 x CoA 7602	2016A 175	2	2.60	27.00	185.00	2.20
176	CoV 89101 x CoA 7602	2016A 176	8	8.31	27.00	246.00	2.10
177	CoV 89101 x CoA 7602	2016A 177	4	4.30	22.00	220.00	2.20
178	CoV 89101 x CoA 7602	2016A 178	4	4.20	24.60	235.00	2.30
179	CoV 89101 x CoA 7602	2016A 179	5	5.10	26.00	203.30	2.00
180	CoV 89101 x CoA 7602	2016A 180	3	3.34	27.00	154.50	2.10
181	CoV 89101 x CoA 7602	2016A 181	7	7.94	24.00	216.80	2.40
182	CoV 89101 x CoA 7602	2016A 182	5	5.44	29.00	247.50	2.40
183	CoA 11324 x Co 62198	2016A 183	5	4.46	25.50	272.00	3.30
184	CoA 11324 x Co 62198	2016A 184	3	3.33	23.60	260.00	2.50
185	CoA 11324 x Co 62198	2016A 185	5	5.62	25.60	236.40	2.40
186	CoA 11324 x Co 62198	2016A 186	7	7.26	25.60	139.20	1.80
187	CoA 11324 x Co 62198	2016A 187	5	5.42	25.00	248.60	2.30
188	CoA 11324 x Co 62198	2016A 188	2	2.81	26.00	150.00	2.20
189	CoA 11324 x Co 62198	2016A 189	4	4.21	23.60	226.00	2.30
190	CoA 11324 x Co 62198	2016A 190	4	4.15	24.60	216.70	1.90
191	CoA 11324 x Co 62198	2016A 191	4	4.36	24.00	256.60	2.30
192	CoA 11324 x Co 62198	2016A 192	4	4.42	23.20	236.20	2.00
193	CoA 11324 x Co 62198	2016A 193	3	3.43	25.20	153.30	2.10
194	CoA 11324 x Co 62198	2016A 194	2	2.20	23.00	198.30	2.30
195	Co 0240 x Co 89029	2016A 195	3	3.80	26.00	206.60	2.20
196	Co 0240 x Co 89029	2016A 196	4	4.64	24.00	140.00	2.00
197	Co 0240 x Co 89029	2016A 197	4	4.21	20.00	181.00	2.50
198	Co 0240 x Co 89029	2016A 198	3	3.80	23.00	173.30	2.20
199	Co 0240 x Co 89029	2016A 199	3	3.83	23.20	186.50	2.30
200	Co 0240 x Co 89029	2016A 200	8	8.64	26.00	210.00	2.60
201	Co 0240 x Co 89029	2016A 201	12	12.70	23.00	173.30	2.30
202	Co 0240 x Co 89029	2016A 202	5	5.20	26.00	186.60	2.00

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
203	Co 0240 x Co 89029	2016A 203	5	5.20	23.00	275.60	2.40
204	Co 0240 x Co 89029	2016A 204	3	3.46	22.00	186.60	2.20
205	Co 0240 x Co 89029	2016A 205	5	5.20	25.00	248.70	2.00
206	Co 0240 x Co 89029	2016A 206	5	5.46	25.60	296.50	2.70
207	Co 0240 x Co 89029	2016A 207	4	4.73	23.00	220.00	2.50
208	Co 0240 x Co 89029	2016A 208	6	6.04	24.70	186.50	1.90
209	Co 0240 x Co 89029	2016A 209	3	3.34	21.00	120.00	2.30
210	Co 0240 x Co 89029	2016A 210	4	4.89	24.00	215.00	2.70
211	Co 0240 x Co 89029	2016A 211	2	2.42	24.00	236.50	2.10
212	Co 0240 x Co 89029	2016A 212	4	4.38	25.00	155.00	2.30
213	Co 0240 x Co 89029	2016A 213	4	4.36	21.00	256.70	2.00
214	Co 0240 x Co 89029	2016A 214	3	3.86	22.00	150.00	2.20
215	Co 0240 x Co 89029	2016A 215	4	4.40	23.00	267.20	2.20
216	Co 0240 x Co 89029	2016A 216	2	2.12	24.00	235.00	2.60
217	CoC 90063 x Co 94008	2016A 217	6	6.89	23.00	229.20	2.30
218	CoC 90063 x Co 94008	2016A 218	4	4.10	20.00	245.00	2.30
219	CoA 10321 x CoH 13	2016A 219	3	3.80	25.00	243.30	2.40
220	CoA 10321 x CoH 13	2016A 220	3	3.32	24.00	190.00	2.30
221	CoA 10321 x CoH 13	2016A 221	3	3.01	22.00	171.60	2.00
222	CoA 10321 x CoH 13	2016A 222	3	3.10	19.00	223.30	2.30
223	CoA 10321 x CoH 13	2016A 223	5	5.50	25.00	158.70	2.30
224	CoA 10321 x CoH 13	2016A 224	3	3.41	23.00	235.00	2.30
225	CoA 10321 x CoH 13	2016A 225	2	2.40	26.00	157.50	1.30
226	CoA 10321 x CoH 13	2016A 226	2	2.89	24.00	200.00	2.60
227	CoA 10321 x CoH 13	2016A 227	3	3.56	22.00	260.00	2.50
228	CoA 10321 x CoH 13	2016A 228	2	2.94	24.00	235.00	2.60
229	CoA 10321 x CoH 13	2016A 229	3	3.88	28.00	203.30	2.20
230	CoA 10321 x CoH 13	2016A 230	3	3.23	24.00	246.60	2.10
231	CoA 10321 x CoH 13	2016A 231	4	4.65	24.00	245.00	2.30
232	CoA 10321 x CoH 13	2016A 232	4	4.08	25.60	246.20	2.70
233	CoA 10321 x CoH 13	2016A 233	4	4.20	22.00	235.00	2.50
234	CoA 10321 x CoH 13	2016A 234	4	4.10	26.00	260.00	2.30
235	CoA 10321 x CoH 13	2016A 235	4	4.20	24.00	232.50	2.20
236	CoA 10321 x CoH 13	2016A 236	5	5.44	22.00	238.00	2.10
237	CoA 10321 x CoH 13	2016A 237	2	2.06	22.00	220.00	2.50
238	CoA 10321 x CoH 13	2016A 238	4	4.23	24.00	245.70	2.40
239	CoA 10321 x CoH 13	2016A 239	4	4.14	25.60	200.30	2.10
240	Co 86032 x 85R 186	2016A 240	3	3.80	24.00	245.00	2.60
241	Co 86032 x 85R 186	2016A 241	4	4.95	25.00	243.00	2.00
242	Co 86032 x 85R 186	2016A 242	8	8.68	24.00	190.00	2.00
243	Co 86032 x 85R 186	2016A 243	5	5.24	24.00	254.00	2.20
244	Co 86032 x 85R 186	2016A 244	6	6.02	22.00	139.10	2.00
245	CoA 05323 x Co 94008	2016A 245	3	3.47	24.00	178.30	2.40
246	CoA 05323 x Co 94008	2016A 246	8	8.80	23.00	145.80	2.40
247	CoA 05323 x Co 94008	2016A 247	3	3.31	25.00	168.00	2.30
248	CoA 05323 x Co 94008	2016A 248	5	5.37	24.00	280.00	2.40
249	CoA 05323 x Co 94008	2016A 249	4	4.36	22.00	210.00	2.70
250	Co 86002 x Co 87268	2016A 250	3	3.08	29.00	153.30	2.80
251	Co 86002 x Co 87268	2016A 251	5	5.20	24.00	236.60	1.50
252	Co 86002 x Co 87268	2016A 252	5	5.75	24.00	208.50	1.80
253	Co 86002 x Co 87268	2016A 253	5	5.76	23.00	250.00	2.30

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
254	Co 86002 x Co 87268	2016A 254	6	6.17	25.00	248.50	1.90
255	Co 86002 x Co 87268	2016A 255	4	4.32	28.00	155.00	2.10
256	Co 8371 x Co 99006	2016A 256	7	7.20	23.20	178.70	2.00
257	Co 8371 x Co 99006	2016A 257	4	4.90	20.80	150.00	2.50
258	Co 8371 x Co 99006	2016A 258	5	5.70	21.00	126.00	2.40
259	Co 8371 x Co 99006	2016A 259	5	5.50	24.60	140.00	2.20
260	Co 8371 x Co 99006	2016A 260	3	3.10	22.70	186.60	2.30
261	Co 05011 x ISH 287	2016A 261	4	4.00	20.00	162.50	2.50
262	Co 05011 x ISH 287	2016A 262	4	4.30	26.70	195.00	1.70
263	Co 62198 x ISH 287	2016A 263	7	7.01	25.00	171.40	1.70
264	CoA 93082 GC	2016A 264	4	4.40	24.50	127.00	2.10
265	CoA 93082 GC	2016A 265	4	4.80	26.50	180.00	2.40
266	CoA 93082 GC	2016A 266	2	2.20	23.30	160.00	2.50
267	CoA 93082 GC	2016A 267	4	4.00	22.00	146.00	2.10
268	CoA 93082 GC	2016A 268	5	5.84	27.60	174.00	2.30
269	CoA 93082 GC	2016A 269	2	2.90	23.00	195.00	2.30
270	CoA 93082 GC	2016A 270	6	6.80	20.40	101.00	2.30
271	CoA 93082 GC	2016A 271	3	3.80	27.60	156.00	2.30
272	CoA 93082 GC	2016A 272	3	3.23	24.50	216.00	1.60
273	CoA 93082 GC	2016A 273	6	6.33	26.00	166.00	1.90
274	CoA 93082 GC	2016A 274	5	5.26	21.40	190.00	1.70
275	CoA 93082 GC	2016A 275	3	3.96	23.80	170.00	2.80
276	CoA 93082 GC	2016A 276	8	8.80	20.60	171.00	2.30
277	CoA 93082 GC	2016A 277	5	5.30	28.30	194.00	2.30
278	CoA 93082 GC	2016A 278	5	5.33	22.10	192.00	2.00
279	CoA 93082 GC	2016A 279	8	8.26	20.60	183.00	2.10
280	CoA 93082 GC	2016A 280	6	6.60	24.50	191.00	2.20
281	CoA 93082 GC	2016A 281	5	5.23	21.70	126.00	2.20
282	CoA 93082 GC	2016A 282	4	4.20	28.80	126.00	2.30
283	CoA 93082 GC	2016A 283	5	5.80	27.50	190.00	1.90
284	CoA 93082 GC	2016A 284	4	4.30	27.00	162.00	2.20
285	CoA 93082 GC	2016A 285	3	3.70	27.30	193.00	2.20
286	CoA 93082 GC	2016A 286	5	5.30	24.60	172.00	2.00
287	CoA 93082 GC	2016A 287	4	4.20	20.30	185.00	2.30
288	CoA 93082 GC	2016A 288	7	7.31	22.00	194.00	2.30
289	CoA 93082 GC	2016A 289	4	4.30	26.40	157.00	2.20
290	CoA 7602 GC	2016A 290	5	5.40	27.00	162.00	2.30
291	CoA 7602 GC	2016A 291	4	4.41	24.20	137.00	2.40
292	CoA 7602 GC	2016A 292	2	2.93	21.80	220.00	2.20
293	CoA 7602 GC	2016A 293	3	3.40	24.60	210.00	2.30
294	CoA 7602 GC	2016A 294	5	5.10	24.50	168.00	2.40
295	CoA 7602 GC	2016A 295	4	4.44	25.80	177.00	2.40
296	CoA 7602 GC	2016A 296	2	2.80	24.20	195.00	2.50
297	CoA 7602 GC	2016A 297	3	3.08	26.00	246.00	1.80
298	CoA 7602 GC	2016A 298	5	5.33	23.70	172.00	2.50
299	CoA 11324 GC	2016A 299	3	3.07	25.00	210.00	2.40
300	CoA 11324 GC	2016A 300	5	5.13	23.60	196.00	2.00
301	CoA 11324 GC	2016A 301	7	7.60	23.50	140.00	2.10
302	CoA 11324 GC	2016A 302	3	3.12	24.00	233.00	1.70
303	CoA 11324 GC	2016A 303	3	3.23	25.50	183.00	1.70
304	CoA 11324 GC	2016A 304	6	6.80	25.80	224.00	2.20

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
305	CoA 11324 GC	2016A 305	3	3.80	24.60	183.00	1.80
306	CoA 11324 GC	2016A 306	3	3.60	23.70	196.00	2.00
307	CoA 11324 GC	2016A 307	4	4.90	22.50	123.00	1.80
308	CoA 11324 GC	2016A 308	4	4.10	28.90	186.00	1.80
309	CoA 11324 GC	2016A 309	4	4.30	23.70	162.00	1.80
310	CoA 11324 GC	2016A 310	3	3.63	25.50	210.00	1.50
311	70 A5 GC	2016A 311	4	4.20	23.60	197.00	2.20
312	70 A5 GC	2016A 312	6	6.73	20.70	191.00	1.90
313	70 A5 GC	2016A 313	5	5.08	20.00	198.00	2.20
314	70 A5 GC	2016A 314	2	2.80	23.60	170.00	2.00
315	70 A5 GC	2016A 315	5	5.08	24.00	220.00	1.70
316	70 A5 GC	2016A 316	4	4.01	24.70	195.00	2.00
317	70 A5 GC	2016A 317	6	6.83	25.30	143.30	1.60
318	70 A5 GC	2016A 318	4	4.10	23.50	187.00	1.70
319	70 A5 GC	2016A 319	3	3.00	26.80	246.00	1.60
320	70 A5 GC	2016A 320	2	2.90	25.30	265.00	2.20
321	70 A5 GC	2016A 321	3	3.90	24.80	195.00	1.90
322	70 A5 GC	2016A 322	5	5.80	26.80	240.00	2.10
323	70 A5 GC	2016A 323	6	6.30	22.70	181.00	2.50
324	70 A5 GC	2016A 324	3	3.86	23.00	210.00	2.50
325	Co Jaw 270 GC	2016A 325	3	3.83	26.10	250.00	2.20
326	CoA 11323 GC	2016A 326	4	4.43	28.00	217.00	2.00
327	CoA 11323 GC	2016A 327	3	3.71	28.60	180.00	1.60
328	CoA 11323 GC	2016A 328	4	4.03	24.50	210.00	2.50
329	CoA 11323 GC	2016A 329	4	4.01	23.70	215.00	2.10
330	CoA 11323 GC	2016A 330	4	4.33	25.00	202.00	2.20
331	CoA 11323 GC	2016A 331	3	3.08	24.60	190.00	2.30
332	CoA 11323 GC	2016A 332	4	4.76	25.80	197.00	1.90
333	CoA 11323 GC	2016A 333	4	4.96	26.00	117.00	2.10
334	CoA 11323 GC	2016A 334	5	5.60	26.30	224.00	2.40
335	CoA 11323 GC	2016A 335	6	6.79	20.70	220.00	2.10
336	CoA 11323 GC	2016A 336	4	4.03	22.20	192.00	2.00
337	CoA 11323 GC	2016A 337	4	4.20	21.60	222.00	2.10
338	CoA 11323 GC	2016A 338	4	4.36	20.80	225.00	2.40
339	CoA 11323 GC	2016A 339	6	6.68	20.50	200.00	2.10
340	CoA 11323 GC	2016A 340	6	6.63	23.00	153.00	2.30
341	CoA 11323 GC	2016A 341	6	6.70	23.40	240.00	2.30
342	CoA 11323 GC	2016A 342	5	5.70	22.00	230.00	2.70
343	CoA 11323 GC	2016A 343	5	5.28	24.60	195.00	2.00
344	CoA 11323 GC	2016A 344	3	3.46	24.00	203.00	2.00
345	CoA 11323 GC	2016A 345	5	5.10	21.50	131.00	2.20
346	CoA 11323 GC	2016A 346	8	8.87	28.00	222.00	1.60
347	CoA 11323 GC	2016A 347	3	3.10	26.30	163.00	2.20
348	ISH 100 x Co 87268	2016A 348	5	5.11	23.50	220.00	2.00
349	ISH 100 x Co 87268	2016A 349	4	4.12	23.20	210.00	1.90
350	ISH 100 x Co 87268	2016A 350	4	4.75	25.00	243.00	1.90
351	ISH 100 x Co 87268	2016A 351	9	9.75	28.30	129.00	1.90
352	ISH 100 x Co 87268	2016A 352	6	6.37	26.70	206.00	2.10
353	ISH 100 x Co 87268	2016A 353	2	2.01	24.30	185.00	2.20
354	ISH 100 x Co 87268	2016A 354	7	7.13	25.80	215.00	2.10
355	ISH 100 x Co 87268	2016A 355	3	3.50	24.00	240.00	2.30

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
356	ISH 100 x Co 87268	2016A 356	4	4.36	23.70	172.00	1.90
357	ISH 100 x Co 87268	2016A 357	7	7.68	22.40	240.00	2.10
358	ISH 100 x Co 87268	2016A 358	5	5.68	21.80	200.00	2.40
359	ISH 100 x Co 87268	2016A 359	6	6.36	26.00	226.00	2.40
360	ISH 100 x Co 87268	2016A 360	4	4.25	24.20	265.00	2.30
361	ISH 100 x Co 87268	2016A 361	4	4.11	23.50	158.00	2.00
362	ISH 100 x Co 87268	2016A 362	10	10.10	23.80	245.00	2.10
363	ISH 100 x Co 87268	2016A 363	4	4.36	25.20	225.00	2.40
364	ISH 100 x Co 87268	2016A 364	3	3.46	23.10	130.00	2.10
365	ISH 100 x Co 87268	2016A 365	5	5.79	20.00	140.00	2.00
366	ISH 100 x Co 87268	2016A 366	5	5.80	22.30	153.00	1.80
367	ISH 100 x Co 87268	2016A 367	3	3.70	21.80	226.00	2.20
368	ISH 100 x Co 87268	2016A 368	5	5.35	23.00	166.00	1.80
369	ISH 100 x Co 87268	2016A 369	6	6.49	23.60	153.00	1.90
370	ISH 100 x Co 87268	2016A 370	6	6.45	23.00	240.00	2.10
371	ISH 100 x Co 87268	2016A 371	4	4.15	24.60	195.00	2.20
372	ISH 100 x Co 87268	2016A 372	3	3.80	22.30	180.00	2.30
373	ISH 100 x Co 87268	2016A 373	4	4.60	21.70	150.00	2.00
374	ISH 100 x Co 87268	2016A 374	4	4.36	23.40	135.00	1.80
375	ISH 100 x Co 87268	2016A 375	3	3.15	26.00	188.00	2.30
376	ISH 100 x Co 87268	2016A 376	12	12.30	22.50	157.00	1.70
377	ISH 100 x Co 87268	2016A 377	6	6.80	24.20	218.00	2.10
378	ISH 100 x Co 87268	2016A 378	2	2.98	28.00	225.00	2.50
379	ISH 100 x Co 87268	2016A 379	3	3.35	29.60	240.00	2.30
380	ISH 100 x Co 87268	2016A 380	3	3.26	26.30	182.00	2.30
381	ISH 100 x Co 87268	2016A 381	3	3.65	24.80	80.00	2.40
382	ISH 100 x Co 87268	2016A 382	5	5.36	22.60	204.00	2.30
383	ISH 100 x Co 87268	2016A 383	3	3.30	20.90	226.00	2.00
384	ISH 100 x Co 87268	2016A 384	7	7.86	24.50	278.00	2.40
385	ISH 100 x Co 87268	2016A 385	4	4.60	25.00	212.00	2.20
386	ISH 100 x Co 87268	2016A 386	4	4.67	26.40	210.00	2.00
387	CoA 100031 x HR 83-65	2016A 387	3	3.30	24.20	226.00	2.00
388	CoA 100031 x HR 83-65	2016A 388	4	4.98	22.70	110.00	2.20
389	CoA 100031 x HR 83-65	2016A 389	4	4.16	23.50	187.00	1.70
390	CoA 100031 x HR 83-65	2016A 390	3	3.86	24.90	236.00	2.10
391	CoA 100031 x HR 83-65	2016A 391	5	5.33	23.60	124.00	2.30
392	CoA 100031 x HR 83-65	2016A 392	2	2.03	26.10	260.00	2.50
393	CoA 100031 x HR 83-65	2016A 393	5	5.86	26.30	200.00	2.00
394	CoA 93082 x Co 89029	2016A 394	3	3.46	24.40	230.00	2.40
395	CoA 93082 x Co 89029	2016A 395	5	5.68	23.70	248.00	2.20
396	CoA 93082 x Co 89029	2016A 396	12	12.78	24.50	251.00	2.30
397	Co 200010 x 2003V 46	2016A 397	7	7.28	22.00	211.00	2.00
398	Co 200010 x 2003V 46	2016A 398	4	4.10	24.50	220.00	2.30
399	Co 200010 x 2003V 46	2016A 399	3	3.03	26.60	230.00	2.20
400	Co 200010 x 2003V 46	2016A 400	3	3.36	26.50	186.00	2.10
401	Co 87272 x CoS 88216	2016A 401	3	3.14	23.00	166.00	1.60
402	Co 87272 x CoS 88216	2016A 402	3	3.67	24.20	186.00	2.30
403	Co 87272 x CoS 88216	2016A 403	4	4.00	25.00	115.00	1.60
404	Co 87272 x CoS 88216	2016A 404	3	3.12	25.50	230.00	2.30
405	Co 87272 x CoS 88216	2016A 405	8	8.35	25.00	163.00	1.80

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
406	CoA 11324 x Co 99006	2016A 406	4	4.20	28.30	115.00	1.20
407	CoA 11324 x Co 99006	2016A 407	7	7.87	23.60	230.00	2.60
408	CoA 11324 x Co 99006	2016A 408	3	3.56	28.00	130.00	2.20
409	CoA 11324 x Co 99006	2016A 409	6	6.30	24.30	187.00	2.40
410	CoA 11324 x Co 99006	2016A 410	3	3.99	25.70	140.00	1.80
411	CoA 11324 x Co 99006	2016A 411	5	5.96	25.00	232.00	2.20
412	CoV 89101 x CoS88216	2016A 412	2	2.67	25.40	100.00	2.30
413	CoV 89101 x CoS88216	2016A 413	2	2.78	23.70	220.00	1.80
414	CoV 89101 x CoS88216	2016A 414	8	8.45	23.50	160.00	2.50
415	CoV 89101 x CoS88216	2016A 415	6	6.33	24.60	200.00	2.00
416	CoV 89101 x CoS88216	2016A 416	6	6.95	22.50	143.00	1.60
417	CoV 89101 x CoS88216	2016A 417	4	4.24	23.00	155.00	2.20
418	CoV 89101 x CoS88216	2016A 418	3	3.23	24.50	160.00	2.30
419	CoV 89101 x CoS88216	2016A 419	4	4.46	24.80	145.00	2.10
420	CoV 89101 x CoS88216	2016A 420	2	2.90	24.30	200.00	2.40
421	CoV 89101 x CoS88216	2016A 421	4	4.24	25.00	140.00	2.40
422	CoV 89101 x CoS88216	2016A 422	3	3.40	25.60	210.00	2.10
423	CoV 89101 x CoS88216	2016A 423	3	3.26	24.00	280.00	1.60
424	CoM 0265 GC	2016A 424	5	5.73	25.60	132.00	2.30
425	CoM 0265 GC	2016A 425	1	1.62	25.30	160.00	2.30
426	93A 145 GC	2016A 426	3	3.61	25.00	176.00	2.50
427	93A 145 GC	2016A 427	3	3.25	24.50	123.00	2.10
428	93A 145 GC	2016A 428	3	3.48	22.00	183.00	2.40
429	93A 145 GC	2016A 429	5	5.42	23.60	208.00	1.90
430	93A 145 GC	2016A 430	3	3.30	24.00	226.00	2.00
431	93A 145 GC	2016A 431	2	2.11	23.60	280.00	2.02
432	93A 145 GC	2016A 432	2	2.49	23.00	235.00	2.00
433	93A 145 GC	2016A 433	2	2.22	24.50	250.00	1.80
434	93A 145 GC	2016A 434	3	3.46	26.50	223.00	2.60
435	93A 145 GC	2016A 435	4	4.18	26.00	123.00	2.30
436	93A 145 GC	2016A 436	6	6.32	25.70	161.00	2.10
437	93A 145 GC	2016A 437	3	3.10	24.00	213.00	2.30
438	93A 145 GC	2016A 438	3	3.26	24.50	180.00	2.10
439	93A 145 GC	2016A 439	1	1.63	23.00	230.00	2.60
440	93A 145 GC	2016A 440	3	3.23	23.70	163.00	2.10
441	93A 145 GC	2016A 441	2	2.12	24.00	90.00	2.50
442	93A 145 GC	2016A 442	2	2.52	25.50	100.00	2.10
443	93A 145 GC	2016A 443	4	4.01	25.00	207.00	2.20
444	93A 145 GC	2016A 444	2	2.86	25.40	110.00	2.20
445	93A 145 GC	2016A 445	2	2.23	25.00	245.00	1.90
446	Co 98015 GC	2016A 446	2	2.03	24.80	170.00	2.50
447	Co 98015 GC	2016A 447	2	2.26	24.60	90.00	2.10
448	Co 89003 GC	2016A 448	2	2.20	23.20	250.00	2.50
449	Co 87044 GC	2016A 449	7	7.80	21.60	150.00	2.30
450	Co 87044 GC	2016A 450	5	5.45	22.80	142.00	2.20
451	Co 87044 GC	2016A 451	3	3.00	24.00	190.00	1.90
452	CoA 05321 GC	2016A 452	2	2.85	24.50	170.00	2.40



S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
453	CoA 05321 GC	2016A 453	2	2.87	24.00	250.00	2.20
454	CoA 05321GC	2016A 454	2	2.36	26.00	170.00	2.30
455	CoA 05321GC	2016A 455	3	1.45	27.00	186.00	2.20
456	CoA 05321GC	2016A 456	1	1.26	26.80	180.00	2.00
457	Co 7219 x CoS 8436	2016A 457	2	2.10	25.60	200.00	2.30
458	Co 7219 x CoS 8436	2016A 458	4	4.30	24.80	145.00	2.00
459	Co 7219 x CoS 8436	2016A 459	3	3.88	24.00	213.00	2.10
460	Co 7219 x CoS 8436	2016A 460	2	2.22	24.60	250.00	1.80
461	Co 85002 PC	2016A 461	3	3.86	24.50	166.00	2.20
462	Co 85002 PC	2016A 462	4	4.26	24.00	142.00	2.10
463	Co 85002 PC	2016A 463	3	3.01	23.00	180.00	2.30
464	Co 85002 PC	2016A 464	2	2.84	24.80	200.00	1.80
465	Co 85002 PC	2016A 465	2	2.11	24.60	125.00	2.10
466	Co 85002 PC	2016A 466	3	3.12	25.00	126.00	2.20
467	Co 85002 PC	2016A 467	5	5.86	25.50	180.00	1.80
468	Co 85002 PC	2016A 468	5	5.00	27.00	162.00	1.20
469	Co 85002 PC	2016A 469	9	9.33	23.00	177.00	2.20
470	Co 85002 PC	2016A 470	10	10.75	22.30	172.00	2.30
471	Co 85002 PC	2016A 471	3	3.96	22.80	183.00	2.10
472	Co 85002 PC	2016A 472	5	5.26	23.50	220.00	2.00
473	Co 85002 PC	2016A 473	3	3.46	23.00	173.00	1.50
474	Co 85002 PC	2016A 474	5	5.12	24.70	156.00	1.50
475	Co 85002 PC	2016A 475	6	6.86	23.60	126.00	2.80
476	Co 85002 PC	2016A 476	3	3.99	23.00	213.00	1.60
477	Co 85002 PC	2016A 477	4	4.10	24.50	22.00	2.10
478	Co 85002 PC	2016A 478	4	4.40	24.30	190.00	2.60
479	Co 85002 PC	2016A 479	3	3.32	22.60	156.00	2.20
480	Co 85002 PC	2016A 480	2	2.12	21.60	190.00	2.00
481	Co 85002 PC	2016A 481	2	2.00	20.80	200.00	2.10
482	Co 85002 PC	2016A 482	3	3.22	20.00	143.00	2.30
483	Co 86032 x CoA 7602	2016A 483	4	4.95	25.50	240.00	2.60
484	Co 86032 x CoA 7602	2016A 484	4	4.28	26.80	222.00	2.10
485	Co 86032 x CoA 7602	2016A 485	3	3.10	23.70	206.00	2.10
486	Co 86032 x CoA 7602	2016A 486	3	3.20	24.00	120.00	2.30
487	Co 86032 x CoA 7602	2016A 487	3	2.00	23.50	186.00	2.20
488	Co 86032 x CoA 7602	2016A 488	1	1.94	23.00	210.00	2.60
489	Co 86032 x CoA 7602	2016A 489	2	2.06	24.00	250.00	2.20
490	Co 86032 x CoA 7602	2016A 490	3	3.36	24.60	215.00	2.60
491	Co 86032 x CoA 7602	2016A 491	3	3.12	24.90	253.00	2.10
492	Co 86032 x CoA 7602	2016A 492	3	3.01	24.00	203.00	1.90
493	Co 86032 x CoA 7602	2016A 493	3	3.10	26.70	196.00	2.20
494	Co 86032 x CoA 7602	2016A 494	2	2.46	27.30	175.00	2.30
495	Co 86032 x CoA 7602	2016A 495	3	3.86	27.00	180.00	2.30
496	Co 86032 x CoA 7602	2016A 496	2	2.60	26.00	200.00	2.00
497	Co 86032 x CoA 7602	2016A 497	4	4.40	27.50	200.00	2.20
498	Co 86032 x CoA 7602	2016A 498	3	3.10	26.50	213.00	2.50
499	Co 86032 x CoA 7602	2016A 499	3	3.36	23.80	150.00	1.80
500	Co 86032 x CoA 7602	2016A 500	4	4.34	24.00	225.00	2.20
501	Co 86032 x CoA 7602	2016A 501	4	4.63	26.80	237.00	2.20

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
502	Co 86032 x CoA 7602	2016A 502	4	4.25	26.30	236.00	2.50
503	Co 86032 x CoA 7602	2016A 503	3	3.10	26.00	193.00	2.40
504	Co 86032 x CoA 7602	2016A 504	4	4.20	24.70	206.00	2.30
505	Co 86032 x CoA 7602	2016A 505	3	3.88	24.00	126.00	2.40
506	CoA 05322 GC	2016A 506	5	5.90	27.30	245.00	2.20
507	CoA 05322 GC	2016A 507	4	4.57	27.60	215.00	2.30
508	CoA 05322 GC	2016A 508	3	3.90	26.30	196.00	2.50
509	CoA 05322 GC	2016A 509	4	4.80	23.20	170.00	2.30
510	CoA 05322 GC	2016A 510	5	5.30	23.00	182.00	2.30
511	CoA 05322 GC	2016A 511	3	3.86	27.60	210.00	2.20
512	CoA 05322 GC	2016A 512	5	5.54	27.20	176.00	2.40
513	CoA 05322 GC	2016A 513	3	3.34	24.50	126.00	2.00
514	CoA 05322 GC	2016A 514	4	4.94	26.80	200.00	2.00
515	CoA 05322 GC	2016A 515	10	10.30	28.70	226.00	2.10
516	CoA 99082 GC	2016A 516	5	5.24	29.00	194.00	1.70
517	CoA 99082 GC	2016A 517	1	1.00	26.30	230.00	2.30
518	CoA 99082 GC	2016A 518	6	6.11	25.00	166.00	2.30
519	CoA 99082 GC	2016A 519	3	3.00	24.50	180.00	1.80
520	Co 8371 GC	2016A 520	3	3.46	26.00	103.00	2.20
521	Co 8371 GC	2016A 521	5	5.00	26.50	148.00	2.30
522	CoA 05323 GC	2016A 522	3	3.41	23.50	186.00	2.20
523	CoA 05323 GC	2016A 523	2	2.41	24.00	180.00	2.50
524	CoA 05323 GC	2016A 524	4	4.46	22.60	197.00	2.20
525	CoA 05323 GC	2016A 525	5	5.20	23.80	238.00	1.60
526	CoA 05323 GC	2016A 526	3	3.00	23.00	176.00	2.10
527	CoA 05323 GC	2016A 527	5	5.86	24.30	204.00	1.90
528	CoA 05323 GC	2016A 528	7	7.88	26.80	199.00	2.20
529	CoV 94101 GC	2016A 529	4	4.43	24.00	157.00	2.20
530	CoV 94101 GC	2016A 530	2	2.00	23.80	190.00	1.90
531	CoV 94101 GC	2016A 531	3	3.10	23.50	190.00	2.30
532	CoV 94101 GC	2016A 532	5	5.87	26.00	154.00	2.30
533	CoV 94101 GC	2016A 533	9	9.23	26.80	162.00	2.40
534	CoA 90081 GC	2016A 534	10	10.60	28.30	147.00	2.20
535	CoA 90081 GC	2016A 535	2	2.83	26.00	152.00	2.400
536	CoA 90081 GC	2016A 536	4	4.24	25.30	195.00	2.10
537	CoA 90081 GC	2016A 537	1	1.99	24.80	163.00	2.50
538	CoA 11326 GC	2016A 538	5	5.60	24.20	140.00	1.90
539	CoA 11326 GC	2016A 539	5	5.20	26.00	166.00	2.70
540	CoA 11326 GC	2016A 540	3	3.40	26.40	206.00	2.20
541	CoA 11326 GC	2016A 541	4	4.80	26.70	185.00	2.40
542	CoA 11326 GC	2016A 542	2	2.20	27.00	250.00	2.20
543	CoA 11326 GC	2016A 543	5	5.60	27.50	153.00	2.30
544	CoA 11326 GC	2016A 544	3	3.84	26.10	193.00	2.10
545	Co 98008 GC	2016A 545	3	3.83	25.30	193.00	2.40
546	Co 98008 GC	2016A 546	7	7.60	24.70	124.20	2.80
547	Co 98008 GC	2016A 547	3	3.34	22.00	186.60	2.10
548	Co 98008 GC	2016A 548	3	3.80	21.20	100.50	2.60
549	Co 98008 GC	2016A 549	4	4.60	20.60	157.50	2.20

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
550	Co 98008 GC	2016A 550	2	2.87	27.60	210.00	2.10
551	Co 98008 GC	2016A 551	3	3.20	27.00	90.00	2.30
552	CoA 09321 GC	2016A 552	2	2.36	23.00	90.00	2.50
553	CoA 09321 GC	2016A 553	1	1.84	23.20	270.00	2.30
554	Co 0118 GC	2016A 554	4	4.63	25.00	157.00	2.20
555	Co 0118 GC	2016A 555	3	3.80	25.80	126.00	2.30
556	Co 0118 GC	2016A 556	1	1.28	26.30	210.00	2.30
557	Co 0118 GC	2016A 557	3	3.27	28.40	175.00	2.00
558	Co 0118 GC	2016A 558	2	2.23	27.00	170.00	1.80
559	Co 0118 GC	2016A 559	2	2.46	26.30	195.00	2.50
560	Co 0118 GC	2016A 560	2	2.34	25.40	195.00	2.40
561	Co 0118 GC	2016A 561	3	2.40	25.50	180.00	2.20
562	CoA 0231 x CoC 671	2016A 562	2	2.10	24.00	255.00	1.90
563	CoA 0231 x CoC 671	2016A 563	2	2.46	26.60	195.00	2.40
564	CoA 7602 GC	2016A 564	2	2.10	23.40	235.00	2.00
565	CoA 7602 GC	2016A 565	4	4.27	25.70	190.00	2.20
566	CoA 7602 GC	2016A 566	3	3.34	25.50	173.00	2.40
567	CoA 7602 GC	2016A 567	6	6.10	26.80	130.00	2.30
568	CoA 7602 GC	2016A 568	4	4.70	26.00	135.00	2.30
569	CoA 7602 GC	2016A 569	7	7.60	26.80	186.00	2.50
570	CoA 7602 GC	2016A 570	4	4.10	24.30	160.00	1.90
571	CoA 7602 GC	2016A 571	5	5.30	25.00	250.00	2.20
572	CoA 7602 GC	2016A 572	3	3.88	25.50	133.00	2.10
573	CoA 7602 GC	2016A 573	6	6.60	26.00	210.00	2.10
574	CoA 7602 GC	2016A 574	3	3.64	28.70	180.00	2.10
575	CoA 7602 GC	2016A 575	3	3.46	29.20	176.00	2.10
576	CoA 7602 GC	2016A 576	3	3.36	28.50	236.00	2.00
577	CoA 7602 GC	2016A 577	2	2.12	26.00	160.00	2.50
578	CoA 7602 GC	2016A 578	3	3.40	26.50	200.00	2.10
579	CoA 7602 GC	2016A 579	5	5.42	27.00	255.00	2.30
580	CoA 7602 GC	2016A 580	4	4.13	23.20	172.00	2.40
581	CoA 7602 GC	2016A 581	3	3.21	24.00	186.00	2.30
582	CoA 7602 GC	2016A 582	4	4.60	26.00	165.00	2.30
583	CoA 7602 GC	2016A 583	3	3.30	26.80	236.00	2.20
584	CoA 7602 GC	2016A 584	2	2.29	23.40	140.00	2.50
585	CoA 7602 GC	2016A 585	4	4.56	24.50	197.00	2.20
586	CoA 7602 GC	2016A 586	4	4.26	25.70	240.00	2.20
587	CoA 7602 GC	2016A 587	3	3.80	26.00	136.00	2.10
588	CoA 7602 GC	2016A 588	4	4.64	23.10	240.00	2.30
589	CoA 7602 GC	2016A 589	4	4.64	23.00	147.00	2.10
590	CoA 7602 GC	2016A 590	4	4.23	25.70	197.00	2.00
591	CoA 7602 GC	2016A 591	3	3.11	27.00	183.00	2.10
592	CoA 7602 GC	2016A 592	3	3.43	26.30	186.00	1.80
593	CoA 7602 GC	2016A 593	4	4.01	25.00	197.00	1.90
594	CoA 7602 GC	2016A 594	5	5.45	26.50	152.00	1.70
595	CoA 7602 GC	2016A 595	4	4.20	25.00	140.00	2.10
596	CoA 7602 GC	2016A 596	3	3.34	25.80	120.00	1.50
597	CoA 7602 GC	2016A 597	4	4.30	24.30	197.00	2.10
598	CoA 7602 GC	2016A 598	3	3.48	25.00	153.00	2.20
599	CoA 7602 GC	2016A 599	3	3.15	24.70	190.00	1.80

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
600	Co 2000 – 10 GC	2016A 600	3	3.00	24.00	120.00	2.30
601	CoA 7602 GC	2016A 601	3	3.00	26.00	183.00	1.80
602	CoA 7602 GC	2016A 602	6	6.60	26.30	200.00	2.00
603	Co2 00010	2016A 603	3	3.41	27.00	236.00	2.00
604	CoA 92081 x CoT 8201	2016A 604	4	4.66	27.50	225.00	2.50
605	86V 46 Poly cross	2016A 605	2	2.30	27.00	225.00	2.40
606	86V 46 Poly cross	2016A 606	3	3.11	26.50	183.30	2.10
607	86V 46 Poly cross	2016A 607	2	2.60	26.30	210.00	2.00
608	86V 46 Poly cross	2016A 608	4	4.26	25.80	165.00	2.30
609	86V 46 Poly cross	2016A 609	3	3.46	24.30	140.00	2.30
610	86V 46 Poly cross	2016A 610	5	5.88	20.80	220.00	2.50
611	86V 46 Poly cross	2016A 611	4	4.31	28.00	210.00	2.50
612	86V 46 Poly cross	2016A 612	3	3.01	27.30	126.60	2.50
613	86V 46 Poly cross	2016A 613	5	5.84	26.00	196.00	1.70
614	86V 46 Poly cross	2016A 614	3	3.42	27.50	227.00	2.10
615	86V 46 Poly cross	2016A 615	4	4.37	25.80	200.00	2.00
616	86V 46 Poly cross	2016A 616	3	3.67	24.00	210.00	1.80
617	86V 46 Poly cross	2016A 617	5	5.60	26.80	228.00	2.00
618	86V 46 Poly cross	2016A 618	3	3.10	24.00	253.00	2.10
619	86V 46 Poly cross	2016A 619	2	2.24	26.00	265.00	2.40
620	86V 46 Poly cross	2016A 620	5	5.24	26.80	212.00	2.10
621	86V 46 Poly cross	2016A 621	2	2.22	24.30	175.00	1.90
622	86V 46 Poly cross	2016A 622	3	3.13	23.00	186.00	2.30
623	86V 46 Poly cross	2016A 623	5	5.68	23.50	218.00	1.70
624	86V 46 Poly cross	2016A 624	3	3.00	24.70	176.00	2.10
625	86V 46 Poly cross	2016A 625	5	5.20	24.50	179.00	1.50
626	86V 46 Poly cross	2016A 626	3	3.12	25.80	206.00	1.80
627	86V 46 Poly cross	2016A 627	3	3.46	26.00	203.00	2.10
628	86V 46 Poly cross	2016A 628	3	3.24	24.00	190.00	2.40
629	86V 46 Poly cross	2016A 629	3	3.68	24.60	153.30	2.40
630	86V 46 Poly cross	2016A 630	4	4.41	23.00	177.00	2.30
631	86V 46 Poly cross	2016A 631	3	3.37	24.30	146.60	2.20
632	86V 46 Poly cross	2016A 632	2	2.48	26.00	225.00	2.40
633	86V 46 Poly cross	2016A 633	4	4.84	27.50	227.50	2.30
634	86V 46 Poly cross	2016A 634	4	4.64	28.60	150.00	1.90
635	86V 46 Poly cross	2016A 635	2	2.08	26.00	165.00	1.90
636	Co 05011 x ISH 176	2016A 636	7	7.10	24.30	192.00	1.90
637	Co 05011 x ISH 176	2016A 637	3	3.36	22.00	210.00	2.10
638	Co 05011 x ISH 176	2016A 638	6	6.26	24.10	210.00	2.00
639	Co 05011 x ISH 176	2016A 639	3	3.11	25.30	170.00	2.00
640	Co 05011 x ISH 176	2016A 640	6	6.68	23.60	226.60	2.40
641	Co 86032 x CoT 8201	2016A 641	2	2.01	26.80	205.00	2.400
642	Co 86032 x CoT 8201	2016A 642	3	3.06	24.30	226.60	2.10
643	Co 86032 x CoT 8201	2016A 643	4	4.16	25.00	80.00	2.30
644	Co 86032 x Co 94008	2016A 644	4	4.34	25.50	210.00	2.00
645	Co 86032 x Co 94008	2016A 645	3	3.26	28.00	186.60	1.80
646	Co 86032 x Co 94008	2016A 646	3	3.36	26.30	240.00	2.20

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
647	CoA 05323x Co 94008	2016A 647	2	2.40	27.40	250.00	2.50
648	CoA 05323x Co 94008	2016A 648	2	2.12	28.00	250.00	2.30
649	Co 62198 x Co 89029	2016A 649	4	4.74	24.00	202.00	1.90
650	Co 62198 x Co 89029	2016A 650	3	3.30	26.30	146.60	2.10
651	Co 62198 x Co 89029	2016A 651	4	4.86	26.00	170.00	1.70
652	Co 62198 x Co 89029	2016A 652	3	3.24	24.30	190.00	2.30
653	Co 62198 x Co 89029	2016A 653	4	4.10	25.00	192.50	1.80
654	Co 62198 x Co 89029	2016A 654	2	2.00	25.50	190.00	1.90
655	CoA 07321 GC	2016A 655	4	4.10	27.00	225.00	2.10
656	CoA 07321 GC	2016A 656	1	1.96	24.30	180.00	2.30
657	CoA 07321 GC	2016A 657	1	1.83	23.80	210.00	2.10
658	CoA 07321 GC	2016A 658	3	3.30	26.50	243.00	2.10
659	CoA 07321 GC	2016A 659	1	1.14	26.00	220.00	1.60
660	Co 8213 GC	2016A 660	2	2.20	30.00	95.00	2.50
661	Co 8213 GC	2016A 661	3	3.98	26.00	266.00	2.10
662	Co 8213 GC	2016A 662	3	3.43	28.20	203.00	2.00
663	Co 8213 GC	2016A 663	4	4.26	27.50	217.50	2.00
664	Co 8213 GC	2016A 664	5	5.84	26.00	216.00	1.90
665	Co 8213 GC	2016A 665	2	2.83	25.40	210.00	2.30
666	Co 8213 GC	2016A 666	3	3.00	24.30	206.00	2.20
667	Co 8213 GC	2016A 667	5	5.46	25.00	222.00	2.20
668	Co 8213 GC	2016A 668	3	3.80	24.80	216.60	1.80
669	Co 8213 GC	2016A 669	3	3.40	24.00	86.60	2.10
670	Co 8213 GC	2016A 670	2	2.33	26.00	225.00	2.40
671	Co 8213 GC	2016A 671	3	3.60	25.80	186.60	2.50
672	Co 8213 GC	2016A 672	3	3.52	24.30	186.60	2.20
673	Co 8213 GC	2016A 673	2	2.20	26.00	205.00	1.90
674	Co 8213 GC	2016A 674	3	3.00	25.50	176.60	2.20
675	Co 8213 GC	2016A 675	4	4.86	25.30	197.50	1.90
676	Co 8213 GC	2016A 676	3	3.34	27.00	133.30	2.20
677	Co 8213 GC	2016A 677	2	2.24	24.50	280.00	2.40
678	Co 8213 GC	2016A 678	3	3.20	23.20	130.00	2.00
679	Co 8213 GC	2016A 679	5	5.31	28.00	210.00	2.20
680	Co 86032 x Co 94008	2016A 680	2	2.21	26.30	155.00	2.10
681	Co 86032 x Co 94008	2016A 681	2	2.10	26.00	220.00	2.40
682	Co 86032 x Co 94008	2016A 682	2	2.94	27.80	220.00	1.80
683	Co 86032 x Co 94008	2016A 683	3	3.01	26.50	186.60	2.20
684	Co 86032 x Co 94008	2016A 684	3	3.46	25.30	145.30	1.90
685	Co 86032 x Co 94008	2016A 685	4	4.26	24.10	237.50	2.20
686	Co 86032 x Co 94008	2016A 686	3	3.66	22.00	213.00	2.00
687	Co 86032 x Co 94008	2016A 687	3	3.20	22.00	136.60	2.30
688	Co 86032 x Co 94008	2016A 688	2	2.01	23.00	240.00	2.20
689	Co 86032 x Co 94008	2016A 689	2	2.94	27.30	200.00	2.20
690	Co 86032 x Co 94008	2016A 690	1	1.46	24.20	270.00	2.30
691	CoC 90063 PC	2016A 691	3	3.10	22.30	186.60	1.80
692	CoC 90063 PC	2016A 692	3	3.62	24.40	173.30	2.40
693	CoC 90063 PC	2016A 693	3	3.41	24.40	210.00	2.10
694	CoC 90063 PC	2016A 694	3	3.49	23.50	193.30	2.40
695	CoC 90063 PC	2016A 695	4	4.58	22.40	182.50	2.20
696	CoC 90063 PC	2016A 696	4	4.48	23.60	195.00	2.00

S.No	Parentage	Genotype	No. of canes / clump	Clump weight (kg)	HR brix per cent	Cane length (cm)	Cane Diameter (cm)
697	CoC 90063 PC	2016A 697	3	3.56	20.40	180.00	1.90
698	CoC 90063 PC	2016A 698	4	4.01	24.70	170.00	2.40
699	CoC 90063 PC	2016A 699	2	2.26	23.20	190.00	2.50
700	CoC 90063 PC	2016A 700	2	2.12	24.60	155.00	2.20
701	CoC 90063 PC	2016A 701	2	2.60	24.30	225.00	2.50
702	CoC 90063 PC	2016A 702	2	2.01	24.50	195.00	2.50
703	CoC 90063 PC	2016A 703	2	2.01	26.00	195.00	2.50
704	CoC 90063 PC	2016A 704	3	3.40	28.00	253.30	2.40
705	CoC 671 GC	2016A 705	5	5.70	26.00	148.30	2.20
706	CoC 671 GC	2016A 706	3	3.60	25.80	176.60	2.20
707	CoC 671 GC	2016A 707	7	7.84	23.70	160.00	2.30
708	CoC 671 GC	2016A 708	3	3.20	24.00	173.30	2.40
709	CoC 671 GC	2016A 709	3	3.46	25.50	186.00	2.10
710	CoC 671 GC	2016A 710	4	4.33	26.00	157.50	2.00
711	CoC 671 GC	2016A 711	9	9.80	26.50	187.00	2.40
712	CoC 671 GC	2016A 712	4	4.80	23.00	155.00	2.10
713	CoC 671 GC	2016A 713	6	6.30	24.50	160.00	2.10
714	CoC 671 GC	2016A 714	4	4.41	26.20	267.00	1.90
715	CoC 671 GC	2016A 715	3	3.10	28.30	233.00	2.60
716	CoC 671 GC	2016A 716	4	4.00	23.60	168.30	2.40
717	CoC 671 GC	2016A 717	8	8.50	24.80	150.50	2.40
718	CoC 671 GC	2016A 718	4	4.10	24.30	190.00	2.40
719	CoC 671 GC	2016A 719	4	4.40	25.00	155.50	2.50
720	CoC 671 GC	2016A 720	4	4.66	26.80	197.50	2.20
721	CoC 671 GC	2016A 721	5	5.25	26.20	220.00	2.10
722	CoC 671 GC	2016A 722	5	5.70	22.30	226.00	2.40
723	CoC 671 GC	2016A 723	3	3.20	23.20	163.30	2.40
724	CoC 671 GC	2016A 724	6	6.20	24.50	176.60	2.10
725	CoC 671 GC	2016A 725	3	3.21	26.80	233.00	2.40
726	CoC 671 GC	2016A 726	5	5.80	24.80	164.50	2.40
727	CoC 671 GC	2016A 727	5	5.80	25.70	176.00	2.40
728	CoC 671 GC	2016A 728	4	4.20	26.50	160.00	2.30
729	CoC 671 GC	2016A 729	7	7.40	24.80	130.00	2.20
730	CoV 89101 GC	2016A 730	3	3.15	26.20	210.00	2.00
731	CoV 89101 GC	2016A 731	2	2.00	28.30	210.00	2.00
732	CoV 89101 GC	2016A 732	3	3.70	25.20	123.30	2.50
733	CoV 89101 GC	2016A 733	6	6.87	25.50	181.60	2.30
734	CoV 89101 GC	2016A 734	4	4.10	24.80	90.00	3.20
735	CoV 89101 GC	2016A 735	6	6.80	26.80	120.00	2.40
736	CoV 89101 GC	2016A 736	5	5.10	25.00	158.00	2.10
737	CoV 89101 GC	2016A 737	6	6.70	23.70	165.70	2.10
738	CoV 89101 GC	2016A 738	3	3.90	26.40	156.60	2.30
739	CoV 89101 GC	2016A 739	4	4.90	20.50	160.00	2.60
740	CoV 89101 GC	2016A 740	5	5.80	22.30	172.00	2.30
741	CoV 89101 GC	2016A 741	4	4.70	26.80	140.00	2.40
742	CoV 89101 GC	2016A 742	4	4.60	26.40	202.00	2.00
743	CoV 89101 GC	2016A 743	10	10.73	24.80	160.00	2.50
744	CoV 89101 GC	2016A 744	5	5.10	24.80	242.00	2.20
745	Co 8371 PC	2016A 745	6	6.70	23.60	175.00	2.10
746	Co 8371 PC	2016A 746	3	3.20	25.50	176.60	2.30

<b>S.No</b>	<b>Parentage</b>	<b>Genotype</b>	<b>No. of canes / clump</b>	<b>Clump weight (kg)</b>	<b>HR brix per cent</b>	<b>Cane length (cm)</b>	<b>Cane Diameter (cm)</b>
747	Co 8371 PC	2016A 747	6	6.01	22.70	148.30	2.30
748	Co 8371 PC	2016A 748	7	7.70	24.50	208.50	2.30
749	Co 8371 PC	2016A 749	3	3.10	26.20	232.00	2.20
750	Co 8371 PC	2016A 750	3	3.60	24.80	206.60	2.10
751	Co 8371 PC	2016A 751	5	5.86	25.00	202.00	2.30
752	Co 8371 PC	2016A 752	6	6.10	24.60	178.30	2.30
753	Co 8371 PC	2016A 753	9	9.10	22.80	186.70	2.40
754	Co 8371 PC	2016A 754	7	7.01	24.50	100.80	2.30
755	ISH 100 PC	2016A 755	7	7.10	23.60	193.30	2.20
756	ISH 100 PC	2016A 756	4	4.70	24.40	226.00	2.20
757	ISH 100 PC	2016A 757	7	7.97	22.60	145.70	2.10
758	ISH 100 PC	2016A 758	5	5.80	24.00	186.00	2.40
759	ISH 100 PC	2016A 759	10	10.60	26.80	160.00	2.50
760	ISH 100 PC	2016A 760	7	7.66	22.70	146.30	2.60
761	Co 740 x Co 1287	Co 6907 (C)	5	5.00	22.00	245.00	2.50
762	Co 449 x Co 658	Co 7219 (C)	7	7.20	23.80	255.00	2.62

**Table 4: Cross wise means in Seedling Nursery (2015 – 16)**

S.No	Genotypes	Parentage	No. of selections	No. of canes/ clump	Clump weight (kg)	HR Brix %	Cane length (cm)	Cane diameter (cm)	Single cane weight (kg)
1	2016A 1 to 2016A 25	Co 11001 GC	25	4.4	6.00	22.80	193	2.30	1.36
2	2016A 26 to 2016A 45	70A2 GC	20	4.1	5.00	22.40	225	2.20	1.22
3	2016A 46 to 2016A 60	CoT 8201 GC	15	5.6	5.70	22.90	203	2.30	1.02
4	2016A 61 to 2016A 66	Co 0233 GC	6	4.8	5.00	24.40	160	2.00	1.04
5	2016A 67 to 2016A 82	Co 97015 GC	16	4.4	4.50	23.40	217	2.38	1.02
6	2016A 83 to 2016A 85	Co 1158 GC	3	4.6	4.60	26.40	182	2.26	1.00
7	2016A 86 to 2016A 90	97R 401 GC	5	5.8	6.00	22.20	169	2.18	1.03
8	2016A 91 to 2016A 103 2016A 149 to 2016A 161 2016A 644 to 2016A 646 2016A 680 to 2016A 690	Co 86032 x Co 94008	40	3.5	3.80	24.90	2.14	2.73	1.08
9	2016A 104 to 2016A 115	CoA 07321 x ISH 50	12	4.1	4.30	20.60	209	2.38	1.05
10	2016A 116 to 2016A 120	Co 99006 GC	5	5.4	5.50	24.10	201	2.28	1.02
11	2016A 121	Co Or 03-152 GC	1	4.0	4.00	24.00	260	2.90	1.00
12	2016A 122 to 2016A 148 2016A 730 to 2016A 744	CoV 89101 GC	42	4.8	5.00	25.10	262	2.20	1.05
13	2016A 162 to 2016A 166	CoV 89101 x ISH 69	5	7.0	7.00	22.40	293	2.30	1.04
14	2016A 167 to 2016A 182	CoV 89101 x Co 7602	16	12.30	14.00	25.60	205	2.20	1.06
15	2016A 183 to 2016A 194	CoA 11324 x Co 62198	12	4.0	4.20	24.50	215	2.00	1.05
16	2016A 195 to 2016A 216	Co 0240 x Co 89029	22	4.3	4.41	23.50	204	2.20	1.03
17	2016A 217 to 2016A 218	CoC 90063 x Co 94008	2	0.5	5.55	21.50	237	2.30	1.11
18	2016A 219 to 2016A 239	CoA 10321 x CoH 13	21	3.3	3.30	23.80	221	2.20	1.00
19	2016A 240 to 2016A 244	Co 86032 x 85R 186	5	5.2	5.46	23.80	214	2.10	1.05
20	2016A 245 to 2016A 249	CoA 05323 x Co 94008	5	4.6	4.79	23.60	196	2.30	1.04
21	2016A 250 to 2016A 255	Co 86002 x Co 7268	6	4.6	4.88	25.50	208	2.00	1.06
22	2016A 256 to 2016A 260	Co 8371 x Co 99006	5	4.8	4.80	22.40	156	2.20	1.00
23	2016A 261 to 2016A 262	Co 05011 x ISH 287	2	4.0	4.00	23.30	178	2.10	1.10
24	2016A 263	Co 62198 x ISH 287	10	2.5	2.50	25.00	171	1.90	1.00
25	2016A 264 to 2016A 289	CoA 93082 GC	26	4.8	5.00	24.30	169	2.70	1.04
26	2016A 290 to 2016A 298	CoA 7602 GC	9	3.6	3.64	24.60	187	2.80	1.00



S.No	Genotypes	Parentage	No. of selections	No. of canes / clump	Clump weight (kg)	HR Brix %	Cane length (cm)	Cane diameter (cm)	Single cane weight (kg)
27	2016A 299 to 2016A 310	CoA 11324 GC	12	4.0	5.60	24.60	190	2.00	1.40
28	2016A 311 to 2016A 324	70A5 GC	14	4.1	4.14	23.90	202	2.00	1.01
29	2016A 325	CoJaw 270 GC	1	3.0	3.24	26.10	250	2.20	1.08
30	2016A 326 to 2016A 347	CoA 11323 GC	22	4.4	5.88	24.10	220	2.10	1.34
31	2016A 348 x 2016A 386	ISH 100 x Co 87268	39	4.7	4.89	24.10	245	2.30	1.04
32	2016A 387 to 2016A 393	CoA 10321 x HR 83-65	7	3.7	4.45	24.40	239	2.80	1.20
33	2016A 394 to 2016A 396	CoA 93082 x Co 89029	3	6.6	6.67	24.20	240	2.30	1.01
34	2016A 397 to 2016A 400	Co 2000 - 10 x 2003V 46	4	4.2	4.33	24.90	211	2.00	1.03
35	2016A 401 to 2016A 405	Co 87272 x CoS 88216	5	4.2	4.41	24.50	192	2.00	1.05
36	2016A 406 to 2016A 411	CoA 11324 x Co 99006	6	4.6	5.00	25.80	198	2.32	1.08
37	2016A 412 to 2016A 423	CoV 89101 x CoS 88216	12	5.0	5.25	24.20	196	2.80	1.05
38	2016A 424 to 2016A 425	CoM 0265 GC	2	3.0	4.70	25.40	186	2.70	1.57
39	2016A 426 to 2016A 445	93A 145 GC	20	3.9	4.00	24.40	236	2.41	1.03
40	2016A 446 to 2016A 447	Co 98015GC	2	2.0	2.00	24.70	180	2.30	1.00
41	2016A 448	Co 89003 GC	1	3.0	3.40	23.20	250	2.50	1.13
42	2016A 449 to 2016A 451	Co 87044 GC	3	5.0	5.20	22.80	165	2.40	1.67
43	2016A 452 to 2016A 456	CoA 05321 GC	5	3.0	3.80	25.60	198	2.30	1.27
44	2016A 457 to 2016A 460	Co 7219 x CoS 8436	4	4.0	4.10	24.70	212	2.08	1.03
45	2016A 461 to 2016A 482	Co 85002 PC	22	4.0	4.60	23.50	191	2.00	1.15
46	2016A 483 to 2016A 505	Co 86032 x CoA 7602	23	3.0	3.20	25.20	210	2.20	1.07
47	2016A 506 to 2016A 515	CoA 05322 GC	10	4.6	5.00	26.20	194	2.40	1.09
48	2016A 516 to 2016A 519	CoA 99082 GC	4	3.7	3.69	26.20	192	2.00	1.00
49	2016A 520 to 2016A 521	Co 8371 GC	2	4.0	4.00	26.40	136	2.20	1.00
50	2016A 522 to 2016A 528	CoA 05323 GC	7	4.4	4.60	24.00	199	2.60	1.05
51	2016A 529 to 2016A 533	CoV 94101 GC	5	4.6	4.50	24.80	190	2.20	0.98
52	2016A 534 to 2016A 537	CoA 90081 GC	4	4.2	4.25	26.10	184	2.40	1.01
53	2016A 538 to 2016A 544	CoA 11326 GC	7	3.8	4.00	26.40	185	2.40	1.05
54	2016A 545 to 2016A 551	Co 98008 GC	7	3.5	3.80	24.00	181	2.30	1.09
55	2016A 552 to 2016A 553	CoA 09321 GC	2	1.5	2.50	26.00	225	2.40	1.67
56	2016A 554 to 2016A 561	Co 0118 GC	8	2.5	2.80	26.20	186	2.23	1.12
57	2016A 562 to 2016A 563	CoA 07321 x CoC 671	2	2.0	2.20	28.00	178	2.20	1.00
58	2016A 564 to 2016A 602	CoA 7602 GC	39	3.7	3.70	25.50	181	2.10	1.00
59	2016A 603	Co 200010 GC	1	3.0	3.00	27.00	236	2.00	1.00

<b>S.No</b>	<b>Genotypes</b>	<b>Parentage</b>	<b>No. of selections</b>	<b>No. of canes / clump</b>	<b>Clump weight (kg)</b>	<b>HR Brix %</b>	<b>Cane length (cm)</b>	<b>Cane diameter (cm)</b>	<b>Single cane weight (kg)</b>
60	2016A 604	CoA 92081 x CoT 8201	1	4.0	4.30	27.50	225	2.50	1.08
61	2016A 605 to 2016A 635	86V 46 PC	31	3.3	3.40	25.40	194	2.20	1.03
62	2016A 636 to 2016A 640	Co 05011 x ISH 76	5	5.0	5.00	23.80	208	2.10	1.00
63	2016A 641 to 2016A 643	Co 86032 x CoT 8201	3	3.0	3.08	25.30	190	2.20	1.03
64	2016A 647 to 2016A 648	CoA 05323 X Co 94008	2	2.0	2.10	27.70	250	2.40	1.05
65	2016A 649 to 2016A 654	Co 62198 x Co 89029	6	3.3	3.50	25.10	1.91	1.90	1.06
66	2016A 655 to 2016A 659	CoA 07321 GC	5	3.0	3.00	25.50	215	2.50	1.00
67	2016A 660 to 2016A 679	Co 8213 GC	20	3.1	3.40	25.80	198	2.30	1.10
68	2016A 691 to 2016A 704	CoC 90063 PC	14	2.8	3.00	24.00	193	2.20	1.07
69	2016A 705 to 2016A 729	CoC 671 GC	25	4.7	4.90	25.70	180	2.40	1.04
70	2016A 745 to 2016A 754	Co 8371 PC	10	5.5	5.50	24.40	190	2.30	1.00
71	2016A 755 to 2016A 760	ISH 100 PC	6	6.6	6.80	24.00	186	2.30	1.03

- I Project No.** : B IV fluff supply programme  
P2 – 2015 / 2 / AHD / F30 / H10 / H20 / 02301
- II. Project Title** : Evolving improved sugarcane genotypes suitable for different agro-climatic zones of A.P. –Settling nursery
- III. Serial number of the year of Experimentation** : II
- IV. Location** : Regional Agricultural Research Station, Anakapalle
- V. Objective** : To identify superior clones for further study in selection nursery.
- VI. Technical Programme on which the report is based** : Based on location specific needs and problems identified in Zonal Research and Extension Advisory Council Meetings and diagnostic team visits.
- VII. Discipline wise – technical report** :
- a. Date of planting** : 6.5.2015 and 7.5.2015
- b. Varieties** : 300 genotypes selected from seedling nursery raised during 2014-15
- c. Fertilizer application** : 112 kg N + 100 kg P<sub>2</sub>O<sub>5</sub> + 120 kg K<sub>2</sub>O / ha
- d. Cultural practices** :
- |                                 |   |                                    |
|---------------------------------|---|------------------------------------|
| Hand weeding and hoeing         | : | 11.6.15, 12.6.15, 13.7.15 &14.7.15 |
| Inter cultivation               | : | 3.8.15, 4.8.15, 5.8.15             |
| Rectification of cross channels | : | 6.8.15, 7.8.15                     |
| Earthing up                     | : | 3.9.2015                           |
| Removal of flower weeds         | : | 22.9.15, 23.9.15, 25.9.15          |
| I Tier TT propping              | : | 14.9.15, 26.9.15, 5.10.15          |
| II Tier TT Propping             | : | 5.11.15, 6.11.15, 7.11.15          |
| III Tier TT Propping            | : | 7.12.15, 8.12.15, 30.12.15         |
- e. Irrigations** : Once in a week during formative phase and once in 18 days during maturity phase.
- f. Plant protection** : ---
- g. Date of harvest** : 18.4.16
- h. Plot size** : 2.5 m x 0.8 m x 2R = 4.0m<sup>2</sup>
- i. Layout** : ARCBD
- j. Replications** : Non – replicated spaced planted trial.
- k. Total experimental area** : 0.75 ac
- l. Name and designation of the participants** :
1. Dr.D.Adilakshmi, Senior Scientist (Plant Breeding)
  2. Dr.M.Charumathi, Senior Scientist (Plant Breeding)
  3. Dr. A. Appalaswamy, Principal Scientist (Plant Breeding)

**m. Results obtained during the previous year:**

Out of 355 genotypes studied in settling nursery during 2014-15, 113 clones were selected based on desirable morphological features and HR brix per cent values Cane yield (t/ha) ranged from 43.52 (2014 A 4) to 125.00 t/ha (2014 A 39). Among the selected clones 11 clones viz., 2014 A 30, 2014 A 39, 2014 A 47, 2014 A 68, 2014 A 76, 2014 A 93, 2014 A 113, 2014 A 130 , 2014 A 266,2014 A 338 and 2014 A 351 were recorded cane yield more than 100 t/ha in comparison with the standards Co 6907 (82.00 t/ha) and Co 7219 (85.00 t/ha). Number of Millable Canes ('000/ha) ranged from 37.50 (2014 A 32) to 95.00 (2014 A176), HR Brix per cent ranged from 18.00 (2014 A 47) to 27.50 (2014 A 125) while, Brix yield ranged from 8.10 (2014 A 7) to 31.85 t/ha (2014 A 338)

**n. Results obtained during the year :**

Out of 300 genotypes studied in settling nursery during 2015-16, 76 clones were selected based on desirable morphological features and HR brix per cent values. Among these clones the Cane yield (t/ha) ranged from 95.00 t/ha (2015 A 21) to 145.00 t/ha (2015 A 199). The clones 2015 A 83, 2015 183, 2015 A 201 recorded highest brix yield more than 34 t/ha. Among the selected clones the H.R Brix percent ranged from 20.20 (2015 A 153) to 26.00 (2015 A 45). Number of Millable Canes ('000/ha) ranged from 82.50 (2015 A 21) to 125.00 (2015 A 199) (Table 5)

**VIII Technical Programme of the year next to the reporting year**

Seven hundred and Sixty clones along with two early standards, CoA 92081 & Co 6907 and two midlate standards, CoV 92102 & Co 7219 will be studied during the year 2016 -17.

**IX. Technical summary of the individual reporting year**

Among 300 genotypes, the Cane yield (t/ha) ranged from 95.00 t/ha (2015 A 21) to 145.00 t/ha (2015 A 199). The clones 2015 A 83, 2015 183, 2015 A 201 recorded highest brix yield more than 34 t/ha. Among the selected clones the H.R Brix percent ranged from 20.20 (2015 A 153) to 26.00 (2015 A 45). Number of millable canes ('000/ha) ranged from 82.50 (2015 A 21) to 125.00 (2015 A 199) (Table 5).

**X. Salient findings.**

Out of 300 genotypes studied in settling nursery during 2015-16, 76 clones were selected based on desirable morphological features and HR brix per cent values. Among these clones the Cane yield (t/ha) ranged from 95.00 t/ha (2015 A 21) to 145.00 t/ha (2015 A 199). The clones 2015 A 83, 2015 183, 2015 A 201 recorded highest brix yield more than 34 t/ha. Among the selected clones the H.R Brix percent ranged from 20.20 (2015 A 153) to 26.00 (2015 A 45). Number of millable canes ('000/ha) ranged from 82.50 (2015 A 21) to 125.00 (2015 A 199)

**Table 5. Performance of selected clones in Settling Nursery 2015-16**

<b>S.No</b>	<b>Clone no</b>	<b>Pedigree</b>	<b>NMC (000'/ha)</b>	<b>cane yield (tons/ha)</b>	<b>HR Brix (%)</b>	<b>Brix yield (tons/ha)</b>
1	2015A1	2000V59XCoA7602	90	100	24.33	24.33
2	2015A6	Co8213GC	117.5	125	23.07	28.84
3	2015A7	Co8213GC	95	112.5	23.13	26.02
4	2015A10	CoV89101xCo7602	100	120	23.07	27.68
5	2015A11	Co8213GC	100	120	24.00	28.80
6	2015A14	Co8213GC	95	105	22.67	23.80
7	2015A21	MS6847GC	82.5	95	22.67	21.54
8	2015A25	CoT8201x70A2	112.5	125	25.00	31.25
9	2015A28	Co2000-10xCo94008	110	120	22.67	27.20
10	2015A32	CoA92081xCo94008	105	125	23.53	29.41
11	2015A37	CoV89101xISH69	100	115	24.33	27.98
12	2015A38	CoV89101xISH69	95	110	22.33	24.56
13	2015A42	CoV89101xISH69	95	105	25.17	26.43
14	2015A43	CoV89101xISH69	110	115	25.47	29.29
15	2015A45	CoV89101xISH69	105	115	26.00	29.90
16	2015A48	ISH100xCoSE92423	105	115	24.67	28.37
17	2015A51	ISH100xCoSE92423	90	100	24.33	24.33
18	2015A53	ISH100xCoSE92423	120	135	24.33	32.84
19	2015A56	CoA7602xSP80-185	110	120	24.47	29.36
20	2015A57	CoSe92423xCoC8001	100	110	24.33	26.76
21	2015A59	CoSe92423xCoC8001	110	125	25.67	32.09
22	2015A64	Co6304xCoA7602	100	110	22.33	24.56
23	2015A65	Co6304xCoA7602	110	125	24.33	30.41
24	2015A66	Co8371xCo775	100	117.5	22.67	26.64
25	2015A67	Co740xCoC671	105	135	22.93	30.95
26	2015A71	Co740xCoC671	105	125	24.67	30.84
27	2015A73	CoC90063xCo94008	105	115	25.00	28.75
28	2015A76	CoC90063xCo94008	115	125	25.00	31.25
29	2015A77	CoC90063xCo94008	115	125	25.00	31.25
30	2015A79	CoC90063xCo94008	105	120	22.33	26.80
31	2015A80	CoC90063xCo94008	120	130	23.33	30.33
32	2015A82	CoC90063xCo94008	107	130	23.67	30.77
33	2015A83	CoC90063xCo94008	110	140	24.33	34.06
34	2015A84	CoC90063xCo94008	100	110	24.67	27.14
35	2015A85	CoC90063xCo94008	110	135	24.33	32.84
36	2015A90	CoV89101xISH69	100	117.5	24.00	28.20
37	2015A93	CoV89101xISH69	110	120	25.67	30.80
38	2015A95	CoV89101xISH69	112.5	132.5	25.00	33.12
39	2015A96	CoV89101xISH69	115	130	22.00	28.60
40	2015A98	CoV89101xISH69	107.5	115	24.80	28.52
41	2015A101	CoV89101xISH69	107.5	120	23.00	27.60
42	2015A102	CoV89101xISH69	115	130	25.00	32.50
43	2015A107	Co89101xCoT8201	107.5	122.5	25.13	30.78
44	2015A108	Co89101xCoT8201	107.5	125	25.40	31.75
45	2015A109	Co89101xCoT8201	115	130	25.00	32.50
46	2015A132	Co94012PC	110	117.5	23.00	27.02

<b>S.No</b>	<b>Clone no</b>	<b>Pedigree</b>	<b>NMC (000'/ha)</b>	<b>cane yield (tons/ha)</b>	<b>HR Brix (%)</b>	<b>Brix yield (tons/ha)</b>
47	2015A136	Co94012PC	120	130	21.47	27.91
48	2015A137	Co94012PC	102.5	115	22.33	25.68
49	2015A138	Co94012PC	120	130	24.00	31.20
50	2015A142	Co94012PC	115	120	22.73	27.28
51	2015A147	Co8371PC	120	130	26.00	33.80
52	2015A152	Co8371PC	100	120	21.07	25.28
53	2015A153	Co8371PC	110	135	20.20	27.27
54	2015A156	Co200-10PC	120	135	24.33	32.84
55	2015A157	Co200-10PC	112.5	125	23.33	29.16
56	2015A183	86V46PC	115	135	25.67	34.65
57	2015A187	ISH100PC	117.5	130	24.00	31.20
58	2015A192	CoMO265PC	105	110	24.00	26.40
59	2015A199	CoT8201x70A2	125	145	23.33	33.83
60	2015A201	Co90018GC	125	135	25.67	34.57
61	2015A211	Co85002GC	110	120	23.67	28.40
62	2015A215	89V74GC	120	130	25.00	32.50
63	2015A217	89V74GC	117.5	125	22.67	28.33
64	2015A220	CoA92081GC	120	135	22.33	30.14
65	2015A222	CoA92081GC	100	110	22.00	24.20
66	2015A223	CoA92081GC	100	130	23.33	30.33
67	2015A227	CoA92081GC	95	105	23.00	24.15
68	2015A228	CoA92081GC	120	135	25.00	33.75
69	2015A230	CoA92081GC	115	125	25.00	31.25
70	2015A231	CoA92081GC	95	110	25.33	27.86
71	2015A233	CoA92081GC	115	130	22.33	29.03
72	2015A236	CoA92081GC	117.5	132.5	22.80	30.21
73	2015A264	ISH69GC	117.5	130	23.00	29.90
74	2015A275	Co98008GC	112.5	125	23.00	28.75
75	2015A279	Co98008GC	115	125	23.07	28.84
76	2015A299	Co1148GC	117.5	140	24.07	33.70
77	Co6907(C)	Co740xCo1287	100	105	23.03	24.18
78	2001A63(C)	86A146GC	105	115	22.72	26.13
79	Co7219(C)	Co449xCo658	97.5	107.5	23.17	24.91

I. Project No.	B VI Fluff supply programme P2-2017 /3 -AHD / F 30 / H10 /H20 / 0230.
II. Project Title	Evolving improved sugarcane genotypes suitable for different Agro-climatic zones of Andhra Pradesh – <b>Selection Nursery</b>
III. Serial number of year of experimentation	III
IV. Location	Regional Agricultural Research Station, Anakapalle.
V. Objective	To identify and select promising genotypes for further testing in Preliminary yield trial.
VI. Technical Programme on which the report is based	Based on the location problems and needs identified in ZREAC and SLTP meeting
VII. Discipline wise technical report	
a. Date of planting	08-04-2015
b. Varieties	111 clones selected from settling nursery of 2014-15 along with two standards, Co92081 and Co86249.
c. Fertilizer application	100 kg P <sub>2</sub> O <sub>5</sub> + 120 kg K <sub>2</sub> O/ha as basal. 112 kg Nitrogen in two equal splits at 45 DAP and 90 DAP.
d. Cultural practices	Hand weeding & Hoeing:25-05-2015 &26-05-2015 Earthing up : 22-07-2015 I tier TT propping :01-08-2015,02-08-2015 II tier TT propping : 03-09-2015,04-09-2015 III tier TT propping : 10-10-2015,11-10-2015
e. Irrigations	Once in a week during the formative phase and once in 18 days during maturity phase
f. Plant protection	Need based
g. Date of harvest	13-04-2016 & 14-04-2015
h. Plot size	5M x 0.8M x 4R = 16.0 M <sup>2</sup>
i. Layout	ARCBD
j. Replications	Non-replicated spaced planted trial
k. Total experimental area	0.50ac
l. Name and designation of the participants	1. Dr. A.Appala swamy, Principal scientist(Plant Breeding) 2. Dr.M.Charumathi,Senior scientist(Plant Breeding) 3. Dr.D.Adilakshmi, Senior scientist(Plant Breeding)

### **m. Results recorded during the previous year**

Ninty three clones along with two standards were evaluated during 2014-15 in selection nursery, out of which twenty six clones were selected based on cane yield and other quality parameters. The clones viz., 2013 A 188 (143.75 t/ha), 2013 A 29 (137.50 t/ha), 2013 A 220 (134.37 t/ha) 2013 A 212 (134.37 t/ha), 2013 A 216 (130.00 t/ha) and 2013 A 343 (130.00 t/ha) recorded higher cane yield of more than 130.00 t/ha when compared to the best standard Co 6907 (107.50 t/ha). The clone 2013 A 188 has recorded highest NMC of 121.87 thousands/ha compared to the best standard Co 7219 (105.00 //ha).

The clones 2013 A 29 (21.90 %) and 2013 A 9(21.00 %) recorded higher per cent juice sucrose of more than 21.00 %, compared to standard Co 7219 (18.19 %). The clone 2013 A 29 has recorded highest CCS yield of 21.67 t/ha compared the best standard Co 7219 (14.37 t/ha)

### **n. Results obtained during the year**

One hundred and eleven clones along with two standards were evaluated during 2015-16 in selection nursery, out of which twenty eight clones were selected based on cane yield and other quality parameters. The clones viz., 2014 A 224 (150.35 t/ha), 2014 A 48 (149.97 t/ha), 2014 A 210 (146.44 t/ha) 2014 A 89 (144.21 t/ha), 2014 A 23 (143.20 t/ha) and 2014 A 301 (143.02 t/ha) recorded higher cane yield of more than 130.00 t/ha when compared to the best standard Co A92081 (115.20t/ha). The clone 2014 A 116 has recorded highest NMC of 124.50 thousands/ha compared to the best standard Co A92081 (101.50/ha)

The clones 2014 A 210 (21.71 %) and 2014 A 54(21.25 %) recorded higher per cent juice sucrose of more than 21.00 %, compared to standard Co A92081 (20.75 %). The clone 2014 A 210 has recorded highest CCS yield (22.99 t/ha) compared the best standard Co A92081 (17.13 t/ha) (Table 6) .

### **VIII. Technical programme of the year next to the reporting year**

Seventy nine clones along with two standards, CoA92081 & CoV92102 will be studied during 2016-17

### **IX. Technical summary of the individual reporting year**

One hundred and eleven clones along with two standards were evaluated during 2015-16 in selection nursery, out of which twenty eight clones were selected based on cane yield and other quality parameters. The clones viz., 2014 A 224 (150.35 t/ha), 2014 A 48 (149.97 t/ha), 2014 A 210 (146.44 t/ha) 2014 A 89 (144.21 t/ha), 2014 A 23 (143.20 t/ha) and 2014 A 301 (143.02 t/ha) recorded higher cane yield of more than 130.00 t/ha when compared to the best standard Co A92081 (115.20t/ha). The clone 2014 A 116 has recorded highest NMC of 124.50 thousands/ha compared to the best standard Co A92081 (101.50/ha)

The clones 2014 A 210 (21.71 %) and 2014 A 54(21.25 %) recorded higher per cent juice sucrose of more than 21.00 %, compared to standard Co A92081 (20.75 %). The clone 2014 A 210 has recorded highest CCS yield of 22.99 t/ha compared the best standard Co A92081 (17.13 t/ha)

### **X. Salient findings**

One hundred and eleven clones along with two standards were evaluated during 2015-16 in selection nursery, out of which twenty eight clones were selected based on cane yield and other quality parameters. The clones viz., 2014 A 224 (150.35 t/ha), 2014 A 48 (149.97 t/ha), 2014 A 210 (146.44 t/ha) 2014 A 89 (144.21 t/ha), 2014 A 23 (143.20 t/ha) and 2014 A 301 (143.02 t/ha) recorded higher cane yield of more than 130.00 t/ha when compared to the best standard Co A92081 (115.20t/ha). The clone 2014 A 116 has recorded highest NMC of 124.50 thousands/ha compared to the best standard Co A92081 (101.50/ha)

The clones 2014 A 210 (21.71 %) and 2014 A 54(21.25 %) recorded higher per cent juice sucrose of more than 21.00 %, compared to standard Co A92081 (20.75 %). The clone 2014 A 210 has recorded highest CCS yield of 22.99 t/ha compared the best standard Co A92081 (17.13 t/ha)



**Table.6: Performance of selected clones in selection nursery 2015-16**

S. No	Clone	Pedigree	HR Brix (%) 10 <sup>th</sup> Month	HR Brix (%) 12 <sup>th</sup> Month	Brix (%) in Juice	Sucrose (%)	NMC (ooo'/ha)	Cane Yield (t/ha)	CCS yield (t/ha)
1	2014A23	Co8371 XCo775	22.9	24.1	22.5	19.02	87.5	143.21	18.43
2	2014A40	Co8371 XCo775	21.3	23.4	21.6	18.11	85	128.35	15.66
3	2014A48	CoA92081 X CoV92102	19.2	21.3	20.7	19.4	105	149.97	20.67
4	2014A54	CoA92081 X CoV92102	23.1	24.6	22.8	21.25	89	97.16	14.63
5	2014A68	CoV89101 X CoA7602	23.4	22.4	21.6	18.68	107.25	67.21	8.59
6	2014A89	Co6304 X CoA7602	19	20.8	19.5	18.23	95.5	144.21	18.65
7	2014A95	Co6304 X CoA7602	21.6	23.2	22.2	20.77	91.5	77.77	11.46
8	2014A112	Co89101 X CoT8201	21.3	22.8	20.7	18.66	87.75	61.57	8.02
9	2014A116	Co89101 X CoT8201	21.2	23.2	21.6	18.43	124.5	91.30	11.44
10	2014A122	Co89101 X CoT8201	21.2	23.7	23.1	19.05	89.5	98.30	12.51
11	2014A137	CoV89101 X ISH69	18.2	23.5	22.9	19.98	110.5	118.60	16.28
12	2014A142	CoV89101 X ISH69	21.3	24.3	23.1	20.8	88.25	131.49	19.08
13	2014A154	CoV89101 X ISH69	24	22.7	21.8	20.77	109	110.45	16.41
14	2014A155	CoV89101 X ISH69	16.2	23.5	20.4	18.56	100	80.83	10.52
15	2014A158	CoA92081 X Co94008	21	22.4	22.1	19.53	106.5	120.17	16.23
16	2014A164	ISH100 X CoJ270	17.9	23	21.7	18.65	98.87	93.9265	11.95
17	2014A186	Co1148 X ISH229	20.5	22.5	21.6	20.09	94.25	107.92	15.35
18	2014A203	ISH100 X CoS90269	17.5	21	20.3	20.84	120.5	135.16	20.77
19	2014A210	CoV89101 X CoC8001	22.4	24.2	22.2	21.71	98.5	146.44	22.99
20	2014A217	CoA93082 XCo8213	22.4	23.1	22.8	18.65	85.5	108.58	13.46
21	2014A224	CoA92081 X Bo91	20.2	22.9	21.5	18.75	120.12	150.35	19.37
22	2014A226	CoA92081 X Bo91	21.9	23.9	22.7	20.21	112	125.63	17.62
23	2014A251	Co89101 X Co97015	21.8	24.7	22.6	20.76	110.75	100.59	14.70
24	2014A271	CoT8201 X ISH229	23	22.8	21.8	18.96	91.33	121.77	15.84
25	2014A278	CoT8201 X ISH229	19.5	23.7	20.9	20.12	88	91.08	13.17
26	2014A301	ISH100 X MS6847	18.5	22.9	21.8	20.04	92.87	143.02	20.18
27	2014A312	ISH100 X MS6847	20.4	21.3	20.8	18.25	88.5	139.83	17.58
28	2014A322	ISH100 X Co09020	24.4	24.2	22.6	20.27	106.12	106.47	15.03
	Standards								
29	Co6907	Co 740 X Co 1287	18.9	21.5	20.7	20.1	95.75	91.60	13.28
30	CoA92081	Co 7704 X CoC 671	20.7	22.8	21.7	20.75	101.5	115.20	17.13
31	Co7219	Co 449 X Co 658	19.1	21.7	20.8	19.37	95	78.69	10.79

- I. Project No.** : B II Zonal Varietal Trials  
P2 – 2015 / 4 / AHD / F30 / H10 / H20 / 0230
- II. Project Title** : Initial Varietal Trial (Early)
- III. Serial number of the year of Experimentation** : IV
- IV. Location** : Regional Agricultural Research Station, Anakapalle
- V. Objective** : To screen and select high yielding and sucrose rich clones from clones poled from different centres of East Coast Zone.
- VI. Technical Programme on which the report is based** : Based on constraints identified in East Coast Zone and deliberation held in the Joint group / workshop in AICRP on Sugarcane.
- VII. Discipline wise – technical report** :
- a. Date of planting** : 14.2.2015
- b. Varieties** : Eight + Three standards  
CoA 13321, CoA 13322, CoA 13323, CoA 13324, CoC 13336, CoC 13337, CoC 13338 and CoV 13356  
Standards: Co 6907, CoC 01061, CoA 92081.
- c. Fertilizer application** : 100 kg P<sub>2</sub>O<sub>5</sub> + 120 kg K<sub>2</sub>O / ha. 112 kg N in two splits i.e. at 45 DAP and 90 DAP
- d. Cultural practices** :
- |                                 |   |                                    |
|---------------------------------|---|------------------------------------|
| Hand weeding and hoeing         | : | 5.4.2015 to 6.4.2015               |
| Inter cultivation               | : | 25.4.2015                          |
| Rectification of cross channels | : | 16.5.2015                          |
| Earthing up                     | : | 26.6.2015                          |
| Removal of flower weeds         | : | 10.8.2015, 20.9.2015, 7.10.2015    |
| I Tier TT propping              | : | 10.8.2015, 15.9.2015 and 5.10.2015 |
| II Tier TT Propping             | : | 20.9.2015, 2.10.2015               |
| III Tier TT propping            | : | 20.10.2015 to 31.10.2015           |
- e. Irrigations** : Once in a week during formative phase and once in 18 days during maturity phase.
- f. Plant protection** : Need based
- g. Date of harvest** : 08.01.2016
- h. Plot size** : Gross : 6.0 m x 0.9 m x 6 R = 32.40 m<sup>2</sup>  
Net : 5.0 m x 0.9 m x 4 R = 18.00 m<sup>2</sup>
- i. Layout** : RBD
- j. Replications** : Three
- k. Total experimental area** : 0.2 ha
- l. Name and designation of the participants** : 1. Dr. M.Charumathi, Senior Scientist (Plant Breeding)  
2. Dr.A.Appala swamy Principal Scientist (plant Breeding)  
3. Dr.D.Adilakshmi, Senior Scientist (Plant Breeding)

#### **m. Results recorded during the previous year :**

Five clones viz., CoA 12321, CoA 12322, CoA 12323, CoOr 12346, and CoV 12356 along with three standards Co 6907, CoC 01061 and CoA 92081 were studied for their performance during 2014-15. The clones differed statistically and found to be significant for all the characters studied. The best standard CoC 01061 recorded higher NMC (142.00 thousands/ha). However the clones CoA 12323 (133.00 thousands/ha) followed by CoA 12321 (124.00 thousands/ha) were found to be significantly superior over other two standards Co 6907 (100.00 thousands/ha) and CoA 92081 (105.00 thousands/ha) for NMC at harvest. Cane yield ranged from 78.00 t/ha (Co 6907) to 123.00 t/ha (CoA 12323). The clone CoA 12323 (123.00 t/ha) was found to be significantly superior over the standards, Co 6907 (78.00 t/ha), CoC 01061 (100.00 t/ha) and CoA 92081 (102.00 t/ha) for cane yield. For Per cent juice sucrose, the clone CoA 12323 (19.20) recorded higher Per cent juice sucrose and was found to be significantly superior over the three standards Co 6907 (17.00), CoC 01061 (18.63) and CoA 92081 (18.60) at harvest. CCS yield varied from 9.44 t/ha (Co 6907) to 16.84 t/ha (CoA 12323). The clone CoA 12323 (16.84 t/ha) recorded higher CCS yield and found to be significantly superior over three standards Co 6907 (9.44 t/ha), CoC 01061 (13.29 t/ha) and CoA 92081 (13.47 t/ha) for CCS yield at harvest. The standard CoA 92081 (14.04) recorded lower fibre per cent while CoA 12322 (18.67) recorded higher fibre per cent at harvest

#### **n. Results obtained during the year:**

Five clones were tested against three standards under Initial Varietal Trial (Early) crop during 2015-16. The clones differed significantly for all characters studies. Number of millable canes ranged from 102.00 thousands/ha (Co 6907) to 143.33 thousands /ha (CoA 13322). The clone CoA 13322 ( 143.33 thousands/ha) recorded significantly higher NMC when compared to their standards CoC 01061 (136.69 thousands/ha), CoA 92081 (122.63 thousands/ha) and Co6907 (102.00 thousands/ha) for NMC. Cane yield varied from 80.00 t/ha (Co 6907) to 136.87t/ha (CoA 13322). The clone CoA 13322 recorded significantly higher cane yield (136.87 t/ha) followed by CoA 13323 (133.36 t/ha) and found to be significantly superior over the three standards , Co 6907 (80.00 t/ha), CoC 01061 (107.96 t/ha) and CoA 92081 (119.34 t/ha) for cane yield. For per cent juice sucrose, the test clone CoC 13336 (18.54) followed by CoA 13324 (18.44) and CoA 13321 (18.31) recorded higher per cent juice sucrose when compared to best standard CoA 92081 (18.30). The test clone CoC 13336 (18.54) recorded higher per cent juice sucrose and found to be on par with the best standard CoA 92081 (18.30) at harvest. CCS yield ranged from 10.35 t/ha (Co 6907) to 17.94 t/ha (CoA 13322). The clone CoA 13322 (17.94 t/ha) was found to be significantly superior over three standards Co 6907 (10.35 t/ha), CoC 01061 (14.35 t/ha) and CoA 92081 (16.05t/ha) for CCS yield. The standard CoA 92081 recorded lower fibre per cent (13.89) while CoC 13337 (16.05) recorded higher fibre per cent at harvest (Table 7)

#### **VIII. Technical programme of the year next to the reporting year:**

CoA 07013, Co 13023, Co 13024, CoA 14321, CoA 14322, CoC 14336, CoV 14356 along with two standards CoC 01061 and CoA 92081 will be studied during 2016-17.

#### **IX. Technical summary of the individual reporting year:**

The test clones CoA 13322 and CoA 13323 recorded significantly higher number of millable canes, Cane yield , CCS yields. The test clone CoC 13336 recorded significantly higher per cent juice sucrose and found to be on par with the best standard CoA 92081. The standard CoA 92081 recorded lower fibre per cent while CoA 13322 recorded higher fibre per cent at harvest

#### **X. Salient findings.**

The test clones CoA 13322and CoA 13323 recorded significantly higher number of millable canes, Cane yield and CCS yield. The test clone CoC 13336 recorded significantly higher per cent juice sucrose and found to be on par with the best standard CoA 92081.

**Table 7: Initial Varietal Trial (Early)**  
**Statistically analysed data**  
**Centre: Regional Agricultural Research Station, Anakapalle**

S. No	Clone	CCS (t/ha)	Cane yield (t/ha)	CCS % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	Pol % cane (10m)	Extraction % (10 m)	Fibre % (10 m)	NMC at 10 m ('000/ha)
1	CoA 13321	16.67	123.72	13.48	19.29	21.29	90.59	14.37	65.92	15.52	132.23
2	CoA 13322	17.94	136.87	13.11	17.99	20.15	96.03	13.31	67.98	15.82	143.33
3	CoA 13323	17.73	133.36	13.30	19.12	21.31	89.71	14.34	65.01	15.00	140.70
4	CoA 13324	16.10	118.32	13.61	19.56	21.78	89.84	14.84	61.97	14.14	136.78
5	CoC 13336	15.34	115.60	13.27	19.26	21.89	87.97	14.25	64.73	15.82	131.66
6	CoC 13337	14.69	113.56	12.94	19.15	21.87	85.04	14.21	61.74	16.00	135.22
7	CoC 13338	14.89	105.67	14.09	20.09	20.9	93.51	15.17	57.83	14.49	127.34
8	CoV 13356	15.89	119.04	13.35	19.22	20.74	91.27	14.39	64.50	15.12	128.67
<b>St ds</b>											
1	Co 6907	10.35	80.00	12.93	17.46	20.18	86.52	13.27	55.33	14.00	102.00
2	CoC 01061	14.35	107.96	13.29	19.18	21.55	89.03	14.27	56.15	15.58	136.69
3	CoA 92081	16.05	119.34	13.45	19.67	22.7	86.67	14.97	50.83	13.89	122.63
	SEm±	0.20	2.13	0.19	0.35	0.35	1.35	0.20	1.51	0.21	4.21
	CD (0.05)	0.58	6.27	0.55	0.79	1.02	3.98	0.60	4.45	0.61	12.41
	CV (%)	6.20	8.19	2.45	2.46	2.99	2.59	2.47	4.28	2.38	5.58

Contd...

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	CoA 13321	330.00	3.32	1.22	12.84	18.31	20.07	91.24	137.18	173.22	70.74
2	CoA 13322	293.67	2.84	1.18	11.64	16.83	18.99	88.66	148.92	175.07	72.89
3	CoA 13323	282.67	2.92	1.14	12.26	17.68	19.82	89.19	147.41	174.74	70.37
4	CoA 13324	229.33	2.83	1.20	12.80	18.44	20.63	89.38	145.33	174.56	66.20
5	CoC 13336	252.67	2.64	1.08	12.86	18.54	20.77	89.05	139.22	161.59	68.96
6	CoC 13337	263.33	2.47	1.06	12.71	18.47	21.01	85.04	142.00	174.03	68.56
7	CoC 13338	273.89	2.80	1.12	12.55	18.14	20.46	91.03	134.33	168.11	68.97
8	CoV 13356	254.15	2.91	1.14	12.36	17.78	19.87	90.00	134.22	170.78	67.16
<b>St ds</b>											
1	Co 6907	264.33	2.38	1.12	11.76	16.98	19.09	86.52	111.56	156.00	67.33
2	CoC 01061	256.79	2.25	1.05	11.90	17.32	19.78	87.56	154.89	175.66	72.12
3	CoA 92081	275.33	3.00	1.28	12.58	18.30	20.90	86.67	135.57	166.41	73.34
	SEm±	12.39	0.11	0.04	0.19	0.27	0.31	0.96	3.84	5.65	1.96
	CD (0.05)	36.55	0.31	0.12	0.55	0.80	0.90	2.84	11.32	16.67	5.77
	CV (%)	7.94	6.62	6.04	2.45	2.46	2.49	1.88	4.78	5.76	4.85

Project No.	:	B II Zonal Varietal Trials P2 – 2015 / 5/ AHD / F30 / H10 / H20 / 0230
II. Project Title	:	Advanced Varietal Trial (Early) I Plant crop
III. Serial number of the year of Experimentation	:	V
IV. Location	:	Regional Agricultural Research Station, Anakapalle
V. Objective	:	To screen and select high yielding and sucrose rich clones from clones poled from different centres of EC Zone.
VI. Technical Programme on which the technical programme is based	:	Based on constraints identified in East Coast Zone and deliberation held in the Joint group / workshop in AICRP on Sugarcane.
VII. Discipline wise – technical report	:	
a. Date of planting	:	18.2.2015
b. Varieties	:	Five + Three stds CoA 12321, CoA 12322, CoA 12323, CoOr 12346, CoV 12356 Standards: Co 6907, Co C 01061 and Co A 92081
c. Fertilizer application	:	100 kg P <sub>2</sub> O <sub>5</sub> + 120 kg K <sub>2</sub> O / ha. 112 kg N in two splits i.e. at 45 DAP and 90 DAP
d. Cultural practices	:	Hand weeding and hoeing : 25.3.2015, 26.3.2015 Intercultivation : 29.4.2015 Ear thing up : 1.6.2015 TT propping I tier : 20.7.2015 to 23.7.2015 TT propping II tier : 23.9.2015, 23.7.2015 Removal of flower weeds : 16.8.2015, 20.8.2015, 21.8.2015, 24.8.2015 TT propping III tier : 1.12.2015, 3.12.2015
e. Irrigations	:	Once in a week during formative phase and once in 18 days during maturity phase.
f. Plant protection	:	-
g. Date of harvest	:	10.01.2016
h. Plot size	:	Gross : 6.0 m x 0.9 m x 8 R = 43.20 m <sup>2</sup> Net : 5.0 m x 0.9 m x 6 R = 27.00 m <sup>2</sup>
i. Layout	:	RBD
j. Replications	:	Three
k. Total experimental area	:	0.25 ha
l. Name and designation of the participants	:	1. Dr. M.Charumathi, Senior Scientist (Plant Breeding) 2. Dr.A.Appala swamy Principal Scientist (Plant Breeding) 3. Dr.D.Adilakshmi, Senior Scientist (Plant Breeding)

### **m. Results recorded during the previous year :**

Four clones were tested against three standards under Advanced Varietal Trial (Early) I Plant crop. During 2014 – 2015. The clones differed significantly for all characters studied. Number of millable canes ranged from 98.00 thousands/ha (CoC11336) to 136.00 thousands/ha (CoA 11321). The clone CoA 11321 (136.00 thousands/ha) recorded higher NMC and was on par with the standards CoC 01061 (130.33 thousands/ha) CoA 92081 (130.00 thousands/ha) and significantly superior over the standard Co 6907 (101.00 thousands/ha) for NMC. Cane yield varied from 79.00 t/ha (CoC 11336) to 120.00 t/ha (CoA 11321). The clone CoA 11321 recorded higher cane yield (120.00 t/ha) when compared to three standards, CoA 92081 (102.67 t/ha), CoC 010161 (101.67 t/ha), Co 6907 (80.00 t/ha) and was found to be significantly superior over the checks for cane yield. For Per cent juice sucrose, the clone CoA 11323 (18.10 per cent) was found to be significantly superior over the three checks Co 6907 (17.00), CoA 92081 (17.41) and CoC 01061 (17.72) for Per cent juice sucrose at harvest. The clone CoA 11321 registered CCS yield of 14.63 t/ha and found to be significantly superior over three standards Co 6907 (9.46 t/ha) CoC 01061 (12.65 t/ha) and CoA 92081 (12.37 t/ha) at harvest. The clone CoA 11323 recorded lower fibre per cent (14.62) while CoC 11336 recorded (17.47) higher fibre Per cent at harvest .

### **n. Results obtained during the year :**

Five clones were tested against three standards under Advanced Varietal Trial (Early) I Plant crop during 2015-16. The clones differed significantly for all characters studies. Number of millable canes ranged from 102.33 thousands/ha (CoV 12356) to 137.44 thousands /ha (CoA 12323). The clone CoA 12323 (137.44 thousands/ha) recorded significantly higher NMC when compared to their standards CoC 01061 (122.33 thousands/ha), CoA 92081 (116.11 thousands/ha) and Co 6907 (103.56 thousands/ha) for number of millable canes. Cane yield varied from 87.33 t/ha (Co 6907) to 126.79 t/ha (CoA 12323). The clone CoA 12323 recorded higher cane yield (126.79 t/ha) and found to be significantly superior over the three standards , Co 6907 (87.33 t/ha), CoC 01061 (102.33 t/ha) and CoA 92081 (108.15 t/ha) for cane yield. For per cent juice sucrose, the best standard CoA 92081 (19.96) recorded higher per cent juice sucrose when compared to test clones and other standards however, the test clone CoA 12323 (19.89) recorded higher per cent juice sucrose and found to be on par with the best standard CoA 92081 (19.96) at harvest. CCS yield ranged from 10.58 t/ha (Co 6907) to 17.60 t/ha (CoA 12323). The clone CoA 12323 (17.60 t/ha) and was found to be significantly superior over three standards Co 6907 (10.58 t/ha), CoC 01061 (13.62 t/ha) and CoA 92081 (15.01 t/ha) for CCS yield. The clone CoA 12323 recorded lower fibre per cent (13.43) while CoA 12321 (16.93) recorded higher fibre per cent at harvest (Table 8)

### **VIII. Technical programme of the year next to the reporting year:**

CoA 13322, CoA 13323, CoC 13336, CoC 13337, and CoV 13356 along with two standards viz., CoC 01061 and CoA 92081. will be studied during 2016-17.

### **I X. Technical summary of the individual reporting year:**

The clone CoA 12323 recorded significantly higher cane and sugar yield when compared to the other test clones and standard. For per cent juice sucrose the best standard CoA 92081 recorded higher per cent juice sucrose at harvest when compared to the test clones. The clone CoA 12323 recorded lower fibre per cent while CoA 12321 recorded higher fibre per cent at harvest

### **X. Salient findings.**

The clone CoA 12323 recorded significantly higher cane and sugar yield when compared to the other test clones and standard. For per cent juice sucrose the best standard CoA92081 recorded higher per cent juice sucrose at harvest when compared to the test clones and other standards

**Table 8: Advanced Varietal Trial (Early) I plant**  
**Statistically analysed data**  
**Centre: Regional Agricultural Research Station, Anakapalle**

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	CCS % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	Pol % cane (10m)	Extraction % (10 m)	Fibre % (10 m)	NMC at 10 m ('000/ha)
1	CoA 12321	15.11	114.33	13.21	19.08	21.47	88.88	13.94	65.67	16.93	128.77
2	CoA 12322	14.93	118.56	12.59	18.18	20.46	88.89	13.70	56.67	14.67	126.00
3	CoA 12323	17.60	126.79	13.88	19.89	22.00	90.39	15.22	68.67	13.43	137.44
4	CoOr 12346	13.53	108.33	12.46	17.92	19.98	89.68	13.30	61.33	15.80	122.89
5	CoV 12356	11.92	101.18	11.78	16.98	19.01	89.30	12.87	66.00	14.23	102.33
<b>Stds</b>											
1	Co 6907	10.58	87.33	12.11	17.44	19.50	89.43	13.19	61.33	14.77	103.56
2	CoC 01061	13.62	102.33	13.31	19.07	21.08	90.45	14.46	59.00	16.33	122.33
3	CoA 92081	15.01	108.15	13.88	19.96	22.12	90.23	15.13	65.33	14.22	116.11
	SEm±	0.70	4.36	0.21	0.29	0.33	0.24	0.30	1.84	0.14	4.09
	CD (0.05)	2.11	13.21	0.64	0.89	1.01	0.71	0.90	5.59	0.42	12.41
	CV (%)	8.65	7.01	2.84	2.76	2.80	0.45	3.66	5.07	1.61	5.91

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	CoA 12321	301.67	2.60	1.01	12.58	17.94	20.05	89.46	136.89	168.56	65.00
2	CoA 12322	274.00	2.80	1.01	12.13	17.48	19.58	86.93	137.44	164.78	73.33
3	CoA 12323	295.67	3.15	1.14	13.18	18.90	20.98	90.10	148.11	166.81	70.67
4	CoOr 12346	257.33	2.70	1.04	11.90	17.12	19.13	89.49	129.89	149.22	65.00
5	CoV 12356	273.67	2.63	1.03	11.14	16.09	18.11	88.84	108.44	157.44	70.33
<b>Stds</b>											
1	Co 6907	262.67	2.36	1.01	11.52	16.64	18.75	88.76	114.11	147.33	72.00
2	CoC 01061	258.67	2.42	1.00	12.40	17.88	20.04	89.22	139.78	171.89	79.61
3	CoA 92081	275.00	2.99	1.06	12.55	18.08	20.27	89.24	126.00	141.11	74.00
	SEm±	6.62	0.06	0.02	0.07	0.13	0.15	0.90	14.73	4.07	1.24
	CD (0.05)	20.06	0.13	0.04	0.22	0.40	0.45	2.72	44.68	12.33	3.75
	CV (%)	4.17	2.82	2.57	1.05	1.33	1.3	1.75	20.40	4.45	3.01



<b>I.</b>	<b>Project No.</b>	:	B II Zonal Varietal Trials P2 – 2015 / 6 / AHD / F30 / H10 / H20 / 0230
<b>II.</b>	<b>Project Title</b>	:	Advanced Varietal Trial (Early) – II Plant Crop
<b>III.</b>	<b>Serial number of the year of Experimentation</b>	:	VI
<b>IV.</b>	<b>Location</b>	:	Regional Agricultural Research Station, Anakapalle
<b>V.</b>	<b>Objective</b>	:	To screen and select high yielding and sucrose rich clones from clones poled from different centres of East Coast Zone.
<b>VI.</b>	<b>Technical Programme on which the technical programme is based</b>	:	Based on constraints identified in East Coast Zone and deliberation held in the Joint group / workshop in AICRP on Sugarcane.
<b>VII.</b>	<b>Discipline wise – technical report</b>	:	
	<b>a. Date of planting</b>	:	20.02.2015
	<b>b. Varieties</b>	:	Four + Three standards CoA 11321, CoA 11323, CoC 10336 and CoC 11336
			Standards: Co 6907, CoC 01061, CoA 92081.
	<b>c. Fertilizer application</b>	:	100 kg P <sub>2</sub> O <sub>5</sub> + 120 kg K <sub>2</sub> O / ha. 112 kg N in two splits i.e. at 45 DAP and 90 DAP
	<b>d. Cultural practices</b>	:	
			Hand weeding & Hoeing : 28.3.2015 to 30.3.2015
			Earthing up : 31.5.2015
			Inter cultivation : 4.6.2015
			Removal of flower weeds : 21.7.2015 to 22.7.2015
			TT propping I tier : 20.9.2015,24.9.2015, 1.10.2015, 3.10.2015
			TT propping II tier : 14.8.2015,16.8.2015, 18.8.2015 and 20.8.2015
			TT propping II tier : 30.11.2015,31.11.2015, 2.12.2015
	<b>e. Irrigations</b>	:	Once in a week during formative phase and once in 18 days during maturity phase.
	<b>f. Plant protection</b>	:	Need based
	<b>g. Date of harvest</b>	:	12.1.2016
	<b>h. Plot size</b>	:	Gross : 6.0 m x 0.9 m x 8 R = 43.20 m <sup>2</sup> Net : 5.0 m x 0.9 m x 6 R = 27.00 m <sup>2</sup>
	<b>i. Layout</b>	:	RBD
	<b>j. Replications</b>	:	Three
	<b>k. Total experimental area</b>	:	0.2 ha
	<b>l. Name and designation of the participants</b>	:	1. Dr. M.Charumathi, Senior Scientist (Sugarcane) 2. Dr.A.Appala Swamy, Principal Scientist (Plant Breeding) 3. Dr.D.Adilakshmi, Senior Scientist (Plant Breeding)

#### **m. Results recorded during the previous year :**

Six clones were tested against three standards under AVT (E) II plant crop during 2012 – 2013 . The clones differed significantly for all characters studied. Number of millable canes ranged from 98.33 thousands/ha (CoC 09336) to 140.00 thousands/ha (CoC 01061). The clone CoA 09321 (130.00 thousands/ha) was found to be on par with the best standard CoC 01061 (140.00 thousands/ha) but significantly superior over the two standards CoA 92081 (120.00 thousands/ha) and Co 6907(110.00 thousands/ha) for number of millable canes. Cane yield varied from 95.33 t/ha (PI09376) to 138.00 t/ha (CoA 08323). The clone CoA 08323 (138.00 t/ha) was significantly superior over two standards, Co6907 (113.67 t/ha) and CoC 01061 (107.67 t/ha) but was on par with the best standard CoA 92081 (126.67t/ha) for cane yield. Per cent juice sucrose at harvest ranged from 17.00 (PI 09376) to 18.73 (CoA 92081). The best standard CoA 92081(18.73) recorded significantly higher per cent juice sucrose when compared to test clones tested in the trial. However, the clone CoV 09356 (18.40) was found to be superior over Co 6907 (18.00) and CoC 01061 (18.10) but was on par with the best standard CoA 92081 (18.73) for per cent juice sucrose. CCS yield ranged from 11.43 t/ha (PI09376) to 17.37 t/ha (CoA08323). The clone CoA 08323 (17.37 t/ha) recorded significantly higher CCS yield where as the clones CoA 09321 (16.05) and CoC 08336 (16.00 t/ha) were found to be on par with the best standard CoA 92081 (17.19t/ha) for CCS yield tested in the trial. The clone CoC08336 has recorded higher fibre per cent (18.72) while the clone CoA 09321 (13.62) recorded lower per cent fibre (13.62) at the time of harvest.

#### **n. Results obtained during the year:**

Four clones were tested against three standards under Advanced Varietal Trial Second plant crop during 2015-16. The clones differed significantly for all characters studied. Number of millable canes ranged from 104.33 thousands/ha (CoC 11336) to 142.00 thousands /ha (CoA 11321). The clone CoA 11321 (142.00 thousands/ha) recorded higher number of millable canes when compared to CoC 01061 (136.67 thousands/ha) and was found to be on par with CoC 01061 and significantly superior over CoA 92081 (120.67 thousands/ha) and Co 6907 (104.67 thousands/ha) for number of millable canes. Cane yield varied from 98.00 t/ha (Co 6907) to 138.33 t/ha (CoA 11321). The clones CoA 11321 (138.33 t/ha) and CoA 11323 (134.67 t/ha) recorded higher cane yield and found to be significantly superior over the three standards, Co 6907 (98.00 t/ha), CoC 01061 (101.00 t/ha) and CoA 92081 (116.33 t/ha) for cane yield. For per cent juice sucrose the clones, CoA 11323 (18.60) and CoA 11321 (18.52) recorded higher per cent juice and found to be on par with the best standard CoA 92081 (18.40) at the time of harvest. CCS yield ranged from 11.76 t/ha (Co 6907) to 18.95 t/ha (CoA 11321). The clones CoA 11321 (18.95 t/ha) and CoA 11323 (18.71) recorded higher CCS yield and were found to be significantly superior over three standards Co 6907 (11.76 t/ha), CoC 01061 (12.75 t/ha) and CoA 92081 (15.88 t/ha) for CCS yield. The standard CoA 92081 recorded lower fibre per cent (13.33) while CoC 11336 (16.00) recorded higher fibre per cent at harvest (Table 9)

### **VIII. Technical programme of the year next to the reporting year:**

Five entries viz., CoA 12321, CoA 12322, CoA 12323, CoOr 12346, CoV 12356 along with two standards CoC 01061 and CoA 92081 will be studied during 2016-17.

### **IX. Technical summary of the individual reporting year:**

The clone CoA 11321 recorded significantly higher NMC, Cane and CCS yields when compared to best standard CoA 92081. For per cent juice sucrose, the clones CoA 11323 and CoA 11321 recorded higher per cent juice sucrose when compared to the best standard CoA 92081 at the time of harvest. The standard CoA 92081 recorded lower fibre per cent (13.33) while CoC 11336 (16.00) recorded higher fibre per cent at harvest

### **X. Salient findings.**

The clone CoA 11321 recorded significantly higher NMC, Cane and CCS yields when compared to best standard CoA 92081. For per cent juice sucrose, the clones CoA 11323 and CoA 11321 recorded higher per cent juice sucrose when compared to the best standard CoA 92081 at the time of harvest.

**Table 9: Advanced Varietal Trial (Early) II Plant Crop**  
**Statistically analysed data**  
**Centre: Regional Agricultural Research Station, Anakapalle**

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	CCS % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	Pol % cane (10m)	Extraction % (10 m)	Fibre % (10 m)	NMC at 10 m ('000/ha)
1	CoA 11321	18.95	138.33	13.70	18.52	20.93	88.46	13.96	62.39	14.55	142.00
2	CoA 11323	18.71	134.67	13.89	18.60	20.95	88.79	14.06	62.16	14.38	131.00
3	CoC 10336	13.81	120.33	11.48	16.62	18.83	88.27	12.35	57.33	15.68	116.33
4	CoC 11336	14.01	111.67	12.55	17.82	20.11	88.60	13.18	56.00	16.00	104.33
<b>Stds</b>											
1	Co 6907	11.76	98.00	12.00	18.00	20.10	89.46	13.68	58.77	14.00	104.67
2	CoC 01061	12.75	101.00	12.62	17.80	20.30	88.18	13.34	50.00	15.67	136.67
3	CoA 92081	15.88	116.33	13.65	18.40	20.58	89.40	14.10	62.33	13.33	120.67
	SEm±	0.54	4.66	0.12	0.19	0.16	0.46	0.15	1.46	0.38	4.86
	CD (0.05)	1.66	14.37	0.38	0.58	0.49	1.42	0.47	4.50	1.17	14.96
	CV (%)	6.41	6.89	1.72	1.81	1.37	0.90	1.94	4.34	4.45	6.91

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	CoA 11321	257.33	2.50	1.03	12.17	17.58	19.81	88.80	150.78	174.00	63.67
2	CoA 11323	251.67	3.03	1.18	12.08	17.41	19.52	89.08	139.44	150.56	64.00
3	CoC 10336	246.67	2.33	1.01	11.44	16.13	18.14	88.94	95.78	166.67	65.33
4	CoC 11336	240.33	2.11	1.00	11.88	17.09	19.08	89.58	117.56	152.55	60.83
<b>Stds</b>											
1	Co 6907	245.00	2.21	1.00	11.94	17.18	19.20	89.48	116.23	151.44	63.00
2	CoC 01061	234.00	2.50	0.99	11.85	17.05	19.04	89.56	159.22	177.22	65.48
3	CoA 92081	243.00	2.88	1.11	12.17	17.49	19.49	89.78	135.67	162.55	67.33
	SEm±	3.81	0.08	0.02	0.15	0.15	0.13	0.41	4.53	3.98	1.81
	CD (0.05)	11.73	0.26	0.06	0.46	0.45	0.40	1.27	13.95	12.26	5.59
	CV (%)	2.69	5.82	3.31	2.15	1.47	1.18	0.80	5.75	4.25	4.89

<b>I. Project No.</b>	:	B II Zonal Varietal Trials P2 – 2015 /7/ AHD / F30 / H10 / H20 / 0230
<b>II Project Title</b>	:	Advanced varietal trial (Early) – Ratoon
<b>III. Serial number of the year of Experimentation</b>	:	VII
<b>VI Location</b>	:	Regional Agricultural Research Station, Anakapalle
<b>V. Objective</b>	:	To screen and select high yielding and sucrose rich clones from clones poled from different centers of EC Zone.
<b>VI. Technical Programme on which the technical programme is based</b>	:	Based on constraints identified in East Coast Zone and deliberation held in the Joint group / workshop in AICRP on Sugarcane.
<b>VIII. Discipline wise – technical report</b>	:	
<b>a. Date of Ratoon</b>	:	28.2.2015
<b>b. Varieties</b>	:	Four + Three standards  CoA 11321, CoA 11323, CoC 10336 and CoC 11336 Standards: Co 6907, CoC 01061, CoA 92081.
<b>c. Fertilizer application</b>	:	100 kg P <sub>2</sub> O <sub>5</sub> + 120 kg K <sub>2</sub> O / ha. 112 kg N in two splits i.e. at 45 DAP and 90 DAP
<b>d. Cultural practices</b>	:	Hand weeding an Hoeing 05.4.2015 to 09.04.2015 2 <sup>nd</sup> time on 28.5.2015 Removal of flower weeds & Creepers 28.7.2015 Earthing up 22.8.2015, 23.8.2015, 25.8.2015 TT propping I tier 20.9.2015, 21.9.2015,23.9.2015 TT propping II tier 26.9.2015 to 10.10.2015 TT propping III tier 25.11.2015, 27.11.2015, 28.11.2015
<b>e. Irrigations</b>	:	Once in a week during formative phase and once in 18 days during maturity phase.
<b>f. Plant protection</b>	:	Need based
<b>g. Date of harvest</b>	:	2.1.2016
<b>h. Plot size</b>	:	Gross : 6.0 m x 1.2 m x 8 R = 57.6 m <sup>2</sup> Net : 5.0 m x 1.2 m x 6 R = 36.0 m <sup>2</sup>
<b>i. Layout</b>	:	RBD
<b>j. Replications</b>	:	Three
<b>k. Total experimental area</b>	:	0.18 ha
<b>l. Name and designation of the participants</b>	:	1. Dr. M.Charumathi, Senior Scientist (Plant Breeding) 2. Dr.A.Appala Swamy, Principal Scientist (Sugarcane) 3. Dr.D.Adilakshmi, Senior Scientist (Plant Breeding)

**m. Results recorded during the previous year :**

Six clones were tested against three standards under Advanced Varietal Trial (Early) Ratoon crop during 2012 –2013. The clones differed significantly for all characters studied. Number of millable canes ranged from 80.67 thousands/ha (CoC09336) to 111.00 thousands/ha (CoC01061).The clone CoA09321 (99.67 thousands/ha) was found to be on par with the best standard CoC 01061 (111.00 thousands/ha) but significantly superior over the standards CoA 92081 (90.00 thousands/ha) and Co 6907 (85.33 thousands/ha) for number of millable canes. Cane yield varied from 83.00 t/ha (Co 6907) to 103.67 t/ha (CoA 08323). The clone CoA 08323 (103.67 t/ha) was significantly superior over two standards CoC01061 (87.33 t/ha) and Co 6907 (83.00 t/ha) but was on par with the best standard CoA92081 (96.33 t/ha) for cane yield. Per cent juice sucrose at harvest ranged from 17.80 (CoC09336) to 19.40 (CoA 92081). The best standard CoA 92081 recorded significantly higher per cent juice sucrose (19.40) when compared to test clones tested in trial. However, the clones CoV 09356 (18.97) and CoC08336 (18.53) were found to be significantly superior over Co 6907 (18.20) and CoC 01061 (18.40) but were on par with the best standard CoA 92081 (19.40) for per cent juice sucrose. CCS yield varied from 9.86 t/ha (CoC09336) to 13.10 t/ha (CoA08323). The clones CoA 08323(13.10 t/ha) and CoA 09321 (12.94 t/ha) recorded higher CCS yield and found to be significant when compared to standards Co 6907(10.46 t/ha) and CoC 01061 (11.46 t/ha) but were on par with the best standard CoA 92081 (12.67 t/ha) for CCS yield. The clones CoV09356 (13.00) and CoC 08336 (12.34) were found to be on par with the best standard CoA 92081 (12.67 t/ha) tested in the trial for commercial cane sugar yield. The clone CoC 08336(18.00) recorded higher fibre per cent while the clone CoA 09321 (14.48) recorded lower per cent fibre recorded at the time of harvest.

**n. Results obtained during the year :**

Four clones were tested against three standards under Advanced Varietal Trial (Early) Ratoon crop during 2015-16. The clones differed significantly for all characters studied. Number of millable canes ranged from 81.00 thousands/ha (Co 6907) to 134.67 thousands /ha (CoA 11321). The clone CoA 11321 (134.67 thousands/ha) recorded significantly higher NMC when compared to their standards CoC 01061(107.75 thousands/ha), CoA 92081 (98.67 thousands/ha) and Co 6907 (81.00 thousands/ha) for NMC. Cane yield varied from 79.67 t/ha (Co 6907) to 126.33 t/ha (CoA 11321). The clones, CoA 11321 (126.33 t/ha) and CoA 11323 (123.33 t/ha) recorded higher cane yield and found to be significantly superior over the three standards , Co 6907 (79.67 t/ha), CoC 01061 (90.00 t/ha) and CoA 92081 (102.63 t/ha) for cane yield. For per cent juice sucrose, the clones, CoA 11321 (18.64) and CoA 11323 (18.80) recorded higher per cent juice sucrose when compared to standards CoA 92081 (18.12), Co 6907 (18.12) and CoC 01061 (18.00) and found to be on par with standards . CCS yield ranged from 9.86 t/ha (Co 6907) to 16.35 t/ha (CoA 11321). The clones CoA 11321 (16.35 t/ha) and CoA 11323 (16.20 t/ha) were found to be significantly superior over three standards Co 6907 (9.86 t/ha), CoC 01061 (11.17 t/ha) and CoA 92081 (12.85 t/ha) for CCS yield. The standard CoA 92081 recorded lower fibre per cent (13.68) while CoC 11336 (17.00) recorded higher fibre per cent at harvest (Table 10)

**VIII. Technical programme of the year next to the reporting year:**

Five varieties viz., CoA 12321, CoA 12322, CoA 12323, CoOr 12346, CoV 12356 along with two standards CoC 01061 and CoA 92081 will be studied during 2016-17.

**IX. Technical summary of the individual reporting year:**

The clone CoA 11321 recorded significantly higher NMC, cane and CCS yields when compared to best standard CoA 92081.For per cent juice sucrose the clone CoA 11323 recorded higher per cent juice sucrose when compared to the best standard CoA 92081 at the time of harvest. The standard CoA 92081 recorded lower fibre per cent (13.33) while CoC 11336 (16.00) recorded higher fibre per cent at harvest

**X. Salient findings.**

The clone CoA 11321 recorded significantly higher NMC, cane and CCS yields when compared to best standard CoA 92081.For per cent juice sucrose the clone CoA 11323 recorded higher per cent juice sucrose when compared to the best standard CoA 92081 at the time of harvest.

**Table 10 : Advanced Varietal Trial (Early) Ratoon Crop**  
**Statistically analysed data**  
**Centre: Regional Agricultural Research Station, Anakapalle**

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	CCS % (9 m)	Sucrose % (9 m)	Brix % (9 m)	Purity % (9 m)	Pol % cane (9m)	Extraction % (9 m)	Fibre % (9 m)	NMC at 9 m ('000/ha)
1	CoA 11321	16.35	126.33	12.94	18.64	20.83	89.35	14.07	58.78	14.50	134.67
2	CoA 11323	16.20	123.33	13.14	18.80	21.09	89.15	13.84	59.56	14.62	125.67
3	CoC 10336	12.46	107.56	11.59	16.80	19.05	88.21	12.39	54.33	16.22	100.33
4	CoC 11336	12.83	102.33	12.54		20.35	88.96	13.18	53.23	17.00	98.33
<b>Stds</b>											
1	Co 6907	9.86	79.67	12.38	18.12	20.27	89.38	13.57	55.90	15.20	81.00
2	CoC 01061	11.17	90.00	12.41	18.00	20.44	88.07	13.14	48.79	17.00	107.75
3	CoA 92081	12.85	102.63	12.52	18.12	20.47	88.54	13.83	58.27	13.68	98.67
	SEm±	0.68	3.95	0.20	0.13	0.13	0.63	0.11	0.96	0.20	5.34
	CD (0.05)	2.09	8.95	0.62	0.38	0.40	1.94	0.11	2.96	0.19	16.46
	CV (%)	10.68	6.54	2.81	1.20	1.12	1.23	1.44	3.00	2.22	8.59

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	No. of tillers ('000/ha) 180 days	No. of shoots ('000/ha) 90 days
1	CoA 11321	256.00	2.39	1.01	144.33	154.89
2	CoA 11323	240.67	2.68	1.09	137.22	157.89
3	CoC 10336	233.33	2.09	0.99	109.56	129.78
4	CoC 11336	228.67	2.05	0.99	111.00	123.67
<b>Stds</b>						
1	Co 6907	228.67	2.10	0.99	94.44	113.66
2	CoC 01061	229.33	2.35	0.97	125.67	137.67
3	CoA 92081	240.00	2.52	1.05	119.33	136.33
	SEm±	2.87	6.06	0.01	3.40	5.47
	CD (0.05)	2.10	0.20	0.03	10.48	16.86
	CV (%)	8.85	4.93	1.92	4.90	6.96

<b>I. Project No.</b>	:	B II Zonal Varietal Trials P2 – 2015 /8 AHD / F30 / H10 / H20 / 0230
<b>II. Project Title</b>	:	Initial varietal trial (Mid late)
<b>III. Serial number of the year of Experimentation</b>	:	VIII
<b>IV. Location</b>	:	Regional Agricultural Research Station, Anakapalle
<b>V. Objective</b>	:	To screen and select high yielding and sucrose rich clones from clones poled from different centres of EC Zone.
<b>VI. Technical Programme on which the technical programme is based</b>	:	Based on constraints identified in East Coast Zone and deliberation held in the Joint group / workshop in AICRP on Sugarcane.
<b>VII. Discipline wise – technical report</b>	:	
<b>a. Date of transplanting</b>	:	25.02.2015
<b>b. Varieties</b>	:	Eight + Three stds CoA 12324, CoA 13325, CoA 13326, CoA 13327, CoA 13328, CoC 13339, CoOr 13346 and CoV 12357
		Standards: CoV 92102, Co 7219 Co 86249
<b>c. Fertilizer application</b>	:	100 kg P <sub>2</sub> O <sub>5</sub> + 120 kg K <sub>2</sub> O / ha. 112 kg N in two splits i.e. at 45 DAP and 90 DAP
<b>d. Cultural practices</b>	:	
		Hand weeding& : 2.4.2015 to 6.4.2015
		Hoeing
		2 <sup>nd</sup> time : 30.04.2015
		Inter cultivation : 03.06.2015
		Earthing up : 26.07.2015 to 30.7.2015
		Removal of flower weeds : 28.8.2015 to 30.8.2015
		TT propping I tier : 21.8.2015, 22.8.2015, 24.8.2015, 25.8.2015, 26.8.2015
		TT propping II tier : 30.11.2015, 2.12.2015, 3.12.2015
<b>e. Irrigations</b>	:	Once in a week during formative phase and once in 18 days during maturity phase.
<b>f. Plant protection</b>	:	Need based
<b>g. Date of harvest</b>	:	29.01.2016
<b>h. Plot size</b>	:	Gross : 6.0 m x 0.9 m x 6 R = 32.40 m <sup>2</sup> Net : 5.0 m x 0.9 m x 4 R = 18.00 m <sup>2</sup>
<b>i. Layout</b>	:	RBD
<b>j. Replications</b>	:	Three
<b>k. Total experimental area</b>	:	0.18 ha
<b>l. Name and designation of the participants</b>	:	1. Dr. M.Charumathi, Senior Scientist (Plant Breeding) 2. Dr.A.Appala Swamy, Principal Scientist (Plant Breeding) 3. Dr.D.Adilakshmi, Senior Scientist (Plant Breeding)

**m. Results recorded during the previous year :**

Four clones along with three standards , CoV 92102, Co 7219 and Co 86249 were tested during 2013-2014 in Initial varietal trial (Midlate). Significant variation was observed for most of the characters studied in the trial. Number of millable canes varied from 109.33 thousands/ha (Co 86249) to 132.00 thousands/ha (CoA 11326). The clone CoA 11326 (132.00 thousands/ha) was found to be significantly superior over the standards Co 86249 (109.33 thousands/ha) and Co 7219 (118.00 thousands/ha) but was on par with the best standard CoV 92102 (120.00 thousands/ha) . Cane yield varied from 114.00 t/ha (Co 86249) to 137.67 t/ha (CoA 11326). The clones CoA 11326 (137.37 t/ha) followed by CoA 11325 (130.00 t/ha) recorded significantly higher cane yield when compared to standards Co 86249 (114.00 t/ha) and CoV 92102 (122.33 t/ha) but was on par with the best standard Co 7219 (125.00 t/ha). Per cent juice sucrose ranged from 18.17 (Co 86249) to 21.15 (CoV 92102). The best standard CoV 92102 (21.15) was found to be significantly superior over the test clones and other standards. The clone CoA 11325 (19.74) was found to be superior with significantly higher sugar yield when compared to standards Co 7219 (17.58 t/ha) and Co 86249 (14.11t/ha) but was on par with the best standard CoV92102 (18.72 t/ha). Fibre per cent at harvest ranged from 14.40 (CoV 92102) to 16.90 (CoOr 11346). The clone CoOr 11346 (16.90) recorded maximum fibre per cent, while the standard CoV 92102 (14.40) recorded lower fibre per cent at harvest .

**n. Results obtained during the year :**

Eight clones were tested against three standards under Initial Varietal Trial (Midlate) crop during 2015-16. The clones found to be differed significantly for all characters studied. Number of millable canes ranged from 112.44 thousands/ha (CoA 12324) to 138.31 thousands /ha (CoA 13328). The clones CoA 13328 (138.31 thousands/ha) and CoA 13327 (137.00 thousands/ha) recorded higher NMC and found significantly superior with their standards CoV 92102 (123.11 thousands/ha), Co 7219 (120.11 thousands/ha) and Co 86249 (118.67 thousands/ha) for NMC. Cane yield varied from 98.67 t/ha (CoOr 13346) to 134.78 t/ha (CoA 13328). The clones CoA 13328 (134.78 t/ha) and CoA 13327 (130.33 t/ha) recorded higher cane yield and found to be significantly superior over three standards , CoV 92012 (108.33 t/ha), Co 7219 (105.67 t/ha) and Co 86249 (100.19 t/ha) at harvest. For per cent juice sucrose, the clones CoA 13328 (18.97) and CoA 13327 (18.62) recorded higher per cent juice sucrose and found to be on par with the best standard CoV 92102 (18.60) at the time of harvest. CCS yield varied from 11.16 t/ha (Co 86249) to 17.85 t/ha (CoA 13328). The clones CoA 13328 (17.85 t/ha) and CoA 13327 (16.75 t/ha) recorded significantly higher CCS yield when compared to their standards CoV92102 (14.04 t/ha), Co 7219 (13.20 t/ha) and Co 86249 (11.17 t/ha). The standard CoV 92102 (13.20) recorded lower fibre per cent while CoA 13339 (15.10) recorded higher fibre per cent at harvest (Table 11).

**XII. Technical programme of the year next to the reporting year:**

Four entries viz., CoA 11326, CoA 12324, CoC 13339, CoOr 13346 along with two standards CoV 92102 and Co 86249 will be studied during 2016-17

**XIII. Technical summary of the individual reporting year:**

The clones, CoA 13328 and CoA 13327 recorded significantly higher number of millable canes, cane yield and CCS yield and per cent juice sucrose when compared to three standards viz., CoV 92102, Co 7219 and Co 86249. The standard CoV 92102 recorded lower fibre per cent while CoC 13339 ) recorded higher fibre per cent at harvest.

**XIV. Salient findings.**

The clone CoA 13328 and CoA 13327 recorded significantly higher number of millable canes, cane yield and CCS yield and per cent juice sucrose when compared to three standards viz., CoV 92102, Co 7219 and Co 86249.



**Table 11: Initial Varietal Trial (Midalte)**  
**Statistically analysed data**  
**Centre: Regional Agricultural Research Station, Anakapalle**

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	CCS % (12 m)	Sucrose % (12 m)	Brix % (12 m)	Purity % (12 m)	Pol % cane (12m)	Extraction % (12 m)	Fibre % (12 m)	NMC at 12 m ('000/ha)
1	CoA 12324	13.18	102.77	12.82	18.58	21.09	90.10	14.17	62.44	13.77	112.44
2	CoA 13325	14.04	114.00	12.32	18.17	21.33	90.62	13.17	63.24	14.55	128.67
3	CoA 13326	16.03	126.22	12.70	18.60	20.96	89.42	14.05	64.71	14.18	134.67
4	CoA 13327	17.85	130.33	12.85	18.62	20.97	89.25	14.12	68.26	14.18	137.00
5	CoA 13328	13.02	134.78	13.24	18.97	21.70	92.03	14.31	66.41	14.60	138.31
6	CoC 13339	13.02	103.33	12.60	18.20	20.50	90.22	13.63	65.22	15.10	124.67
7	CoOr 13346	12.55	98.67	12.72	18.38	20.72	88.68	13.78	66.04	15.01	118.04
8	CoV 12357	14.12	112.66	12.54	18.24	20.81	88.26	13.80	65.14	14.32	120.78
<b>Stds</b>											
1	CoV 92102	14.04	108.33	12.96	18.60	20.63	90.51	14.28	59.78	13.20	123.11
2	Co 7219	13.20	105.67	12.49	18.00	20.17	92.07	13.70	62.44	13.88	120.11
3	Co 86249	11.17	100.19	11.15	16.43	18.57	88.16	12.34	59.65	14.00	118.67
	SEm±	0.54	3.70	0.19	0.25	0.34	1.01	0.21	1.27	0.31	3.80
	CD (0.05)	1.58	10.92	0.56	0.73	0.99	2.98	0.61	3.76	0.91	11.21
	CV (%)	8.55	8.70	2.61	2.36	2.81	1.94	2.59	3.45	3.74	5.26

Contd...

S. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	CoA 12324	230.67	3.54	1.42	11.11	16.26	19.90	88.16	120.44	156.33	65.69
2	CoA 13325	259.33	2.80	1.25	12.07	18.71	20.64	85.23	136.67	173.33	71.67
3	CoA 13326	255.00	2.33	1.15	12.62	20.09	22.17	88.42	143.78	177.00	69.93
4	CoA 13327	268.00	2.50	1.02	12.31	17.74	19.88	88.77	145.00	184.33	67.44
5	CoA 13328	255.33	2.47	1.14	12.18	19.05	20.69	87.47	147.11	177.33	68.81
6	CoA 13339	251.67	2.43	1.03	12.29	18.29	20.28	88.77	133.33	167.67	69.00
7	CoOr 13346	241.33	2.50	1.03	12.15	17.49	19.56	88.70	128.55	179.67	61.11
8	CoV 12357	233.33	2.40	1.13	12.40	19.78	19.78	87.63	130.89	176.67	68.68
<b>Stds</b>											
1	CoV 92102	211.67	2.38	1.12	12.81	18.34	20.27	90.14	132.44	174.67	67.00
2	Co 7219	217.33	2.47	1.24	12.42	17.64	19.17	89.24	131.99	182.67	67.22
3	Co 86249	200.67	2.40	1.06	11.08	16.07	18.23	87.40	129.67	174.67	64.89
	SEm±	5.29	0.05	0.02	0.19	0.68	0.31	0.69	3.50	5.25	6.18
	CD (0.05)	15.60	0.16	0.05	0.56	2.00	0.92	2.04	10.31	15.49	8.25
	CV (%)	3.84	3.77	2.53	2.72	3.56	2.71	1.36	4.50	5.20	6.34

**ANNEXURE – I**

**Progress of fluff supply programme from 2000-01 to 2015-16 at RARS; Anapalle**

Year	Quantity of fluff received(g)	No.of crosses/GCs/PCs studied			No. of seedlings			No. of genotypes selected/evaluated in			C <sub>3</sub> PYT	No. of clones promoted to yield trials
		Crosses	GCs	PCs	Transplanted	Survived	% Survival	Seedling nursery(C <sub>0</sub> )	Settling nursery(C <sub>1</sub> )	Selection nursery (C <sub>2</sub> )		
2000-01	1,136.98	23	12	-	3,332	2,735	82.08	103	86/318	16/58	10/12	Early-5 Midlate-5
2001-02	2,804.70	47	25	7	13,711	10,226	74.58	252	20/101	20/86	8/16	Early-4 Midlate-4
2002-03	2,719.50	34	24	8	22,303	11,245	50.42	315	38/252	11/20	9/20	Early-6 Midlate-3
2003-04	1,329.00	23	21	11	11,869	7,590	63.95	131	62/315	16/38	6/11	Early-3 Midlate-3
2004-05	1698.90	24	42	5	12389	9792	79.04	175	30/131	23/62	9/16	Early-6 Midlate-3
2005-06	1136.65	29	41	-	31235	12152	38.91	317	44/175	11/30	11/23	Early-6 Midlate-5
2006-07	1177.99	39	29	-	15424	11560	74.95	220	40/317	24/44	9/11	Early-5 Midlate-4
2007-08	1313.40	46	19	-	17311	13692	79.61	520	52/220	17/40	14/24	Early-5 Midlate-9
2008-09	1744.39	49	37	10	15005	9193	61.27	472	114/520	18/52	7/17	Early-7
2009-10	1102.70	42	19	4	9588	5260	54.86	519	66/472	23/114	7/18	Early-4 Midlate-3
2010-11	1748.77	40	35	12	14337	4537	31.65	321	100/519	21/66	15/23	Early-9 Midlate-6
2011-12	1941.22	54	38	12	16228	11620	71.60	357	91/321	41/100	12/21	Early-6 Midlate-6
2012-13	1142.99	30	23	13	14213	6250	43.97	369	104/357	25/91	12/41	Early-6 Midlate-6
2013-14	2144.50	39	44	11	9403	6888	73.25	355	93/369	22/104	14/25	Early-7 Midlate-7
2014-15	2074.50	41	24	12	11,336	8539	75.33	300	115/369	26/93	12/22	Early-6 Midlate-6
2015-16	2651.00	46	56	13	10,397	7,314	70.35	760	76/300	28/111	12/23	Early-6 Midlate-6

## ANNEXURE – II

### Meteriological Data during Crop Growth Period (2015 – 16)

S.No	Month	Temp (0°C)		R.H. Per cent		Rain fall m.m	No. of Rainy days	Sun shine hours	Evaporation	Insect Pest/disease incidence
		Max	Min	Max	Min					
1	January,2015	31.2	17.2	85	44	000.2	0	07.5	03.3	Insect pests like early shoot borer and scale insect pest and mite infestation, diseases like yellow leaf disease were recorded during the crop season.
2	February,2015	33.5	17.6	87	42	000.0	0	07.9	04.6	
3	March,2015	35.7	23.2	85	45	000.0	0	07.7	05.6	
4	April,2015	35.7	25.9	82	59	087.0	4	07.1	06.1	
5	May,2015	37.6	27.7	83	53	027.6	2	07.9	06.1	
6	June,2015	33.4	26.0	88	70	279.4	15	03.2	03.7	
7	July,2015	35.3	26.5	84	57	190.2	10	04.1	04.5	
8	August,2015	34.1	25.7	87	66	306.8	10	04.8	03.8	
9	September,2015	34.1	25.7	90	69	293.0	11	03.6	03.0	
10	October,2015	35.2	24.9	87	58	026.0	4	06.3	03.7	
11	November,2015	30.9	23.3	85	57	135.0	4	05.4	03.1	
12	December,2015	31.0	24.7	92	52	000.0	0	06.4	03.2	
13	January, 16	30.5	20.9	91	48	000.0	0	06.2	03.3	
14	February, 16	33.2	23.1	91	47	000.0	0	07.2	04.4	
15	March, 2016	35.1	23.8	90	48	000.0	0	07.5	05.0	
16	April,2016	36.4	27.6	84	51	000.0	0	08.2	06.8	
17	May,2016	35.8	28.0	82	57	209.2	6	07.3	05.9	