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**Annual Report**  
**of**  
**ALL INDIA CO-ORDINATED RESEARCH**  
**PROJECT (AICRP)**  
**ON**  
**SUGARCANE**  
**DISCIPLINE : CROP IMPROVEMENT**  
**YEAR : 2016-17**



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

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## PROFORMA- I

Meteorological observations recorded at Main Sugarcane Research Station,  
NAU, Navsari from Oct. 2015 to Feb. 2017.

Sr. No.	Month	Temp. <sup>0</sup> c.		Relative humidity		Rainfall (mm)	Rainy days
		Max.	Min.	A.M.	P.M.		
1	Oct. 2015	35.6	22.9	86.3	43.0	3.0	1
2	Nov 2015	33.1	20.3	77.7	39.7	0	0
3	Dec. 2015	31.4	13.6	71.3	27.9	0	0
4	Jan. 2016	30.5	11.8	81.4	29.5	0	0
5	Feb. 2016	30.3	13.8	85.4	33.9	0	0
6	Mar. 2016	35.5	18.7	85.7	29.5	2.0	1
7	April 2016	35.6	22.1	82.4	39.9	0.0	0.0
8	May 2016	34.4	26.7	82.8	58.2	0.0	0.0
9	June 2016	33.8	27.3	84.7	71.5	91.0	3.0
10	July 2016	29.7	24.8	93.6	83.4	497.0	20.0
11	Aug. 2016	29.7	24.9	91.5	79.5	196.0	15.0
12	Sept 2016	30.1	23.6	96.6	76.9	529.0	13.0
13	Oct. 2016	32.0	20.5	90.0	58.7	96.0	5.0
14	Nov 2016	33.0	14.5	74.5	28.9	0.0	0.0
15	Dec. 2016	32.1	13.6	72.6	28.5	0.0	0.0
16	Jan. 2017	30.7	13.4	80.9	32.8	0.0	0.0
17	Feb. 2017	31.2	14.4	69.1	25.9	0.0	0.0
	<b>Total</b>					<b>1414</b>	<b>58</b>

The average maximum temperature was in October-2015 and April-2016 (35.6 °C) and minimum temperature in January-2016 (11.8 °C). The monsoon commenced in 3<sup>rd</sup> week of June-2016 and was terminated in 1<sup>st</sup> week of October-2016. The total rainfall of 1414 mm was received in 58 rainy days. The highest rainfall of 529.00 mm was received in 13 rainy days during September 2016 followed by July 2016 (497 mm) and August (196 mm). The weather condition remained favorable for sugarcane growth and normal crop was harvested due to no severe incidence of major diseases and pests.

## Peninsular zone

### 1. Initial Varietal Trial (Early)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	Pol % cane (10 m)	Fibre % (10 m)	Extraction % (10 M)	NMC ('000/ha)
1	Co 13002	12.76	98.07	13.02	18.60	20.54	90.57	14.04	14.51	55.16	92.36
2	Co 13003	14.04	117.24	11.98	18.13	20.46	80.72	13.75	14.17	57.17	109.44
3	Co 13004	16.60	128.90	12.83	18.38	20.41	90.08	13.87	14.54	61.25	115.41
4	Co N 13071	14.66	115.01	12.75	18.32	20.48	89.43	13.76	14.92	54.85	105.41
5	Co N 13072	17.86	127.24	14.02	20.23	22.81	88.72	15.36	14.10	55.07	114.16
6	CoSnk 13101	14.09	100.57	14.00	19.92	21.76	91.52	14.98	14.79	53.49	92.22
7	CoSnk 13102	13.25	109.04	12.18	17.62	19.94	88.32	13.38	14.03	60.43	98.75
8	MS 13081	15.12	116.13	13.03	18.48	20.07	92.07	14.00	14.23	53.17	102.22
<b>Stds</b>											
1	CoC 671	13.93	101.82	13.69	19.69	22.02	89.41	14.90	14.36	55.66	99.17
2	Co 94008	13.55	101.26	13.41	19.42	22.08	88.01	14.70	14.31	56.41	94.72
3	Co 85004	13.65	102.24	13.33	19.25	21.76	88.44	14.57	14.30	59.05	88.75
	SEM	0.91	6.07	0.36	0.48	0.50	0.67	0.35	0.16	2.00	4.88
	CD	2.69	17.91	1.05	1.42	1.48	1.98	1.05	0.49	NS	14.39
	CV	10.91	9.50	4.69	4.41	4.07	1.31	4.29	1.98	5.90	8.35

S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	C.C.S. % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoot at 240 days ('000/ha)	Tillering at 120 days ('000/ha)	Germination 30 days
1	Co 13002	265.83	2.60	1.08	11.79	16.87	18.66	90.42	117.63	160.70	40.00
2	Co 13003	245.87	2.69	1.12	12.77	18.01	19.31	93.28	131.44	182.07	44.74
3	Co 13004	270.52	2.59	1.31	11.49	16.33	17.80	91.73	135.65	190.85	46.03
4	Co N 13071	282.85	2.70	1.18	12.16	17.03	18.00	94.65	118.02	162.82	40.93
5	Co N 13072	282.26	2.62	1.35	12.17	17.05	18.00	94.73	130.16	188.58	45.35
6	CoSnk 13101	254.68	2.62	1.14	12.60	17.53	18.23	96.16	119.93	172.07	41.34
7	CoSnk 13102	235.90	2.61	1.06	11.68	16.53	17.86	92.60	120.57	173.43	38.96
8	MS 13081	264.65	2.47	1.35	11.55	16.38	17.79	92.15	127.47	170.10	41.98
<b>Std</b>											
1	CoC 671	258.20	2.57	1.09	12.14	17.13	18.39	93.22	126.96	177.22	43.56
2	Co 94008	234.14	2.71	1.10	12.15	17.02	17.97	94.69	119.29	159.79	41.58
3	Co 85004	241.18	2.72	1.24	12.73	17.72	18.45	96.01	113.41	158.73	42.24
	SEM	11.21	0.05	0.04	0.29	0.32	0.22	1.53	4.55	6.41	1.45
	CD	33.07	0.14	0.13	0.87	0.94	0.64	NS	13.41	18.92	4.27
	CV	7.53	3.16	6.39	4.20	3.23	2.05	2.84	6.37	6.44	5.91

## 2. Advanced Varietal Trial (Early I Plant)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	Pol % cane (10 m)	Fibre % (10 m)	Extraction % (10 M)	NMC at 10 M ('000/ha)
1	Co 11001	16.37	128.61	12.72	18.37	20.74	88.58	14.00	13.78	58.05	107.59
2	Co 11004	15.81	121.94	12.93	18.49	20.46	90.37	14.09	13.82	60.18	113.79
3	CoM 11081	13.62	118.24	11.50	17.36	21.40	81.12	13.19	14.01	56.08	105.46
4	CoM 11082	17.11	133.98	12.77	18.40	20.66	89.02	14.04	13.69	59.50	110.18
5	CoM 11081	15.01	114.07	13.17	18.63	20.12	92.62	14.12	14.21	57.19	104.07
<b>Std</b>											
1	CoC 671	14.14	106.76	13.25	18.99	21.13	89.93	14.48	13.75	56.17	94.53
2	Co 94008	13.62	101.39	13.43	18.88	20.08	94.04	14.38	13.83	58.26	94.16
3	Co 85004	13.03	104.35	12.49	18.12	20.66	87.70	13.71	14.35	55.84	97.87
	SEM	0.73	4.74	0.24	0.28	0.23	0.95	0.20	0.12	1.25	3.91
	CD	2.22	14.37	0.73	0.84	0.69	2.87	0.61	0.35	NS	11.85
	CV	8.55	7.06	3.26	2.61	1.91	1.84	2.48	1.45	3.77	6.54

S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	C.C.S. % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoot at 240 days ('000/ha)	Tillering at 120 days ('000/ha)	Germination 30 days
1	Co 11001	243.49	2.71	1.23	11.74	16.90	18.97	89.10	132.43	149.61	47.49
2	Co 11004	274.23	2.78	1.25	11.51	16.54	18.51	89.38	129.68	148.70	49.04
3	CoM 11081	230.68	2.62	1.15	12.22	17.31	18.75	92.29	117.91	138.65	43.86
4	CoM 11082	279.36	2.74	1.33	11.91	16.89	18.33	92.15	126.15	143.92	47.13
5	CoM 11081	255.44	2.60	1.08	12.14	17.38	19.27	90.19	115.80	136.59	40.74
<b>Std</b>											
1	CoC 671	263.13	2.70	1.27	11.03	16.00	18.26	87.66	109.31	129.14	43.34
2	Co 94008	264.84	2.61	1.18	12.11	17.35	19.26	90.07	106.07	126.72	43.34
3	Co 85004	263.13	2.58	1.15	11.67	16.72	18.59	89.95	110.30	129.75	44.89
	SEM	9.55	0.04	0.04	0.23	0.28	0.23	0.85	5.64	5.38	1.57
	CD	28.98	0.13	0.14	0.70	0.84	0.70	2.57	17.12	16.31	4.78
	CV	6.38	2.69	6.46	3.39	2.84	2.13	1.63	8.25	6.75	6.06

### 3. Advanced Varietal Trial (Early II Plant)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	Pol % cane (10 m)	Fibre % (10 m)	Extraction % (10 M)	NMC ('000/ha)
1	Co 10004	14.96	119.10	12.52	18.19	20.79	87.54	13.89	13.57	58.97	105.55
2	Co 10005	15.33	109.68	13.96	19.51	20.47	93.63	14.97	13.32	61.55	100.55
3	Co 10006	13.62	101.44	13.45	19.34	21.63	89.44	14.62	14.44	57.43	93.05
4	Co 10024	15.68	122.20	12.79	18.69	21.63	86.44	14.03	14.87	63.07	103.33
5	Co 10026	14.27	108.29	13.18	18.84	20.81	90.55	14.19	14.66	63.13	93.89
6	Co 10027	14.26	104.65	13.62	19.29	20.89	92.41	14.57	14.49	58.45	91.94
7	CoT 10366	14.14	105.94	13.35	18.86	20.31	92.85	14.28	14.25	55.80	89.72
8	CoT 10367	13.15	104.12	12.63	18.55	21.70	85.53	14.17	13.62	59.45	87.78
<b>Std</b>											
1	CoC 671	12.03	93.84	12.84	18.67	21.38	87.29	14.12	14.35	60.67	84.91
2	Co 94008	12.36	94.48	13.09	18.82	21.05	89.37	14.24	14.34	59.94	82.03
3	Co 85004	12.96	93.84	13.82	19.26	20.08	95.91	14.68	13.82	56.58	95.83
	SEM	0.77	5.48	0.22	0.26	0.36	1.17	0.21	0.32	1.76	3.46
	CD	2.27	16.17	0.66	0.76	1.06	3.46	0.62	0.95	NS	10.20
	CV	9.61	9.02	2.92	2.35	2.97	2.26	2.53	3.93	5.11	6.41



S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	C.C.S. % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoot at 240 days ('000/ha)	Tillering at 120 days ('000/ha)	Germination 30 days
1	Co 10004	263.48	2.51	1.24	11.57	16.64	18.61	89.40	123.60	141.19	51.05
2	Co 10005	227.29	2.62	1.25	11.72	16.96	19.24	88.21	116.22	132.52	43.18
3	Co 10006	258.31	2.48	1.20	12.12	17.31	19.12	90.57	110.90	129.81	45.04
4	Co 10024	271.23	2.65	1.32	12.51	17.80	19.50	91.33	123.31	135.77	55.68
5	Co 10026	274.85	2.76	1.23	11.89	17.28	19.77	87.40	122.13	136.59	55.68
6	Co 10027	276.40	2.68	1.18	12.42	17.46	18.59	93.98	118.88	134.15	50.59
7	CoT 10366	278.99	2.62	1.21	12.36	17.41	18.64	93.54	113.11	129.27	49.20
8	CoT 10367	258.31	2.68	1.25	12.32	17.62	19.50	90.38	117.69	131.44	49.67
<b>Std</b>											
1	CoC 671	284.16	2.72	1.35	11.60	16.93	19.54	86.64	107.94	123.04	44.57
2	Co 94008	245.39	2.68	1.16	12.95	18.11	19.04	95.19	107.65	117.08	42.72
3	Co 85004	242.80	2.51	1.02	12.22	17.33	18.84	92.03	133.06	147.97	45.50
	<b>SEM</b>	<b>11.49</b>	<b>0.03</b>	<b>0.05</b>	<b>0.27</b>	<b>0.27</b>	<b>0.27</b>	<b>1.77</b>	<b>5.00</b>	<b>4.80</b>	<b>1.43</b>
	<b>CD</b>	<b>33.90</b>	<b>0.09</b>	<b>0.16</b>	<b>0.80</b>	<b>0.80</b>	<b>0.80</b>	<b>5.21</b>	<b>14.74</b>	<b>14.16</b>	<b>4.22</b>
	<b>CV</b>	<b>7.60</b>	<b>1.99</b>	<b>7.54</b>	<b>3.88</b>	<b>2.69</b>	<b>2.45</b>	<b>3.37</b>	<b>7.35</b>	<b>6.27</b>	<b>5.12</b>

#### 4. Advanced Varietal Trial (Early-Ratoon)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (9 m)	Sucrose % (9 m)	Brix % (9 m)	Purity % (9 m)	Pol % cane (9 m)	Fibre % (9 m)	Extraction % (9 M)	NMC at 9 M ('000/ha)
1	Co 10004	12.97	111.82	11.57	16.37	17.66	92.64	12.51	13.52	60.49	109.19
2	Co 10005	11.97	107.48	11.12	16.01	17.96	89.13	12.24	13.55	57.49	104.22
3	Co 10006	11.18	105.75	10.55	15.39	17.73	86.78	11.71	13.89	57.82	102.73
4	Co 10024	11.55	109.80	10.55	15.27	17.31	88.19	11.68	13.47	61.83	107.31
5	Co 10026	13.44	114.72	11.65	16.73	18.69	89.49	12.62	14.55	57.53	107.97
6	Co 10027	12.22	105.26	11.61	16.64	18.50	89.93	12.78	13.22	59.79	101.60
7	CoT 10366	11.26	103.82	10.85	15.72	17.90	87.83	11.91	14.27	60.49	100.57
8	CoT 10367	10.35	98.70	10.46	15.46	18.28	84.54	11.70	14.30	57.50	95.89
<b>Std</b>											
1	CoC 671	10.98	91.66	11.97	16.86	18.01	93.67	12.73	14.47	59.99	89.72
2	Co 94008	9.82	89.35	11.01	16.18	18.96	85.39	12.28	14.14	55.98	89.25
3	Co 85004	11.00	97.16	11.30	16.35	18.51	88.29	12.43	13.93	57.53	99.73
	SEM	0.70	5.30	0.26	0.33	0.32	0.94	0.24	0.29	1.29	4.42
	CD	2.06	15.62	0.76	0.96	0.94	2.78	0.71	0.86	NS	13.05
	CV	10.48	8.89	3.99	3.50	3.05	1.84	3.39	3.62	3.81	7.60

S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Tillering at 120 days ('000/ha)	Tillering at 90 days ('000/ha)
1	Co 10004	259.77	2.47	1.15	128.59	125.58
2	Co 10005	256.20	2.57	1.21	124.65	121.87
3	Co 10006	239.26	2.61	1.15	121.65	118.04
4	Co 10024	274.03	2.72	1.32	133.47	124.05
5	Co 10026	273.14	2.75	1.25	131.19	125.70
6	Co 10027	249.96	2.58	1.12	119.13	114.03
7	CoT 10366	239.26	2.51	1.23	131.42	118.45
8	CoT 10367	256.20	2.62	1.14	132.84	125.23
<b>Stds</b>						
1	CoC 671	236.59	2.71	1.31	116.37	113.32
2	Co 94008	248.18	2.65	1.20	112.75	109.73
3	Co 85004	247.73	2.47	1.00	128.98	119.16
	SEM	8.22	0.04	0.05	4.60	3.54
	CD	24.24	0.12	0.14	13.58	10.45
	CV	5.63	2.76	7.03	6.35	5.13

## 5. Initial Varietal Trial (Midlate)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (12 m)	Sucrose % (12 m)	Brix % (12 m)	Purity % (12 m)	Pol % cane (12 m)	Fibre % (12 m)	Extraction % (12 M)	NMC at 12 M ('000/ha)
1	Co 13005	14.08	113.66	12.39	18.03	20.67	87.21	13.79	13.57	56.91	99.06
2	Co 13006	14.43	115.53	12.48	17.89	19.89	90.01	13.65	13.72	58.54	103.53
3	Co 13008	14.74	120.33	12.25	18.21	21.81	83.50	13.78	14.39	56.91	114.41
4	Co 13009	15.02	115.74	12.97	18.35	19.85	92.48	13.97	13.97	57.11	116.93
5	Co 13011	15.14	131.78	11.50	17.72	22.66	78.26	13.39	14.38	56.25	118.88
6	Co 13013	15.71	128.03	12.25	17.93	20.81	86.18	13.54	14.48	57.17	123.35
7	Co 13014	15.59	124.91	12.49	18.10	20.59	87.97	13.76	14.02	55.93	110.79
8	Co 13016	15.07	125.74	11.97	17.48	20.21	86.66	13.21	14.31	59.78	113.30
9	Co 13018	14.17	117.41	12.02	17.82	21.21	84.31	13.56	13.90	61.47	102.97
10	Co 13020	14.20	115.33	12.31	18.21	21.61	84.31	13.71	14.73	63.54	113.58
11	CoM 13082	15.75	128.03	12.30	18.04	21.06	85.86	13.69	14.16	59.76	113.86
12	CoN 13073	19.32	146.57	13.18	18.70	20.35	91.90	13.19	13.20	60.60	116.65
13	CoN 13074	17.40	141.99	12.25	18.16	21.62	83.99	13.71	14.50	62.65	114.41
14	CoSnk 13103	14.99	124.08	12.07	17.97	21.59	83.27	13.73	13.66	57.54	106.88
15	CoSnk 13104	15.21	123.24	12.35	17.92	20.44	87.64	13.49	14.69	60.92	106.32
16	CoSnk 13105	14.92	124.08	12.05	17.78	20.97	85.05	13.53	13.89	58.58	116.93
17	CoSnk 13106	14.04	116.58	12.04	18.13	22.24	81.56	13.58	15.08	56.84	112.46
18	CoT 13366	12.79	109.28	11.70	17.63	21.65	81.51	13.39	13.97	57.49	101.57
19	PI 13131	13.65	113.45	12.03	18.29	22.81	80.22	13.93	13.93	61.45	108.83
20	PI 13132	13.11	108.66	12.07	17.65	20.47	86.34	13.20	15.12	59.97	103.81
<b>Std</b>											
1	Co 86032	13.77	112.62	12.24	18.38	22.46	81.87	13.92	14.36	59.45	112.46
2	Co 99004	13.58	108.03	12.57	18.12	20.38	89.00	13.59	14.97	59.99	104.64
	SEM	0.94	6.70	0.25	0.21	0.64	2.59	0.17	0.34	1.49	4.90
	CD	2.76	19.59	0.72	0.60	1.86	NS	0.48	1.00	4.37	14.34
	CV	9.06	7.90	2.85	1.62	4.24	4.29	1.72	3.39	3.57	6.32

S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	C.C.S. % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	No. of shoot at 240 days ('000/ha)	Tillering at 120 days ('000/ha)	Germination 30 days
1	Co 13005	275.51	2.45	1.08	11.66	16.82	18.97	88.70	114.51	121.77	44.51
2	Co 13006	277.03	2.48	1.12	11.76	16.94	19.04	89.02	122.15	129.57	41.86
3	Co 13008	274.00	2.56	1.15	12.34	17.84	20.25	88.20	143.51	151.80	49.89
4	Co 13009	248.68	2.63	1.12	12.49	17.82	19.61	90.87	138.78	143.43	42.56
5	Co 13011	256.27	2.59	1.18	11.04	16.33	19.35	84.31	139.99	149.49	45.44
6	Co 13013	253.24	2.69	1.12	13.23	18.33	18.89	97.06	149.69	160.61	55.25
7	Co 13014	254.25	2.69	1.20	12.21	17.46	19.30	90.48	148.97	161.62	51.23
8	Co 13016	254.75	2.71	1.19	12.59	17.73	18.97	93.53	140.72	148.63	48.03
9	Co 13018	267.92	2.67	1.18	12.32	17.47	19.00	92.16	145.33	152.81	48.04
10	Co 13020	250.20	2.67	1.12	11.35	16.57	19.14	86.59	151.76	162.78	51.92
11	CoM 13082	253.24	2.74	1.20	11.75	16.75	18.43	90.89	145.33	156.13	47.24
12	CoN 13073	316.53	2.82	1.57	12.97	18.23	19.45	93.76	144.60	162.34	52.58
13	CoN 13074	305.39	2.80	1.58	13.35	18.34	18.49	99.18	145.81	160.90	54.64
14	CoSnk 13103	266.40	2.70	1.28	12.19	17.18	18.40	93.35	143.51	150.07	54.70
15	CoSnk 13104	249.69	2.67	1.17	12.39	17.47	18.74	93.27	135.26	140.54	49.92
16	CoSnk 13105	247.67	2.68	1.07	11.73	16.78	18.57	90.36	144.96	148.34	45.90
17	CoSnk 13106	263.87	2.64	1.18	12.12	17.12	18.43	92.85	144.48	161.33	44.04
18	CoT 13366	250.20	2.56	1.15	11.05	16.18	18.81	86.02	136.35	148.63	46.63
19	PI 13131	278.55	2.61	1.23	12.64	17.87	19.30	92.59	141.20	159.46	46.73
20	PI 13132	268.43	2.53	1.21	12.32	17.78	20.09	88.51	139.50	144.01	55.33
<b>Stds</b>											
1	Co 86032	247.67	2.50	1.13	11.61	16.84	19.22	87.75	142.66	152.09	47.24
2	Co 99004	276.02	2.53	1.12	10.69	16.13	19.87	81.21	135.26	144.30	46.63
	SEM	12.72	0.04	0.05	0.35	0.48	0.36	2.89	5.99	7.85	2.09
	CD	37.20	0.12	0.14	1.03	1.40	1.05	NS	17.54	22.98	6.12
	CV	6.80	2.15	5.68	4.12	3.90	2.64	4.50	6.06	7.45	6.04

## 6. Advanced Varietal Trial (Midlate I Plant)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (12 m)	Sucrose % (12 m)	Brix % (12 m)	Purity % (12 m)	Pol % cane (12 m)	Fibre % (12 m)	Extraction % (12 M)	NMC at 12 M ('000/ha)
1	Co 11005	14.71	110.55	13.31	19.07	21.18	90.08	14.64	13.25	58.30	108.11
2	Co 11007	15.15	107.96	14.04	19.59	20.50	95.58	14.85	14.21	57.02	104.47
3	Co 11012	14.28	110.92	12.88	18.17	19.48	93.29	13.72	14.48	64.37	107.27
4	Co 11019	14.48	114.63	12.64	17.94	19.52	91.93	13.73	13.47	56.88	103.63
5	CoM 11085	15.80	123.05	12.84	18.51	20.81	88.94	14.18	13.39	57.99	114.19
6	CoM 11086	17.42	126.94	13.71	19.30	20.60	93.75	14.80	13.29	63.66	118.02
<b>Std</b>											
1	Co 86032	14.19	109.16	13.00	18.52	20.33	91.12	14.21	13.27	57.74	109.42
2	Co 99004	13.14	99.63	13.16	18.70	20.40	91.73	14.15	14.35	56.88	96.90
	SEM	0.76	5.19	0.16	0.18	0.30	1.33	0.15	0.20	1.78	3.91
	CD	2.30	15.74	0.48	0.56	0.90	NS	0.47	0.62	5.40	11.85
	CV	8.81	7.97	2.08	1.69	2.51	2.49	1.87	2.58	5.21	6.28

S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	C.C.S. % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	No. of shoot at 240 days ('000/ha)	Tillering at 120 days ('000/ha)	Germination 30 days
1	Co 11005	253.19	2.52	1.17	11.78	16.71	18.18	91.95	116.03	129.05	48.68
2	Co 11007	248.13	2.57	1.15	11.47	16.32	17.85	91.42	117.69	135.71	46.37
3	Co 11012	246.44	2.53	1.17	11.27	16.16	17.98	89.90	119.28	134.52	44.51
4	Co 11019	287.48	2.62	1.25	11.16	15.98	17.73	90.16	128.90	145.66	53.77
5	CoM 11085	295.92	2.75	1.26	11.93	16.98	18.58	91.42	129.74	148.04	53.77
6	CoM 11086	289.17	2.79	1.30	11.89	17.06	18.99	89.84	133.07	153.61	53.31
<b>Stds</b>											
1	Co 86032	262.18	2.52	1.04	11.02	16.19	18.93	85.51	129.81	150.03	53.31
2	Co 99004	270.62	2.56	1.15	11.69	16.76	18.64	89.91	118.60	146.85	44.98
	SEM	11.37	0.04	0.05	0.17	0.18	0.17	0.93	4.11	5.22	1.48
	CD	34.50	0.12	0.14	0.51	0.55	0.51	2.82	12.47	15.85	4.49
	CV	7.32	2.60	6.74	2.52	1.92	1.58	1.79	5.74	6.33	5.14

## 7. Advanced Varietal Trial (Midlate II Plant)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (12 m)	Sucrose % (12 m)	Brix % (12 m)	Purity % (12 m)	Pol % cane (12 m)	Fibre % (12 m)	Extraction % (12 M)	NMC at 12 M ('000/ha)
1	Co 09009	15.95	112.31	14.18	20.12	21.85	92.09	15.29	13.97	58.07	110.89
2	Co 10015	17.26	129.25	13.35	18.90	20.43	92.56	14.38	13.91	61.70	123.71
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	14.94	109.71	13.62	19.45	21.43	90.78	14.82	13.78	59.86	110.60
5	Co 10033	15.87	107.72	14.74	20.88	22.62	92.36	15.67	14.96	57.67	110.01
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	16.35	116.69	14.00	20.28	23.05	88.02	15.27	14.71	61.63	105.74
8	CoT 10369	16.96	122.08	13.90	19.93	22.17	89.89	14.98	14.82	59.71	117.23
9	CoVC 10061	15.44	111.71	13.82	19.78	21.90	90.30	15.14	13.46	58.10	110.45
10	PI 10131	15.11	117.49	12.87	18.48	20.63	89.56	14.12	13.57	58.77	109.57
11	PI 10131	14.26	109.52	13.02	18.75	21.05	89.08	14.31	13.67	57.68	105.15
<b>Std</b>											
1	Co 86032	13.50	108.12	12.47	18.45	21.90	84.24	13.98	14.25	59.66	126.81
2	Co 99004	12.95	96.16	13.46	19.61	22.55	87.02	14.83	14.40	59.17	100.58
	SEM	0.78	4.94	0.20	0.21	0.34	1.44	0.14	0.29	1.76	4.44
	CD	2.41	15.23	0.62	0.64	1.06	NS	0.44	0.90	NS	13.69
	CV	7.15	6.16	2.10	1.50	2.23	2.27	1.36	2.88	4.20	5.58



S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	C.C.S. % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	No. of shoot at 240 days ('000/ha)	Tillering at 120 days ('000/ha)	Germination 30 days
1	Co 09009	262.12	2.47	1.06	12.46	17.93	20.09	89.22	127.06	139.68	46.53
2	Co 10015	300.18	2.55	1.21	11.88	17.04	18.94	89.97	154.62	149.73	48.78
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	273.47	2.44	1.04	11.92	17.05	18.85	90.46	141.84	145.29	46.53
5	Co 10033	259.45	2.55	1.12	12.43	17.59	19.01	92.55	149.81	174.94	45.78
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	248.76	2.65	1.08	12.60	17.95	19.69	91.19	138.84	147.92	43.52
8	CoT 10369	277.99	2.65	1.08	12.55	17.68	18.91	93.50	150.71	146.93	48.03
9	CoVC 10061	275.05	2.74	1.15	12.31	17.50	19.11	91.58	146.35	141.33	42.02
10	PI 10131	268.13	2.59	1.12	11.97	17.01	18.53	91.77	145.30	143.97	49.53
11	PI 10131	312.20	2.55	1.17	11.86	16.92	18.60	90.97	129.07	137.87	45.78
<b>Std</b>											
1	Co 86032	242.75	2.59	0.92	12.09	17.08	18.37	92.97	115.73	148.58	46.53
2	Co 99004	264.79	2.59	1.06	12.63	18.12	20.17	89.83	128.32	128.65	41.28
	SEM	12.23	0.05	0.04	0.18	0.17	0.14	1.08	6.80	6.36	1.75
	CD	37.67	0.15	0.13	0.55	0.53	0.44	3.33	20.96	19.60	5.40
	CV	6.40	2.64	5.32	2.05	1.40	1.05	1.69	6.93	6.15	5.34

## 8. Advanced Varietal Trial (Midlate-Ratoon)

S. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	C.C.S. % (11 m)	Sucrose % (11 m)	Brix % (11 m)	Purity % (11 m)	Pol % cane (11 m)	Fibre % (11 m)	Extraction % (11 M)	NMC at 11 M ('000/ha)
1	Co 09009	13.93	112.08	12.43	17.89	20.05	89.23	13.70	13.40	58.72	94.58
2	Co 10015	13.24	108.05	12.25	18.01	21.09	85.40	13.80	13.34	56.69	95.69
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	11.46	93.05	12.33	17.70	19.73	89.69	13.46	13.93	56.77	85.41
5	Co 10033	14.98	118.33	12.65	18.28	20.67	88.49	13.71	14.96	59.73	105.69
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	13.14	100.55	13.06	18.94	21.56	87.88	14.39	14.02	59.68	86.25
8	CoT 10369	12.50	90.69	13.79	19.47	20.92	93.17	14.67	14.67	58.47	79.86
9	CoVC 10061	13.37	96.94	13.77	19.56	21.32	91.78	14.64	15.17	57.21	87.91
10	PI 10131	14.71	100.41	14.65	20.88	22.92	91.08	15.92	13.73	56.72	87.64
11	PI 10131	13.87	95.41	14.51	20.46	21.94	93.53	15.48	14.31	55.38	87.64
<b>Stds</b>											
1	Co 86032	12.10	104.30	11.60	17.03	19.89	85.62	12.96	13.87	59.69	92.08
2	Co 99004	10.08	87.91	11.47	17.06	20.46	83.38	12.98	13.93	57.23	79.44
	SEM	0.76	4.71	0.29	0.24	0.45	2.32	0.19	0.38	0.89	4.42
	CD	2.34	14.51	0.90	0.74	1.38	7.16	0.59	1.19	NS	13.61
	CV	8.16	6.49	3.21	1.83	3.00	3.73	1.90	3.83	2.18	6.86

S. No.	Clone	Stalk length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Tillering at 120 days ('000/ha)	Tillering at 90 days ('000/ha)
1	Co 09009	223.42	2.51	1.10	136.33	133.01
2	Co 10015	220.92	2.56	1.06	149.37	137.76
3	Co 10017	-	-	-	-	-
4	Co 10031	238.42	2.43	1.10	146.62	140.33
5	Co 10033	285.42	2.74	1.21	169.02	151.01
6	CoM 10083	-	-	-	-	-
7	CoT 10368	266.42	2.61	1.04	144.78	137.56
8	CoT 10369	250.42	2.56	1.14	146.80	138.15
9	CoVC 10061	241.42	2.54	1.18	137.25	133.31
10	PI 10131	222.92	2.56	1.21	148.82	137.07
11	PI 10131	218.92	2.51	1.13	135.05	143.59
<b>Stds</b>						
1	Co 86032	245.92	2.46	1.01	139.64	143.59
2	Co 99004	245.42	2.61	1.06	124.77	123.92
	<b>SEM</b>	<b>11.12</b>	<b>0.05</b>	<b>0.04</b>	<b>6.36</b>	<b>3.61</b>
	<b>CD</b>	<b>34.28</b>	<b>0.16</b>	<b>0.14</b>	<b>19.60</b>	<b>11.13</b>
	<b>CV</b>	<b>6.40</b>	<b>2.87</b>	<b>5.58</b>	<b>6.27</b>	<b>3.71</b>

\*Co 10017 and CoM 10083 were deleted due to wilt and red rot. Instead of these two clone Navsari midlate CoN 13073 and CoN 13074 were included to maintain degree of freedom. The data of these two clones were not included in report but for calculating SEM, C.D. and C.V. %, it is counted.

## Particulars of crosses made for Navsari

### Station Crosses

Fluff planting date: -07/03/2017

Sr. No.	Cross No.	Female	Male	Quantity of fluff (g)	Plant Survival	
					Planted in polythene bag	Will be Planted in first week of July
1.	16	CoS 96268	NCO 310	15	-	
2.	29	CoN 05071	ISH 150	32.5	125	
3.	60	CoLk 8102	Co 1158	34.5	141	
4.	65	CoS 96268	Co 1158	11.5	-	
5.	66	CoS 96268	Co 62198	11.5	-	
6.	89	CoN 05071	Co 89029	11.5	221	
7.	90	CoS 96268	Co 87268	12.5	-	
8.	91	BO 91	Co 62198	14	-	
9.	148	Co 86002	Co 89029	15	14	
10.	149	CoS 96268	CoH 70	9.5	-	
11.	152	Co 86002	BO 91	10	62	
12.	153	BO 91	Co 62198	21.3	103	
13.	182	Co 92013	CoS 510	24	115	
14.	189	CoSnk 05-103	Co 62198	22.5	69	
15.	190	CP 52-1	CoN 05072	19	-	
16.	13	CoN 05071	NCO 310	33	-	
17.	14	CoN 05071	BO 130	23	-	
18.	17	CoS 96268	BO 130	14	15	
19.	58	Co 86002	Co 87268	22.5	425	
			<b>Total</b>	<b>356.8</b>	<b>1290</b>	

### PCs

S. No.	Females	Males	Quantity of fluff (g)	Plant Survival	
				Planted in polythene bag	Will be Planted in first week of July
1.	CoV 89101	Co 775	10	1801	
2.	CoA 7602	Co 99006	10.5	-	
3.	Co 2000-10	Co 86011	5.5	-	
4.	ISH 100	ISH 69	9	614	
5.	86 V 46	Co 94008	2.5	-	
6.	Co 85002	CoT 8201	1	41	
7.	Co 8371	CoV 92102	9	845	
8.		Co 93009		-	
		<b>Total</b>	<b>37.5</b>	<b>3301</b>	

## GCs

Sr. No.	Female	Quantity of fluff (g)	Plant Survival	
			Planted in polythene bag	Will be Planted in first week of July
1.	Co 62198	86.5		
2.	CoN 05071	19		
3.	CoN 05072	48.5		
4.	CoS 96275	31		
5.	Co 1148	7.5		
6.	CoT 8201	4		
	<b>Total</b>	<b>196.5</b>		

Crosses	Fluff Wt.	Plant Survival	
		Planted in polythene bag	Will be Planted in first week of July
<b>Station Crosses</b>	356.8	1290	
<b>Poly Crosses</b>	37.5	3301	
<b>General Crosses</b>	196.5	-	
<b>Grand Total</b>	<b>590.8</b>	<b>4591</b>	

The progress of selection under fluff supply programme is as under

Sr. No.	Year	Crosses	GC/PC	No. of seedlings	C-I	C-II	C-III
1	2017	19	8+6=14	4591	-	-	-
2	2016	13+7=20	13+10=23	8610	951	-	-
3	2015	14+14=28	13+11=24	17210	1075	280	-
4	2014	25+13=38	12+12=24	17740	1584	293+7	46+6
5	2013	20 + 13=23	41+13= 54	14521	1493	115	40+6
6	2012	16+14=30	13+18=31	23832	2411	377	50

## 1. Initial Varietal Trial (Early)

Sr. No.	Clone	CCS (t/ha)			Cane yield (t/ha)			C.C.S. % (10 m)			Sucrose % (10m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
<b>1</b>	<b>Co 13002</b>	13.59	11.24	13.44	108.30	87.74	98.17	12.55	12.81	13.69	17.87	18.33	19.60
<b>2</b>	<b>Co 13003</b>	13.92	13.74	14.45	116.40	119.14	116.17	11.96	11.54	12.44	18.19	17.45	18.75
<b>3</b>	<b>Co 13004</b>	13.85	17.31	18.64	116.42	133.72	136.57	11.90	12.94	13.65	16.99	18.73	19.42
<b>4</b>	<b>Co N 13071</b>	15.61	14.73	13.64	114.96	120.02	110.06	13.58	12.27	12.40	19.29	17.85	17.83
<b>5</b>	<b>Co N 13072</b>	15.79	18.89	18.91	116.50	130.88	134.32	13.55	14.44	14.08	19.60	20.72	20.37
<b>6</b>	<b>CoSnk 13101</b>	15.10	13.93	13.25	104.39	100.14	97.17	14.47	13.91	13.64	20.59	19.72	19.45
<b>7</b>	<b>CoSnk 13102</b>	13.01	13.47	13.27	100.44	110.75	115.93	12.95	12.16	11.44	18.63	17.66	16.55
<b>8</b>	<b>MS 13081</b>	12.41	16.03	16.94	96.46	117.83	134.08	12.86	13.60	12.63	18.24	19.21	18.00
<b>Stds</b>													
<b>1</b>	<b>CoC 671</b>	12.96	12.35	16.47	91.67	92.07	121.72	14.14	13.41	13.53	20.12	19.34	19.60
<b>2</b>	<b>Co 94008</b>	14.62	13.28	12.75	112.85	98.12	92.82	12.96	13.54	13.74	18.70	19.58	19.99
<b>3</b>	<b>Co 85004</b>	14.34	14.57	12.03	103.15	108.21	95.35	13.91	13.46	12.62	19.99	19.40	18.37
	<b>SE</b>	<b>0.91</b>			<b>6.07</b>			<b>0.36</b>			<b>0.48</b>		
	<b>CD at 5 %</b>	<b>2.69</b>			<b>17.91</b>			<b>1.05</b>			<b>1.42</b>		
	<b>CV %</b>	<b>10.91</b>			<b>9.50</b>			<b>4.69</b>			<b>4.41</b>		

Sr. No.	Clone	Brix % (10 m)			Purity % (10 m)			Pol % cane (10 m)			Fibre % (10m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 13002	19.58	20.29	21.75	91.27	90.31	90.14	13.56	13.78	14.77	14.09	14.81	14.63
2	Co 13003	22.73	21.60	23.05	80.03	80.79	81.34	13.84	13.24	14.17	13.94	14.14	14.43
3	Co 13004	18.75	21.24	21.24	90.64	88.17	91.43	12.80	14.16	14.64	14.65	14.38	14.60
4	Co N 13071	21.04	20.46	19.95	91.71	87.24	89.34	14.49	13.42	13.36	14.89	14.81	15.06
5	Co N 13072	22.20	23.10	23.10	88.29	89.70	88.18	14.87	15.71	15.50	14.18	14.20	13.92
6	CoSnk 13101	22.52	21.39	21.39	91.41	92.19	90.95	15.45	14.82	14.67	14.94	14.82	14.60
7	CoSnk 13102	20.89	20.19	18.74	89.19	87.48	88.30	14.11	13.40	12.63	14.28	14.16	13.65
8	MS 13081	19.80	20.66	19.75	92.12	92.97	91.13	13.76	14.55	13.71	14.56	14.26	13.86
<b>Stds</b>													
1	CoC 671	22.00	21.78	22.28	91.45	88.80	87.97	15.20	14.61	14.88	14.47	14.50	14.10
2	Co 94008	21.09	22.21	22.93	88.66	88.19	87.18	14.15	14.72	15.23	14.32	14.82	13.81
3	Co 85004	22.38	21.82	21.10	89.36	88.92	87.06	15.11	14.61	14.00	14.43	14.70	13.77
	<b>SE</b>	<b>0.50</b>			<b>0.67</b>			<b>0.35</b>			<b>0.16</b>		
	<b>CD at 5 %</b>	<b>1.48</b>			<b>1.98</b>			<b>1.05</b>			<b>0.49</b>		
	<b>CV %</b>	<b>4.07</b>			<b>1.31</b>			<b>4.29</b>			<b>1.98</b>		

Sr. No.	Clone	Extraction % (10 m)			NMC (*000/ha)			Stalk length (cm)			Stalk diameter (cm)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 13002	61.72	58.87	65.86	97.92	87.08	92.08	213.22	268.27	316.00	2.64	2.51	2.64
2	Co 13003	56.83	53.78	67.62	105.00	110.41	112.91	236.01	255.38	246.23	2.77	2.81	2.49
3	Co 13004	57.26	57.59	61.68	92.08	118.33	135.83	270.70	281.14	259.73	2.66	2.51	2.61
4	Co N 13071	58.87	59.46	58.37	102.92	110.41	102.92	281.91	292.35	274.28	2.71	2.62	2.77
5	Co N 13072	54.28	56.44	55.82	117.50	113.33	111.66	296.19	273.17	277.41	2.64	2.58	2.65
6	CoSnk 13101	58.37	58.49	57.04	87.08	95.83	93.75	273.81	251.91	238.31	2.57	2.67	2.62
7	CoSnk 13102	55.08	66.65	58.74	89.58	97.92	108.75	227.90	242.80	237.00	2.64	2.51	2.68
8	MS 13081	53.83	56.12	58.21	102.08	104.58	100.00	274.12	262.26	257.58	2.47	2.50	2.44
<b>Stds</b>													
1	CoC 671	57.02	62.08	59.30	97.92	94.58	105.00	260.61	253.20	260.79	2.61	2.63	2.48
2	Co 94008	60.60	56.93	53.95	102.08	95.00	87.08	221.68	234.35	246.39	2.80	2.71	2.62
3	Co 85004	56.44	57.99	61.18	89.58	92.08	84.58	227.60	236.93	259.01	2.69	2.71	2.77
	<b>SE</b>	<b>2.00</b>			<b>4.88</b>			<b>11.21</b>			<b>0.05</b>		
	<b>CD at 5 %</b>	<b>NS</b>			<b>14.39</b>			<b>33.07</b>			<b>0.14</b>		
	<b>CV %</b>	<b>5.90</b>			<b>8.35</b>			<b>7.53</b>			<b>3.16</b>		



Sr. No.	Clone	Single cane weight (kg)			C. C. S. % (8 m)			Sucrose % (8 m)			Brix % (8 m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 13002	1.02	1.06	1.15	11.64	11.80	11.93	16.76	16.77	17.07	18.79	18.28	18.90
2	Co 13003	1.12	1.08	1.15	12.77	12.76	12.79	17.92	17.95	18.15	19.01	19.15	19.76
3	Co 13004	1.41	1.36	1.15	10.37	12.00	12.10	15.12	16.87	17.01	17.45	17.90	18.04
4	Co N 13071	1.15	1.18	1.20	12.32	12.08	12.07	17.20	16.92	16.98	18.01	17.86	18.12
5	Co N 13072	1.35	1.30	1.39	11.80	12.24	12.46	16.69	17.12	17.34	18.00	17.99	18.00
6	CoSnk 13101	1.15	1.20	1.08	12.75	12.19	12.86	17.65	17.05	17.88	18.12	18.00	18.56
7	CoSnk 13102	1.02	1.08	1.09	11.69	11.08	12.25	16.52	16.02	17.05	17.77	18.12	17.68
8	MS 13081	1.22	1.38	1.45	11.07	12.19	11.38	16.01	17.12	16.02	18.12	18.13	17.11
<b>Stds</b>													
1	CoC 671	1.15	1.10	1.03	12.24	12.14	12.04	17.09	17.10	17.20	17.88	18.29	18.99
2	Co 94008	1.15	1.10	1.06	12.16	12.11	12.16	17.02	17.00	17.04	17.90	18.02	18.00
3	Co 85004	1.15	1.30	1.28	13.73	12.17	12.30	18.88	17.01	17.29	19.01	17.90	18.45
	SE	<b>0.04</b>			<b>0.29</b>			<b>0.32</b>			<b>0.22</b>		
	CD at 5 %	<b>0.13</b>			<b>0.87</b>			<b>0.94</b>			<b>0.64</b>		
	CV %	<b>6.39</b>			<b>4.20</b>			<b>3.23</b>			<b>2.05</b>		

Sr. No.	Clone	Purity % (8 m)			No. of shoots at 240 days ('000/ha)			Tillering at 120 days ('000/ha)			Germination 30 days		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 13002	89.19	91.75	90.32	114.98	123.71	114.21	152.83	158.59	170.69	38.42	40.21	41.37
2	Co 13003	94.27	93.74	91.83	133.52	131.73	129.06	171.44	189.01	185.75	46.52	42.37	45.33
3	Co 13004	86.65	94.26	94.29	126.68	143.31	136.97	178.52	198.06	195.98	48.21	46.22	43.66
4	Co N 13071	95.53	94.73	93.70	120.10	125.67	108.28	170.84	164.78	152.85	44.21	40.36	38.21
5	Co N 13072	92.70	95.16	96.33	131.36	134.83	124.28	164.03	186.34	215.37	47.41	45.44	43.21
6	CoSnk 13101	97.39	94.75	96.34	124.64	126.54	108.61	177.98	169.95	168.26	42.11	43.47	38.45
7	CoSnk 13102	92.98	88.39	96.42	111.78	118.41	131.53	167.13	172.10	181.05	40.21	38.47	38.21
8	MS 13081	88.36	94.43	93.65	120.78	125.31	136.33	169.84	159.84	180.61	40.47	42.31	43.15
<b>Stds</b>													
1	CoC 671	95.58	93.49	90.57	123.08	123.92	133.89	166.85	184.43	180.37	38.21	45.33	47.15
2	Co 94008	95.06	94.34	94.66	129.09	116.25	112.54	168.47	158.47	152.44	42.15	40.38	42.21
3	Co 85004	99.30	95.03	93.69	106.55	111.07	122.62	164.39	158.33	153.48	45.15	40.11	41.45
	SE	<b>1.53</b>			<b>4.55</b>			<b>6.41</b>			<b>1.45</b>		
	CD at 5 %	<b>NS</b>			<b>13.41</b>			<b>18.92</b>			<b>4.27</b>		
	CV %	<b>2.84</b>			<b>6.37</b>			<b>6.44</b>			<b>5.91</b>		

## 2. Advanced Varietal Trial (Early I Plant)

Sr. No.	Clone	CCS (t/ha)			Cane yield (t/ha)			C.C.S. % (10 m)			Sucrose % (10m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
<b>1</b>	<b>Co 11001</b>	14.78	17.62	16.71	116.94	135.00	133.89	12.64	13.05	12.48	18.18	18.77	18.17
<b>2</b>	<b>Co 11004</b>	17.94	15.56	13.93	130.83	121.66	113.33	13.71	12.79	12.29	19.39	18.36	17.73
<b>3</b>	<b>CoM 11081</b>	12.23	14.64	13.98	111.11	120.83	122.77	11.01	12.11	11.39	16.86	17.97	17.25
<b>4</b>	<b>CoM 11082</b>	16.26	17.61	17.46	128.33	134.72	138.89	12.67	13.07	12.57	18.29	18.78	18.12
<b>5</b>	<b>CoM 11084</b>	15.19	15.51	14.34	111.66	121.66	108.89	13.60	12.75	13.17	19.21	18.17	18.52
<b>Stds</b>													
<b>1</b>	<b>CoC 671</b>	15.86	13.19	13.38	119.44	100.55	100.27	13.28	13.12	13.35	19.18	18.69	19.11
<b>2</b>	<b>Co 94008</b>	13.91	13.72	13.22	105.83	100.55	97.78	13.14	13.64	13.52	18.53	19.23	18.87
<b>3</b>	<b>Co 85004</b>	11.96	13.34	13.81	97.78	103.33	111.94	12.23	12.91	12.33	17.93	18.61	17.83
	<b>SE</b>	<b>0.73</b>			<b>4.74</b>			<b>0.24</b>			<b>0.28</b>		
	<b>CD at 5 %</b>	<b>2.22</b>			<b>14.37</b>			<b>0.73</b>			<b>0.84</b>		
	<b>CV %</b>	<b>8.55</b>			<b>7.06</b>			<b>3.26</b>			<b>2.61</b>		

Sr. No.	Clone	Brix % (10 m)			Purity % (10 m)			Pol % cane (10 m)			Fibre % (10m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11001	20.36	20.99	20.88	89.28	89.42	87.04	13.86	14.30	13.85	13.78	13.80	13.76
2	Co 11004	20.92	20.47	19.98	92.70	89.67	88.74	14.72	14.02	13.52	14.07	13.60	13.79
3	CoM 11081	21.35	21.44	21.43	78.99	83.83	80.53	12.81	13.65	13.11	14.00	14.02	14.00
4	CoM 11082	20.63	20.98	20.39	88.67	89.52	88.87	13.96	14.28	13.87	13.65	13.97	13.45
5	CoM 11084	20.66	19.94	19.75	92.97	91.11	93.79	14.50	13.81	14.05	14.53	13.96	14.14
Stds													
1	CoC 671	21.67	20.52	21.19	88.49	91.10	90.19	14.59	14.30	14.56	13.91	13.53	13.80
2	Co 94008	19.88	20.60	19.76	93.23	93.37	95.51	14.04	14.69	14.41	14.24	13.63	13.63
3	Co 85004	20.88	20.93	20.18	85.89	88.88	88.33	13.56	14.04	13.53	14.39	14.52	14.13
	SE	0.23			0.95			0.20			0.12		
	CD at 5 %	0.69			2.87			0.61			0.35		
	CV %	1.91			1.84			2.48			1.45		

Sr. No.	Clone	Extraction % (10 m)			NMC ('000/ha)			Stalk length (cm)			Stalk diameter (cm)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11001	54.24	58.66	61.26	105.55	116.94	100.27	238.03	262.58	229.85	2.64	2.71	2.77
2	Co 11004	56.26	64.23	60.06	121.94	113.33	106.11	269.81	291.27	261.63	2.74	2.77	2.81
3	CoM 11081	53.93	56.14	58.18	100.55	106.94	108.89	222.13	244.62	225.27	2.70	2.64	2.51
4	CoM 11082	57.20	61.13	60.15	108.61	116.94	105.00	284.19	294.33	259.54	2.65	2.77	2.81
5	CoM 11084	58.55	57.06	55.96	104.44	108.89	98.89	236.95	259.44	269.94	2.64	2.67	2.51
Stds													
1	CoC 671	53.28	57.11	58.11	100.27	89.44	93.89	275.52	264.04	249.84	2.77	2.71	2.61
2	Co 94008	57.36	58.13	59.29	103.05	91.11	88.33	265.22	247.56	281.74	2.61	2.64	2.58
3	Co 85004	57.40	54.00	56.13	91.66	96.11	105.83	273.46	243.45	272.48	2.54	2.57	2.63
	SE	1.25			3.91			9.55			0.04		
	CD at 5 %	NS			11.85			28.98			0.13		
	CV %	3.77			6.54			6.38			2.69		

Sr. No.	Clone	Single cane weight (kg)			C. C. S. % (8 m)			Sucrose % (8 m)			Brix % (8 m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11001	1.15	1.25	1.28	11.35	11.77	12.09	16.36	17.08	17.27	18.40	19.48	19.04
2	Co 11004	1.11	1.30	1.33	11.96	11.02	11.54	17.13	16.02	16.48	19.02	18.34	18.17
3	CoM 11081	1.15	1.10	1.21	11.78	12.08	12.79	16.84	17.14	17.95	18.62	18.62	19.02
4	CoM 11082	1.45	1.33	1.20	12.58	11.71	11.45	17.67	16.61	16.40	18.79	18.01	18.17
5	CoM 11084	1.09	1.01	1.14	11.98	12.36	12.08	17.21	17.56	17.36	19.25	19.16	19.40
Stds													
1	CoC 671	1.32	1.22	1.28	11.06	10.87	11.16	15.95	15.82	16.25	17.97	18.15	18.66
2	Co 94008	1.15	1.18	1.21	12.51	11.81	12.01	17.83	16.99	17.22	19.57	19.04	19.15
3	Co 85004	1.10	1.15	1.21	11.85	11.74	11.41	16.97	16.88	16.33	18.82	18.88	18.09
	SE	<b>0.04</b>			<b>0.23</b>			<b>0.28</b>			<b>0.23</b>		
	CD at 5 %	<b>0.14</b>			<b>0.70</b>			<b>0.84</b>			<b>0.70</b>		
	CV %	<b>6.46</b>			<b>3.39</b>			<b>2.84</b>			<b>2.13</b>		

Sr. No.	Clone	Purity % (8 m)			No. of shoots at 240 days ('000/ha)			Tillering at 120 days ('000/ha)			Germination 30 days		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11001	88.90	87.68	90.71	126.43	137.80	133.05	140.14	151.96	156.74	45.01	47.51	49.95
2	Co 11004	90.06	87.35	90.73	128.03	136.86	124.14	146.32	156.44	143.35	46.57	51.51	49.05
3	CoM 11081	90.47	92.06	94.34	128.85	115.54	109.34	148.28	136.27	131.40	46.70	41.83	43.04
4	CoM 11082	94.03	92.18	90.22	130.20	127.05	121.22	149.01	145.51	137.24	48.62	42.53	50.26
5	CoM 11084	89.42	91.66	89.49	101.69	113.79	131.91	123.33	133.17	153.27	41.13	42.39	38.70
Stds													
1	CoC 671	88.76	87.14	87.08	123.76	104.28	99.90	138.86	126.00	122.56	42.91	45.40	41.71
2	Co 94008	91.09	89.24	89.90	108.66	110.23	99.32	128.88	133.04	118.24	40.45	45.40	44.16
3	Co 85004	90.16	89.40	90.29	100.55	117.73	112.62	124.91	136.44	127.89	46.92	44.50	43.26
	SE	<b>0.85</b>			<b>5.64</b>			<b>5.38</b>			<b>1.57</b>		
	CD at 5 %	<b>2.57</b>			<b>17.12</b>			<b>16.31</b>			<b>4.78</b>		
	CV %	<b>1.63</b>			<b>8.25</b>			<b>6.75</b>			<b>6.06</b>		

### 3. Advanced Varietal Trial (Early II Plant)

Sr. No.	Clone	CCS (t/ha)			Cane yield (t/ha)			C.C.S. % (10 m)			Sucrose % (10m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	17.22	13.80	13.87	133.23	111.03	113.04	12.93	12.42	12.21	18.41	18.15	18.01
2	Co 10005	14.45	16.57	14.95	104.74	120.53	103.78	13.72	13.78	14.38	19.16	19.61	19.74
3	Co 10006	15.24	13.37	12.26	115.57	99.47	89.28	13.19	13.48	13.70	19.16	19.36	19.50
4	Co 10024	14.65	14.89	17.50	115.85	116.63	134.13	12.56	12.75	13.05	18.57	18.74	18.75
5	Co 10026	13.06	14.09	15.65	97.40	107.10	120.37	13.35	13.18	13.00	18.87	18.92	18.73
6	Co 10027	14.35	13.23	15.21	104.71	97.52	111.73	13.68	13.57	13.61	19.15	19.43	19.30
7	CoT 10366	14.22	15.30	12.90	105.05	115.69	97.06	13.51	13.27	13.25	19.10	18.65	18.83
8	CoT 10367	14.05	11.96	13.44	111.05	97.77	103.53	12.66	12.25	13.00	18.75	18.09	18.83
Stds													
1	CoC 671	12.06	10.82	13.21	91.87	88.43	101.23	13.14	12.27	13.11	19.06	18.03	18.91
2	Co 94008	14.01	11.90	11.19	100.01	95.17	88.27	14.07	12.54	12.66	19.91	18.24	18.31
3	Co 85004	13.55	11.74	13.61	94.68	89.84	97.01	14.33	13.07	14.06	19.98	18.20	19.58
	SE	0.77			5.48			0.22			0.26		
	CD at 5 %	2.27			16.17			0.66			0.76		
	CV %	9.61			9.02			2.92			2.35		

Sr. No.	Clone	Brix % (10 m)			Purity % (10 m)			Pol % cane (10 m)			Fibre % (10m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	20.14	21.06	21.17	91.41	86.16	85.05	14.06	13.85	13.76	13.59	13.58	13.55
2	Co 10005	19.99	21.55	19.87	95.86	91.01	94.00	14.81	14.99	15.11	12.82	13.64	13.50
3	Co 10006	21.82	21.70	21.35	87.80	89.19	91.32	14.56	14.53	14.76	14.06	14.96	14.32
4	Co 10024	21.92	22.02	20.96	84.74	85.11	89.45	14.03	14.00	14.07	14.44	15.26	14.90
5	Co 10026	20.27	21.16	21.01	93.08	89.38	89.17	14.14	14.42	14.01	15.07	13.69	15.21
6	Co 10027	20.13	21.62	20.92	95.12	89.83	92.28	14.47	14.77	14.48	14.53	13.92	15.02
7	CoT 10366	20.53	19.90	20.51	93.01	93.72	91.81	14.37	14.19	14.29	14.78	13.85	14.11
8	CoT 10367	22.24	21.42	21.43	84.30	84.42	87.88	14.29	13.72	14.50	13.77	14.13	12.96
<b>Stds</b>													
1	CoC 671	21.69	21.14	21.32	87.88	85.27	88.72	14.46	13.55	14.35	14.09	14.90	14.05
2	Co 94008	21.52	20.95	20.68	92.49	87.07	88.55	15.11	13.70	13.90	13.96	14.93	14.12
3	Co 85004	20.87	18.97	20.40	95.77	95.97	95.99	15.37	13.89	14.78	13.03	13.85	14.57
	<b>SE</b>	<b>0.36</b>			<b>1.17</b>			<b>0.21</b>			<b>0.32</b>		
	<b>CD at 5 %</b>	<b>1.06</b>			<b>3.46</b>			<b>0.62</b>			<b>0.95</b>		
	<b>CV %</b>	<b>2.97</b>			<b>2.26</b>			<b>2.53</b>			<b>3.93</b>		

Sr. No.	Clone	Extraction % (10 m)			NMC ('000/ha)			Stalk length (cm)			Stalk diameter (cm)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	57.60	58.19	61.14	111.11	100.00	105.55	289.30	231.53	269.60	2.42	2.48	2.64
2	Co 10005	64.39	59.29	60.97	94.44	105.55	101.66	228.79	200.21	252.88	2.64	2.67	2.55
3	Co 10006	57.47	58.33	56.48	100.00	92.50	86.66	259.80	275.03	240.10	2.48	2.51	2.45
4	Co 10024	65.24	63.76	60.22	100.00	101.66	108.33	245.96	290.39	277.36	2.61	2.64	2.71
5	Co 10026	65.30	66.10	58.00	86.66	91.66	103.33	260.77	276.00	287.79	2.77	2.80	2.71
6	Co 10027	61.39	55.19	58.77	91.66	83.33	100.83	260.86	276.09	292.26	2.65	2.68	2.71
7	CoT 10366	59.36	54.87	53.18	95.00	90.83	83.33	246.41	290.84	299.71	2.62	2.58	2.65
8	CoT 10367	56.49	58.24	63.63	92.50	83.33	87.50	274.40	260.43	240.10	2.68	2.71	2.65
<b>Stds</b>													
1	CoC 671	57.00	64.47	60.53	83.33	79.72	91.66	290.52	269.24	292.71	2.65	2.74	2.77
2	Co 94008	58.91	58.07	62.86	87.50	80.55	78.05	244.44	230.47	261.24	2.65	2.68	2.71
3	Co 85004	55.24	57.06	57.44	100.00	91.66	95.83	244.29	230.32	253.79	2.51	2.54	2.48
	<b>SE</b>	<b>1.76</b>			<b>3.46</b>			<b>11.49</b>			<b>0.03</b>		
	<b>CD at 5 %</b>	<b>NS</b>			<b>10.20</b>			<b>33.90</b>			<b>0.09</b>		
	<b>CV %</b>	<b>5.11</b>			<b>6.41</b>			<b>7.60</b>			<b>1.99</b>		



Sr. No.	Clone	Single cane weight (kg)			C. C. S. % (8 m)			Sucrose % (8 m)			Brix % (8 m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	1.11	1.39	1.22	11.46	11.70	11.56	16.57	16.73	16.62	18.76	18.49	18.59
2	Co 10005	1.16	1.28	1.31	11.72	11.66	11.79	16.80	16.98	17.10	18.68	19.53	19.50
3	Co 10006	1.13	1.21	1.27	11.98	12.19	12.17	17.02	17.47	17.45	18.56	19.41	19.40
4	Co 10024	1.35	1.41	1.19	12.48	12.65	12.38	17.69	17.95	17.77	19.16	19.52	19.81
5	Co 10026	1.32	1.20	1.15	11.85	11.52	12.30	17.09	16.99	17.76	19.24	20.03	20.05
6	Co 10027	1.27	1.11	1.18	12.06	12.29	12.90	17.27	17.20	17.91	19.14	18.11	18.52
7	CoT 10366	1.23	1.25	1.15	12.13	12.88	12.07	17.36	17.75	17.13	19.24	18.04	18.62
8	CoT 10367	1.36	1.16	1.23	12.27	12.54	12.14	17.62	17.93	17.32	19.65	19.82	19.03
<b>Stds</b>													
1	CoC 671	1.11	1.39	1.22	11.17	12.09	11.54	16.33	17.54	16.91	18.92	20.00	19.68
2	Co 94008	1.16	1.28	1.31	12.91	13.03	12.92	18.05	18.02	18.26	18.95	18.46	19.70
3	Co 85004	1.13	1.21	1.27	11.88	11.14	13.63	17.04	16.26	18.70	18.97	18.80	18.74
	SE	<b>0.05</b>			<b>0.27</b>			<b>0.27</b>			<b>0.27</b>		
	CD at 5 %	<b>0.16</b>			<b>0.80</b>			<b>0.80</b>			<b>0.80</b>		
	CV %	<b>7.54</b>			<b>3.88</b>			<b>2.69</b>			<b>2.45</b>		

Sr. No.	Clone	Purity % (8 m)			No. of shoots at 240 days ('000/ha)			Tillering at 120 days ('000/ha)			Germination 30 days		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	88.32	90.46	89.40	111.88	118.88	140.06	130.12	134.92	158.53	51.79	49.56	51.80
2	Co 10005	89.97	86.94	87.71	123.05	109.80	115.80	134.51	126.89	136.16	42.22	42.90	44.42
3	Co 10006	91.74	90.02	89.97	114.69	99.42	118.58	125.43	135.01	128.99	46.75	45.24	43.11
4	Co 10024	92.31	92.00	89.69	120.02	133.09	116.82	126.30	145.43	135.59	55.45	58.32	53.27
5	Co 10026	88.79	84.82	88.59	132.33	118.07	115.98	145.27	130.96	133.54	56.18	53.21	57.65
6	Co 10027	90.24	95.00	96.69	127.73	119.55	109.35	143.78	134.25	124.41	53.03	50.07	48.67
7	CoT 10366	90.20	98.42	91.99	114.38	116.31	108.65	129.35	132.24	126.22	51.64	50.13	45.82
8	CoT 10367	89.65	90.47	91.01	112.72	119.71	120.65	127.06	132.82	134.44	54.78	45.98	48.23
<b>Stds</b>													
1	CoC 671	86.30	87.69	85.92	109.04	113.00	101.79	123.76	126.65	118.72	47.99	43.56	42.16
2	Co 94008	95.22	97.62	92.72	104.02	102.92	116.01	122.89	118.14	110.21	41.27	41.95	44.93
3	Co 85004	89.84	86.52	99.74	130.78	127.66	140.74	148.05	138.51	157.34	43.32	45.46	47.71
	SE	1.77			5.00			4.80			1.43		
	CD at 5 %	5.21			14.74			14.16			4.22		
	CV %	3.37			7.35			6.27			5.12		

#### 4. Advanced Varietal Trial (Early I Plant) Ratoon

Sr. No.	Clone	CCS (t/ha)			Cane yield (t/ha)			C.C.S. % (9 m)			Sucrose % (9 m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	12.13	14.29	12.49	109.21	119.00	107.26	11.09	12.00	11.62	15.79	16.87	16.44
2	Co 10005	11.68	13.00	11.23	105.93	111.47	105.05	11.02	11.67	10.67	15.89	16.78	15.36
3	Co 10006	9.67	11.60	12.28	96.21	107.87	113.16	10.04	10.76	10.86	14.85	15.62	15.70
4	Co 10024	12.84	11.90	9.91	127.41	110.06	91.93	10.10	10.81	10.75	14.69	15.57	15.55
5	Co 10026	11.14	15.60	13.56	103.05	129.08	112.02	10.77	12.09	12.09	15.68	17.31	17.21
6	Co 10027	12.44	11.69	12.53	103.36	101.71	110.73	12.04	11.47	11.31	17.21	16.48	16.24
7	CoT 10366	10.43	11.17	12.17	95.26	105.85	110.35	10.95	10.55	11.04	15.84	15.43	15.90
8	CoT 10367	9.33	9.57	12.15	94.84	93.99	107.27	9.85	10.18	11.36	14.88	14.93	16.56
<b>Stds</b>													
1	CoC 671	9.95	12.18	10.80	83.63	99.55	91.80	11.90	12.26	11.76	16.54	17.37	16.67
2	Co 94008	9.94	8.91	10.61	91.43	80.73	95.87	10.90	11.04	11.09	16.07	16.31	16.17
3	Co 85004	9.98	10.67	12.34	90.20	97.33	103.96	11.07	10.96	11.89	16.10	15.86	17.07
	<b>SE</b>	<b>0.70</b>			<b>5.30</b>			<b>0.26</b>			<b>0.33</b>		
	<b>CD at 5 %</b>	<b>2.06</b>			<b>15.62</b>			<b>0.76</b>			<b>0.96</b>		
	<b>CV %</b>	<b>10.48</b>			<b>8.89</b>			<b>3.99</b>			<b>3.50</b>		

Sr. No.	Clone	Brix % (9 m)			Purity % (9 m)			Pol % cane (9 m)			Fibre % (9 m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	17.32	17.93	17.74	91.20	94.08	92.66	12.17	12.84	12.53	12.97	13.86	13.74
2	Co 10005	17.87	18.78	17.23	88.90	89.33	89.16	12.10	12.91	11.72	13.86	13.08	13.70
3	Co 10006	17.62	17.82	17.76	84.29	87.65	88.41	11.40	11.87	11.87	13.23	14.01	14.41
4	Co 10024	16.83	17.48	17.61	87.25	89.06	88.27	11.29	11.85	11.91	13.15	13.88	13.39
5	Co 10026	18.00	19.22	18.86	87.12	90.08	91.26	11.86	12.97	13.04	14.35	15.06	14.25
6	Co 10027	19.01	18.39	18.11	90.49	89.61	89.68	13.25	12.67	12.41	12.98	13.10	13.58
7	CoT 10366	17.96	17.87	17.88	88.18	86.34	88.96	11.88	11.79	12.05	14.97	13.59	14.24
8	CoT 10367	18.37	17.40	19.08	81.02	85.81	86.80	11.27	11.40	12.42	14.26	13.65	15.00
<b>Stds</b>													
1	CoC 671	17.14	18.84	18.07	96.53	92.23	92.25	12.56	13.13	12.52	14.05	14.45	14.92
2	Co 94008	18.94	19.31	18.62	84.87	84.46	86.84	12.32	12.25	12.27	13.37	14.93	14.11
3	Co 85004	18.47	17.99	19.07	87.17	88.16	89.53	12.33	12.03	12.93	13.42	14.11	14.26
	<b>SE</b>	<b>0.32</b>			<b>0.94</b>			<b>0.24</b>			<b>0.29</b>		
	<b>CD at 5 %</b>	<b>0.94</b>			<b>2.78</b>			<b>0.71</b>			<b>0.86</b>		
	<b>CV %</b>	<b>3.05</b>			<b>1.84</b>			<b>3.39</b>			<b>3.62</b>		

Sr. No.	Clone	Extraction % (9 m)			NMC at 9 m (*000/ha)			Stalk length (cm)			Stalk diameter (cm)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	56.21	62.11	63.15	107.14	119.18	101.23	248.03	259.89	271.39	2.42	2.48	2.51
2	Co 10005	56.24	58.61	57.63	105.02	111.14	96.52	272.27	245.31	251.02	2.54	2.57	2.61
3	Co 10006	54.21	58.14	61.11	93.28	104.58	110.32	227.80	238.83	251.16	2.54	2.61	2.67
4	Co 10024	62.14	60.21	63.14	113.29	109.41	99.24	275.79	285.17	261.15	2.71	2.67	2.77
5	Co 10026	58.14	56.21	58.23	100.50	114.76	108.65	250.66	279.87	288.89	2.81	2.74	2.71
6	Co 10027	56.11	61.11	62.14	102.15	94.58	108.08	233.54	251.18	265.16	2.64	2.58	2.51
7	CoT 10366	58.21	61.14	62.12	89.53	104.90	107.30	227.80	238.83	251.16	2.42	2.51	2.61
8	CoT 10367	56.14	58.21	58.14	94.71	88.62	104.35	264.01	253.57	251.02	2.61	2.77	2.48
<b>Stds</b>													
1	CoC 671	61.14	60.24	58.59	81.88	95.39	91.88	235.04	227.90	246.83	2.64	2.71	2.77
2	Co 94008	57.56	54.14	56.23	93.13	79.63	94.99	232.86	240.59	271.09	2.61	2.64	2.71
3	Co 85004	58.21	60.15	54.23	97.20	98.13	103.87	249.21	266.85	227.13	2.48	2.42	2.51
	SE	<b>1.29</b>			<b>4.42</b>			<b>8.22</b>			<b>0.04</b>		
	CD at 5 %	<b>NS</b>			<b>13.05</b>			<b>24.24</b>			<b>0.12</b>		
	CV %	<b>3.81</b>			<b>7.60</b>			<b>5.63</b>			<b>2.76</b>		

Sr. No.	Clone	Single cane weight (kg)			Tillering at 120 days ('000/ha)			Tillering at 90 days ('000/ha)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	1.15	1.12	1.19	127.33	136.89	121.53	120.80	135.30	120.65
2	Co 10005	1.14	1.18	1.32	131.94	122.27	119.73	124.78	120.58	120.24
3	Co 10006	1.23	1.07	1.15	129.80	113.72	121.44	128.29	108.96	116.87
4	Co 10024	1.23	1.42	1.30	135.21	139.96	125.24	127.97	122.67	121.50
5	Co 10026	1.27	1.15	1.33	124.80	135.97	132.79	119.36	130.01	127.74
6	Co 10027	1.16	1.05	1.14	132.30	114.62	110.47	124.46	111.74	105.89
7	CoT 10366	1.26	1.32	1.12	124.72	129.47	140.08	118.43	121.93	114.99
8	CoT 10367	1.15	1.23	1.06	137.36	133.78	127.39	130.07	126.42	119.20
<b>Stds</b>										
1	CoC 671	1.21	1.40	1.31	123.66	115.60	109.85	116.88	112.13	110.96
2	Co 94008	1.14	1.21	1.25	102.52	115.28	120.44	104.03	114.40	110.76
3	Co 85004	1.06	0.99	0.95	120.78	133.55	132.61	112.54	124.84	120.09
	<b>SE</b>	<b>0.05</b>			<b>4.60</b>			<b>3.54</b>		
	<b>CD at 5 %</b>	<b>0.14</b>			<b>13.58</b>			<b>10.45</b>		
	<b>CV %</b>	<b>7.03</b>			<b>6.35</b>			<b>5.13</b>		

## 5. Initial Varietal Trial (Midlate)

Sr. No.	Clone	CCS (t/ha)		Cane yield (t/ha)		C.C.S. % (12 m)		Sucrose % (12m)		Brix % (12 m)	
		RI	RII	RI	RII	RI	RI	RI	RII	RI	RII
1	Co 13005	13.80	14.37	110.90	116.41	12.44	12.34	18.02	18.04	20.47	20.88
2	Co 13006	13.86	14.99	112.37	118.70	12.34	12.63	17.88	17.91	20.35	19.43
3	Co 13008	14.02	15.46	114.27	126.38	12.27	12.23	18.17	18.26	21.57	22.06
4	Co 13009	16.29	13.76	122.88	108.61	13.26	12.68	18.56	18.13	19.59	20.11
5	Co 13011	14.54	15.74	123.67	139.89	11.75	11.25	17.83	17.62	22.16	23.16
6	Co 13013	14.59	16.82	123.22	132.85	11.85	12.65	17.59	18.26	21.03	20.59
7	Co 13014	15.60	15.58	122.15	127.66	12.77	12.21	18.22	17.98	20.04	21.15
8	Co 13016	14.13	16.00	122.16	129.32	11.57	12.36	17.32	17.65	21.02	19.41
9	Co 13018	15.90	12.43	127.02	107.80	12.51	11.54	17.97	17.67	20.04	22.38
10	Co 13020	15.15	13.25	123.28	107.37	12.29	12.34	18.20	18.23	21.65	21.57
11	CoM 13082	16.80	14.71	135.58	120.49	12.39	12.21	18.51	17.58	22.39	19.74
12	CoN 13073	17.56	21.08	134.76	158.39	13.05	13.32	18.57	18.83	20.38	20.32
13	CoN 13074	15.52	19.27	126.88	157.11	12.23	12.27	18.18	18.13	21.76	21.48
14	CoSnk 13103	15.94	14.03	131.21	116.94	12.15	12.00	18.02	17.93	21.48	21.69
15	CoSnk 13104	16.03	14.38	131.20	115.28	12.22	12.47	17.83	18.00	20.58	20.31
16	CoSnk 13105	15.19	14.66	119.67	128.48	12.68	11.42	18.11	17.44	19.94	22.00
17	CoSnk 13106	13.89	14.20	114.65	118.51	12.11	12.0	18.06	18.21	21.75	22.73
18	CoT 13366	12.26	13.30	104.47	114.10	11.73	11.7	17.46	17.80	20.93	22.36
19	PI 13131	13.11	14.20	108.64	118.26	12.06	12.0	18.11	18.46	22.11	23.50
20	PI 13132	12.77	13.50	105.90	111.41	12.05	12.1	17.38	17.92	19.58	21.36
Stds											
1	Co 86032	14.27	13.30	118.52	106.72	12.05	12.4	18.06	18.71	21.98	22.93
2	Co 99004	13.81	13.30	108.16	107.90	12.77	12.4	18.12	18.11	19.70	21.06
	SE	<b>0.94</b>		<b>6.70</b>		<b>0.25</b>		<b>0.21</b>		<b>0.64</b>	
	CD at 5 %	<b>2.76</b>		<b>19.59</b>		<b>0.72</b>		<b>0.60</b>		<b>1.86</b>	
	CV %	<b>9.06</b>		<b>7.90</b>		<b>2.85</b>		<b>1.62</b>		<b>4.24</b>	

Sr. No.	Clone	Purity % (12 m)		Pol % cane (12 m)		Fibre % (12 m)		Extraction % (10 m)		NMC ('000/ha)	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 13005	88.03	86.39	13.82	13.76	13.36	13.79	56.06	57.75	91.51	106.61
2	Co 13006	87.87	92.15	13.74	13.57	13.15	14.28	56.46	60.62	97.69	109.36
3	Co 13008	84.20	82.81	13.82	13.74	13.95	14.83	57.69	56.12	116.87	111.96
4	Co 13009	94.77	90.18	14.12	13.82	13.95	13.98	53.97	60.25	121.95	111.90
5	Co 13011	80.44	76.08	13.44	13.34	14.53	14.22	54.56	57.95	124.19	113.57
6	Co 13013	83.65	88.72	13.24	13.83	14.85	14.11	54.06	60.29	117.80	128.90
7	Co 13014	90.92	85.01	13.88	13.63	13.80	14.25	54.42	57.45	116.38	105.19
8	Co 13016	82.38	90.95	13.07	13.36	14.51	14.12	60.95	58.60	110.61	115.99
9	Co 13018	89.67	78.95	13.55	13.57	14.61	13.19	62.27	60.67	108.57	97.37
10	Co 13020	84.07	84.54	13.67	13.75	14.91	14.55	63.67	63.42	116.32	110.84
11	CoM 13082	82.69	89.04	14.01	13.36	14.20	14.13	60.94	58.58	119.74	107.97
12	CoN 13073	91.13	92.67	13.25	13.14	12.94	13.47	62.00	59.20	114.53	118.77
13	CoN 13074	83.54	84.43	13.72	13.70	14.56	14.45	65.86	59.44	112.30	116.53
14	CoSnk 13103	83.88	82.66	13.68	13.78	14.17	13.14	57.08	58.01	110.76	102.99
15	CoSnk 13104	86.65	88.64	13.39	13.59	14.95	14.43	61.25	60.58	114.20	98.43
16	CoSnk 13105	90.82	79.28	13.85	13.20	13.34	14.44	59.01	58.15	108.24	125.62
17	CoSnk 13106	83.03	80.10	13.54	13.62	15.02	15.13	55.95	57.72	111.20	113.72
18	CoT 13366	83.40	79.61	13.28	13.51	13.96	13.99	57.79	57.19	99.45	103.69
19	PI 13131	81.92	78.52	13.80	14.05	13.94	13.91	60.59	62.31	103.28	114.38
20	PI 13132	88.80	83.88	13.00	13.39	15.18	15.06	58.93	61.02	99.40	108.21
Stds											
1	Co 86032	82.14	81.61	13.74	14.10	14.08	14.63	60.03	58.86	115.20	109.72
2	Co 99004	91.99	86.02	13.61	13.57	14.86	15.08	61.00	58.98	102.81	106.48
	SE	2.59		0.17		0.34		1.49		4.90	
	CD at 5 %	NS		0.48		1.00		4.37		14.34	
	CV %	4.29		1.72		3.39		3.57		6.32	



Sr. No.	Clone	Stalk length (cm)		Stalk diameter (cm)		Single cane weight (kg)		C. C. S. % (10 m)		Sucrose % (10 m)	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 13005	302.78	248.24	2.38	2.51	1.05	1.10	11.45	11.88	16.48	17.17
2	Co 13006	277.48	276.59	2.45	2.51	1.06	1.18	11.60	11.93	16.56	17.32
3	Co 13008	254.68	293.31	2.54	2.57	1.10	1.20	12.35	12.32	17.73	17.95
4	Co 13009	243.48	253.88	2.64	2.61	1.15	1.08	12.29	12.70	17.52	18.11
5	Co 13011	255.31	257.24	2.61	2.57	1.15	1.20	10.34	11.75	15.27	17.38
6	Co 13013	229.68	276.79	2.67	2.70	1.09	1.15	13.00	13.46	17.96	18.71
7	Co 13014	256.11	252.39	2.70	2.67	1.21	1.19	11.76	12.67	16.91	18.00
8	Co 13016	255.20	254.31	2.67	2.74	1.14	1.24	11.92	13.26	16.91	18.54
9	Co 13018	259.90	275.94	2.61	2.73	1.15	1.20	12.61	12.02	17.68	17.26
10	Co 13020	235.12	265.28	2.67	2.67	1.08	1.15	11.28	11.43	16.52	16.62
11	CoM 13082	243.80	262.67	2.77	2.70	1.16	1.23	12.11	11.39	17.33	16.18
12	CoN 13073	285.92	347.14	2.80	2.83	1.65	1.48	12.97	12.96	18.22	18.25
13	CoN 13074	277.60	333.18	2.73	2.86	1.62	1.53	13.11	13.60	17.97	18.71
14	CoSnk 13103	265.44	267.36	2.70	2.70	1.40	1.15	12.42	11.96	17.57	16.78
15	CoSnk 13104	236.02	263.36	2.64	2.70	1.10	1.23	13.11	11.68	18.44	16.51
16	CoSnk 13105	239.64	255.69	2.61	2.74	1.05	1.08	11.39	12.07	16.38	17.17
17	CoSnk 13106	267.14	260.60	2.64	2.64	1.15	1.20	11.70	12.54	16.51	17.73
18	CoT 13366	240.76	259.63	2.61	2.51	1.18	1.12	10.55	11.55	15.56	16.80
19	PI 13131	283.23	273.87	2.57	2.64	1.21	1.24	12.50	12.78	17.78	17.97
20	PI 13132	273.11	263.74	2.61	2.45	1.26	1.15	12.45	12.18	18.04	17.52
Stds											
1	Co 86032	239.64	255.69	2.51	2.54	1.10	1.15	11.21	12.00	16.49	17.19
2	Co 99004	273.64	278.40	2.43	2.50	1.08	1.15	10.14	11.24	15.49	16.77
	SE	12.72		0.04		0.05		0.35		0.48	
	CD at 5 %	37.20		0.11		0.14		1.03		1.40	
	CV %	6.80		2.12		5.68		4.12		3.90	

Sr. No.	Clone	Brix % (10 m)		Purity % (10 m)		No. of shoots at 240 days ('000/ha)		Tillering at 120 days ('000/ha)		Germination 30 days	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 13005	18.66	19.27	88.32	89.08	112.12	116.91	115.07	128.47	42.75	46.27
2	Co 13006	18.39	19.69	90.08	87.96	120.84	123.47	126.52	132.62	40.12	43.60
3	Co 13008	19.66	20.83	90.19	86.20	150.82	136.19	169.23	134.38	48.79	50.99
4	Co 13009	19.45	19.76	90.10	91.64	142.24	135.31	152.81	134.05	41.07	44.04
5	Co 13011	18.87	19.83	80.94	87.67	143.76	136.22	155.95	143.04	43.89	47.00
6	Co 13013	18.55	19.23	96.82	97.30	145.76	153.63	152.81	168.41	53.45	57.04
7	Co 13014	19.43	19.16	87.01	93.96	146.57	151.36	159.31	163.94	52.62	49.83
8	Co 13016	19.18	18.75	88.18	98.87	139.25	142.19	141.19	156.06	45.97	50.09
9	Co 13018	18.22	19.79	97.08	87.25	141.70	148.95	145.02	160.61	44.76	51.31
10	Co 13020	19.20	19.08	86.07	87.10	149.82	153.69	159.73	165.82	49.86	53.99
11	CoM 13082	18.62	18.24	93.06	88.71	146.94	143.71	160.40	151.87	46.73	47.75
12	CoN 13073	19.23	19.66	94.71	92.81	135.42	153.77	167.70	156.98	55.24	49.91
13	CoN 13074	18.25	18.73	98.44	99.91	136.02	155.60	158.95	162.85	57.66	51.62
14	CoSnk 13103	18.56	18.23	94.64	92.05	147.74	139.27	157.99	142.15	52.52	56.88
15	CoSnk 13104	18.61	18.87	99.07	87.47	140.41	130.10	153.58	127.50	51.36	48.47
16	CoSnk 13105	18.67	18.47	87.73	93.00	147.96	141.96	140.17	156.50	42.82	48.98
17	CoSnk 13106	18.16	18.7	90.93	94.78	132.07	156.9	152.44	170.2	45.74	42.3
18	CoT 13366	18.89	18.7	82.39	89.65	131.18	141.5	142.66	154.6	48.30	45.0
19	PI 13131	19.51	19.1	91.12	94.07	122.78	159.6	148.73	170.2	43.26	50.2
20	PI 13132	20.23	19.9	89.18	87.84	140.19	138.8	133.65	154.4	53.57	57.1
Stds											
1	Co 86032	19.75	18.69	83.51	92.00	139.03	146.28	146.85	157.3	48.62	45.9
2	Co 99004	20.11	19.64	77.02	85.40	134.25	136.26	140.52	148.1	49.59	43.7
	SE	0.36		2.89		5.99		7.85		2.09	
	CD at 5 %	1.05		NS		17.54		22.98		6.12	
	CV %	2.64		4.50		6.06		7.45		6.04	

## 6. Advanced Varietal Trial (Midlate I Plant)

Sr. No.	Clone	CCS (t/ha)			Cane yield (t/ha)			C.C.S. % (12 m)			Sucrose % (12m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 10004	14.97	14.11	15.05	113.05	105.00	113.61	13.28	13.32	13.33	19.01	19.00	19.20
2	Co 10005	15.26	14.58	15.62	107.77	103.33	112.77	14.19	13.99	13.93	19.88	19.56	19.33
3	Co 10006	15.42	14.05	13.38	120.83	106.11	105.83	12.80	13.13	12.72	18.11	18.39	18.00
4	Co 10024	14.06	13.07	16.31	110.55	103.33	130.00	12.75	12.54	12.62	18.00	17.89	17.93
5	Co 10026	16.63	16.14	14.61	131.94	124.16	113.05	12.65	12.89	13.00	18.31	18.56	18.66
6	Co 10027	15.73	19.43	17.10	115.55	135.27	130.00	13.65	14.25	13.23	19.11	19.85	18.93
<b>Stds</b>													
1	CoC 671	14.81	13.97	13.79	113.33	105.55	108.61	13.10	13.12	12.77	18.55	18.89	18.12
2	Co 94008	11.45	14.83	13.15	90.55	106.66	101.66	12.68	13.79	13.01	18.34	19.52	18.25
	<b>SE</b>	<b>0.76</b>			<b>5.19</b>			<b>0.16</b>			<b>0.18</b>		
	<b>CD at 5 %</b>	<b>2.30</b>			<b>15.74</b>			<b>0.48</b>			<b>0.56</b>		
	<b>CV %</b>	<b>8.81</b>			<b>7.97</b>			<b>2.08</b>			<b>1.69</b>		

Sr. No.	Clone	Brix % (12 m)			Purity % (12 m)			Pol % cane (12 m)			Fibre % (12 m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11005	21.20	20.50	21.84	89.92	92.35	87.98	14.58	14.59	14.75	13.31	13.23	13.20
2	Co 11007	21.11	20.16	20.23	94.24	96.53	95.97	15.01	14.87	14.67	14.51	14.00	14.11
3	Co 11012	19.69	19.02	19.73	92.05	96.48	91.35	13.72	13.88	13.56	14.23	14.55	14.66
4	Co 11019	19.46	19.30	19.79	92.92	92.06	90.80	13.76	13.62	13.81	13.55	13.85	13.00
5	CoM 11085	20.93	20.44	21.08	87.57	90.35	88.91	14.10	14.11	14.33	13.01	13.95	13.22
6	CoM 11086	20.27	20.29	21.23	94.65	97.73	88.88	14.69	15.19	14.52	13.11	13.50	13.27
<b>Stds</b>													
1	Co 86032	20.19	20.82	19.96	92.29	89.93	91.14	14.28	14.52	13.83	13.00	13.15	13.66
2	Co 99004	20.90	20.71	19.58	87.40	93.92	93.87	13.78	14.83	13.84	14.85	14.02	14.19
	<b>SE</b>	<b>0.30</b>			<b>1.33</b>			<b>0.15</b>			<b>0.20</b>		
	<b>CD at 5 %</b>	<b>0.90</b>			<b>NS</b>			<b>0.47</b>			<b>0.62</b>		
	<b>CV %</b>	<b>2.51</b>			<b>2.49</b>			<b>1.87</b>			<b>2.58</b>		

Sr. No.	Clone	Extraction % (12 m)			NMC ('000/ha)			Stalk length (cm)			Stalk diameter (cm)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11005	55.63	58.27	61.00	112.00	98.57	113.77	232.16	258.43	268.97	2.45	2.51	2.61
2	Co 11007	52.88	57.05	61.14	104.12	101.11	108.17	256.47	219.80	268.10	2.51	2.57	2.64
3	Co 11012	66.09	64.07	62.94	115.07	105.55	101.20	263.18	229.66	246.49	2.61	2.54	2.45
4	Co 11019	57.36	51.26	62.01	102.95	99.95	107.98	287.09	308.11	267.25	2.57	2.61	2.67
5	CoM 11085	55.37	57.99	60.61	113.95	121.05	107.57	321.74	290.32	275.69	2.71	2.74	2.81
6	CoM 11086	64.70	63.65	62.61	110.72	124.34	119.01	282.48	299.31	285.72	2.71	2.81	2.84
Stds													
1	Co 86032	57.56	55.29	60.36	111.79	106.50	109.98	268.08	261.83	256.64	2.61	2.51	2.45
2	Co 99004	59.96	56.91	53.76	87.42	104.30	98.97	249.24	286.00	276.61	2.51	2.54	2.64
	SE	1.78			3.91			11.37			0.04		
	CD at 5 %	5.40			11.85			34.50			0.12		
	CV %	5.21			6.28			7.32			2.60		

Sr. No.	Clone	Single cane weight (kg)			C. C. S. % (10 m)			Sucrose % (10 m)			Brix % (10 m)		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11005	1.10	1.18	1.23	11.33	12.09	11.91	16.29	17.00	16.85	18.23	18.11	18.19
2	Co 11007	1.15	1.23	1.08	11.14	11.30	11.97	16.00	16.11	16.85	17.85	17.71	17.99
3	Co 11012	1.08	1.15	1.27	11.11	11.41	11.29	16.01	16.33	16.14	18.00	18.09	17.84
4	Co 11019	1.23	1.18	1.33	11.22	10.95	11.31	15.99	15.85	16.11	17.55	17.99	17.65
5	CoM 11085	1.35	1.15	1.28	12.08	11.90	11.82	17.01	16.94	16.99	18.19	18.56	18.99
6	CoM 11086	1.32	1.38	1.21	11.94	12.02	11.72	17.11	17.22	16.85	19.01	19.11	18.85
Stds													
1	Co 86032	1.08	1.04	1.00	10.81	11.10	11.16	16.00	16.24	16.33	19.00	18.85	18.95
2	Co 99004	1.11	1.15	1.18	11.85	11.98	11.23	17.05	17.09	16.13	19.11	18.80	18.00
	SE	0.05			0.17			0.18			0.17		
	CD at 5 %	0.14			0.51			0.55			0.51		
	CV %	6.74			2.52			1.92			1.58		

Sr. No.	Clone	Purity % (10 m)			No. of shoots at 240 days ('000/ha)			Tillering at 120 days ('000/ha)			Germination 30 days		
		RI	RII	RIII	RI	RII	RIII	RI	RII	RIII	RI	RII	RIII
1	Co 11005	89.36	93.87	92.63	125.46	109.90	112.72	142.41	117.77	126.96	46.82	48.96	50.25
2	Co 11007	89.64	90.97	93.66	107.80	120.17	125.11	122.83	140.03	144.28	48.59	46.36	44.17
3	Co 11012	88.94	90.27	90.47	120.70	110.62	126.53	135.37	126.82	141.37	46.15	44.79	42.59
4	Co 11019	91.11	88.10	91.27	129.91	133.97	122.83	147.08	151.40	138.49	49.59	55.21	56.51
5	CoM 11085	93.51	91.27	89.47	134.69	132.03	122.49	156.33	147.78	140.02	53.95	55.21	52.14
6	CoM 11086	90.01	90.11	89.39	127.12	134.19	137.90	145.88	154.50	160.47	55.53	53.29	51.10
<b>Stds</b>													
1	Co 86032	84.21	86.15	86.17	125.34	130.64	133.46	146.59	150.06	153.46	53.78	55.92	50.23
2	Co 99004	89.22	90.90	89.61	120.20	122.31	113.30	147.41	154.31	138.83	41.95	44.96	48.01
	<b>SE</b>	<b>0.93</b>			<b>4.11</b>			<b>5.22</b>			<b>1.48</b>		
	<b>CD at 5 %</b>	<b>2.82</b>			<b>12.47</b>			<b>15.85</b>			<b>4.49</b>		
	<b>CV %</b>	<b>1.79</b>			<b>5.74</b>			<b>6.33</b>			<b>5.14</b>		

## 7. Advanced Varietal Trial (Midlate II Plant)

Sr. No.	Clone	CCS (t/ha)		Cane yield (t/ha)		C.C.S. % (12 m)		Sucrose % (12m)		Brix % (12 m)	
		RI	RII	RI	RII	RI	RI	RI	RII	RI	RII
1	Co 09009	14.27	17.63	102.13	122.49	13.97	14.39	20.01	20.22	22.20	21.50
2	Co 10015	17.75	16.78	132.02	126.48	13.44	13.27	18.85	18.95	19.95	20.91
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	15.01	14.86	112.19	107.24	13.38	13.86	19.33	19.56	21.85	21.01
5	Co 10033	15.02	16.72	100.89	114.55	14.88	14.59	20.91	20.85	22.22	23.01
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	17.36	15.34	122.81	110.58	14.13	13.87	20.55	20.01	23.54	22.55
8	CoT 10369	16.65	17.27	119.61	124.54	13.92	13.87	19.96	19.89	22.19	22.14
9	CoVC 10061	14.88	16.00	108.07	115.34	13.77	13.87	19.74	19.81	21.96	21.84
10	PI 10131	15.35	14.87	115.46	119.52	13.29	12.44	18.96	18.00	20.85	20.41
11	PI 10131	13.93	14.59	106.90	112.13	13.03	13.01	18.73	18.77	20.95	21.15
Std											
1	Co 86032	14.50	12.49	112.34	103.90	12.91	12.03	18.90	18.00	21.96	21.84
2	Co 99004	13.69	12.22	100.38	91.93	13.64	13.29	19.66	19.56	22.13	22.96
	SE	0.78		4.94		0.20		0.21		0.34	
	CD at 5 %	2.41		15.23		0.62		0.64		1.06	
	CV %	7.15		6.16		2.10		1.50		2.23	

Sr. No.	Clone	Purity % (12 m)		Pol % cane (12 m)		Fibre % (12 m)		Extraction % (12 m)		NMC ('000/ha)	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 09009	90.14	94.05	15.33	15.26	13.41	14.53	57.26	58.88	106.84	114.94
2	Co 10015	94.49	90.63	14.33	14.43	13.96	13.86	65.18	58.23	124.10	123.32
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	88.47	93.10	14.72	14.92	13.85	13.70	61.52	58.21	114.52	106.68
5	Co 10033	94.10	90.61	15.68	15.66	15.01	14.91	55.33	60.01	107.33	112.69
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	87.30	88.74	15.46	15.08	14.77	14.65	59.35	63.92	115.23	96.24
8	CoT 10369	89.95	89.84	15.04	14.92	14.63	15.01	61.59	57.83	114.66	119.80
9	CoVC 10061	89.89	90.71	15.06	15.21	13.69	13.23	57.26	58.94	107.65	113.25
10	PI 10131	90.94	88.19	14.46	13.79	13.74	13.39	58.02	59.52	108.59	110.54
11	PI 10131	89.40	88.75	14.40	14.22	13.11	14.23	56.88	58.49	102.35	107.94
Stds											
1	Co 86032	86.07	82.42	14.26	13.69	14.53	13.96	61.67	57.65	119.34	134.27
2	Co 99004	88.84	85.19	14.79	14.86	14.78	14.01	60.45	57.89	105.86	95.30
	SE	1.44		0.14		0.29		1.76		4.44	
	CD at 5 %	NS		0.44		0.90		NS		13.69	
	CV %	2.27		1.36		2.88		4.20		5.58	

Sr. No.	Clone	Stalk length (cm)		Stalk diameter (cm)		Single cane weight (kg)		C. C. S. % (10 m)		Sucrose % (10 m)	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 09009	280.51	243.73	2.51	2.43	1.09	1.03	12.51	12.41	18.01	17.84
2	Co 10015	281.82	318.54	2.59	2.51	1.26	1.15	11.83	11.94	16.96	17.11
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	278.57	268.37	2.40	2.49	1.05	1.02	11.71	12.14	16.87	17.23
5	Co 10033	257.51	261.38	2.54	2.55	1.15	1.08	12.39	12.47	17.55	17.63
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	224.93	272.59	2.66	2.65	1.02	1.15	12.52	12.68	17.89	18.01
8	CoT 10369	281.68	274.30	2.65	2.64	1.10	1.06	12.60	12.49	17.71	17.64
9	CoVC 10061	267.62	282.48	2.75	2.74	1.18	1.13	12.52	12.09	17.69	17.31
10	PI 10131	259.15	277.10	2.61	2.57	1.08	1.15	11.95	11.99	17.01	17.00
11	PI 10131	303.23	321.18	2.71	2.39	1.11	1.22	11.82	11.90	16.98	16.85
Stds											
1	Co 86032	260.36	225.14	2.63	2.55	0.95	0.88	12.23	11.95	17.15	17.00
2	Co 99004	258.16	271.42	2.58	2.60	1.03	1.09	12.72	12.54	18.22	18.01
	SE	12.23		0.05		0.04		0.18		0.17	
	CD at 5 %	37.67		0.15		0.13		0.55		0.53	
	CV %	6.40		2.64		5.32		2.05		1.40	



Sr. No.	Clone	Brix % (10 m)		Purity % (10 m)		No. of shoots at 240 days ('000/ha)		Tillering at 120 days ('000/ha)		Germination 30 days	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 09009	20.22	19.96	89.07	<b>89.38</b>	107.51	146.61	129.96	149.40	46.71	46.35
2	Co 10015	18.87	19.00	89.88	<b>90.05</b>	158.24	151.00	155.13	144.34	48.17	49.39
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	18.96	18.74	88.98	<b>91.94</b>	143.88	139.81	138.88	151.69	45.13	47.93
5	Co 10033	19.01	19.00	92.32	<b>92.79</b>	153.14	146.48	188.41	161.48	42.00	49.56
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	19.76	19.61	90.54	<b>91.84</b>	140.59	137.09	144.83	151.02	46.88	40.17
8	CoT 10369	18.85	18.96	93.95	<b>93.04</b>	153.18	148.24	149.22	144.65	45.04	51.01
9	CoVC 10061	19.04	19.18	92.91	<b>90.25</b>	152.72	139.99	139.89	142.77	40.62	43.43
10	PI 10131	18.61	18.45	91.40	<b>92.14</b>	142.87	147.73	151.64	136.30	49.72	49.35
11	PI 10131	18.98	18.22	89.46	<b>92.48</b>	136.15	121.99	136.64	139.10	43.58	47.97
Stds											
1	Co 86032	18.14	18.60	94.54	<b>91.40</b>	119.65	111.81	146.31	150.85	46.71	46.35
2	Co 99004	20.22	20.11	90.11	<b>89.56</b>	133.24	123.40	132.79	124.50	40.68	41.88
	SE	<b>0.14</b>		<b>1.08</b>		<b>6.80</b>		<b>6.36</b>		<b>1.75</b>	
	CD at 5 %	<b>0.44</b>		<b>3.33</b>		<b>20.96</b>		<b>19.60</b>		<b>5.40</b>	
	CV %	<b>1.05</b>		<b>1.69</b>		<b>6.93</b>		<b>6.15</b>		<b>5.34</b>	

## 8. Advanced Varietal Trial (Early I Plant) Ratoon

Sr. No.	Clone	CCS (t/ha)		Cane yield (t/ha)		C.C.S. % (11 m)		Sucrose % (11 m)		Brix % (11 m)	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 09009	14.21	13.65	115.27	108.89	12.33	12.53	17.83	17.94	20.21	19.88
2	Co 10015	12.72	13.76	104.16	111.94	12.21	12.29	18.01	18.00	21.24	20.93
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	11.05	11.88	88.33	97.78	12.51	12.15	17.95	17.44	20.01	19.45
5	Co 10033	16.29	13.66	127.77	108.89	12.75	12.54	18.22	18.33	20.11	21.22
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	12.55	13.72	97.50	103.61	12.88	13.25	18.91	18.96	22.11	21.01
8	CoT 10369	12.93	12.08	94.44	86.94	13.69	13.90	19.11	19.83	20.01	21.83
9	CoVC 10061	12.16	14.59	92.50	101.39	13.15	14.39	19.01	20.11	21.53	21.11
10	PI 10131	15.49	13.92	105.83	95.00	14.64	14.66	20.84	20.91	22.83	23.01
11	PI 10131	15.02	12.71	98.61	92.22	15.24	13.78	20.91	20.01	21.01	22.86
Std											
1	Co 86032	12.39	11.80	106.94	101.66	11.59	11.61	17.00	17.05	19.83	19.94
2	Co 99004	9.63	10.53	84.16	91.66	11.45	11.49	17.01	17.11	20.36	20.56
	SE	0.76		4.71		0.29		0.24		0.45	
	CD at 5 %	2.34		14.51		0.90		0.74		1.38	
	CV %	8.16		6.49		3.21		1.83		3.00	

Sr. No.	Clone	Purity % (11 m)		Pol % cane (11 m)		Fibre % (11 m)		Extraction % (11 m)		NMC at 11 m ('000/ha)	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 09009	88.22	90.24	13.72	13.68	13.05	13.74	58.21	59.23	100.00	89.16
2	Co 10015	84.79	86.00	13.84	13.77	13.18	13.50	56.15	57.23	89.16	102.22
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	89.71	89.67	13.64	13.28	14.02	13.84	55.21	58.33	83.33	87.50
5	Co 10033	90.60	86.38	13.64	13.79	15.16	14.76	58.24	61.21	111.11	100.27
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	85.53	90.24	14.48	14.29	13.42	14.62	61.12	58.24	83.33	89.16
8	CoT 10369	95.50	90.84	14.37	14.97	14.83	14.52	58.21	58.73	86.94	72.78
9	CoVC 10061	88.30	95.26	14.23	15.05	15.16	15.19	56.21	58.21	83.61	92.22
10	PI 10131	91.28	90.87	15.98	15.86	13.31	14.15	56.11	57.32	89.16	86.11
11	PI 10131	99.52	87.53	15.78	15.19	14.53	14.09	56.12	54.64	89.72	85.55
<b>Stds</b>											
1	Co 86032	85.73	85.51	13.06	12.86	13.17	14.56	59.15	60.23	95.83	88.33
2	Co 99004	83.55	83.22	12.82	13.14	14.64	13.22	58.21	56.24	78.33	80.55
	<b>SE</b>	<b>2.32</b>		<b>0.19</b>		<b>0.38</b>		<b>0.89</b>		<b>4.42</b>	
	<b>CD at 5 %</b>	<b>7.16</b>		<b>0.59</b>		<b>1.19</b>		<b>NS</b>		<b>13.61</b>	
	<b>CV %</b>	<b>3.73</b>		<b>1.90</b>		<b>3.83</b>		<b>2.18</b>		<b>6.86</b>	

Sr. No.	Clone	Stalk length (cm)		Stalk diameter (cm)		Single cane weight (kg)		Tillering at 120 days ('000/ha)		Tillering at 90 days ('000/ha)	
		RI	RII	RI	RII	RI	RII	RI	RII	RI	RII
1	Co 09009	214.87	231.96	2.48	2.54	1.06	1.15	130.14	135.88	123.23	149.44
2	Co 10015	222.19	219.65	2.51	2.61	0.98	1.14	139.30	136.22	153.74	145.00
3	Co 10017	-	-	-	-	-	-	-	-	-	-
4	Co 10031	235.11	241.73	2.45	2.42	1.00	1.20	137.86	142.80	137.83	155.40
5	Co 10033	279.49	291.34	2.71	2.77	1.16	1.26	154.15	147.87	175.54	162.49
6	CoM 10083	-	-	-	-	-	-	-	-	-	-
7	CoT 10368	260.49	272.34	2.54	2.67	1.10	0.99	136.96	138.16	140.31	149.25
8	CoT 10369	232.71	268.12	2.63	2.48	1.16	1.12	141.16	135.15	153.91	139.69
9	CoVC 10061	230.25	252.58	2.48	2.61	1.16	1.21	134.38	132.24	139.65	134.85
10	PI 10131	207.17	238.66	2.48	2.64	1.13	1.28	139.07	135.06	152.99	144.65
11	PI 10131	234.58	203.25	2.45	2.57	1.11	1.15	152.27	134.91	136.67	133.43
<b>Stds</b>											
1	Co 86032	227.56	264.28	2.50	2.42	0.98	1.05	151.74	135.44	144.99	134.29
2	Co 99004	239.49	251.34	2.54	2.67	1.05	1.07	127.19	120.64	129.92	119.62
	<b>SE</b>	<b>11.12</b>		<b>0.05</b>		<b>0.04</b>		<b>6.36</b>		<b>3.61</b>	
	<b>CD at 5 %</b>	<b>34.28</b>		<b>0.16</b>		<b>0.14</b>		<b>19.60</b>		<b>11.13</b>	
	<b>CV %</b>	<b>6.40</b>		<b>2.87</b>		<b>5.58</b>		<b>6.27</b>		<b>3.71</b>	

## 1. Initial Varietal Trial (Early)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 13002	LS	LS	MS	LS	LS	R	MR	R
Co 13003	LS	LS	LS	LS	LS	MR	MR	R
Co 13004	LS	LS	LS	MS	LS	R	MR	R
Co N 13071	LS	LS	LS	MS	LS	R	MR	R
Co N 13072	LS	LS	MS	MS	LS	MR	MR	R
CoSnk 13101	LS	LS	LS	MS	LS	HS	MS	R
CoSnk 13102	LS	LS	LS	LS	LS	R	MS	R
MS 13081	LS	LS	MS	LS	LS	R	MR	R
<b>Stds</b>								
CoC 671	MS	MS	MS	LS	MS	MR	HS	S
Co 94008	MS	LS	MS	LS	LS	R	MR	R
Co 85004	LS	LS	MS	MS	MS	HS	MS	R

## 2. Advanced Varietal Trial (Early I Plant)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 11001	MS	LS	LS	LS	LS	R	MR	R
Co 11004	LS	LS	MS	MS	MS	HS	MR	R
CoM 11081	LS	LS	LS	LS	LS	MS	MS	MS
CoM 11082	LS	LS	LS	MS	LS	S	MR	R
CoM 11084	MS	LS	LS	LS	LS	R	MR	R
<b>Stds</b>								
CoC 671	MS	MS	MS	LS	MS	MR	HS	S
Co 94008	MS	LS	MS	LS	LS	R	MR	R
Co 85004	LS	LS	MS	MS	MS	HS	MS	R

### 3. Advanced Varietal Trial (Early II Plant)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 10004	MS	LS	LS	LS	LS	MR	S	R
Co 10005	LS	LS	LS	MS	LS	R	MR	R
Co 10006	LS	LS	MS	LS	LS	R	MR	R
Co 10024	LS	LS	LS	LS	LS	S	MS	R
Co 10026	LS	LS	LS	LS	LS	HS	MR	R
Co 10027	LS	LS	MS	LS	LS	MS	MR	R
CoT 10366	LS	LS	MS	LS	LS	R	S	R
CoT 10367	LS	LS	LS	LS	LS	MR	MR	R
<b>Std</b>								
CoC 671	MS	MS	MS	LS	MS	MR	HS	S
Co 94008	MS	LS	MS	LS	LS	R	MR	R
Co 85004	LS	LS	MS	MS	MS	HS	MS	R

### 4. Advanced Varietal Trial (Early-Ratoon)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 10004	MS	MS	MS	MS	LS	-	-	-
Co 10005	MS	MS	MS	MS	LS	-	-	-
Co 10006	MS	MS	MS	MS	LS	-	-	-
Co 10024	LS	LS	MS	LS	LS	-	-	-
Co 10026	MS	MS	MS	MS	LS	-	-	-
Co 10027	LS	LS	MS	LS	LS	-	-	-
CoT 10366	LS	LS	MS	LS	LS	-	-	-
CoT 10367	MS	MS	MS	MS	LS	-	-	-
<b>Std</b>								
CoC 671	MS	MS	MS	MS	MS	-	-	-
Co 94008	MS	LS	MS	LS	LS	-	-	-
Co 85004	LS	LS	MS	LS	MS	-	-	-

### 5. Initial Varietal Trial (Midlate)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 13005	MS	MS	MS	LS	LS	S	MS	R
Co 13006	LS	LS	LS	LS	LS	R	MR	R
Co 13008	LS	LS	LS	LS	LS	R	HS	R
Co 13009	LS	LS	MS	MS	LS	R	HS	R
Co 13011	LS	LS	MS	LS	LS	R	MR	R
Co 13013	LS	LS	LS	MS	LS	MS	MR	R
Co 13014	LS	LS	LS	MS	LS	R	MR	R
Co 13016	LS	LS	LS	MS	LS	R	MR	R
Co 13018	MS	LS	MS	MS	LS	R	MR	R
Co 13020	LS	LS	LS	MS	LS	S	MR	R
CoM 13082	LS	LS	LS	LS	LS	R	MR	R
CoN 13073	LS	LS	MS	MS	LS	R	MR	R
CoN 13074	MS	LS	MS	MS	LS	R	MR	R
CoSnk 13103	LS	LS	LS	LS	LS	MS	MR	R
CoSnk 13104	MS	MS	LS	MS	LS	MR	MS	R
CoSnk 13105	LS	LS	LS	MS	LS	R	HS	R
CoSnk 13106	LS	LS	MS	MS	LS	HS	MR	R
CoT 13366	MS	MS	LS	MS	LS	R	MS	R
PI 13131	MS	LS	LS	LS	LS	MS	MR	R
PI 13132	LS	LS		LS	LS	HS	MR	R
Std								
Co 86032	MS	LS	MS	MS	LS	MS	HS	R
Co 99004	LS	MS	MS	LS	LS	MS	MR	R

### 6. Advanced Varietal Trial (Midlate I Plant)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 11005	MS	LS	LS	LS	LS	R	MR	R
Co 11007	LS	LS	MS	LS	LS	MS	MR	R
Co 11012	LS	LS	LS	MS	LS	S	MS	R
Co 11019	LS	LS	LS	MS	LS	R	MR	R
CoM 11085	LS	LS	MS	LS	LS	R	MR	R
CoM 11086	LS	LS	LS	LS	LS	R	MS	R
<b>Stds</b>								
Co 86032	MS	LS	MS	MS	LS	MS	HS	R
Co 99004	LS	MS	MS	LS	LS	MS	MR	R

### 7. Advanced Varietal Trial (Midlate II Plant)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 09009	LS	LS	LS	MS	LS	MR	MR	R
Co 10015	LS	LS	MS	LS	LS	S	MR	R
Co 10017	LS	LS	LS	LS	LS	S	HS	S
Co 10031	LS	LS	LS	LS	LS	MS	MR	R
Co 10033	LS	LS	MS	LS	LS	HS	S	R
CoM 10083	LS	LS	LS	MS	LS	MR	MR	R
CoT 10368	LS	LS	LS	MS	LS	R	MR	R
CoT 10369	LS	LS	LS	LS	LS	R	MR	R
CoVC 10061	LS	LS	LS	MS	LS	R	MR	R
PI 10131	LS	LS	MS	MS	LS	MR	MR	R
PI 10131	LS	LS	LS	LS	LS	R	MS	R
<b>Stds</b>								
Co 86032	MS	LS	MS	MS	LS	MS	HS	R
Co 99004	LS	MS	MS	LS	LS	MS	MR	R



### 8. Advanced Varietal Trial (Midlate-Ratoon)

Clone	ESB	TB	RB	Mealy bug %	Scale	Disease Reaction		
						Smut	Red Rot	
							Plug method	Cotton Swab method
Co 09009	LS	LS	LS	MS	LS	-	-	-
Co 10015	LS	LS	MS	LS	LS	-	-	-
Co 10017	LS	LS	LS	LS	LS	-	-	-
Co 10031	LS	LS	LS	LS	LS	-	-	-
Co 10033	LS	LS	MS	LS	LS	-	-	-
CoM 10083	LS	LS	LS	MS	LS	-	-	-
CoT 10368	LS	LS	LS	MS	LS	-	-	-
CoT 10369	LS	LS	LS	LS	LS	-	-	-
CoVC 10061	LS	LS	LS	MS	LS	-	-	-
PI 10131	LS	LS	MS	MS	LS	-	-	-
PI 10131	LS	LS	LS	LS	LS	-	-	-
<b>Stds</b>								
Co 86032	MS	LS	MS	MS	LS	-	-	-
Co 99004	LS	MS	MS	LS	LS	-	-	-

#### Standards:

ESB	TB	RB	Mealy bug %	Scale
0 to 15% = LS 15.1 to 30% = MS Above 30% = HS	0 to 10% = LS 10.1 to 20% = MS Above 20% = HS	0 to 15%=LS 15.1 to 30%=MS Above 30%=HS	0 to 5 %=LS 5.1 to 30%=MS Above 30 %= HS	0 to 10 % = LS 10.1 to 35 %=MS Above 35 %= HS

Wilt (0-4 scale)		Red Rot Plug method (0-9 scale)		Red Rot Cotton Swab method (0-9 scale)		Whip Smut	
0.0-1.0	R	0.0-2.0	R	0.0	R	0%	R
1.1-2.0	MR	2.1-4.0	MR	Above 8.0	S	0.1-10%	MR
2.1-3.0	MS	4.1-6.0	MS			10.1-20%	MS
3.1-4.0	S	6.1-8.0	S			20.1-30%	S
		Above 8.0	HS			Above 30%	HS