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**Annual Report**  
**of**  
**ALL INDIA CO-ORDINATED RESEARCH**  
**PROJECT (AICRP)**  
**ON**  
**SUGARCANE**  
**DISCIPLINE : CROP IMPROVEMENT**  
**YEAR : 2014-15**



**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. 2013 to Mar. 2015.

Sr. No.	Month	Temp. <sup>0</sup> c.		R.H. %		Rainfall (mm)	Rainy days
		Max	Min.	A.M.	P.M.		
1.	Oct. 2013	32.8	22.8	86.0	57.0	45	04
2.	Nov. 2013	33.6	19.3	72.0	38.0	-	-
3.	Dec. 2013	30.9	14.8	84.0	48.0	-	-
4.	Jan. 2014	28.7	14.4	80.3	53.4	14.0	02
5.	Feb. 2014	29.0	14.5	79.0	34.1	-	-
6.	Mar. 2014	33.4	17.8	81.3	33.9	-	-
7.	April 2014	35.4	22.2	85.9	42.1	-	-
8.	May 2014	34.7	25.7	83.9	55.2	-	-
9.	June 2014	33.7	27.9	80.5	63.6	36.0	08
10.	July 2014	30.8	25.8	88.6	78.3	719.0	25
11.	Aug. 2014	30.3	25.1	92.9	79.7	324.0	24
12.	Sept 2014	31.3	24.5	92.6	75.9	379.0	14
13.	Oct. 2014	<b>35.9</b>	22.4	83.2	43.0	-	-
14.	Nov 2014	33.6	19.2	85.5	42.6	67.0	3
15.	Dec. 2014	30.4	14.0	72.8	40.5	-	-
16.	Jan. 2015	28.9	<b>12.9</b>	79.5	36.8	-	-
17.	Feb. 2015	30.9	14.1	83.4	38.9	-	-
18.	Mar. 2015	32.5	18.2	85.5	44.8	10	2
<b>Total</b>						<b>1594</b>	<b>82</b>

The average maximum temperature was in October-2014 (35.9 °C) and minimum temperature in January-2015 (12.9 °C). The monsoon commenced in 3<sup>rd</sup> week of June-2014 and was terminated in 2<sup>nd</sup> week of November-2014. The total rainfall of 1594 mm was received in 82 rainy days which was 27.52 % higher than the average rainfall of 1250 mm of the station. The highest rainfall of 719.00 mm was received in 25 rainy days during July 2014 followed by September 2014 (379 mm) and August (324 mm). The weather condition remained favourable 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 )

Sr. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (10 m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	Pol % cane (10m)	Extraction % (10m)	Fibre % (10m)	NMC at 10 m ('000/ha)
1	Co 11001	11.39	103.50	18.45	16.04	86.94	11.00	12.63	56.77	11.49	97.71
2	Co 11004	13.18	105.52	18.86	17.60	93.29	12.49	13.73	57.71	12.17	103.75
3	Co 11016	12.29	107.94	18.27	16.38	86.48	11.39	12.86	58.24	11.51	107.50
4	Co 11017	12.48	115.86	17.98	15.71	87.34	10.77	12.25	55.49	12.22	111.66
5	Co 11018	12.17	99.58	18.80	17.33	92.14	12.22	13.56	57.72	11.80	95.83
6	CoM 11081	15.30	113.22	19.64	18.79	95.70	13.51	14.74	58.68	11.62	103.96
7	CoM 11082	14.19	116.30	18.80	17.30	91.95	12.20	13.55	55.26	11.34	111.46
8	CoM 11083	14.50	128.40	17.28	16.04	92.76	11.29	12.59	59.67	11.52	122.08
9	CoM 11084	16.07	124.66	19.27	18.09	93.85	12.89	14.21	57.41	11.70	115.41
10	CoN 11071	15.42	126.64	18.80	17.28	91.92	12.18	13.53	59.19	11.63	116.03
11	CoN11072	15.03	121.80	18.91	17.47	92.33	12.34	13.77	57.82	12.27	109.58
12	CoT 11366	14.07	115.20	18.80	17.32	92.12	12.21	13.66	56.69	11.43	109.78
13	PI 11131	11.65	109.04	18.50	15.74	85.06	10.68	12.37	59.61	11.47	102.91
Stds											
1	CoC 671	12.15	95.62	20.60	18.24	88.35	12.71	14.13	56.40	11.83	94.37
2	Co 94008	10.52	95.84	18.44	16.03	86.87	10.98	12.55	56.68	11.23	91.87
3	Co 85004	13.19	103.32	19.21	17.96	96.46	12.77	14.34	54.21	11.35	100.62
	CD at 5 %	1.75	18.40	1.39	NS	NS	NS	NS	NS	NS	15.82
	CV %	6.14	7.75	3.47	6.18	3.75	7.39	6.21	3.60	3.05	7.01

Sr. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (8 m)	Sucrose % (8 m)	Purity % (8 m)	CCS % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 11001	294.07	2.61	1.07	16.35	14.04	85.84	9.57	126.50	150.69	48.37
2	Co 11004	287.36	2.36	1.02	16.66	15.84	95.05	11.32	125.11	150.11	45.49
3	Co 11016	291.47	2.54	1.08	15.78	12.67	80.29	8.35	122.45	146.87	54.71
4	Co 11017	283.23	2.36	1.08	15.32	13.28	86.72	9.10	123.73	148.96	46.80
5	Co 11018	277.58	2.45	1.12	16.80	15.26	90.83	10.69	119.56	145.49	43.36
6	CoM 11081	275.02	2.69	1.10	17.65	16.35	92.63	11.56	135.76	159.95	52.86
7	CoM 11082	286.96	2.79	1.16	17.43	16.70	95.84	11.98	133.91	158.10	51.22
8	CoM 11083	285.01	2.87	1.24	16.67	12.60	75.56	8.01	152.31	178.59	55.40
9	CoM 11084	261.09	2.84	1.23	16.56	15.99	96.59	11.51	127.66	151.15	44.33
10	CoN 11071	256.90	2.76	1.23	17.11	14.86	87.12	10.19	143.28	170.94	54.67
11	CoN11072	261.61	2.54	1.26	15.63	14.48	92.64	11.26	147.22	172.56	54.67
12	CoT 11366	288.95	2.61	1.12	16.26	15.30	94.12	10.89	141.43	165.62	51.29
13	PI 11131	285.74	2.60	1.05	16.19	13.42	82.87	8.99	130.32	154.62	54.16
Stds											
1	CoC 671	284.98	2.84	1.26	18.14	16.06	88.80	11.12	126.38	151.73	49.78
2	Co 94008	278.47	2.57	1.06	16.65	13.98	83.92	9.42	127.54	152.08	44.66
3	Co 85004	275.01	2.71	1.00	17.72	13.70	77.31	8.83	128.93	154.28	47.12
	CD at 5 %	NS	0.31	0.17	0.96	1.13	9.25	1.26	5.72	18.77	6.04
	CV %	7.56	5.50	7.15	2.69	3.61	4.91	5.83	17.25	5.61	5.68

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

Sr. No.	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (10 m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	Pol % cane (10m)	Extraction % (10m)	Fibre % (10m)	NMC at 10m ('000/ha)
1	Co 09004	16.96	123.26	21.35	19.56	91.75	13.76	15.35	56.83	11.53	113.47
2	Co 09007	14.10	125.97	18.35	16.19	88.20	11.19	12.68	57.06	11.67	117.98
3	CoN 09072	16.88	138.68	19.13	17.37	90.88	12.17	13.61	60.41	11.68	129.72
Stds											
1	CoC 671	14.89	114.37	20.10	18.48	91.97	13.02	14.72	58.22	12.08	107.98
2	Co 94008	14.25	119.51	19.13	17.13	89.50	11.92	13.39	56.63	11.80	112.43
3	Co 85004	15.60	116.87	20.45	18.90	92.54	13.35	14.53	55.70	11.39	109.09
	<b>CD at 5 %</b>	<b>2.21</b>	<b>14.65</b>	<b>1.24</b>	<b>1.25</b>	<b>2.85</b>	<b>0.97</b>	<b>1.01</b>	<b>NS</b>	<b>NS</b>	<b>13.75</b>
	<b>CV %</b>	<b>9.49</b>	<b>7.89</b>	<b>4.16</b>	<b>4.63</b>	<b>2.09</b>	<b>5.10</b>	<b>4.77</b>	<b>4.63</b>	<b>2.55</b>	<b>7.93</b>

Sr. No.	Clone	Stalk Length (m)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (8 m)	Sucrose % (8 m)	Purity % (8 m)	CCS % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 09004	278.93	2.57	1.04	18.63	17.06	91.60	12.00	132.83	145.37	52.38
2	Co 09007	276.91	2.61	1.04	16.20	14.23	87.78	9.81	134.23	148.34	51.05
3	CoN 09072	274.17	2.76	1.23	16.93	15.23	90.40	10.63	146.36	166.06	54.83
Stds											
1	CoC 671	274.78	2.71	1.21	18.66	16.79	89.99	11.71	125.50	143.49	44.56
2	Co 94008	278.50	2.62	1.06	17.08	15.34	89.83	10.70	127.73	144.05	48.68
3	Co 85004	282.65	2.60	1.01	17.87	16.79	94.11	11.94	126.69	143.57	45.45
	<b>CD at 5 %</b>	<b>NS</b>	<b>0.09</b>	<b>0.09</b>	<b>1.24</b>	<b>0.93</b>	<b>NS</b>	<b>0.77</b>	<b>12.95</b>	<b>15.05</b>	<b>6.65</b>
	<b>CV %</b>	<b>7.56</b>	<b>2.26</b>	<b>5.58</b>	<b>4.68</b>	<b>3.87</b>	<b>3.71</b>	<b>4.60</b>	<b>6.5</b>	<b>6.72</b>	<b>8.91</b>

### 3. Initial Varietal Trial (Midlate)

Sr. No.	Clone	CCS t/ha	Cane yield t/ha	Brix % (12 m)	Sucrose % (12 m)	Purity % (12 m)	CCS % (12 m)	Pol % cane (12m)	Extraction % (12 m)	Fibre % (12 m)	NMC at 12 m ('000/ha)
1	Co 11005	12.36	100.42	19.55	17.63	90.04	12.31	12.89	55.73	11.25	95.83
2	Co 11007	13.14	108.33	21.05	17.88	85.04	12.13	12.52	55.95	11.97	106.87
3	Co 11012	15.27	121.25	22.20	18.66	84.09	12.59	13.75	60.17	11.51	116.25
4	Co 11019	15.07	118.54	19.95	18.13	90.83	12.71	11.95	56.40	12.01	107.91
5	Co 11020	12.35	94.37	22.80	19.32	84.69	13.09	12.85	54.66	11.75	90.42
6	Co 11021	11.73	93.75	20.15	17.99	89.15	12.51	12.34	54.32	11.55	91.87
7	Co 11022	12.95	100.42	20.95	18.60	88.75	12.90	12.99	57.68	11.66	98.96
8	Co 11023	11.65	94.58	19.50	17.63	90.21	12.32	13.48	57.12	11.45	94.58
9	Co 11024	12.15	104.58	18.35	15.61	90.51	11.62	11.21	55.18	11.43	102.29
10	CoM 11085	14.54	109.37	20.15	18.76	93.09	13.29	13.75	57.18	11.68	105.20
11	CoM 11086	13.49	103.33	20.05	18.51	92.26	13.06	13.84	55.07	11.17	104.79
12	CoM 11087	13.87	102.49	22.95	19.79	86.21	13.53	14.26	56.00	11.08	105.62
13	CoN 11073	15.53	126.03	19.40	17.59	90.65	12.32	12.55	59.92	11.43	121.66
14	CoN 11074	16.46	128.12	19.05	18.01	94.54	12.85	13.17	55.22	11.34	121.03
Stds											
1	Co 86032	15.21	113.53	21.75	19.32	88.80	13.40	14.71	57.33	11.65	111.24
2	Co 99004	13.21	96.66	21.65	19.56	90.29	13.67	14.35	55.18	11.38	91.24
	CD at 5 %	2.08	18.32	1.61	1.23	6.26	NS	0.46	NS	NS	16.57
	CV %	7.14	8.01	3.67	3.16	3.28	4.43	1.62	3.82	4.55	7.47

Sr. No.	Clone	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10 m)	No. of shoots ('000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 11005	250.80	2.50	1.07	18.45	16.37	88.70	11.34	123.26	148.03	36.90
2	Co 11007	254.50	2.58	1.06	18.55	16.05	86.50	10.99	141.78	167.94	54.48
3	Co 11012	268.85	2.69	1.15	18.95	17.52	92.46	12.38	144.91	172.11	58.73
4	Co 11019	265.86	2.66	1.21	18.05	15.32	84.88	10.40	144.21	167.36	52.16
5	Co 11020	276.11	2.63	1.02	18.70	16.43	87.14	11.33	120.60	142.94	35.56
6	Co 11021	295.17	2.56	0.97	18.50	15.74	85.06	10.69	120.25	144.56	39.79
7	Co 11022	251.37	2.47	1.04	18.80	16.59	88.22	11.47	133.33	156.36	46.66
8	Co 11023	266.71	2.44	0.95	18.80	17.16	91.25	12.05	125.93	149.30	43.45
9	Co 11024	290.54	2.40	1.05	17.90	14.28	79.79	9.37	118.51	141.43	40.33
10	CoM 11085	287.99	2.49	1.10	18.90	17.56	92.93	12.43	129.16	155.67	41.37
11	CoM 11086	257.54	2.72	1.04	19.15	17.56	91.72	12.36	130.67	150.92	52.38
12	CoM 11087	293.05	2.55	1.01	19.30	18.08	93.68	12.84	118.98	144.67	45.40
13	CoN 11073	265.84	2.69	1.28	18.25	15.98	87.54	11.01	150.34	175.11	55.54
14	CoN 11074	290.77	2.72	1.29	18.70	16.75	89.59	11.67	150.57	174.30	57.41
Std's											
1	Co 86032	265.36	2.49	1.09	20.10	18.78	93.43	13.32	142.59	167.24	46.44
2	Co 99004	255.38	2.54	1.13	19.25	18.25	94.83	13.04	123.72	146.52	45.72
	CD at 5 %	<b>2.23</b>	<b>0.07</b>	<b>0.19</b>	<b>0.34</b>	<b>0.57</b>	<b>2.62</b>	<b>0.54</b>	<b>6.21</b>	<b>16.98</b>	<b>2.67</b>
	CV %	<b>6.72</b>	<b>1.23</b>	<b>8.20</b>	<b>0.86</b>	<b>1.59</b>	<b>1.38</b>	<b>2.17</b>	<b>18.73</b>	<b>5.09</b>	<b>8.04</b>



## Particulars of crosses made for Navsari

### Station Crosses

Fluff planting date: - 02 /03/2015

Sr. No.	Cross No.	Female	Male	Quantity of fluff (g)	Plant Survival	
					Planted in polythene bag (08-04-15)	Planted in field (05-13/05/15)
1.	321	Co 86002	Co 86011	11	2041	1891
2.	322	Co 99006	Co 94008	12.5	2560	2540
3.	323	CoC 671	CoV 92102	28	16	16
4.	357	CoC 671	CoN 98133	30	41	41
5.	358	C 79180	Co 94005	29	30	30
6.	371	CoC 90063	CoN 91132	20	1819	1779
7.	393	Co 2000-10	CoT 8201	16	388	384
8.	394	Co 8371	Co 1148	15	202	199
9.	406	Co 87252	Co 94008	25.5	32	29
10.	408	Co 94007	2003 V 46	37.5	2	2
11.	452	Co 92007	Co 775	12	226	226
12.	484	CoSnk 03707	CoN 91132	26.5	49	48
13.	485	Co 7314	Co 8339	12.5	20	20
14.	550	Co 86032	Co 86249	20	370	369
			<b>Total</b>	<b>295.5</b>	<b>7796</b>	<b>7574</b>

### Zonal Crosses

Sr. No.	Female	Male	Quantity of fluff (g)	Plant Survival	
				Planted in polythene bag	Planted in field
1.	Co 86002	Co 1148	7.5	568	508
2.	Co 0312	Co 0209	8	33	33
3.	Co 8371	Co 99006	14	228	220
4.	Co 8371	Co86011	14	137	130
5.	Co 8213	Co 86011	17	194	194
6.	ISH 41	Co 94008	9.5	60	60
7.	Co 94012	Co97015	15	100	93
8.	CoV 94101	Co 97015	8	48	48
9.	CoC 671	CoT 8201	9	77	74
10.	CoC 671	Co 94008	10	39	37
11.	Co 86032	Co 94005	11.5	388	388
12.	Co 86032	Co 86250	6.5	28	28
13.	CoM 0265	CoC 671	6.5	30	30
14.	CoM 0265	Co 99006	8	31	31
		<b>Total</b>	<b>144.5</b>	<b>1961</b>	<b>1874</b>

## PCs

S. No.	Male	Quantity of fluff (g)	Plant Survival	
			Planted in polythene bag	Planted in field
1.	CoM 0265	15.5	149	139
2.	ISH 100	27	686	676
3.	Co 94012	32	127	117
4.	Co 85002 x Co 775	31.5	627	617
5.	CoA 7602 x Co 99006	35	410	400
6.	86V46 x Co 94008	23	1128	1118
7.	CoC 671 x CoT 8201	33	42	32
8.	CP 52-68 x Co 86011	10.5	391	381
9.	Co 2000-10 x CoV 92102	28	233	223
10.	CoC 90063 x ISH 69	28.5	205	195
11.	Co 7201 x Co 93009	22	544	534
12.	Co 8371	45.5	662	652
13.	CoV 89101	51.5	462	452
	<b>Total</b>	<b>383</b>	<b>5666</b>	<b>5536</b>

## GCs

Sr. No.	Female	Quantity of fluff (g)	Plant Survival	
			Planted in polythene bag	Planted in field
1.	Co 2000-10	6.5	--	--
2.	Co 8371	7.5	38	38
3.	Co 86032	15	29	29
4.	CoC 671	19	160	154
5.	CoN 05071	81.5	316	306
6.	CoN 91132	11.5	163	150
7.	CoN 05072	27	100	95
8.	CoN 03131	70.5	360	350
9.	CoN 07072	31	340	335
10.	CoN 98133	65.5	370	359
11.	CoM 9217	52.5	425	410
	<b>Total</b>	<b>387.5</b>	<b>2301</b>	<b>2226</b>

Crosses	Fluff Wt.	Plant Survival	
		Planted in polythene bag	Planted in field
<b>Station Crosses</b>	295.5	7796	7574
<b>Zonal Crosses</b>	144.5	1961	1874
<b>Poly Crosses</b>	383	5666	5536
<b>General Crosses</b>	387.5	2301	2226
<b>Grand Total</b>	<b>1210.5</b>	<b>17724</b>	<b>17210</b>

## **FLUFF SUPPLY PROGRAMME ( CROSSING PROGRAMME):**

### **Clonal Stage-I Trial**

A total of 1584 clones were selected from 17740 single plants raised in fluff ground nursery and were planted on 08-13/04/2015 in non replicated augmented design in Clonal stage-I trial.

### **Clonal Stage-II Trial**

A total of 115 clones were selected from C-I trial of 2411 clones and were planted on 19/03/2015 along with five checks in C-II trial with two replications.

### **Clonal Stage-III Trial**

A total of 50 promising clones along with six checks were planted in RBD with two replications in C-III trial on 21/02/2015.

### **The progress of selection under fluff supply programme is as under**

<b>Sr. No.</b>	<b>Year</b>	<b>Crosses</b>	<b>GC/PC</b>	<b>No. of seedlings</b>	<b>C-I</b>	<b>C-II</b>	<b>C-III</b>
<b>1</b>	2015	14+14=28	13+11=24	17210	-	-	-
<b>2</b>	2014	25+13=38	12+12=24	17740	1584	-	-
<b>3</b>	2013	20 + 13=23	41+13= 54	14521	1493	115	-
<b>4</b>	2012	16+14=30	13+18=31	23832	2411	377	50
<b>5</b>	2011	17+13=30	4+12=16	14740	1318	184	44
<b>6</b>	2010	26+15=41	39+12=51	6477	925	121	36

### **Number of Clones contributed for Zonal testing at national level.**

<b>Year</b>	<b>Early Clone</b>	<b>Midlate Clone</b>
2009	CoN 09071	CoN 09073
	CoN 09072	CoN 09074
2010	CoN 10071	CoN 10073
	CoN 10072	-
2011	CoN 11071	CoN 11073
	CoN 11072	CoN 11074
2012	CoN 12071	CoN 12073
	CoN 12072	CoN 12074
2013	CoN 13071	CoN 13073
	CoN 13072	CoN 13074
2014	CoN 14071	CoN 14073
	CoN 14072	CoN 14074

### 1. Initial Varietal Trial (Early )

Sr. No.	Clone	CCS (t/ha)		Cane yield (t/ha)		Brix % (10 m)		Sucrose % (10m)		Purity % (10m)		CCS % (10m)		Pol % cane (10m)		Extraction % (10m)	
		R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II
1	Co 11001	11.71	11.07	100.92	106.08	18.55	18.35	16.25	15.83	87.62	86.26	11.18	10.81	12.81	12.46	56.21	57.32
2	Co 11004	12.96	13.40	102.06	108.98	18.84	18.88	17.35	17.84	92.10	94.48	12.25	12.72	13.46	14.00	58.11	57.31
3	Co 11016	11.98	12.60	109.80	106.09	18.81	17.72	18.06	14.70	96.02	82.94	12.91	9.86	14.22	11.50	56.24	60.23
4	Co 11017	12.48	12.48	113.32	118.40	17.92	18.05	15.97	15.44	89.12	85.56	11.07	10.47	12.53	11.97	58.61	52.37
5	Co 11018	10.28	14.06	94.84	104.32	18.90	18.70	17.57	17.08	92.96	91.32	12.44	12.00	13.74	13.37	56.23	59.21
6	CoM 11081	15.02	15.58	111.41	115.03	19.41	19.86	18.77	18.81	96.68	94.72	13.58	13.44	14.79	14.69	58.24	59.11
7	CoM 11082	14.03	14.35	118.89	113.71	19.14	18.46	18.43	16.17	96.29	87.60	13.23	11.16	14.39	12.70	53.14	57.37
8	CoM 11083	14.50	14.50	134.10	122.69	18.18	16.37	17.18	14.90	94.50	91.02	12.13	10.44	13.43	11.76	58.11	61.23
9	CoM 11084	15.09	17.06	122.11	127.20	19.62	18.94	18.65	17.54	95.07	92.63	13.34	12.44	14.65	13.78	56.21	58.61
10	CoN 11071	15.42	15.42	129.41	123.86	18.66	18.94	16.70	17.87	89.51	94.33	11.64	12.72	13.07	14.00	59.15	59.24
11	CoN11072	14.06	16.00	124.93	118.66	18.94	18.90	17.38	17.56	91.77	92.90	12.25	12.43	13.68	13.86	57.31	58.33
12	CoT 11366	14.11	14.03	127.86	102.53	18.82	18.78	17.36	17.28	92.25	91.99	12.26	12.17	13.70	13.63	56.11	57.27
13	PI 11131	11.65	11.65	97.89	120.19	18.40	18.61	15.01	16.48	81.56	88.56	9.97	11.39	11.79	12.95	61.12	58.10
Std																	
1	CoC 671	12.34	11.96	90.52	100.73	19.60	18.83	18.59	17.34	94.87	92.07	13.28	12.26	14.68	13.59	56.11	52.31
2	Co 94008	9.90	11.14	91.65	100.03	18.55	18.35	16.53	15.53	89.13	84.63	11.47	10.50	12.93	12.19	55.15	58.21
3	Co 85004	13.51	12.87	91.43	115.21	22.19	19.02	20.15	16.34	90.80	85.90	14.09	11.33	15.83	12.85	56.10	56.71
	CD at 5 %	<b>1.75</b>		<b>18.40</b>		<b>1.39</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>		<b>NS</b>	
	CV %	<b>6.14</b>		<b>7.75</b>		<b>3.47</b>		<b>6.18</b>		<b>3.75</b>		<b>7.39</b>		<b>6.21</b>		<b>3.60</b>	

Sr. No.	Clone	Fibre % (10m)		NMC at 10 m ('000/ha)		Stalk Length (cm)		Stalk Diameter (cm)		Single cane weight (kg)		Brix % (8 m)		Sucrose % (8 m)		Purity % (8 m)	
		R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II
1	Co 11001	11.20	11.78	92.08	103.33	303.45	284.69	2.56	2.67	1.03	1.10	16.45	16.25	14.27	13.80	86.75	84.92
2	Co 11004	12.60	11.73	92.50	115.00	275.37	299.36	2.37	2.34	1.05	0.98	16.56	16.76	15.87	15.80	95.83	94.27
3	Co 11016	11.67	11.34	117.08	97.92	268.93	314.01	2.44	2.64	1.05	1.10	15.81	15.75	12.89	12.45	81.53	79.05
4	Co 11017	11.87	12.56	106.25	117.08	265.62	300.84	2.31	2.40	1.04	1.11	15.56	15.07	13.09	13.46	84.13	89.32
5	Co 11018	11.73	11.87	89.58	102.08	266.58	288.59	2.58	2.32	1.21	1.03	16.90	16.70	15.45	15.07	91.42	90.24
6	CoM 11081	11.90	11.34	102.92	105.00	291.82	258.22	2.53	2.86	1.08	1.12	17.41	17.89	16.01	16.69	91.96	93.29
7	CoM 11082	11.59	11.08	114.58	108.33	298.25	275.67	2.95	2.62	1.10	1.21	17.14	17.71	16.45	16.95	95.97	95.71
8	CoM 11083	11.54	11.49	124.16	120.00	301.55	268.47	2.70	3.04	1.33	1.15	16.98	16.37	12.56	12.63	73.97	77.15
9	CoM 11084	11.89	11.52	113.33	117.50	251.10	271.07	2.90	2.79	1.28	1.18	16.87	16.25	16.21	15.78	96.09	97.11
10	CoN 11071	11.32	11.94	115.00	117.08	242.79	271.01	2.92	2.60	1.30	1.16	17.76	16.47	14.04	15.68	79.05	95.20
11	CoN11072	12.67	11.88	110.41	108.75	243.69	279.53	2.56	2.52	1.21	1.31	15.87	15.39	14.66	14.29	98.74	99.42
12	CoT 11366	11.56	11.31	114.58	105.00	290.29	287.61	2.60	2.63	1.15	1.10	16.45	16.07	15.05	15.55	91.49	96.76
13	PI 11131	11.21	11.73	99.17	106.66	293.24	278.23	2.66	2.55	1.08	1.03	16.00	16.38	13.00	13.84	81.25	84.49
Stds																	
1	CoC 671	11.98	11.69	92.08	96.67	307.26	262.70	2.68	2.47	1.02	0.98	17.45	18.83	16.78	15.34	96.16	81.45
2	Co 94008	11.11	11.36	83.33	100.42	292.48	264.47	2.82	2.86	1.04	1.08	16.96	16.35	14.38	13.58	84.79	83.06
3	Co 85004	11.36	11.34	96.25	105.00	286.32	263.69	2.70	2.72	1.15	1.38	17.99	17.46	13.98	13.43	77.71	76.92
	CD at 5 %	NS		15.82		NS		0.31		0.17		0.96		1.13		9.25	
	CV %	3.05		7.01		7.56		5.50		7.15		2.69		3.61		4.91	

Sr. No.	Clone	CCS % (8 m)		No. of shoots (*000/ha) 240 days		No. of tillers (*000/ha) 120 days		Germination % (30 days)	
		R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II
1	Co 11001	9.78	9.36	120.83	132.18	146.99	154.40	45.38	51.36
2	Co 11004	11.39	11.26	121.99	128.24	143.98	156.25	42.37	48.61
3	Co 11016	8.56	8.13	125.46	119.44	150.92	142.82	53.31	56.10
4	Co 11017	8.84	9.36	126.85	120.60	155.32	142.59	45.38	48.21
5	Co 11018	10.86	10.53	121.06	118.05	148.61	142.36	42.36	44.35
6	CoM 11081	11.28	11.84	126.16	145.37	158.56	161.34	51.33	54.38
7	CoM 11082	11.81	12.15	120.60	147.22	151.62	164.58	52.21	50.23
8	CoM 11083	7.89	8.14	149.30	155.32	176.16	181.02	53.56	57.23
9	CoM 11084	11.64	11.38	129.86	125.46	160.88	141.43	48.31	40.36
10	CoN 11071	9.17	11.22	145.37	141.20	172.45	169.44	53.11	56.23
11	CoN11072	11.38	11.14	141.43	153.01	165.51	179.63	52.21	57.14
12	CoT 11366	10.58	11.20	140.05	142.82	157.41	173.84	48.36	54.23
13	PI 11131	8.62	9.37	132.18	128.47	163.19	146.06	52.11	56.21
<b>Stds</b>									
1	CoC 671	12.06	10.18	132.41	125.46	157.64	150.92	49.61	44.63
2	Co 94008	9.75	9.11	137.73	117.36	160.18	143.98	45.11	44.21
3	Co 85004	9.04	8.64	125.23	127.55	144.68	158.80	48.36	51.21
	<b>CD at 5 %</b>	<b>1.26</b>		<b>5.72</b>		<b>18.77</b>		<b>6.04</b>	
	<b>CV %</b>	<b>5.83</b>		<b>17.25</b>		<b>5.61</b>		<b>5.68</b>	

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

Sr. No.	Clone	CCS (t/ha)				Cane yield (t/ha)				Brix % (10 m)			
		R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV
<b>1</b>	<b>Co 09004</b>	17.48	18.15	15.16	17.05	114.72	118.33	125.00	135.00	20.30	23.30	19.40	22.40
<b>2</b>	<b>Co 09007</b>	14.99	13.85	15.72	11.84	131.94	133.61	115.55	122.77	18.20	18.80	18.30	18.10
<b>3</b>	<b>CoN 09072</b>	17.77	18.02	17.35	14.39	141.66	154.16	130.27	128.61	18.70	18.90	18.30	20.60
<b>Stds</b>													
<b>1</b>	<b>CoC 671</b>	16.77	15.46	13.67	13.65	114.72	119.16	125.27	108.33	20.20	20.80	18.90	21.90
<b>2</b>	<b>Co 94008</b>	13.18	12.65	15.17	16.00	120.00	109.72	124.44	123.89	18.50	18.50	19.00	20.50
<b>3</b>	<b>Co 85004</b>	17.01	16.21	14.75	14.44	113.61	115.27	127.50	101.11	20.40	20.40	18.90	20.70
	<b>CD at 5 %</b>	<b>2.21</b>				<b>14.65</b>				<b>1.24</b>			
	<b>CV %</b>	<b>9.49</b>				<b>7.89</b>				<b>4.16</b>			

Sr. No.	Clone	Sucrose % (10m)				Purity % (10m)				CCS % (10m)			
		R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV
<b>1</b>	<b>Co 09004</b>	18.88	21.23	18.40	19.72	93.00	91.12	94.85	88.04	13.37	14.90	13.14	13.62
<b>2</b>	<b>Co 09007</b>	15.46	17.17	16.48	15.65	84.95	91.33	90.05	86.46	10.49	12.06	11.50	10.71
<b>3</b>	<b>CoN 09072</b>	16.76	17.42	16.92	18.39	89.63	92.17	92.46	89.27	11.67	12.29	11.95	12.78
<b>Stds</b>													
<b>1</b>	<b>CoC 671</b>	18.77	19.13	18.08	19.62	92.92	91.97	95.66	89.59	13.29	13.48	12.96	13.66
<b>2</b>	<b>Co 94008</b>	16.24	16.09	17.67	18.50	87.78	86.97	93.00	90.24	11.20	11.05	12.51	12.93
<b>3</b>	<b>Co 85004</b>	18.98	18.66	17.46	18.83	93.04	91.47	92.38	90.97	13.44	13.12	12.33	13.20
	<b>CD at 5 %</b>	<b>1.25</b>				<b>2.85</b>				<b>0.97</b>			
	<b>CV %</b>	<b>4.63</b>				<b>2.09</b>				<b>5.10</b>			

Sr. No.	Clone	Pol % cane (10m)				Extraction % (10m)				Fibre % (10m)			
		R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV
1	Co 09004	14.83	16.72	14.41	15.42	53.71	61.24	58.21	54.15	11.45	11.23	11.67	11.78
2	Co 09007	12.11	13.45	12.93	12.24	61.21	58.15	54.21	54.67	11.67	11.67	11.57	11.78
3	CoN 09072	13.13	13.63	13.22	14.46	60.15	58.61	61.23	61.64	11.68	11.78	11.89	11.37
<b>Stds</b>													
1	CoC 671	14.65	14.94	14.17	15.13	58.15	54.61	53.43	56.61	11.93	11.89	11.62	12.89
2	Co 94008	12.69	12.54	13.90	14.44	60.12	58.61	54.21	53.58	11.83	12.09	11.34	11.92
3	Co 85004	14.91	14.66	13.75	14.79	58.21	57.73	56.68	60.24	11.45	11.45	11.22	11.44
	<b>CD at 5 %</b>	<b>1.01</b>				<b>NS</b>				<b>NS</b>			
	<b>CV %</b>	<b>4.77</b>				<b>4.63</b>				<b>2.55</b>			

Sr. No.	Clone	NMC at 10m ('000/ha)				Stalk Length (m)				Stalk Diameter (cm)			
		R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV
1	Co 09004	108.89	115.55	108.05	121.39	278.43	261.63	296.34	279.31	2.57	2.54	2.61	2.54
2	Co 09007	124.16	115.83	107.50	124.44	275.30	283.72	275.95	272.66	2.61	2.64	2.61	2.57
3	CoN 09072	134.44	138.89	124.16	121.39	264.85	233.02	293.52	305.29	2.67	2.71	2.81	2.84
<b>Stds</b>													
1	CoC 671	106.66	110.83	116.39	102.50	262.71	306.36	256.24	273.78	2.61	2.67	2.57	2.54
2	Co 94008	105.55	106.39	116.66	121.11	301.20	285.66	273.72	253.42	2.54	2.61	2.64	2.67
3	Co 85004	105.00	111.11	123.05	92.78	276.86	287.87	276.53	289.32	2.71	2.81	2.67	2.64
	<b>CD at 5 %</b>	<b>13.75</b>				<b>NS</b>				<b>0.09</b>			
	<b>CV %</b>	<b>7.93</b>				<b>7.56</b>				<b>2.26</b>			



Sr. No.	Clone	Single cane weight (kg)				Brix % (8 m)				Sucrose % (8 m)			
		R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV
1	Co 09004	1.08	1.12	0.98	0.96	18.99	18.54	17.54	19.45	16.58	17.25	16.42	17.98
2	Co 09007	0.98	1.03	1.04	1.10	16.24	16.45	16.03	16.10	13.52	15.24	14.58	13.56
3	CoN 09072	1.15	1.31	1.17	1.28	18.78	16.25	16.32	16.35	14.87	15.67	14.98	15.40
Stds													
1	CoC 671	1.08	0.98	0.91	1.06	18.20	18.45	18.54	19.45	16.24	17.38	16.25	17.29
2	Co 94008	1.10	1.08	1.00	1.04	16.47	16.24	17.24	18.35	14.00	14.98	15.87	16.52
3	Co 85004	1.25	1.18	1.12	1.28	18.78	18.46	16.99	17.24	16.99	16.85	16.45	16.87
	CD at 5 %	0.09				1.24				0.93			
	CV %	5.58				4.68				3.87			

Sr. No.	Clone	CCS % (8 m)				No. of shoots ('000/ha) 240 days				No. of tillers ('000/ha) 120 days			
		R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV
1	Co 09004	11.40	12.22	11.66	12.70	126.57	133.53	133.35	137.88	130.24	149.30	146.85	155.09
2	Co 09007	9.08	10.77	10.22	9.16	143.27	136.31	126.21	131.15	159.43	150.93	138.32	144.68
3	CoN 09072	9.72	11.27	10.55	10.97	131.17	154.27	155.14	144.86	152.89	178.11	163.78	169.47
Stds													
1	CoC 671	11.29	12.38	11.20	12.00	124.42	123.07	135.82	123.45	147.43	128.63	152.18	146.04
2	Co 94008	9.50	10.57	11.19	11.53	134.62	133.27	125.15	117.87	143.08	146.76	135.89	150.45
3	Co 85004	11.88	11.83	11.85	12.21	124.09	125.69	114.80	137.42	147.90	147.76	146.76	131.53
	CD at 5 %	0.77				12.95				15.05			
	CV %	4.60				6.5				6.72			

Sr. No.	Clone	Purity % (8 m)				Germination % (30 days)			
		R-I	R-II	R-III	R-IV	R-I	R-II	R-III	R-IV
1	Co 09004	87.31	93.04	93.61	92.44	46.51	52.67	57.21	53.11
2	Co 09007	83.25	92.64	90.98	84.22	56.15	48.21	51.23	48.61
3	CoN 09072	79.18	96.43	91.79	94.19	52.21	57.15	51.61	58.34
<b>Stds</b>									
1	CoC 671	89.23	94.20	87.65	88.89	43.15	40.21	48.73	46.15
2	Co 94008	85.00	92.24	92.05	90.03	54.21	51.18	43.21	46.12
3	Co 85004	90.47	91.28	96.82	97.85	50.11	40.21	43.36	48.11
	<b>CD at 5 %</b>	<b>NS</b>				<b>6.65</b>			
	<b>CV %</b>	<b>3.71</b>				<b>8.91</b>			

### 3. Initial Varietal Trial (Midlate)

Sr. No.	Clone	CCS (t/ha)		Cane yield (t/ha)		Brix % (12 m)		Sucrose % (12m)		Purity % (12m)		CCS % (12m)		Pol % cane (12m)		Extraction % (12m)	
		R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II
1	Co 11001	11.66	13.06	98.33	102.50	18.30	20.80	16.14	19.11	91.43	96.62	11.16	13.46	12.84	12.94	55.21	56.24
2	Co 11004	14.53	11.75	123.75	92.92	19.60	22.50	17.03	18.72	86.89	83.20	<b>10.94</b>	<b>11.03</b>	12.41	12.63	58.21	53.68
3	Co 11016	14.59	15.95	117.08	125.41	22.40	22.00	17.43	19.88	77.81	90.36	11.28	13.90	13.77	13.74	59.11	61.23
4	Co 11017	15.58	14.56	124.16	112.91	19.30	20.60	17.25	19.01	89.38	92.28	12.00	13.42	11.98	11.92	58.56	54.23
5	Co 11018	11.03	13.67	86.67	102.08	22.50	23.10	18.59	20.04	82.62	86.75	12.44	13.74	12.77	12.94	52.68	56.64
6	CoM 11081	11.19	12.27	89.17	98.33	18.80	21.50	16.46	19.51	87.55	90.74	11.34	13.67	12.37	12.32	53.43	55.21
7	CoM 11082	11.80	14.10	91.67	109.16	20.60	21.30	17.87	19.33	86.75	90.75	12.25	13.54	12.93	13.06	60.15	55.21
8	CoM 11083	10.86	12.44	89.58	99.58	18.40	20.60	16.02	19.23	87.07	93.35	11.00	13.64	13.36	13.59	58.14	56.10
9	CoM 11084	10.89	13.41	100.42	108.75	18.10	18.60	14.22	17.00	78.56	91.40	9.26	11.95	11.59	10.85	54.22	56.15
10	CoN 11071	13.31	15.77	103.75	115.00	19.60	20.70	18.14	19.38	92.55	93.62	12.82	13.76	13.71	13.80	56.21	58.15
11	CoN11072	13.08	13.90	97.92	108.75	19.00	21.10	17.40	19.61	91.58	92.94	12.24	13.88	13.80	13.89	54.47	55.68
12	CoT 11366	13.55	14.19	98.33	106.66	22.80	23.10	19.01	20.57	83.38	89.05	12.78	14.28	14.26	14.28	58.21	53.79
13	PI 11131	14.75	16.31	124.58	127.50	18.90	19.90	17.00	18.18	89.95	91.36	11.86	12.77	12.15	12.96	58.61	61.23
Stds																	
1	CoC 671	16.29	16.63	132.50	123.75	18.80	19.30	15.42	16.07	88.11	89.28	10.65	11.17	13.01	13.34	54.24	56.21
2	Co 94008	14.63	15.79	107.50	119.58	21.40	22.10	18.65	19.99	87.15	90.45	12.82	13.98	14.64	14.79	58.28	56.38
3	Co 85004	12.75	13.67	92.50	100.83	20.10	23.20	18.00	21.12	89.55	91.03	12.53	14.81	14.31	14.39	54.11	56.25
	CD at 5 %	<b>2.08</b>		<b>18.32</b>		<b>1.61</b>		<b>1.23</b>		<b>6.26</b>		<b>NS</b>		<b>0.46</b>		<b>NS</b>	
	CV %	<b>7.14</b>		<b>8.01</b>		<b>3.67</b>		<b>3.16</b>		<b>3.28</b>		<b>4.43</b>		<b>1.62</b>		<b>3.82</b>	

Sr. No.	Clone	Fibre % (12m)		NMC at 10 m ('000/ha)		Stalk Length (cm)		Stalk Diameter (cm)		Single cane weight (kg)		Brix % (10 m)		Sucrose % (10 m)		Purity % (10 m)	
		R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II
1	Co 11001	11.17	11.32	92.50	99.17	250.36	251.23	2.48	2.51	1.05	1.08	18.40	18.50	16.29	16.44	88.53	88.86
2	Co 11004	12.61	11.32	108.75	105.00	253.21	255.78	2.54	2.61	1.09	1.02	18.50	18.60	15.99	16.10	86.43	86.56
3	Co 11016	11.11	11.91	110.83	121.66	268.25	269.45	2.71	2.67	0.97	1.33	18.90	19.00	17.48	17.56	92.49	92.42
4	Co 11017	11.33	12.68	110.83	105.00	265.87	265.85	2.68	2.64	1.14	1.27	18.00	18.10	15.27	15.37	84.83	84.92
5	Co 11018	11.78	11.72	83.75	97.08	271.58	280.64	2.61	2.64	1.07	0.96	18.80	18.60	16.32	16.53	86.81	87.47
6	CoM 11081	11.05	12.05	88.33	95.42	298.56	291.78	2.58	2.54	1.01	0.92	18.40	18.60	15.70	15.77	85.33	84.78
7	CoM 11082	12.01	11.31	91.25	106.66	245.96	256.78	2.48	2.45	1.09	0.99	18.70	18.90	16.55	16.62	88.50	87.94
8	CoM 11083	12.04	10.85	103.33	85.83	268.56	264.85	2.45	2.42	0.92	0.98	18.70	18.90	17.10	17.21	91.44	91.06
9	CoM 11084	11.42	11.44	109.16	95.42	290.54	290.54	2.38	2.42	1.02	1.08	17.80	18.00	14.75	13.81	82.87	76.72
10	CoN 11071	11.74	11.62	99.17	111.25	288.36	287.63	2.48	2.51	1.06	1.14	18.80	19.00	17.52	17.61	93.19	92.68
11	CoN11072	11.34	11.00	96.25	113.33	258.64	256.45	2.71	2.74	1.08	1.01	19.20	19.10	17.53	17.60	91.30	92.15
12	CoT 11366	11.04	11.13	99.17	112.08	289.56	296.54	2.54	2.57	1.06	0.96	19.20	19.40	18.06	18.10	94.06	93.30
13	PI 11131	11.45	11.41	122.91	120.41	265.37	266.31	2.67	2.71	1.21	1.36	17.80	18.70	15.47	16.49	86.91	88.18
Stds																	
1	CoC 671	10.88	11.80	125.00	117.08	291.00	290.54	2.71	2.74	1.34	1.24	18.60	18.80	16.48	17.03	88.60	90.59
2	Co 94008	11.85	11.45	105.00	117.50	264.89	265.84	2.48	2.51	1.08	1.10	20.00	20.20	18.72	18.84	93.60	93.27
3	Co 85004	11.44	11.32	86.67	95.83	254.88	255.89	2.48	2.60	1.12	1.14	19.20	19.30	18.21	18.30	94.84	94.82
	CD at 5 %	NS		16.57		2.23		0.07		0.19		0.34		0.57		2.62	
	CV %	4.55		7.47		6.72		1.23		8.20		0.86		1.59		1.38	

Sr. No.	Clone	CCS % (10 m)		No. of shoots ('000/ha) 240 days		No. of tillers ('000/ha) 120 days		Germination % (30 days)	
		R-I	R-II	R-I	R-II	R-I	R-II	R-I	R-II
1	Co 11001	11.28	11.40	130.55	115.97	161.57	134.49	35.38	38.41
2	Co 11004	10.94	11.03	135.18	148.38	164.35	171.53	52.74	56.21
3	Co 11016	12.35	12.40	154.86	134.95	177.08	167.13	57.31	60.14
4	Co 11017	10.36	10.43	135.42	153.01	164.35	170.37	56.10	48.21
5	Co 11018	11.19	11.47	124.07	117.13	149.30	136.57	36.44	34.68
6	CoM 11081	10.68	10.69	118.29	122.22	150.46	138.66	41.21	38.36
7	CoM 11082	11.46	11.47	127.55	139.12	152.78	159.95	45.11	48.21
8	CoM 11083	12.02	12.07	116.20	135.65	146.06	152.55	42.21	44.68
9	CoM 11084	9.88	8.87	116.43	120.60	138.43	144.44	38.46	42.21
10	CoN 11071	12.42	12.45	125.00	133.33	148.15	163.19	36.38	46.36
11	CoN11072	12.31	12.41	127.55	133.80	150.00	151.85	48.56	56.21
12	CoT 11366	12.85	12.84	115.74	122.22	141.43	147.92	44.42	46.38
13	PI 11131	10.62	11.40	159.95	140.74	181.71	168.52	56.48	54.61
<b>Stds</b>									
1	CoC 671	11.42	11.92	144.68	156.48	172.68	175.92	56.62	58.21
2	Co 94008	13.29	13.36	139.12	146.06	163.19	171.30	48.21	44.67
3	Co 85004	13.01	13.07	126.85	120.60	143.75	149.30	51.24	40.21
<b>CD at 5 %</b>		<b>0.54</b>		<b>6.21</b>		<b>16.98</b>		<b>2.67</b>	
<b>CV %</b>		<b>2.17</b>		<b>18.73</b>		<b>5.09</b>		<b>8.04</b>	