

**Sugarcane Research Station
Muzaffarnagar**

Letter No.

Dated

To

Project Coordinator,
AICRP on Sugarcane,
Indian Institute of Sugarcane Research,
PO – Dilkusha, Lucknow- 226002

Sir,

Kindly find enclosed herewith the annual report of AICRP on sugarcane with statistically analyzed and replicated data of the trials in crop improvement, conducted during 2015-16

With regards

(DR VIRESH SINGH)
Joint Director

Letter No Date

Copy forwarded for the information and necessary action to:
Director, U P Council of Sugarcane Research, Shahjahanpur

**Sugarcane Research Station
Muzaffarnagar**

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Dated

To

Principal Investigator (Crop Improvement),
AICRP on Sugarcane,
ICAR- Sugarcane Breeding Institute,
Coimbatore -641007 (TN)

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2. Director, U P Council of Sugarcane Research, Shahjahanpur

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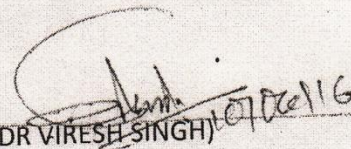
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Annual Report, 2015-16
Crop Improvement

All India Coordinated Research Project (Sugarcane)

(NORTH WEST ZONE)

Sugarcane Research Station, Muzaffarnagar (U P)

WEATHER REPORT, 2015-16

Sugarcane Research Station, Muzaffarnagar (U P)

Month	Temperature Mean C°		Humidity %		Total Rainfall (m. m.)	No. of rainy days
	Max.	Min.	Fore noon	After noon		
April ,2015	32.5	17.7	70	38	72.2	13
May,2015	38.5	22.6	51	30	18.4	01
June,2015	35.7	23.9	68	48	125.0	08
July,2015	32.4	24.8	85	72	224.6	10
August,2015	32.5	24.6	88	74	140.0	13
Sept,2015	34.0	22.4	80	56	110.1	03
Oct.,2015	31.9	16.9	78	47	-	-
Nov.,2015	27.3	12.1	78	50	5.2	01
Dec.,2015	21.7	6.5	89	57	-	-
Jan.,2016	19.7	6.0	93	55	-	-
Feb.,2016	24.7	10.1	82	41	5.2	02
March,2016	29.5	15.0	71	39	40.0	05
Mean/Total	30.0	16.9	77.7	50.6	693	56

1. Initial Varietal Trial (Early), 2015-16
Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S.No.	Entry	CCS (t/ha)	Cane Yield (t/ha)	Brix% (10m)	Suc% (10m)	Purity (10m)	CCS % (10m)	Pol % cane (10m)	Ext. % (10m)	Fibre % (10m)	NMC 10m (000/ha)
1	Co12026	8.81	71.55	20.54	17.95	87.40	12.34	12.95	49.38	13.30	112.888
2	Co12027	8.17	66.22	20.37	17.90	87.87	12.34	13.11	50.72	12.90	76.667
3	CoH 12261	7.41	60.88	20.04	17.63	88.00	12.17	12.72	60.00	13.24	87.111
4	CoLk 12201	9.68	77.11	20.54	18.15	88.36	12.55	13.04	50.00	13.65	112.222
5	CoLk 12202	5.44	45.55	19.70	17.32	87.92	11.95	12.60	54.83	13.42	97.555
6	CoLk 12203	11.53	97.33	19.97	17.30	86.64	11.84	12.68	43.48	13.40	126.666
7	CoLk 12204	10.83	90.22	19.87	17.41	88.08	11.99	12.44	48.86	13.10	102.888
8	CoPant 12221	8.70	73.33	19.47	17.15	86.82	11.84	12.47	45.16	13.05	116.666
9	CoPant 12222	6.03	52.44	18.87	16.67	87.86	11.53	12.11	45.00	14.10	58.026
10	CoS 12231	11.59	96.88	20.17	17.72	88.28	12.22	12.92	50.98	13.38	126.888
Stds											
1	CoJ 64	8.27	66.88	20.27	17.90	88.28	12.37	13.06	48.29	13.30	112.887
2	Co 0238	10.05	80.44	20.54	18.09	88.07	12.48	13.15	54.17	13.26	95.999
	SE	1.01	7.91	0.38	0.29	0.57	0.19	-	-	-	12.23
	CD	2.10	16.41	0.80	0.61	Nil	0.40	-	-	-	25.36
	CV	14.01	13.26	2.36	2.06	0.80	1.97	-	-	-	14.34

1. Initial Varietal Trial (Early), 2015-16
Sugarcane Research Station, Muzaffarnagar (U P)

(2)

S. No.	Entry	Stalk Length (m)	Stalk Dm (cm)	S C Wt (Kg)	Brix % (8m)	Suc. % (8M)	Purity % (8m)	CCS % (8m)	Tiller (000/ha) (120days)	Germination % (45days)
1	Co12026	2.01	1.9	0.810	20.22	17.00	84.09	11.47	207.55	35.69
2	Co12027	1.64	2.4	0.690	19.82	17.71	85.99	12.31	125.55	24.58
3	CoH 12261	1.93	2.6	0.850	20.29	16.78	82.74	11.23	133.99	22.08
4	CoLk 12201	1.83	2.6	0.910	20.05	16.68	83.19	11.19	215.11	50.27
5	CoLk 12202	2.08	2.6	0.690	18.45	15.32	83.01	10.27	145.33	38.33
6	CoLk 12203	2.21	2.5	0.920	18.05	14.83	82.15	9.88	236.66	54.58
7	CoLk 12204	1.99	2.2	0.880	18.79	15.92	84.77	10.79	207.99	52.91
8	CoPant 12221	1.94	1.7	0.620	17.59	15.08	85.75	10.28	223.33	51.80
9	CoPant12222	1.01	2.6	0.600	17.49	14.52	83.08	9.73	155.33	35.97
10	CoS 12231	2.12	2.3	0.797	19.42	16.52	85.07	11.21	247.99	47.08
Stds										
1	CoJ 64	1.50	2.2	0.613	20.10	17.32	86.13	11.83	197.99	48.89
2	Co 0238	1.80	2.5	0.960	19.99	17.35	86.70	11.88	171.99	43.89
	SE	1.02	0.22	0.05	0.38	0.36	0.91	0.38	13.92	4.76
	CD	2.11	0.47	0.12	0.79	0.76	0.90	0.80	28.88	9.87
	CV	14.02	11.88	8.19	2.45	2.78	1.33	4.27	9.02	13.87

2. ADVANCED VARIETAL TRIAL (Early) Ist Plant , 2015-16
Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S. No.	Entry	CCS t/ha	Cane Yield t/ha	Brix % 10m	Suc % 10m	Purity 10m	CCS % 10m	Pol % cane 10m	Ext. % 10m	Fibre % 10m	NMC 10m (000)
1	CoH 11262	8.60	75.55	18.93	16.57	87.54	11.40	12.36	45.95	13.48	101.92
2	CoLk 11201	6.42	53.48	20.12	17.50	87.17	12.01	12.55	55.17	13.96	90.96
3	CoLk 11202	10.49	88.59	19.25	17.08	87.73	11.83	12.60	48.67	13.38	117.92
4	CoLk 11203	10.41	84.89	20.42	17.80	87.29	12.22	12.92	51.90	13.82	111.85
Stds											
1	CoJ 64	8.44	69.92	19.62	17.43	88.86	12.09	12.95	52.32	13.35	109.62
2	Co 0238	9.48	75.70	20.67	18.17	87.94	12.50	13.11	56.09	13.64	103.11
	SE	0.92	6.76	0.70	0.44	1.29	0.27	-	-	-	7.73
	CD	2.07	15.06	Nil	Nil	Nil	0.61	-	-	-	17.23
	CV	12.68	11.09	4.34	3.14	1.80	2.82	-	-	-	8.88

ADVANCED VARIETAL TRIAL (Early), Ist Plant, 2015-16

(2)

S. No.	Entry	Stalk Length (m)	Stalk Dm (cm)	S C Wt (Kg)	Brix % (8m)	Suc % (8M)	Purity % 8m	CCS % 8m	Tiller 120days (000)	Germ. % 45days
1	CoH11262	1.68	2.10	0.760	15.34	13.04	85.02	8.85	169.92	30.83
2	CoLk11201	1.63	2.37	0.640	16.22	13.80	85.31	9.40	181.92	36.76
3	CoLk11202	2.20	2.70	0.850	16.20	13.69	84.50	9.27	206.66	50.22
4	CoLk11203	2.12	2.13	0.813	16.88	14.36	83.05	9.74	217.18	42.31
Stds										
1	CoJ 64	1.90	2.40	0.710	17.52	14.87	85.26	10.15	195.85	40.37
2	Co 0238	2.12	2.83	0.880	16.94	14.29	84.35	9.66	185.33	37.96
	SE	0.08	0.12	0.04	0.41	0.41	0.55	0.32	8.82	4.17
	CD	0.19	2.27	0.09	0.92	0.92	1.23	0.72	19.64	9.29
	CV	5.47	6.29	6.98	3.05	3.64	0.79	4.17	5.60	12.86

3. ADVANCED VARIETAL TRIAL (Early), IInd Plant, 2015-16

Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S.No.	Entry	CCS t/ha	Cane Yield t/ha	Brix% 10m	Suc% 10m	Purity 10m	CCS % 10m	Pol % cane 10m	Ext. % 10m	Fibre % 10m	NMC 10m (000)
1	Co 10035	9.26	79.11	19.63	17.06	88.08	11.71	13.92	48.38	13.58	118.66
2	CoH 10261	8.71	74.22	19.46	17.04	87.59	11.74	13.45	49.46	13.80	105.44
3	CoS 10231	11.14	96.44	19.11	16.77	87.77	11.56	13.61	51.64	13.90	130.11
Stds											
1	CoJ 64	8.28	70.78	19.24	16.95	88.07	11.70	13.65	55.00	13.30	109.66
2	CoPant 84211	7.51	65.11	19.41	16.80	87.83	11.50	13.60	50.88	13.66	98.77
	SE	0.67	5.66	0.36	0.26	0.71	0.19	-	-	-	8.10
	CD	1.47	12.34	Nil	Nil	Nil	Nil	-	-	-	19.61
	CV	10.67	10.41	2.64	2.23	1.14	2.32	-	-	-	11.31

3. ADVANCED VARIETAL TRIAL (Early) IInd Plant, 2015-16

(2)

S No.	Entry	Stalk Length (m)	Stalk Dm (cm)	S C Wt (Kg)	Brix % (8m)	Suc % (8M)	Purity % 8m	CCS % 8m	Tiller 120d (000)	Germ % 45days
1	Co 10035	2.16	1.75	0.750	19.10	16.65	87.14	11.31	229.11	45.90
2	CoH 10261	1.54	2.72	0.830	18.39	15.36	83.54	10.33	188.22	26.59
3	CoS 10231	2.15	2.55	0.910	18.36	15.74	85.71	10.72	232.77	53.81
Stds										
1	CoJ 64	2.11	2.27	0.680	18.79	16.39	86.72	11.26	198.55	49.37
2	CoPant 84211	1.82	2.22	0.740	18.62	16.12	86.54	11.03	172.66	33.68
	SE	0.14	0.22	0.06	0.26	0.30	0.55	0.23	6.81	2.00
	CD	0.32	0.48	0.14	Nil	0.66	1.20	0.50	14.86	4.37
	CV	10.71	13.97	11.72	2.00	2.69	0.90	2.98	4.72	6.77

4. ADVANCED VARIETAL TRIAL (Early) Ratoon, 2015-16
Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S. No	Entry	CCS t/ha	Cane yield t/ha	Brix % 9m	Suc % 9m	Purity % 9m	CCS % 9m	Pol % in cane 9m	Ext. % 9m	Fibre % 9m
1	Co 10035	7.54	61.67	19.81	17.18	88.00	11.77	12.65	50.42	13.42
2	CoH 10261	7.73	60.44	20.97	18.52	88.33	12.80	13.30	48.53	13.66
3	CoS 10231	9.81	79.55	20.41	17.91	87.76	12.34	12.79	50.20	13.80
Stds										
1	CoJ 64	7.14	57.11	20.93	18.23	87.08	12.51	13.36	54.38	13.35
2	CoPant 84211	6.65	52.22	20.57	18.09	87.99	12.48	13.02	49.12	13.74
	SE	0.51	4.73	0.30	0.29	0.52	0.23	-	-	-
	CD	1.12	10.32	0.65	0.64	Nil	0.50	-	-	-
	CV	9.46	10.77	2.06	2.13	0.84	2.66	-	-	-

4. ADVANCED VARIETAL TRIAL (Early) Ratoon, 2015-16

(2)

S. No	Entry	NMC 9m (000)	Stalk Length (cm)	Stalk Dm (cm)	S C Wt (Kg)	No. of tillers 90 days
1	Co 10035	98.22	1.60	1.82	0.660	163.66
2	CoH 10261	100.44	1.70	2.20	0.720	166.88
3	CoS 10231	106.99	2.08	2.20	0.850	178.22
Stds						
1	CoJ 64	98.66	1.82	1.80	0.600	164.44
2	CoPant 84211	85.11	2.03	2.12	0.650	141.11
	SE	5.74	0.14	0.15	0.05	9.32
	CD	12.50	0.31	0.33	0.10	20.30
	CV	8.29	11.21	10.24	9.27	8.09

5. INITIAL VARIETAL TRIAL (Mid- late), 2015-16
Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S.No.	Entry	CCS t/ha	Cane Yield t/ha	Brix % 12m	Suc % 12m	Purity % 12m	CCS % 12m	Pol % in cane 12m	Ext. % 12m	Fibre % 12m	NMC 12m (000/ha)
1	Co 12028	7.71	60.74	20.86	18.38	88.12	12.69	13.11	52.08	14.30	102.59
2	Co 12029	11.89	88.88	21.83	18.33	88.56	13.38	13.70	47.42	13.90	106.85
3	CoH 12262	8.70	63.52	21.93	19.29	87.95	14.70	13.74	48.61	14.60	92.22
4	CoH 12263	9.78	76.29	21.06	18.56	88.12	12.81	13.25	45.00	14.10	110.37
5	CoLk 12205	10.26	82.41	20.73	18.13	87.46	12.47	12.58	50.34	13.80	106.85
6	CoLk 12206	9.01	68.51	21.53	19.03	88.39	13.16	13.61	46.15	14.56	104.81
7	CoPant 12223	9.10	70.18	21.39	18.80	87.89	13.32	13.44	45.97	14.26	112.03
8	CoPant 12224	11.67	90.18	21.49	18.83	87.61	12.96	13.38	53.33	15.44	122.22
9	CoPant 12225	8.10	64.81	20.46	18.09	87.24	12.51	12.85	45.28	13.96	117.22
10	CoPant 12226	11.80	87.78	21.83	19.41	88.64	13.44	13.72	51.38	14.16	123.70
11	CoPb 12181	9.03	65.74	22.53	19.89	88.31	13.75	14.16	55.95	14.35	111.48
12	CoPb 12182	12.13	79.26	21.73	19.15	88.12	13.22	13.49	50.75	15.42	106.66
13	CoPb 12211	9.23	70.92	21.49	19.05	88.60	13.19	13.40	51.35	15.37	105.92
14	CoPb 12212	12.75	95.55	22.06	19.39	87.88	13.37	13.55	51.72	13.47	116.29
15	CoS 12232	12.90	98.15	21.39	18.97	88.68	13.14	13.53	50.00	14.26	116.11
Stds											
1	CoS 767	9.64	71.85	21.59	18.99	87.97	13.10	13.38	51.76	14.21	108.70
2	CoS 8436	10.20	74.63	22.39	19.79	88.39	13.68	13.82	50.67	13.77	105.18
3	CoPant 97222	8.84	65.55	21.96	19.50	87.78	13.51	13.70	53.57	14.22	120.92
	SE	0.945	4.987	0.319	0.334	0.611	0.241	-	-	-	6.694
	CD	1.920	10.133	0.770	0.679	NIL	0.489	-	-	-	13.601
	CV	11.476	8.026	2.151	2.149	0.850	2.242	-	-	-	7.496

5. INITIAL VARIETAL TRIAL (Mid- late), 2015-16

(2)

S. No	Entry	Stalk Length (m)	Stalk Diameter (cm)	S C Wt (Kg)	Brix % 10m	Suc. % 10m	Purity % 10m	CCS % 10m	Tillers (000) 120 days	Germination % 45days
1	Co 12028	1.95	2.33	0.647	18.36	15.53	84.68	10.58	170.37	35.42
2	Co 12029	2.32	2.23	0.857	18.91	16.54	87.52	11.38	205.92	49.58
3	CoH12262	1.80	2.87	0.763	19.83	16.96	85.55	11.59	168.88	35.83
4	CoH 12263	1.72	2.67	0.720	19.64	16.88	85.94	11.70	180.92	45.92
5	CoLk 12205	2.70	2.10	0.790	19.14	15.90	83.13	10.66	204.81	49.30
6	CoLk 12206	2.22	2.03	0.767	18.64	14.89	79.87	9.77	213.51	52.50
7	CoPant 12223	2.50	2.07	0.675	17.64	13.91	78.94	9.06	207.40	39.17
8	CoPant 12224	1.90	2.80	0.780	18.33	15.34	83.70	10.32	217.77	40.14
9	CoPant 12225	1.88	2.67	0.620	17.71	14.57	82.28	9.71	208.33	53.19
10	CoPant 12226	2.03	2.50	0.740	19.50	16.80	86.15	11.47	218.51	45.55
11	CoPb 12181	1.83	2.46	0.610	20.18	17.53	86.87	12.01	201.11	37.22
12	CoPb 12182	2.20	2.70	0.780	19.12	16.41	85.87	11.21	153.70	26.94
13	CoPb 12211	2.00	2.26	0.813	18.65	15.64	84.16	10.53	156.85	36.25
14	CoPb 12212	2.10	2.30	0.837	19.93	17.22	86.37	11.77	204.07	50.69
15	CoS 12232	1.62	1.97	0.847	19.67	17.13	87.10	11.75	206.85	36.53
Stds										
1	CoS 767	2.10	2.16	0.786	19.40	17.31	87.51	11.68	213.14	45.13
2	CoS 8436	1.40	2.37	0.753	20.34	17.27	84.92	11.71	184.81	41.39
3	CoPant 97222	1.85	2.27	0.650	19.89	17.08	85.78	11.65	172.96	34.58
	SE	0.16	0.18	0.06	0.40	0.35	1.17	0.30	9.86	5.07
	CD	0.33	0.37	0.12	0.81	0.71	2.39	0.61	19.94	10.29
	CV	9.90	9.30	9.13	2.56	2.63	1.70	3.35	6.20	14.90

6. ADVANCED VARIETAL TRIAL (Mid- late) Ist Plant, 2015-16
Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S. No.	Entry	CCS t/ha	Cane Yield t/ha	Brix % 12m	Suc % 12m	Purity % 12m	CCS % 12m	Pol % in cane 12m	Ext. % 12m	Fibre % 12m	NMC 12m (000/ha)
1	Co 11027	9.49	73.21	21.31	18.77	88.13	12.96	13.84	48.74	13.36	96.67
2	CoH 11263	7.85	61.11	21.30	18.67	87.63	12.86	13.47	50.37	14.16	86.91
3	CoLk 11204	9.05	68.64	21.64	18.09	88.21	13.19	13.44	49.84	14.41	115.80
4	CoLk 11206	12.82	97.04	21.77	19.15	87.95	13.21	13.77	51.16	13.86	125.92
5	CoPb 11214	9.59	74.94	21.24	18.61	87.60	12.81	13.90	45.06	13.66	102.34
6	CoS 11232	12.56	98.28	21.17	18.55	87.59	12.77	13.81	52.25	13.70	108.02
Stds											
1	CoS 767	9.88	78.02	20.91	18.38	87.89	12.67	13.92	50.22	14.22	113.33
2	CoS 8436	9.56	72.84	21.47	18.99	88.44	13.13	14.05	54.45	13.30	101.48
3	CoPant 97222	9.24	69.13	21.81	19.32	88.58	13.37	13.85	49.88	13.26	98.39
	SE	0.83	6.26	0.43	0.40	0.45	0.28	-	-	-	8.98
	CD	1.78	13.28	Nil	Nil	Nil	Nil	-	-	-	19.04
	CV	10.28	9.96	2.51	2.63	0.62	2.73	-	-	-	10.24

**6. ADVANCED VARIETAL TRIAL (Mid- late) Ist Plant, 2015-16
(2)**

S. No	Entry	Stalk Length (m)	Stalk Diameter (cm)	S C Wt (Kg)	Brix % 10m	Suc. % 10m	Purity % 10m	CCS % 10m	Tillers (000) 120 days	Germination % 45days
1	Co 11027	2.66	2.5	0.950	17.46	15.29	87.60	10.53	161.60	37.87
2	CoH 11263	1.62	2.6	0.980	17.84	14.92	83.61	10.04	143.45	32.31
3	CoLk 11204	1.47	2.1	0.540	17.47	14.91	84.25	9.94	193.33	48.70
4	CoLk 11206	1.90	2.4	0.790	17.11	14.26	87.01	10.01	205.92	49.81
5	CoPb 11214	1.63	1.9	0.570	16.81	14.60	86.82	10.02	198.02	42.22
6	CoS 11232	2.05	2.2	0.810	16.76	14.21	84.82	9.63	188.39	41.75
Stds										
1	CoS 767	1.85	2.1	0.680	17.01	14.34	84.29	9.69	153.45	35.18
2	CoS 8436	1.40	2.7	0.840	17.88	15.33	85.73	10.38	148.02	31.75
3	CoPant 97222	1.82	2.2	0.710	16.45	14.45	87.80	9.96	136.66	27.96
	SE	0.26	0.18	0.06	0.50	0.42	4.30	0.32	8.89	3.22
	CD	0.56	0.39	0.14	Nil	Nil	Nil	Nil	18.86	6.84
	CV	18.04	10.02	10.85	3.57	3.56	6.22	3.91	6.41	10.24

7. ADVANCED VARIETAL TRIAL (Mid- late) IInd Plant, 2015-16
Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S. No.	Entry	CCS t/ha	Cane Yield t/ha	Brix % 12m	Suc % 12m	Purity % 12m	CCS % 12m	Pol % in cane 12m	Ext. % 12m	Fibre % 12m	NMC 12m (000/ha)
1	Co 10036	12.30	97.53	20.62	18.24	88.46	12.61	12.65	48.57	13.56	98.39
2	CoH 10262	12.08	91.85	21.76	19.10	87.79	13.16	13.80	50.86	14.07	110.49
3	CoPant 10221	11.12	89.50	20.30	18.03	88.79	12.42	12.44	49.75	13.48	112.34
4	CoPb 10181	11.65	90.74	21.11	18.59	88.04	12.83	13.96	51.44	13.12	107.90
5	CoPb 10182	9.65	74.57	20.97	18.66	88.96	12.94	13.24	47.40	13.15	98.02
Stds											
1	CoS 767	9.08	70.62	20.83	18.53	88.95	12.85	13.22	50.63	14.15	108.02
2	CoS 8436	9.57	74.32	21.11	18.65	88.29	12.89	13.77	52.40	13.10	97.53
3	CoPant 97222	8.74	66.91	21.21	18.85	88.86	13.07	13.63	51.15	13.80	84.20
	SE	0.78	6.13	0.16	0.17	0.55	0.14	-	-	-	6.31
	CD	1.69	13.16	0.35	0.36	Nil	0.31	-	-	-	13.53
	CV	9.16	9.16	0.95	1.13	0.76	1.38	-	-	-	7.56

**7. ADVANCED VARIETAL TRIAL (Mid- late) IInd Plant, 2015-16
(2)**

S.No	Entry	Stalk Length (m)	Stalk Diameter (cm)	S C Wt (Kg)	Brix % 10m	Suc. % 10m	Purity % 10m	CCS % 10m	Tillers (000) 120 days	Germination % 45days
1	Co 10036	2.25	2.0	0.990	19.04	16.19	85.02	10.98	174.44	45.55
2	CoH 10262	1.82	2.8	0.870	19.37	16.98	87.66	11.79	206.54	51.01
3	CoPant 10221	1.97	2.3	0.850	19.00	16.74	88.08	11.55	217.03	35.92
4	CoPb 10181	1.78	2.6	0.846	18.75	16.72	89.19	11.61	207.28	49.16
5	CoPb 10182	2.40	3.0	0.860	18.08	16.03	88.67	11.00	198.76	45.09
Stds										
1	CoS 767	1.88	2.2	0.733	17.86	15.47	86.63	10.59	192.09	41.02
2	CoS 8436	1.40	2.9	0.823	19.46	16.82	88.44	11.51	176.29	37.22
3	CoPant 97222	1.83	2.1	0.720	19.21	16.76	87.19	11.51	171.60	38.80
	SE	0.15	0.20	0.04	0.36	0.43	0.94	0.40	8.33	7.62
	CD	0.33	0.44	0.10	0.77	0.93	2.01	NS	17.87	2.65
	CV	10.11	10.24	7.16	2.34	3.24	1.31	4.41	5.28	5.68

8. ADVANCED VARIETAL TRIAL (Mid- late) Ratoon, 2015-16

Sugarcane Research Station, Muzaffarnagar (U P)

(1)

S.No	Entry	CCS t/ha	Cane Yield t/ha	Brix % 11m	Suc % 11m	Purity % 11m	CCS % 11m	Pol % in cane 11m	Ext. % 11m	Fibre % 11m
1	Co 10036	7.95	75.31	18.57	15.62	84.13	10.57	11.89	54.05	13.82
2	CoH 10262	6.94	62.72	19.20	16.31	84.93	11.06	12.27	54.35	14.15
3	CoPant 10221	6.85	66.91	18.30	15.25	83.27	10.24	11.47	44.00	13.91
4	CoPb 10181	8.52	80.25	18.54	15.68	84.57	10.62	12.02	53.65	13.55
5	CoPb 10182	6.97	64.69	18.80	15.87	84.41	10.78	12.05	52.78	12.96
Stds										
1	CoS 767	6.39	61.23	18.70	15.34	84.98	10.41	11.90	47.06	13.76
2	CoS 8436	6.31	57.41	18.34	16.07	86.08	10.97	11.97	52.17	13.62
3	CoPant 97222	5.66	52.59	18.30	15.76	86.08	10.77	12.12	46.70	14.05
	SE	0.52	4.95	0.33	0.34	0.91	0.26	-	-	-
	CD	1.12	10.61	Nil	Nil	Nil	Nil	-	-	-
	CV	9.24	9.30	2.19	2.62	1.32	2.99	-	-	-

8. ADVANCED VARIETAL TRIAL (Mid- late) Ratoon, 2015-16

(2)

S. No	Entry	NMC 11m (000/ha)	Stalk Length (m)	Stalk Dm (cm)	S C Wt (Kg)	No of tillers 90 days (000/ha)
1	Co 10036	85.92	1.98	2.4	0.880	156.04
2	CoH 10262	97.90	1.92	2.5	0.750	179.50
3	CoPant 10221	102.83	1.60	2.2	0.720	195.43
4	CoPb 10181	99.62	1.82	2.5	0.840	172.71
5	CoPb 10182	95.80	2.03	2.3	0.690	189.01
Stds						
1	CoS 767	90.24	1.52	2.1	0.680	165.55
2	CoS 8436	84.56	1.18	2.6	0.700	154.32
3	CoPant 97222	82.83	1.98	2.3	0.660	150.24
	SE	5.80	0.10	0.15	0.05	6.57
	CD	12.44	0.22	0.33	0.11	14.09
	CV	7.68	7.19	7.58	8.86	4.72

**Replicated Data, North West Zone,
Sugarcane Research Station, Muzaffarnagar (U. P)
1. INITIAL VARIETAL TRIAL (Early), 2015-16**

S. No.	Entry	1 Germination			2 Shoots			3 NMC			4 Cane Yield (Kg /Plot)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co12026	80	95	82	314	289	331	179	136	193	103	92	127
2	Co12027	74	47	56	217	163	185	125	87	133	100	77	121
3	CoH 12261	58	61	76	185	215	203	116	128	148	80	92	102
4	CoLk 12201	105	162	95	325	297	346	169	135	201	112	94	141
5	CoLk 12202	99	88	89	201	212	241	105	156	178	49	68	88
6	CoLk 12203	123	131	139	329	341	395	171	189	210	130	142	166
7	CoLk 12204	117	136	128	283	306	347	118	156	189	110	131	164
8	CoPant 12221	116	130	127	298	337	370	168	175	182	86	106	138
9	CoPant 12222	77	82	100	211	248	240	131	99	153	82	59	95
10	CoS 12231	105	120	114	354	392	370	172	184	215	127	137	162
Stds													
1	CoJ 64	106	130	116	345	257	289	212	140	156	125	84	92
2	Co 0238	99	95	122	233	275	266	132	155	145	108	132	122

S. No.	Entry	5 CCS Kg/Plot			6 Brix % (8m)			7 Sucrose % (8m)			8 Purity % (8m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co12026	13.02	11.35	15.29	20.32	20.48	19.92	17.34	18.85	16.82	85.33	82.52	84.43
2	Co12027	11.92	9.64	15.22	19.82	20.12	19.52	17.07	17.20	18.86	86.12	85.48	86.37
3	CoH 12261	9.43	11.35	12.61	20.62	20.22	20.02	16.75	16.68	16.92	81.23	82.49	84.51
4	CoLk 12201	14.28	11.62	17.66	19.52	20.62	20.02	16.29	16.87	16.88	83.45	81.81	84.32
5	CoLk 12202	5.88	8.09	10.50	17.52	18.92	18.92	14.45	15.70	15.81	82.48	82.98	83.56
6	CoLk 12203	15.15	16.92	19.83	18.32	17.72	18.12	14.74	14.84	14.90	80.46	83.75	82.23
7	CoLk 12204	12.60	15.98	20.17	19.22	18.52	18.62	16.15	15.75	15.87	84.03	85.04	85.23
8	CoPant 12221	9.96	12.62	16.58	17.42	17.62	17.72	14.96	15.07	15.21	85.88	85.53	85.83
9	CoPant 12222	9.25	6.90	11.00	18.12	16.92	17.42	14.79	14.21	14.57	81.62	83.98	83.64
10	CoS 12231	14.89	17.13	20.12	19.42	19.12	19.72	16.17	16.62	16.77	83.26	86.92	85.04
Stds													
1	CoJ 64	15.40	10.31	11.51	20.12	19.62	20.57	17.41	16.58	17.97	86.53	84.51	87.36
2	Co 0238	13.30	16.59	15.32	20.72	19.72	19.72	17.87	16.99	17.20	86.24	86.16	87.22

S. No.	Entry	9 CCS % (8m)			10. Brix % (10m)			11. Sucrose % (10m)			12. Purity % (10m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co12026	11.78	11.26	11.37	20.77	20.77	20.07	18.32	18.01	17.58	88.20	86.71	87.29
2	Co12027	11.66	11.70	13.57	19.97	20.57	20.57	17.37	18.14	18.19	86.98	88.19	88.43
3	CoH 12261	11.09	11.14	11.45	19.57	20.37	20.17	17.13	17.90	17.87	87.53	87.87	88.60
4	CoLk 12201	10.94	11.22	11.40	20.87	20.47	20.27	18.44	17.95	18.05	88.35	87.69	89.05
5	CoLk 12202	9.65	10.52	10.63	19.77	19.67	19.67	17.39	17.28	17.30	87.96	87.85	87.95
6	CoLk 12203	9.71	9.99	9.94	20.27	19.77	19.87	17.21	17.32	17.37	84.90	87.61	87.42
7	CoLk 12204	10.89	10.69	10.78	19.27	20.17	20.17	16.72	17.70	17.80	86.77	87.75	88.25
8	CoPant 12221	10.20	10.26	10.37	18.77	19.77	19.87	16.70	17.30	17.44	88.97	87.51	87.78
9	CoPant 12222	9.82	9.58	9.60	17.37	19.87	19.37	16.01	17.13	16.87	87.15	86.21	87.09
10	CoS 12231	10.85	11.40	11.38	19.77	20.67	20.17	17.13	18.12	17.92	86.65	88.08	88.84
Stds													
1	CoJ 64	11.92	11.21	12.36	20.27	20.17	20.37	17.85	17.78	18.07	88.06	88.06	88.71
2	Co 0238	12.21	11.60	11.82	20.37	20.67	20.57	17.88	18.21	18.17	87.78	88.10	88.33

S. No.	Entry	13 CCS % (10m)			14 Cane Height (m)			15 Cane diameter (cm)			16. Single cane wt (Kg)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co12026	12.65	12.34	12.04	2.15	1.90	1.98	1.5	2.5	1.7	0.800	0.840	0.790
2	Co12027	11.92	12.53	12.58	1.46	1.75	1.71	2.3	2.5	2.4	0.730	0.710	0.630
3	CoH 12261	11.79	12.34	12.37	1.94	1.85	2.00	2.9	2.4	2.5	0.840	0.950	0.850
4	CoLk 12201	12.75	12.37	12.53	1.94	1.65	1.90	2.4	2.8	2.6	0.980	0.910	0.840
5	CoLk 12202	12.00	11.91	11.94	2.15	2.00	2.09	2.8	2.3	2.7	0.690	0.650	0.730
6	CoLk 12203	11.66	11.92	11.95	2.42	2.05	2.16	2.7	2.5	2.3	0.950	1.000	0.810
7	CoLk 12204	11.46	12.20	12.30	2.22	1.80	1.95	2.4	2.3	1.9	0.890	0.950	0.800
8	CoPant 12221	11.59	11.91	12.02	1.87	1.90	2.05	2.0	1.4	1.9	0.670	0.590	0.600
9	CoPant 12222	11.29	11.70	11.50	1.12	1.06	1.05	2.5	2.9	2.4	0.550	0.680	0.570
10	CoS 12231	11.73	12.51	12.42	1.95	2.16	2.25	2.0	2.5	2.4	0.860	0.920	0.610
Stds													
1	CoJ 64	12.32	12.28	12.52	1.38	1.45	1.67	2.4	2.3	1.9	0.590	0.640	0.610
2	Co 0238	12.32	12.57	12.56	2.05	1.75	1.60	2.6	2.7	2.2	1.040	0.840	1.000

2. ADVANCED VARIETAL TRIAL (Early), 1st Plant, 2015-16

S. No.	Entry	1 Germination%			2 Shoots			3 NMC			4 Yield (Kg /Plot)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	CoH11262	115	124	94	359	411	377	225	240	223	173	186	151
2	CoLk11201	132	116	149	433	401	394	206	225	183	133	112	116
3	CoLk11202	186	182	172	493	464	438	303	267	226	178	212	208
4	CoLk11203	141	169	147	491	468	507	260	287	208	170	194	209
Std													
1	CoJ 64	151	122	163	444	421	457	245	230	265	177	161	134
2	Co 0238	140	110	160	395	430	426	237	244	215	182	158	171

S. No.	Entry	5 CCS Kg/Plot			6 Brix % (8m)			7 Sucrose % (8m)			8 Purity % (8m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	CoH11262	19.12	21.15	17.80	15.20	15.20	15.61	12.82	13.06	13.24	84.34	85.92	84.80
2	CoLk11201	15.68	13.02	14.64	16.80	15.50	16.36	14.09	13.48	13.93	83.86	86.96	85.13
3	CoLk11202	20.52	25.03	25.27	15.80	16.20	16.61	13.06	13.98	14.05	82.65	86.29	84.56
4	CoLk11203	19.75	24.29	26.21	17.50	15.80	17.36	15.07	13.33	14.68	81.11	84.36	83.68
Std													
1	CoJ 64	20.73	19.93	16.31	18.00	16.80	17.78	15.28	14.58	14.96	84.88	86.78	84.12
2	Co 0238	23.17	18.83	21.97	16.80	17.20	16.82	13.97	14.66	14.25	83.15	85.23	84.68

S. No.	Entry	9 CCS % (8m)			10. Brix% (10m)			11. Sucrose % (10m)			12. Purity % (10m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	CoH11262	8.66	8.91	8.97	18.46	19.32	19.02	16.09	16.65	16.98	87.16	86.18	89.27
2	CoLk11201	9.49	9.25	9.46	19.82	20.22	20.32	17.20	17.16	18.16	87.28	84.86	89.37
3	CoLk11202	8.73	9.56	9.51	18.52	19.42	19.82	16.58	17.11	17.56	89.52	88.10	88.59
4	CoLk11203	11.29	9.01	9.93	18.62	21.82	20.82	16.69	18.49	18.22	89.63	84.73	87.51
Stds													
1	CoJ 64	10.36	9.99	10.10	19.22	19.82	19.82	16.95	17.78	17.58	88.19	89.70	88.69
2	Co 0238	9.37	9.96	9.65	21.32	19.28	21.42	18.55	17.17	18.70	87.47	89.07	87.30

S. No.	Entry	13 CCS% (10m)			14 Cane Height (m)			15 Cane diameter (cm)			16 Single cane wt. (kg)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	CoH11262	11.05	11.37	11.79	1.80	1.75	1.50	2.0	2.2	2.1	0.720	0.810	0.750
2	CoLk11201	11.79	11.63	12.62	1.65	1.50	1.75	2.0	2.6	2.5	0.650	0.590	0.680
3	CoLk11202	11.53	11.81	12.15	2.25	2.20	2.16	2.2	2.8	3.1	0.860	0.780	0.910
4	CoLk11203	11.62	12.52	12.54	2.05	2.10	2.20	2.0	2.2	2.2	0.760	0.800	0.880
Stds													
1	CoJ 64	11.71	12.38	12.17	1.90	1.80	2.00	2.1	2.6	2.5	0.710	0.650	0.770
2	Co 0238	12.73	11.92	12.85	2.20	2.05	2.10	2.6	2.9	3.0	0.810	0.950	0.880

3. ADVANCED VARIETAL TRIAL (Early), IInd Plant 2015-16

S. No	Entry	1 Germination %				2 Shoots				3 NMC				4 Yield (Kg /Plot)			
		R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4
1	Co 10035	167	173	168	153	480	542	526	514	309	286	244	229	194	152	170	196
2	CoH 10261	113	85	98	87	381	423	460	430	204	231	245	269	174	193	147	154
3	CoS 10231	188	196	201	190	503	529	500	563	293	289	313	276	216	195	235	222
Std																	
1	CoJ 64	179	188	167	177	436	432	470	447	270	231	221	265	166	141	174	156
2	CoPant 84211	126	139	123	97	344	407	422	381	199	245	211	234	162	128	140	156

S. No.	Entry	5 CCS Kg/Plot				6 Brix % (8m)				7 Sucrose % (8m)				8 Purity % (8m)			
		R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4
1	Co 10035	22.37	17.74	19.97	23.28	19.12	18.62	19.34	19.32	16.77	15.82	17.02	16.99	87.70	84.96	88.02	87.90
2	CoH 10261	19.85	23.06	17.45	18.05	18.32	18.22	18.58	18.44	15.11	15.19	15.68	15.49	82.48	83.37	84.38	83.98
3	CoS 10231	25.27	22.76	26.79	25.44	17.72	18.62	18.65	18.48	15.24	15.80	16.02	15.90	86.00	84.85	85.90	86.02
Std																	
1	CoJ 64	19.37	16.79	20.51	17.86	18.32	19.32	18.93	18.62	16.01	16.91	16.46	16.21	87.39	85.52	86.97	87.04
2	CoPant 84211	19.16	14.03	16.04	18.33	19.12	18.52	18.43	18.44	16.72	16.02	15.89	15.86	87.45	86.50	86.24	86.00

S. No.	Entry	9 CCS % (8m)				10. Brix % (10m)				11. Sucrose % (10m)				12. Purity % (10m)			
		R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4
1	Co 10035	11.55	10.73	11.75	11.23	19.97	19.07	19.77	19.71	16.99	16.87	17.15	17.26	89.56	88.46	86.75	87.56
2	CoH 10261	10.09	10.20	10.60	10.45	18.77	19.37	20.07	19.65	16.53	17.23	17.35	17.08	88.07	88.95	86.45	86.90
3	CoS 10231	10.40	10.71	10.92	10.85	19.77	19.17	18.37	19.14	17.10	16.90	16.40	16.68	86.50	88.16	89.27	87.14
Std																	
1	CoJ 64	11.01	11.64	11.29	11.12	19.07	19.17	19.87	18.88	16.87	17.13	17.21	16.60	88.46	89.36	86.61	87.90
2	CoPant 84211	11.50	10.96	10.86	10.82	19.77	19.57	18.97	19.33	17.23	16.32	16.63	17.02	87.15	88.50	87.66	88.04

S. No.	Entry	13 CCS% (10m)				14 Cane Height (m)				15 Cane diameter (cm)				16 Single cane wt. (kg)			
		R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4
1	Co 10035	11.53	11.67	11.75	11.88	2.10	2.25	1.80	2.50	1.8	1.5	2.3	2.0	0.810	0.680	0.780	0.730
2	CoH 10261	11.41	11.95	11.87	11.72	1.35	1.45	1.65	1.70	2.3	2.5	2.4	2.3	0.750	0.810	0.910	0.850
3	CoS 10231	11.70	11.67	11.40	11.46	2.10	2.20	2.15	2.15	2.3	2.0	2.5	2.2	0.950	0.760	0.890	1.050
Std																	
1	CoJ 64	11.67	11.91	11.79	11.45	2.30	1.70	2.20	2.25	2.0	1.7	2.3	1.7	0.740	0.650	0.780	0.550
2	CoPant 84211	11.83	10.96	11.46	11.75	1.60	1.85	2.00	1.85	2.0	2.4	2.1	2.0	0.620	0.800	0.750	0.780

3. ADVANCED VARIETAL TRIAL (Early), Ratoon, 2015-16

S. No.	Entry	1 Shoots				2 NMC				3 Yield (Kg /Plot)				4 CCS Kg/Plot			
		R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4
1	Co 10035	390	370	329	385	234	222	197	231	158	132	126	139	17.54	16.38	14.78	16.47
2	CoH 10261	346	402	389	365	208	244	233	219	119	156	139	130	15.61	19.84	17.99	16.16
3	CoS 10231	425	396	366	417	255	238	220	250	209	178	159	170	25.68	21.70	19.67	21.28
Std																	
1	CoJ 64	395	330	401	354	237	198	241	212	148	122	119	125	18.56	15.11	14.73	15.91
2	CoPant 84211	296	325	302	347	178	195	181	212	108	118	115	129	14.93	14.83	14.27	15.87

S. No.	Entry	5 Brix % (9m)				6 Sucrose % (9m)				7 Purity % (9m)				8 CCS % (9m)			
		R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4
1	Co 10035	19.86	20.46	19.14	19.77	16.54	17.99	16.95	17.25	88.28	87.92	88.56	87.24	11.10	12.41	11.73	11.85
2	CoH 10261	21.26	20.86	21.32	20.43	18.92	18.41	18.76	18.00	88.99	88.25	87.99	88.10	13.12	12.72	12.94	12.43
3	CoS 10231	20.66	20.06	20.28	20.63	17.93	17.66	17.90	18.15	86.78	88.03	88.25	87.99	12.29	12.19	12.37	12.52
Std																	
1	CoJ 64	21.46	20.26	20.66	21.35	18.41	17.92	18.02	18.56	85.78	88.45	87.20	86.90	12.54	12.39	12.38	12.73
2	CoPant 84211	20.66	20.46	20.48	20.67	18.29	18.15	18.00	17.95	88.52	88.70	87.90	86.82	12.65	12.57	12.41	12.30

S. No.	Entry	9 Cane Height (m)				10 Cane diameter (cm)				11 Single cane wt. (kg)			
		R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4	R-1	R-2	R-3	R-4
1	Co 10035	1.50	1.65	1.95	1.30	1.3	1.5	2.3	2.2	0.580	0.650	0.740	0.670
2	CoH 10261	1.40	1.70	1.90	1.80	2.3	2.5	2.2	1.8	0.700	0.710	0.680	0.790
3	CoS 10231	1.90	2.00	2.17	2.27	2.3	1.8	2.5	2.2	0.920	0.880	0.730	0.870
Stds													
1	CoJ 64	1.95	1.70	1.85	1.80	1.5	1.7	2.3	1.7	0.630	0.550	0.650	0.570
2	CoPant 8421	2.15	2.20	1.80	2.00	2.0	2.4	2.1	2.0	0.640	0.690	0.590	0.680

5. INITIAL VARIETAL TRIAL (Mid-late), 2015-16

S. No.	Entry	1 Germination %			2 Shoots			3 NMC			4 Yield (Kg /Plot)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 12028	94	53	108	326	305	289	191	188	175	115	102	111
2	Co 12029	122	128	107	366	360	386	207	184	186	157	148	175
3	CoH 12262	96	74	88	290	299	323	156	174	168	128	110	115
4	CoH 12263	121	107	103	312	344	321	195	192	209	150	137	125
5	CoLk 12205	103	135	117	377	362	367	180	188	209	148	160	137
6	CoLk 12206	118	137	123	385	371	397	178	212	176	122	118	130
7	CoPant 12223	84	90	108	362	388	370	203	193	209	118	127	134
8	CoPant 12224	89	106	94	410	376	390	236	224	200	161	174	152
9	CoPant 12225	118	123	142	390	374	361	190	211	232	113	109	108
10	CoPant 12226	119	97	112	396	378	406	223	211	234	155	146	173
11	CoPb 12181	90	94	84	368	378	340	211	190	201	119	127	109
12	CoPb 12182	53	65	76	275	268	287	180	170	199	145	122	161
13	CoPb 12211	85	76	100	281	270	296	211	186	175	128	115	140
14	CoPb 12212	124	134	107	374	363	365	222	209	197	172	157	187
15	CoS 12232	62	102	79	372	361	384	189	206	232	177	186	167
16	CoS 767	121	105	99	370	417	364	198	218	181	119	131	138
17	CoS 8436	113	89	96	390	274	334	189	174	205	151	122	130
18	CoPant 97222	54	99	96	319	338	277	195	181	177	118	105	131

S. No.	Entry	5 CCS Kg/Plot			6 Brix % (10m)			7 Sucrose % (10m)			8 Purity % (10m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 12028	15.00	12.67	13.96	17.16	19.06	18.86	14.96	15.98	15.66	87.18	83.84	83.03
2	Co 12029	21.63	19.43	23.13	18.66	19.16	18.90	16.43	16.44	16.76	88.08	85.80	88.68
3	CoH 12262	17.28	14.45	15.26	19.16	20.36	19.96	16.51	17.35	17.02	86.17	85.21	85.27
4	CoH 12263	19.33	17.94	15.56	19.46	19.66	19.81	17.05	16.76	16.83	87.61	85.25	84.96
5	CoLk 12205	18.73	19.53	17.16	19.66	19.76	18.99	15.65	16.08	15.98	83.87	81.38	84.15
6	CoLk 12206	16.04	15.37	17.27	18.86	18.46	18.62	15.06	14.63	14.99	79.85	79.25	80.50
7	CoPant 12223	15.32	16.77	17.08	16.66	18.36	17.89	13.56	14.15	14.02	81.39	77.07	78.37
8	CoPant 12224	21.10	21.80	20.12	17.36	19.06	18.56	14.45	16.22	15.36	83.24	85.09	82.76
9	CoPant 12225	14.09	13.72	15.96	17.46	17.46	18.21	14.31	14.31	15.10	81.96	81.96	82.92
10	CoPant 12226	20.80	19.18	23.78	18.46	20.06	19.97	15.72	17.71	16.98	85.16	88.28	85.02
11	CoPb 12181	16.64	17.27	14.88	20.36	20.06	20.11	17.95	17.29	17.35	88.16	86.19	86.27
12	CoPb 12182	28.46	15.61	21.44	19.46	18.66	19.24	16.08	16.26	16.90	82.63	87.14	87.84
13	CoPb 12211	16.26	14.47	19.09	18.06	18.86	19.02	15.24	15.63	16.04	84.38	83.76	84.33
14	CoPb 12212	23.51	21.13	24.25	20.16	19.96	19.68	17.40	17.25	17.00	86.31	86.42	86.38
15	CoS 12232	22.65	25.35	21.67	19.06	20.06	19.89	16.99	17.30	17.09	89.14	86.24	85.92
16	CoS 767	15.75	17.20	19.04	19.66	19.46.	19.08	17.41	16.66	16.86	88.55	85.61	88.36
17	CoS 8436	20.43	16.74	17.94	20.46	19.96	20.60	17.55	16.92	17.35	85.78	84.77	84.22
18	CoPant 97222	16.31	14.25	17.18	19.16	20.06	20.46	16.65	17.23	17.36	86.90	85.89	84.55

S. No.	Entry	9 CCS % (10m)			10. Brix % (12m)			11. Sucrose % (12m)			12. Purity % (12m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 12028	10.27	10.76	10.73	21.26	20.65	20.66	18.85	18.07	18.22	88.66	87.51	88.19
2	Co 12029	11.34	11.20	11.60	22.68	21.26	21.56	19.97	18.93	19.10	88.05	89.04	88.59
3	CoH 12262	11.27	11.78	11.74	22.48	21.66	21.66	19.64	19.05	19.18	87.36	87.95	88.55
4	CoH 12263	11.74	11.38	11.99	21.16	21.26	20.76	18.66	18.90	19.12	88.18	88.90	87.28
5	CoLk 12205	10.54	10.66	10.75	21.16	20.46	20.56	18.44	17.80	18.14	87.14	87.00	88.23
6	CoLk 12206	9.88	9.56	9.88	21.86	21.16	21.56	19.11	18.80	19.17	87.42	88.85	88.91
7	CoPant 12223	8.99	9.10	9.10	21.46	21.76	20.96	18.85	19.15	18.48	87.83	88.01	87.83
8	CoPant 12224	9.69	11.01	10.27	22.06	20.76	21.66	19.14	18.20	19.15	86.76	87.67	88.41
9	CoPant 12225	9.52	9.52	10.11	20.16	20.76	20.46	17.97	18.26	18.05	85.73	87.96	88.22
10	CoPant 12226	10.67	12.24	11.52	22.06	21.36	22.26	19.44	18.96	19.82	88.12	88.76	89.03
11	CoPb 12181	12.39	11.81	11.85	22.96	22.36	22.26	20.25	19.70	19.73	88.20	88.10	88.63
12	CoPb 12182	10.75	11.24	11.65	22.16	21.46	21.56	19.58	18.66	19.20	88.36	86.95	89.05
13	CoPb 12211	10.30	10.46	10.83	21.46	20.86	22.16	19.18	18.28	19.68	88.37	87.63	88.81
14	CoPb 12212	11.89	11.80	11.62	22.46	22.36	21.36	19.80	19.56	18.80	88.15	87.48	88.01
15	CoS 12232	11.79	11.82	11.65	20.56	22.06	21.56	18.40	19.64	18.87	89.49	89.03	87.52
16	CoS 767	12.05	11.34	11.65	22.26	21.66	20.86	19.32	19.04	18.61	86.79	87.90	89.21
17	CoS 8436	11.96	11.46	11.71	22.36	22.46	22.36	19.63	19.85	19.90	87.80	88.38	88.99
18	CoPant 97222	11.42	11.77	11.76	22.26	22.16	21.46	19.90	19.62	18.97	89.39	88.54	88.40

S. No.	Entry	13 CCS% (12m)			14 Cane Height (m)			15 Cane diameter (cm)			16 Single cane wt. (kg)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 12028	13.05	12.43	12.58	1.80	1.90	2.15	2.1	2.5	2.4	0.710	0.650	0.580
2	Co 12029	13.78	13.13	13.22	2.15	2.50	2.30	2.4	2.0	2.3	0.920	0.850	0.800
3	CoH 12262	13.50	13.14	13.27	1.65	2.00	1.75	2.5	2.9	3.2	0.750	0.800	0.740
4	CoH 12263	12.89	13.10	12.45	1.60	1.70	1.85	2.5	2.7	2.8	0.600	0.810	0.750
5	CoLk 12205	12.66	12.21	12.53	2.85	2.45	2.80	1.8	2.5	2.0	0.820	0.850	0.700
6	CoLk 12206	13.15	13.03	13.29	2.05	2.40	2.20	1.9	2.2	2.0	0.780	0.700	0.820
7	CoPant 12223	12.99	13.21	12.75	2.65	2.35	2.50	2.0	1.9	2.3	0.670	0.610	0.750
8	CoPant 12224	13.11	12.53	13.24	1.90	1.60	2.20	3.1	2.8	2.5	0.820	0.780	0.740
9	CoPant 12225	12.47	12.59	12.47	1.85	2.15	1.65	2.5	2.7	2.8	0.950	1.070	0.900
10	CoPant 12226	13.42	13.14	13.75	2.00	1.90	2.20	2.6	2.5	2.4	0.770	0.800	0.650
11	CoPb 12181	13.99	13.60	13.66	1.70	1.95	1.85	2.5	2.3	2.6	0.640	0.610	0.850
12	CoPb 12182	13.54	12.80	13.32	2.20	2.80	2.60	2.7	2.6	2.8	0.750	0.840	0.750
13	CoPb 12211	13.33	12.59	13.64	1.75	2.20	2.05	2.4	2.0	2.4	0.740	0.820	0.880
14	CoPb 12212	13.67	13.46	12.97	1.90	2.30	2.10	2.1	2.5	2.3	0.800	0.870	0.840
15	CoS 12232	12.80	13.63	12.98	1.35	1.90	1.60	2.0	2.1	1.8	0.920	0.780	0.840
16	CoS 767	13.24	13.13	12.92	1.90	2.15	2.25	2.1	2.4	2.0	0.850	0.700	0.810
17	CoS 8436	13.53	13.72	13.80	1.60	1.50	1.10	2.2	2.6	2.3	0.810	0.730	0.720
18	CoPant 97222	13.83	13.58	13.12	1.50	2.15	1.90	2.2	2.1	2.5	0.610	0.780	0.560

6. ADVANCED VARIETAL TRIAL (Mid- Late), 1st Plant, 2015-16

S. No.	Entry	1-Germination			2-Tillers			3-NMC		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 11027	132	152	125	444	436	429	354	326	255
2	CoH 11263	102	129	118	392	394	376	247	251	206
3	CoLk 11204	183	179	164	568	509	489	345	287	306
4	CoLk 11206	176	184	178	526	576	566	317	397	306
5	CoPb 11214	153	135	168	497	519	588	308	268	253
6	CoS 11232	163	139	149	496	529	501	261	287	327
1	CoS 767	124	117	139	439	406	398	308	314	296
2	CoS 8436	127	113	103	418	409	372	293	289	240
3	CoPant 97222	94	83	125	405	368	334	282	250	265

S. No.	Entry	4- Yield(kg)/ Plot			5- CCS Kg/Plot			6-Brix % (Jan)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 11027	212	195	186	28.00	24.57	24.33	17.77	16.78	17.83
2	CoH 11263	190	170	135	24.41	21.74	17.45	17.27	17.97	18.28
3	CoLk 11204	196	210	150	26.75	27.01	19.57	17.03	17.56	17.81
4	CoLk 11206	262	235	289	35.52	30.76	37.54	17.38	16.38	16.56
5	CoPb 11214	213	189	205	26.62	24.36	26.73	15.98	16.98	17.46
6	CoS 11232	255	265	276	31.08	34.63	36.02	16.81	16.76	16.70
1	CoS 767	187	227	218	24.12	29.08	26.81	15.58	17.77	17.69
2	CoS 8436	205	198	187	25.89	26.21	25.32	17.77	18.27	17.61
3	CoPant 97222	196	172	192	26.18	22.89	25.80	15.48	16.98	16.89

S. No.	Entry	7 Sucrose % (Jan)			8 Purity % (Jan)			9 CCS % (Jan)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 11027	14.91	15.10	15.86	83.90	89.98	88.93	10.05	10.53	11.00
2	CoH 11263	14.14	15.14	15.49	81.87	84.25	84.70	9.40	10.22	10.49
3	CoLk 11204	14.34	14.79	15.02	84.20	84.22	84.33	9.68	9.99	10.15
4	CoLk 11206	15.20	14.02	14.56	87.51	85.60	87.92	10.46	9.54	10.04
5	CoPb 11214	13.49	15.00	15.32	84.42	88.33	87.70	9.12	10.37	10.56
6	CoS 11232	14.22	14.17	14.25	84.59	84.55	85.33	9.62	9.59	9.69
Stds										
1	CoS 767	13.17	14.89	14.96	84.53	83.79	84.53	8.91	10.03	10.12
2	CoS 8436	14.79	15.85	15.36	83.23	86.75	87.20	9.92	10.86	10.36
3	CoPant 97222	13.54	14.95	14.85	87.46	88.04	87.90	9.32	10.32	10.24

S. No.	Entry	10 Brix% (March).			11 Sucrose% (March)			12 Purity % (March)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 11027	22.04	20.54	21.34	19.22	18.20	18.90	87.20	88.61	88.57
2	CoH 11263	21.54	21.14	21.24	18.73	18.56	18.72	86.95	87.80	88.13
3	CoLk 11204	22.24	21.24	21.44	19.72	18.65	18.90	88.67	87.81	88.15
4	CoLk 11206	22.14	21.74	21.44	19.59	19.02	18.84	88.48	87.49	87.87
5	CoPb 11214	20.74	21.44	21.54	18.16	18.74	18.92	87.56	87.41	87.84
6	CoS 11232	20.54	21.54	21.44	17.80	18.95	18.90	86.66	87.97	88.15
Stds										
1	CoS 767	21.24	21.24	20.24	18.70	18.61	17.82	88.04	87.61	88.04
2	CoS 8436	20.74	21.74	21.94	18.29	19.17	19.52	88.18	88.18	88.97
3	CoPant 97222	21.54	21.94	21.94	19.23	19.30	19.42	89.27	87.97	88.51

S. No.	Entry	13 CCS% (March)			14 Cane height (m)			15Cane diameter (cm)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 11027	13.21	12.60	13.08	2.68	2.95	2.35	2.5	2.2	2.2
2	CoH 11263	12.85	12.79	12.93	1.70	1.36	1.80	2.2	2.6	3.0
3	CoLk 11204	13.65	12.86	13.05	1.20	1.40	1.80	2.2	1.8	2.3
4	CoLk 11206	13.56	13.09	12.99	2.20	1.55	1.95	2.2	2.5	2.4
5	CoPb 11214	12.50	12.89	13.04	1.25	1.65	2.00	1.9	2.0	2.0
6	CoS 11232	12.19	13.07	13.05	2.20	1.45	2.50	2.3	2.1	2.2
Stds										
1	CoS 767	12.90	12.89	12.30	1.60	2.00	1.95	1.9	2.2	1.9
2	CoS 8436	12.63	13.24	13.54	1.55	1.00	1.65	3.0	2.4	2.7
3	CoPant 97222	13.36	13.31	13.44	2.10	1.80	1.55	2.3	1.8	2.4

S. No.	Entry	16 Single cane wt(kg)		
		R-1	R-2	R-3
1	Co 11027	1.100	0.850	0.900
2	CoH 11263	0.840	1.100	1.000
3	CoLk 11204	0.530	0.600	0.490
4	CoLk 11206	0.730	0.810	0.830
5	CoPb 11214	0.620	0.550	0.540
6	CoS 11232	0.850	0.760	0.820
7	CoS 767	0.600	0.730	0.710
8	CoS 8436	0.850	0.910	0.760
9	CoPant 97222	0.750	0.680	0.700

7. ADVANCED VARIETAL TRIAL (Mid- Late), IInd Plant, 2015-16

S. No.	Entry	1-Germination			2-Tillers			3-NMC		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 10036	153	166	173	466	501	446	256	286	255
2	CoH 10262	173	193	185	565	536	572	293	282	320
3	CoPant 10221	129	140	119	593	561	604	319	289	302
4	CoPb 10181	176	185	170	534	595	550	305	279	290
5	CoPb 10182	157	178	152	505	525	580	246	269	279
6	CoS 767	158	149	136	538	532	486	260	302	313
7	CoS 8436	143	131	128	466	486	476	266	270	254
8	CoPant 97222	123	144	152	482	448	460	232	255	195

S. No.	Entry	4- Yield(kg)/ Plot			5- CCS Kg/Plot			6-Brix % (Jan)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 10036	271	285	234	34.74	35.45	29.46	19.82	18.62	18.69
2	CoH 10262	243	265	236	32.03	34.42	31.43	19.42	19.42	19.26
3	CoPant 10221	253	230	242	31.37	28.34	30.39	19.12	18.82	19.07
4	CoPb 10181	229	266	240	29.54	34.77	30.07	18.62	18.62	19.01
5	CoPb 10182	201	172	231	26.29	22.08	29.84	18.09	17.82	18.34
6	CoS 767	208	185	179	27.06	23.98	22.55	17.92	17.62	18.04
7	CoS 8436	202	186	214	26.14	24.33	27.07	19.62	19.32	19.43
8	CoPant 97222	193	163	186	25.38	21.43	24.01	20.12	18.22	19.29

S. No.	Entry	7 Sucrose % (Jan)			8 Purity % (Jan)			9 CCS % (Jan)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 10036	16.66	15.89	16.02	84.05	85.34	85.68	11.23	10.80	10.91
2	CoH 10262	16.54	17.39	17.00	85.17	89.55	88.26	11.23	12.39	11.75
3	CoPant 10221	16.70	16.69	16.83	87.34	88.68	88.24	11.48	11.56	11.63
4	CoPb 10181	16.60	16.67	16.90	89.15	89.53	88.90	11.52	11.59	11.72
5	CoPb 10182	15.85	16.01	16.25	87.61	89.84	88.56	10.62	11.15	11.25
6	CoS 767	15.39	15.35	15.68	85.88	87.12	86.90	10.49	10.54	10.75
7	CoS 8436	17.47	16.92	16.07	89.04	87.58	88.70	12.12	11.65	10.75
8	CoPant 97222	17.76	15.56	16.96	88.27	85.40	87.90	12.27	10.58	11.70

S. No.	Entry	10 Brix% (March).			11 Sucrose% (March)			12 Purity % (March)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 10036	20.54	20.44	20.88	18.42	18.02	18.29	89.66	88.14	87.59
2	CoH 10262	21.58	21.95	21.75	19.07	18.99	19.26	88.36	86.49	88.54
3	CoPant 10221	20.26	20.29	20.35	17.93	18.06	18.10	88.49	88.99	88.91
4	CoPb 10181	21.11	21.33	20.89	18.66	18.89	18.23	88.36	88.54	87.24
5	CoPb 10182	21.04	20.93	20.95	18.81	18.55	18.63	89.39	88.60	88.90
6	CoS 767	21.08	20.77	20.65	18.76	18.62	18.23	88.97	89.63	88.25
7	CoS 8436	20.99	21.43	20.93	18.66	18.93	18.36	88.89	88.30	87.69
8	CoPant 97222	21.30	21.42	20.93	18.96	18.99	18.62	89.00	88.63	88.95

S. No.	Entry	13 CCS% (March)			14 Cane height (m)			15 Cane diameter (cm)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 10036	12.82	12.44	12.59	2.40	2.20	2.15	2.0	2.1	2.0
2	CoH 10262	13.18	12.99	13.32	1.80	1.90	1.75	3.0	2.5	2.9
3	CoPant 10221	12.40	12.32	12.56	2.20	1.72	2.00	2.3	2.7	2.0
4	CoPb 10181	12.90	13.07	12.53	1.70	1.78	1.85	2.5	2.4	2.8
5	CoPb 10182	13.08	12.84	12.92	2.00	2.50	2.70	3.3	3.0	2.7
6	CoS 767	13.01	12.96	12.60	1.90	1.80	1.95	2.5	1.9	2.2
7	CoS 8436	12.94	13.08	12.65	1.65	1.25	1.30	2.8	3.0	2.8
8	CoPant 97222	13.15	13.15	12.91	1.76	1.84	1.90	2.2	1.8	2.3

S. No.	Entry	16 Single cane wt(kg)		
		R-1	R-2	R-3
1	Co 10036	1.100	0.900	0.970
2	CoH 10262	0.750	0.940	0.920
3	CoPant 10221	0.800	0.970	0.780
4	CoPb 10181	0.900	0.850	0.790
5	CoPb 10182	0.850	0.950	0.780
6	CoS 767	0.750	0.800	0.650
7	CoS 8436	0.860	0.850	0.750
8	CoPant 97222	0.740	0.650	0.770

S. No.	Entry	7 Purity % (11m)			8 CCS % (11m)			9 Cane height (m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 10036	84.78	82.60	85.00	10.49	10.25	10.97	1.70	2.20	2.05
2	CoH 10262	84.38	84.44	85.96	11.00	10.83	11.36	2.00	1.90	1.85
3	CoPant 10221	84.16	80.93	84.71	10.55	9.40	10.77	1.50	1.70	1.60
4	CoPb 10181	85.34	83.43	84.95	10.89	10.19	10.77	1.80	1.90	1.75
5	CoPb 10182	83.29	84.43	85.51	10.94	10.60	10.81	2.20	2.00	1.90
6	CoS 767	86.80	81.96	86.17	10.87	9.26	11.11	1.60	1.50	1.45
7	CoS 8436	85.90	86.43	85.90	11.35	10.51	11.06	1.20	1.15	1.20
8	CoPant 97222	86.26	85.59	86.38	10.77	10.35	11.15	1.90	2.10	1.95

S. No.	Entry	10 Cane diameter (cm)			11 Single cane wt(kg)		
		R-1	R-2	R-3	R-1	R-2	R-3
1	Co 10036	2.9	2.8	2.5	0.840	0.910	0.890
2	CoH 10262	2.8	3.1	2.7	0.820	0.770	0.660
3	CoPant 10221	2.0	2.6	2.4	0.630	0.780	0.750
4	CoPb 10181	2.2	2.8	2.5	0.820	0.920	0.780
5	CoPb 10182	2.4	2.2	2.3	0.720	0.680	0.670
6	CoS 767	1.9	2.3	2.1	0.610	0.690	0.740
7	CoS 8436	2.3	2.9	2.7	0.630	0.710	0.760
8	CoPant 97222	2.3	2.4	2.2	0.720	0.690	0.570

