

**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 2016-17.

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**

Letter No.

Dated

To

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

Sir,

Kindly find enclosed herewith the annual report of AICRP on sugarcane with statistically analyzed and replicated data of the trials conducted during 2016-17 in crop improvement.

With regards

(DR VIRESH SINGH)
Joint Director

Letter No Date

Copy forwarded for the information and necessary action to:

1. Project Coordinator, AICRP on sugarcane. Indian Institute of Sugarcane Research,
PO – Dilkusha, Lucknow- 226002
2. Director, U P Council of Sugarcane Research, Shahjahanpur

Annual Report, 2016-17
Crop Improvement

All India Coordinated Research Project (Sugarcane)

(NORTH WEST ZONE)

Sugarcane Research Station, Muzaffarnagar (U P)

WEATHER REPORT, 2016-17

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 ,2016	37.1	20.7	50	23	3.0	1
May,2016	37.2	23.9	60	36	66.2	6
June,2016	36.0	25.7	75	53	37.4	5
July,2016	32.2	25.4	91	75	316.8	16
August,2016	33.3	25.1	88	73	187.8	12
Sept,2016	33.3	23.8	88	60	117.4	4
Oct.,2016	31.9	17.9	80	50	-	-
Nov.,2016	26.7	9.9	83	48	-	-
Dec.,2016	22.6	7.6	94	54	-	-
Jan.,2017	20.5	7.1	92	51	45.2	4
Feb.,2017	24.5	9.0	85	45	1.8	1
March,2017	28.4	12.8	69	35	18.0	4
Mean/Total	30.3	17.4	79.6	50.2	793.6	53

1. Initial Varietal Trial (Early), 2016-17
Sugarcane Research Station, Muzaffarnagar (U P)

Table-1

S.No.	Entry	CCS (t/ha)	Cane Yield (t/ha)	CCS % (10m)	Suc % (10m)	Brix % (10m)	Purity % (10m)	Pol % in Cane (10m)	Ext. % (10m)	Fibre % (10m)	NMC at 10m (000/ha)
1	Co13033	6.20	50.44	12.032	17.92	20.55	87.21	12.85	50.00	12.94	97.33
2	Co13034	9.03	71.56	12.61	18.13	20.29	87.42	13.96	52.27	13.26	90.22
3	CoLk13201	10.71	91.11	11.72	17.05	19.55	87.20	10.89	46.67	13.55	125.77
4	CoLk 13202	7.76	67.78	11.47	16.65	18.98	87.15	13.05	55.26	13.07	101.11
5	CoLk 13203	9.13	76.22	11.96	17.38	19.88	87.40	13.89	53.33	13.84	107.55
6	CoPant 13221	9.78	85.55	11.39	16.66	19.29	86.35	12.99	57.69	13.23	129.99
7	CoPant 13222	8.99	80.89	11.16	16.28	18.75	86.77	11.06	51.25	12.88	115.77
8	CoPb 13181	9.07	78.67	11.57	16.70	19.15	87.19	12.27	55.00	13.11	89.32
9	CoS 13231	9.88	82.44	11.99	17.42	19.88	87.57	11.97	52.17	13.27	124.22
Stds											
1	CoJ 64	7.95	67.11	11.85	17.22	19.68	87.49	12.51	53.33	13.15	109.55
2	Co 0238	9.63	79.78	12.06	17.52	20.02	87.52	12.72	52.75	13.35	91.55
	SE	0.92	7.72	0.362	0.480	0.412	0.814	-	-	-	8.70
	CD	1.91	16.11	NS	1.02	0.860	NS	-	-	-	18.15
	CV	12.70	12.51	4.057	3.424	2.572	1.143	-	-	-	9.91

1. Initial Varietal Trial (Early), 2016-17
Sugarcane Research Station, Muzaffarnagar (U P)

Table-2

S. No.	Entry	Stalk Length (m)	Stalk Diameter (cm)	Single CaneWt (Kg)	CCS % (8m)	Suc. % (8M)	Brix % (8m)	Purity % (8m)	Tiller (000/ha) (120days)	Germination % (45days)
1	Co13033	1.48	2.17	0.530	11.08	16.21	18.78	86.31	188.44	43.19
2	Co13034	2.28	2.30	0.980	11.60	16.96	19.65	86.33	190.66	46.11
3	CoLk13201	1.73	2.00	0.730	11.41	15.83	18.51	85.51	209.55	47.63
4	CoLk 13202	2.11	2.13	0.760	9.60	14.58	18.15	80.45	196.00	38.75
5	CoLk 13203	2.08	2.00	0.750	10.28	15.15	17.81	85.08	189.78	42.22
6	CoPant 13221	2.03	2.07	0.680	9.64	14.67	18.31	80.11	188.89	56.66
7	CoPant 13222	1.90	2.00	0.800	9.61	14.46	17.72	81.69	166.00	52.91
8	CoPb 13181	2.10	1.97	0.880	9.99	15.09	18.58	81.22	178.66	45.13
9	CoS 13231	2.26	1.93	0.670	10.81	15.98	18.91	84.46	205.55	42.63
Stds										
1	CoJ 64	1.50	2.00	0.650	11.23	16.60	19.61	84.62	195.33	37.63
2	Co 0238	1.93	2.33	0.910	11.01	16.28	19.25	84.62	187.78	45.27
	SE	0.147	0.089	0.043	0.484	0.387	0.459	1.479	8.34	3.64
	CD	0.306	1.186	0.090	1.009	0.807	0.957	3.086	17.40	7.60
	CV	9.226	5.242	6.947	5.622	3.034	3.012	2.165	5.37	9.85

2. ADVANCED VARIETAL TRIAL (Early) Ist Plant , 2016-17
Sugarcane Research Station, Muzaffarnagar (U P)

Table-1

S. No.	Entry	CCS (t/ha)	Cane Yield (t/ha)	CCS % (10m)	Suc % (10m)	Brix % (10m)	Purity % (10m)	Pol % cane (10m)	Ext. % (10m)	Fibre % (10m)	NMC 10m (000)
1	Co 12026	10.71	87.78	12.20	17.71	20.22	87.58	13.11	50.52	13.24	110.33
2	Co 12027	9.00	70.22	12.80	18.75	21.79	86.02	13.86	55.38	13.76	96.88
3	CoLk 12203	11.67	97.44	11.99	17.53	20.28	86.66	12.65	51.85	13.41	132.11
4	CoPant 12221	10.52	80.78	13.01	18.83	21.32	88.26	14.09	50.79	13.65	118.88
Stds											
1	CoJ 64	9.01	67.78	13.29	19.23	21.78	88.28	14.17	58.00	13.15	112.66
2	Co 0238	10.88	81.44	13.36	19.41	22.17	87.55	14.38	55.84	13.27	97.88
	SE	0.344	2.597	0.199	0.231	0.204	0.785	-	-	-	3.634
	CD	0.712	5.374	0.413	0.478	0.422	NS	-	-	-	7.519
	CV	4.725	4.540	2.210	1.761	1.356	1.272	-	-	-	4.612

ADVANCED VARIETAL TRIAL (Early), Ist Plant, 2016-17

Table-2

S. No.	Entry	Stalk Length (m)	Stalk Dm (cm)	Single Cane Wt (Kg)	CCS % 8m	Suc % (8M)	Brix % (8m)	Purity % 8m	Tiller 120days (000)	Germination % 45days
1	Co 12026	2.28	2.03	0.81	11.95	17.47	20.22	86.41	210.88	40.56
2	Co 12027	1.75	2.00	0.785	11.91	17.53	20.67	84.83	152.00	35.21
3	CoLk 12203	1.93	1.87	0.745	9.11	14.08	18.07	77.83	243.22	54.37
4	CoPant 12221	2.14	2.02	0.730	9.25	14.10	17.69	79.71	228.77	46.80
Stds										
1	CoJ 64	1.74	1.82	0.620	11.88	17.40	20.24	85.98	201.77	43.61
2	Co 0238	1.68	2.60	0.870	12.04	17.67	20.62	85.71	179.88	41.32
	SE	0.097	0.087	0.018	0.348	0.674	0.222	1.687	18.366	2.895
	CD	0.201	0.180	0.037	0.721	1.395	0.460	3.490	39.14	6.117
	CV	7.162	5.994	3.341	4.473	5.770	1.606	2.860	13.11	9.380

3. ADVANCED VARIETAL TRIAL (Early) IInd Plant , 2016-17
Sugarcane Research Station, Muzaffarnagar (U P)

Table-1

S. No.	Entry	CCS (t/ha)	Cane Yield (t/ha)	CCS % (10m)	Suc % (10m)	Brix % (10m)	Purity % (10m)	Pol % cane (10m)	Ext. % (10m)	Fibre % (10m)	NMC 10m (000)
1	CoH 11262	12.08	90.67	13.32	19.19	21.54	89.11	13.94	54.41	13.38	103.26
2	CoLk 11201	9.57	71.85	13.32	19.04	21.64	87.99	12.78	52.50	13.56	101.92
3	CoLk 11202	11.67	8948	13.06	18.86	21.27	88.65	13.44	47.60	13.10	109.04
4	CoLk 11203	10.49	77.48	13.54	19.59	22.17	88.35	13.10	50.48	14.06	113.48
Stds											
1	CoJ 64	8.83	65.93	13.39	19.34	21.80	88.67	13.78	51.06	13.23	111.55
2	Co 0238	10.68	79.26	13.48	19.43	21.85	88.92	13.85	52.00	13.30	95.11
	SE	0.865	6.574	0.144	0.113	0.118	0.538	-	-	-	3.680
	CD	1.928	14.587	NS	0.251	2.263	NS	-	-	-	8.201
	CV	10.044	10.136	1.325	0.716	0.666	0.743	-	-	-	4.264

3. ADVANCED VARIETAL TRIAL (Early), IInd Plant, 2016-17

Table-2

S. No.	Entry	Stalk Length (m)	Stalk Dm (cm)	S C Wt (Kg)	CCS % (8m)	Suc % (8M)	Brix % (8m)	Purity % 8m	Tiller 120days (000)	Germ. % (45days)
1	CoH11262	268.66	2.43	0.912	10.49	16.20	19.22	84.32	172.74	36.85
2	CoLk11201	177.66	2.37	0.720	11.54	16.92	19.69	85.95	183.55	38.98
3	CoLk11202	255.00	2.53	0.942	11.04	16.31	19.25	84.71	209.77	44.25
4	CoLk11203	196.33	2.03	0.870	11.24	16.53	19.35	85.58	220.59	48.51
Stds										
1	CoJ 64	167.00	2.23	0.670	11.35	16.64	19.39	85.83	196.44	40.64
2	Co 0238	198.00	2.48	0.920	11.33	16.61	19.32	85.99	184.88	38.24
	SE	0.102	0.10	0.253	0.245	0.371	0.506	0.732	8.714	2.571
	CD	0.228	0.223	0.056	NS	NS	NS	NS	19.414	5.729
	CV	5.950	5.212	3.688	2.676	2.751	3.196	1.049	5.482	7.635

4. ADVANCED VARIETAL TRIAL (Early) Ratoon, 2016-17

Sugarcane Research Station, Muzaffarnagar (U P)

Table-1

S. No	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (9m)	Suc % (9m)	Brix % (9m)	Purity % (9m)	Pol % in cane (9m)	Ext. % (9m)	Fibre % (9m)
1	CoH 11262	7.87	69.48	11.28	16.70	19.78	84.38	12.53	50.55	13.37
2	CoLk 11201	3.99	32.74	12.22	17.92	20.85	85.92	13.59	54.00	13.64
3	CoLk 11202	6.80	61.48	11.04	16.31	19.25	84.70	11.47	47.06	13.97
4	CoLk 11203	6.84	56.44	12.17	17.85	20.78	86.02	12.49	44.00	14.14
Stds										
1	CoJ 64	5.59	47.85	11.70	17.16	19.95	86.00	13.31	55.10	13.07
2	Co 0238	8.17	68.88	11.85	17.46	20.48	85.30	13.05	52.27	13.14
	SE	0.69	5.30	0.35	0.45	0.42	1.02	-	-	-
	CD	1.54	11.82	0.79	1.00	0.95	NS	-	-	-
	CV	12.93	11.57	3.71	3.20	2.58	1.46	-	-	-

4. ADVANCED VARIETAL TRIAL (Early) Ratoon, 2016-17

Table-2

S. No	Entry	NMC 9m (000)	Stalk Length (cm)	Stalk Dm (cm)	S C Wt (Kg)	No. of tillers 90 days
1	CoH 11262	100.59	142.33	2.63	0.743	146.96
2	CoLk 11201	81.18	112.33	2.48	0.425	165.18
3	CoLk 11202	105.18	153.67	2.06	0.630	189.92
4	CoLk 11203	102.22	164.00	2.00	0.585	169.33
Stds						
1	CoJ 64	99.40	154.00	2.26	0.510	152.00
2	Co 0238	96.59	174.33	2.42	0.750	148.89
	SE	4.08	0.09	0.07	0.02	7.84
	CD	9.08	0.20	0.15	0.04	17.47
	CV	5.12	7.26	3.53	3.97	5.92

5. INITIAL VARIETAL TRIAL (Mid- late), 2016-17
Sugarcane Research Station, Muzaffarnagar (U P)

Table-1

S.No.	Entry	CCS t/ha	Cane Yield t/ha	CCS % (12m)	Suc % 12m	Brix % 12m	Purity % 12m	Pol % in cane 12m	Ext. % 12m	Fibre % 12m	NMC 12m (000/ha)
1	Co 13035	9.29	69.72	13.34	19.27	21.74	88.63	14.33	55.55	14.65	93.05
2	Co 13036	7.91	60.28	13.02	18.86	21.40	88.10	13.87	50.00	13.90	104.71
3	CoH 13261	8.23	68.61	12.66	18.33	20.79	88.19	13.59	50.00	14.11	117.49
4	CoH 13262	13.00	100.80	12.82	18.68	21.49	86.96	13.64	51.61	14.38	115.00
5	CoH 13263	12.17	94.44	13.05	18.93	21.54	87.87	14.11	51.29	14.27	113.05
6	CoLk 13204	10.38	82.21	12.63	18.49	21.44	86.24	13.62	48.48	14.98	109.16
7	CoPant 13205	8.25	67.22	12.34	17.95	20.54	87.39	13.45	51.95	14.17	91.38
8	CoPant 13223	8.47	70.83	12.60	18.27	20.79	87.90	13.54	49.73	13.27	97.77
9	CoPant 13224	12.56	91.94	13.80	18.84	21.14	89.10	13.98	54.42	14.09	108.33
10	CoPb 13182	9.63	75.83	12.78	18.60	21.34	87.18	13.17	44.68	13.90	95.83
11	CoPb 13183	12.46	98.88	12.68	18.35	20.79	88.28	13.55	52.27	14.46	113.88
12	CoS 13232	13.24	103.88	12.77	18.55	21.19	87.56	13.70	53.51	14.63	114.44
13	CoS 13233	12.38	95.55	12.83	18.68	21.44	87.12	13.19	45.97	13.49	103.60
Stds											
1	CoS 767	9.00	70.55	12.90	18.72	21.34	87.71	13.71	41.43	13.86	111.94
2	CoS 8436	9.57	72.22	13.21	19.11	21.64	88.31	14.04	51.47	13.80	105.27
3	CoPant 97222	9.03	68.05	13.20	19.04	21.44	88.80	13.96	42.42	14.06	100.27
	SE	0.874	6.497	0.292	0.385	0.37	0.60	-	-	-	6.39
	CD	1.86	13.85	NS	NS	NS	1.28	-	-	-	13.62
	CV	8.42	8.05	2.27	2.06	1.77	0.68	-	-	-	6.04

5. INITIAL VARIETAL TRIAL (Mid- late), 2016-17

Table-2

S. No	Entry	Stalk Length (m)	Stalk Diameter (cm)	Single Cane Wt (Kg)	CCS % (10m)	Suc. % (10m)	Brix % (10m)	Purity % (10m)	Tillers (000) (120 days)	Germination % (45days)
1	Co 13035	2.15	2.55	0.981	12.22	17.75	20.27	87.59	183.05	37.29
2	Co 13036	2.05	2.25	0.610	12.08	17.66	20.42	86.49	157.49	28.54
3	CoH 13261	1.37	2.30	0.590	11.67	17.03	19.62	86.83	186.66	44.16
4	CoH 13262	2.83	2.60	1.040	11.45	16.71	19.27	86.72	201.66	41.46
5	CoH 13263	1.85	2.30	0.965	11.66	16.93	19.32	87.62	198.60	37.71
6	CoLk 13204	2.25	1.95	0.760	11.89	16.47	19.67	85.85	178.60	30.21
7	CoPant 13205	2.05	2.40	0.770	10.49	14.31	17.67	86.66	175.82	41.87
8	CoPant 13223	2.10	2.15	0.760	10.47	15.18	17.27	87.73	163.88	33.12
9	CoPant 13224	2.22	2.15	0.910	11.28	16.45	18.94	86.85	175.55	49.58
10	CoPb 13182	2.20	2.35	0.880	10.34	15.16	17.67	85.82	142.77	33.95
11	CoPb 13183	2.37	2.20	1.050	11.22	16.01	19.02	86.29	177.21	37.08
12	CoS 13232	2.26	2.35	0.985	11.03	16.22	19.02	85.28	201.38	39.79
13	CoS 13233	2.43	2.40	0.920	10.55	15.53	18.22	85.28	178.32	37.29
Stds										
1	CoS 767	2.18	2.05	0.710	11.31	16.61	19.37	85.74	186.66	38.95
2	CoS 8436	1.52	2.50	0.690	11.53	16.87	19.57	86.21	151.66	35.41
3	CoPant 97222	2.20	2.10	0.700	11.93	17.31	19.72	87.77	148.05	34.58
	SE	0.15	0.13	0.054	0.35	0.46	0.48	1.212	14.20	4.31
	CD	0.33	0.27	0.114	0.76	0.98	1.02	NS	30.27	9.19
	CV	7.28	5.63	6.461	3.14	2.80	2.53	1.401	8.26	11.35

6. ADVANCED VARIETAL TRIAL (Mid- late) Ist Plant, 2016-17
Sugarcane Research Station, Muzaffarnagar (U P)

Table-1

S. No.	Entry	CCS (t/ha)	Cane Yield (t/ha)	CCS % (12m)	Suc % (12m)	Brix % (12m)	Purity % (12m)	Pol % in cane (12m)	Ext. % (12m)	Fibre % (12m)	NMC 12m (000/ha)
1	Co 12029	12.15	91.35	13.31	19.23	21.72	88.53	14.23	52.43	13.94	104.93
2	CoH 12263	10.23	77.53	13.20	19.10	21.65	88.22	14.07	51.68	14.20	109.87
3	CoLk 12205	11.16	84.94	13.14	19.24	21.69	87.88	14.32	48.75	14.09	114.94
4	CoPant 12226	13.12	99.87	13.14	18.98	21.45	88.50	13.94	49.04	14.36	120.61
5	CoPb 12211	9.38	72.47	12.95	18.69	21.39	87.38	13.57	45.45	14.90	110.49
6	CoS 12232	13.35	101.11	13.27	19.22	21.82	88.08	14.16	48.15	14.32	117.40
Stds											
1	CoS 767	9.45	72.10	13.11	19.01	21.62	87.90	13.96	52.85	14.07	107.90
2	CoS 8436	9.83	73.21	13.44	19.41	21.92	88.58	14.14	50.00	13.96	95.06
3	CoPant 97222	9.04	67.53	13.39	19.37	21.95	88.25	14.21	48.39	14.13-	111.35
	SE	0.88	4.77	0.25	0.33	0.33	0.60	-	-	-	4.51
	CD	1.86	10.11	NS	NS	NS	NS	-	-	-	9.57
	CV	9.97	7.10	2.35	2.12	1.87	0.84	-	-	-	5.01

6. ADVANCED VARIETAL TRIAL (Mid- late) Ist Plant, 2016-17
Table-2

S. No	Entry	Stalk Length (m)	Stalk Diameter (cm)	S C Wt (Kg)	CCS % (10m)	Suc. % (10m)	Brix % (10m)	Purity % (10m)	Tillers (000) (120 days)	Germination % (45days)
1	Co 12029	2.22	2.37	0.930	11.53	16.81	19.32	86.87	212.71	53.70
2	CoH 12263	1.92	2.40	0.775	11.08	16.23	18.95	86.10	193.20	45.01
3	CoLk 12205	2.45	2.33	0.805	11.34	16.54	19.05	86.80	206.41	52.12
4	CoPant 12226	2.58	2.13	0.845	10.50	15.56	18.48	84.16	215.55	49.62
5	CoPb 12211	2.08	1.97	0.673	10.79	15.79	18.33	86.14	159.62	46.38
6	CoS 12232	2.25	2.13	0.875	10.64	15.64	18.32	85.39	209.38	47.96
Stds										
1	CoS 767	2.05	2.03	0.742	11.20	16.37	18.95	86.35	213.45	48.14
2	CoS 8436	1.57	2.40	0.860	11.72	17.06	19.58	87.13	190.36	39.81
3	CoPant 97222	1.92	2.30	0.655	11.73	17.08	19.60	87.30	183.82	37.96
	SE	0.16	0.13	0.027	0.28	0.37	0.35	0.62	6.44	3.29
	CD	0.35	0.28	0.058	0.59	0.79	0.74	1.32	13.65	6.99
	CV	9.58	7.37	4.250	3.05	2.79	2.25	0.89	3.98	8.63

7. ADVANCED VARIETAL TRIAL (Mid- late) IInd Plant, 2016-17
Sugarcane Research Station, Muzaffarnagar (U P)

Table-1

S. No.	Entry	CCS (t/ha)	Cane Yield (t/ha)	CCS % (12m)	Suc % (12m)	Brix % (12m)	Purity % (12m)	Pol % in cane (12m)	Ext. % (12m)	Fibre % (12m)	NMC 12m (000/ha)
1	Co 11027	10.00	80.49	12.44	18.12	20.81	87.04	14.35	51.11	13.92	110.49
2	CoH 11263	7.87	64.81	12.13	17.71	20.45	86.62	13.22	51.58	14.05	88.64
3	CoLk 11204	9.37	79.13	11.83	17.32	20.08	86.25	13.80	47.83	13.98	118.51
4	CoLk 11206	12.06	98.39	12.34	17.94	20.55	87.40	14.05	49.60	14.21	122.09
5	CoPb 11214	9.79	78.52	12.45	18.00	20.38	88.31	14.86	51.43	13.57	105.18
6	CoS 11232	12.72	101.48	12.37	17.91	20.31	88.18	14.16	50.00	14.11	108.64
Stds											
1	CoS 767	9.24	75.55	12.24	17.74	20.18	87.90	14.00	50.00	14.20	112.34
2	CoS 8436	9.33	73.20	12.58	18.06	20.48	88.18	14.46	48.48	13.48	102.09
3	CoPant 97222	8.76	70.27	12.49	18.08	20.51	88.13	14.15	48.53-	13.30-	100.24
	SE	0.52	3.55	0.29	0.33	0.34	0.52	-	-	-	4.52
	CD	1.11	7.52	NS	NS	NS	1.10	-	-	-	9.59
	CV	6.47	5.42	2.86	2.26	2.04	0.73	-	-	-	5.15

**7. ADVANCED VARIETAL TRIAL (Mid- late) IInd Plant, 2016-17
Table-2**

S. No	Entry	Stalk Length (m)	Stalk Diameter (cm)	S C Wt (Kg)	CCS % (10m)	Suc. % (10m)	Brix % (10m)	Purity % (10m)	Tillers (000) (120 days)	Germination % (45days)
1	Co 11027	2.25	2.21	0.930	10.58	15.63	18.47	84.60	190.73	41.94
2	CoH 11263	1.72	2.64	0.945	10.94	16.10	18.87	85.30	151.48	36.94
3	CoLk 11204	2.32	2.27	0.680	10.83	15.95	18.74	85.15	206.91	52.31
4	CoLk 11206	2.92	2.42	0.817	10.76	15.68	18.04	86.94	208.64	48.98
5	CoPb 11214	1.90	2.12	0.737	11.06	16.14	18.60	86.75	199.13	46.85
6	CoS 11232	2.55	2.10	0.890	9.40	13.92	16.55	84.17	195.68	50.46
Stds										
1	CoS 767	2.05	2.05	0.690	10.61	15.56	17.91	85.90	177.40	46.48
2	CoS 8436	1.46	2.43	0.760	10.80	15.86	18.40	85.60	161.60	42.04
3	CoPant 97222	2.30	2.20	0.687	10.36	15.28	18.00	84.87	145.30	40.32
	SE	0.08	0.06	0.041	0.19	0.28	0.38	0.67	9.27	3.37
	CD	0.17	0.13	0.088	0.40	0.60	0.81	1.42	19.65	7.15
	CV	4.59	3.33	6.403	2.20	2.22	2.56	0.96	6.24	9.14

8. ADVANCED VARIETAL TRIAL (Mid- late) Ratoon, 2016-17

Sugarcane Research Station, Muzaffarnagar (U P)

Table-I

S.No	Entry	CCS (t/ha)	Cane Yield (t/ha)	CCS % (11m)	Suc % (11m)	Brix % (11m)	Purity % (11m)	Pol% in cane (11m)	Ext. % (11m)	Fibre % (11m)
1	Co 11027	7.07	59.13	11.95	17.35	19.82	87.55	11.60	50.46	14.26
2	CoH 11263	5.55	45.18	12.32	17.49	20.05	87.23	12.14	51.36	14.10
3	CoLk 11204	6.14	52.34	11.74	17.10	19.62	87.14	11.31	48.92	14.85
4	CoLk 11206	6.82	57.90	11.81	17.16	19.62	88.15	13.01	50.47	15.11
5	CoPb 11214	7.50	68.88	10.79	15.87	18.59	85.38	12.58	49.74	14.36
6	CoS 11232	8.33	71.72	11.60	16.92	19.52	86.68	12.29	52.73	14.86
Stds										
1	CoS 767	6.57	57.16	11.51	16.71	19.05	87.53	11.98	51.02	14.57
2	CoS 8436	6.23	53.33	11.68	17.01	19.49	87.22	12.24	52.57	13.66
3	CoPant 97222	5.54	48.51	11.43	16.69	19.25	86.68	11.78	50.38	13.51
	SE	0.62	5.39	0.28	0.28	0.25	0.53	-	-	-
	CD	1.31	11.43	0.59	0.58	0.54	1.12	-	-	-
	CV	11.43	11.55	2.91	2.00	1.61	0.75	-	-	-

8. ADVANCED VARIETAL TRIAL (Mid- late) Ratoon, 2016-17

Table-II

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 11027	103.94	1.53	2.42	0.660	184.93
2	CoH 11263	83.08	1.05	2.30	0.592	161.35
3	CoLk 11204	99.01	1.27	2.22	0.575	205.92
4	CoLk 11206	113.70	1.78	2.32	0.562	217.28
5	CoPb 11214	92.46	1.68	2.36	0.805	208.88
6	CoS 11232	99.01	2.00	2.00	0.745	203.45
Stds						
1	CoS 767	108.39	1.26	1.88	0.610	184.56
2	CoS 8436	91.23	1.18	2.46	0.660	177.65
3	CoPant 97222	89.75	1.42	2.02	0.610	154.81
	SE	7.86	0.12	0.10	0.02	9.88
	CD	16.67	0.23	0.22	0.03	20.95
	CV	9.84	9.09	5.66	3.21	6.41

Replicated Data, North West Zone,
Sugarcane Research Station, Muzaffarnagar (U. P)
1. INITIAL VARIETAL TRIAL (Early), 2016-17

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	Co13033	126	90	95	292	285	271	156	132	150	75	82	70
2	Co13034	121	109	102	299	272	288	150	125	131	120	95	107
3	CoLk13201	125	107	111	287	331	325	171	187	208	155	120	135
4	CoLk 13202	79	103	97	304	295	283	171	155	129	104	118	83
5	CoLk 13203	105	97	102	280	275	299	163	142	179	98	115	130
6	CoPant 13221	146	132	130	264	291	285	190	202	193	112	128	145
7	CoPant 13222	125	135	121	252	258	237	174	193	154	123	135	106
8	CoPb 13181	100	117	108	270	285	249	133	148	121	133	102	119
9	CoS 13231	110	94	103	302	294	319	188	198	173	129	122	120
10	CoJ 64	88	103	80	293	302	284	168	177	148	98	88	116
11	Co 0238	127	105	94	301	264	278	154	119	139	121	111	127

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	Co13033	9.63	9.61	8.67	19.08	18.78	18.48	16.63	16.12	15.88	87.16	85.83	85.93
2	Co13034	15.80	12.03	12.82	20.08	19.78	19.08	17.42	17.07	16.40	86.75	86.29	85.95
3	CoLk13201	18.52	13.13	16.55	18.98	18.68	17.88	16.37	15.92	15.21	86.25	85.22	85.06
4	CoLk 13202	11.57	13.64	9.73	18.38	18.68	17.38	14.54	14.40	14.80	79.11	77.08	85.16
5	CoLk 13203	11.18	14.31	15.62	17.18	17.88	18.38	14.63	15.19	15.65	85.16	84.95	85.15
6	CoPant 13221	12.26	14.36	17.40	17.58	18.08	19.28	14.30	14.24	15.47	81.34	78.76	80.24
7	CoPant 13222	14.03	14.07	12.34	17.09	18.28	17.78	14.61	14.72	14.06	85.48	80.52	79.08
8	CoPb 13181	14.63	12.03	14.18	18.68	18.78	18.28	14.94	15.31	15.02	79.98	81.52	82.17
9	CoS 13231	15.01	14.52	14.92	18.78	18.38	19.58	15.79	15.48	16.66	84.08	84.22	85.08
10	CoJ 64	11.38	10.49	13.94	19.58	19.58	19.68	16.64	16.81	16.34	84.98	85.85	83.03
11	Co 0238	14.50	13.02	15.82	19.28	19.68	18.78	16.40	16.56	15.87	85.06	84.30	84.50

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	Co13033	11.42	10.99	10.83	20.92	20.42	20.32	18.56	17.30	17.92	88.72	84.72	88.19
2	Co13034	11.94	11.67	11.19	20.02	20.72	20.12	18.61	18.32	17.47	87.01	88.42	86.82
3	CoLk13201	13.09	10.81	10.32	19.52	18.62	20.52	17.27	16.03	17.86	88.47	86.09	87.04
4	CoLk 13202	9.49	9.26	10.05	18.52	19.22	19.22	16.18	16.81	16.97	87.36	87.46	86.63
5	CoLk 13203	9.93	10.30	10.62	19.12	20.42	20.12	16.63	18.01	17.51	86.98	88.20	87.03
6	CoPant 13221	9.48	9.27	10.18	18.92	18.82	20.12	16.12	16.36	17.49	85.20	86.93	86.93
7	CoPant 13222	9.94	9.71	9.18	19.02	17.82	19.42	16.60	15.29	16.94	87.27	85.80	87.23
8	CoPb 13181	9.81	10.16	10.01	18.52	19.22	19.72	16.06	16.75	17.30	86.71	87.15	87.73
9	CoS 13231	10.65	10.45	11.32	19.42	19.72	20.52	16.94	17.28	18.03	87.23	87.63	87.86
10	CoJ 64	11.29	11.46	10.95	19.32	19.82	19.92	16.88	17.33	17.46	87.37	87.44	87.65
11	Co 0238	11.13	11.18	10.73	19.82	19.82	20.42	17.40	17.14	18.03	87.79	86.48	88.30

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	Co13033	12.85	11.72	12.38	1.45	1.75	1.25	2.2	2.3	2.0	0.500	0.530	0.560
2	Co13034	13.17	12.67	11.98	2.45	2.10	2.30	2.2	2.3	2.4	1.080	0.910	0.950
3	CoLk13201	11.95	10.94	12.26	1.55	1.75	1.90	2.0	1.8	2.2	0.720	0.690	0.780
4	CoLk 13202	11.13	11.56	11.73	1.90	2.20	2.25	2.1	2.2	2.1	0.760	0.810	0.710
5	CoLk 13203	11.41	12.44	12.02	2.25	1.80	2.20	2.0	2.1	1.9	0.740	0.730	0.780
6	CoPant 13221	10.95	11.22	12.00	1.85	2.10	2.15	2.1	2.1	2.0	0.730	0.630	0.680
7	CoPant 13222	11.41	10.42	11.64	1.85	1.90	1.95	2.0	1.9	2.1	0.750	0.840	0.810
8	CoPb 13181	11.00	11.80	11.92	2.05	1.95	2.30	1.9	2.0	2.0	0.980	0.810	0.850
9	CoS 13231	11.64	11.90	12.43	2.25	2.45	2.10	1.9	1.9	2.0	0.650	0.690	0.670
10	CoJ 64	11.61	11.92	12.02	1.60	1.45	1.45	2.1	2.0	1.9	0.610	0.660	0.680
11	Co 0238	11.99	11.73	12.46	1.80	1.90	2.10	2.3	2.4	2.3	0.950	0.870	0.910

2. ADVANCED VARIETAL TRIAL (Early), 1st Plant, 2016-17

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 12026	153	149	124	158	486	439	517	456	253	241	265	232	210	191	201	188
2	Co 12027	119	113	150	125	306	359	339	364	209	228	219	216	160	155	171	146
3	CoLk 12203	183	189	195	216	536	572	559	522	287	310	285	307	236	205	222	214
4	CoPant 12221	176	166	181	151	525	506	529	499	276	260	254	280	182	177	191	177
5	CoJ 64	159	142	151	176	460	421	442	493	252	267	244	251	144	164	155	147
6	Co 0238	131	155	145	164	396	429	386	408	218	230	208	225	192	180	179	182

S N	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 12026	25.43	23.51	24.62	22.80	19.92	20.52	20.12	20.32	17.42	17.38	17.27	17.82	87.44	84.69	85.83	87.69
2	Co 12027	21.22	19.54	22.18	18.05	20.82	20.52	20.92	20.42	17.90	17.60	17.53	17.12	85.97	85.76	83.79	83.83
3	CoLk 12203	27.19	25.44	27.33	25.10	18.52	17.52	17.92	18.32	14.83	12.54	13.82	15.13	80.07	71.57	77.12	82.58
4	CoPant 12221	22.64	23.59	25.73	22.69	17.62	17.12	18.12	17.92	13.71	14.10	14.12	14.48	77.80	82.35	77.92	80.80
5	CoJ 64	19.18	22.12	20.66	19.14	20.02	20.42	20.32	20.22	17.32	17.32	17.80	17.19	86.51	84.81	87.59	85.01
6	Co 0238	25.48	24.16	23.99	24.33	20.52	20.42	20.62	20.92	17.80	17.42	17.62	17.86	86.74	85.30	85.45	85.37

S N	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 12026	11.99	11.77	11.77	12.28	20.06	20.39	20.36	20.09	17.58	17.87	17.80	17.61	87.63	87.64	87.42	87.65
2	Co 12027	12.21	11.99	11.92	11.53	21.94	21.44	22.44	21.36	19.24	18.46	19.10	18.20	87.69	86.10	85.12	85.20
3	CoLk 12203	9.75	7.70	8.89	10.11	19.96	20.56	20.46	20.16	16.98	18.02	17.89	17.24	85.07	87.64	87.44	85.51
4	CoPant 12221	8.87	9.41	9.14	9.57	21.16	21.44	21.66	21.06	18.22	19.17	19.37	18.56	86.10	89.41	89.42	88.12
5	CoJ 64	11.85	11.74	12.26	11.66	21.46	21.66	22.36	21.66	19.17	19.39	19.43	18.93	89.32	89.52	86.89	87.39
6	Co 0238	12.20	11.84	11.99	12.14	21.86	22.06	22.14	22.64	19.23	19.43	19.44	19.56	87.97	88.07	87.80	86.39

S N	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 12026	12.11	12.31	12.25	12.13	2.45	2.25	2.32	2.10	2.0	2.2	2.1	1.8	0.810	0.835	0.790	0.813
2	Co 12027	13.26	12.61	12.97	12.36	1.80	2.02	1.72	1.46	1.9	2.0	1.9	2.2	0.790	0.765	0.805	0.780
3	CoLk 12203	11.52	12.41	12.31	11.73	2.08	1.80	2.02	1.82	2.0	1.9	1.9	1.7	0.730	0.762	0.750	0.738
4	CoPant 12221	12.44	13.33	13.47	12.82	2.11	2.10	2.30	2.05	2.0	2.2	2.0	1.9	0.720	0.745	0.725	0.730
5	CoJ 64	13.32	13.49	13.33	13.02	1.75	1.62	1.80	1.79	1.8	2.0	1.7	1.8	0.645	0.590	0.610	0.635
6	Co 0238	13.27	13.42	13.40	13.37	1.55	1.85	1.70	1.62	2.7	2.6	2.5	2.6	0.940	0.850	0.870	0.900

3. ADVANCED VARIETAL TRIAL (Early), IInd Plant 2016-17

S. No.	Entry	1 Germination %			2 Shoots			3 NMC			4 Yield (Kg /Plot)			5 CCS 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	R-1	R-2	R-3
1	CoH 11262	121	133	144	379	361	426	244	231	222	207	220	185	27.45	29.57	24.53
2	CoLk 11201	141	135	145	416	431	392	247	218	223	175	153	157	23.26	20.82	20.49
3	CoLk 11202	167	162	149	464	459	493	241	232	263	179	210	215	23.86	26.86	28.08
4	CoLk 11203	170	184	170	466	503	520	261	249	256	177	193	153	24.18	26.05	20.61
5	CoJ 64	158	143	138	412	439	475	260	253	240	127	153	165	17.04	20.36	22.18
6	Co 0238	123	136	154	411	436	401	227	205	210	178	167	190	24.05	22.48	25.57

S. No.	Entry	6 Brix % (8m)			7 Sucrose % (8m)			8 Purity % (8m)			9 CCS % (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	CoH 11262	19.92	19.32	18.42	16.57	16.23	15.80	83.18	84.00	85.78	11.12	10.94	10.76
2	CoLk 11201	18.82	19.72	20.52	16.18	17.15	17.43	85.97	86.96	84.94	11.04	11.77	11.82
3	CoLk 11202	19.62	19.62	18.52	16.73	16.54	15.66	85.27	86.30	84.55	11.37	11.17	10.59
4	CoLk 11203	19.72	19.42	18.92	16.80	16.72	16.08	85.19	86.10	84.98	11.41	11.41	10.91
5	CoJ 64	18.92	19.92	19.32	16.24	16.96	16.72	85.83	85.14	86.54	11.07	11.52	11.45
6	Co 0238	19.42	19.22	19.32	16.70	16.62	16.52	85.99	86.47	85.51	11.39	11.37	11.24

S. No.	Entry	10. Brix % (10m)			11. Sucrose % (10m)			12. Purity % (10m)			13 CCS% (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	CoH 11262	21.37	21.47	21.77	19.08	19.29	19.20	89.28	89.84	88.20	13.26	13.44	13.26
2	CoLk 11201	21.57	21.77	21.57	19.17	19.00	18.94	88.87	87.28	87.81	13.29	13.61	13.05
3	CoLk 11202	21.27	21.17	21.37	19.12	18.56	18.89	89.89	87.67	88.39	13.33	12.79	13.06
4	CoLk 11203	22.27	21.97	22.27	19.73	19.49	19.54	88.59	88.71	87.74	13.66	13.50	13.47
5	CoJ 64	21.87	21.57	21.97	19.38	19.19	19.43	88.61	88.96	88.44	13.42	13.31	13.44
6	Co 0238	21.97	21.77	21.87	19.50	19.39	19.41	88.76	89.06	88.95	13.51	13.46	13.46

S. No.	Entry	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
1	CoH 11262	2.55	2.73	2.78	2.3	2.5	2.5	0.910	0.945	0.880
2	CoLk 11201	1.77	2.01	1.55	2.5	2.4	2.2	0.690	0.725	0.745
3	CoLk 11202	2.55	2.47	2.63	2.4	2.6	2.6	0.950	0.940	0.935
4	CoLk 11203	1.94	2.06	1.89	2.0	2.1	2.0	0.900	0.880	0.830
5	CoJ 64	1.62	1.71	1.68	2.2	2.1	2.4	0.665	0.645	0.700
6	Co 0238	2.07	1.95	1.92	2.4	2.5	2.6	0.925	0.955	0.880

3. ADVANCED VARIETAL TRIAL (Early), Ratoon, 2016-17

S. No.	Entry	1 Shoots			2 NMC			3 Yield (Kg /Plot)			4 CCS 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	CoH 11262	305	342	345	215	230	234	138	159	172	15.33	17.39	20.29
2	CoLk 11201	396	367	352	181	194	173	63	74	84	7.81	9.20	9.92
3	CoLk 11202	449	426	407	253	226	231	152	142	121	17.26	15.86	12.81
4	CoLk 11203	368	376	399	216	235	239	132	115	134	16.03	14.76	15.43
5	CoJ 64	326	339	361	213	232	226	102	124	97	12.41	14.27	11.09
6	Co 0238	338	352	315	207	226	219	139	157	169	16.19	18.85	20.12

S. No.	Entry	5 Brix % (9m)			6 Sucrose % (9m)			7 Purity % (9m)			8 CCS % (9m)		
		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	CoH 11262	19.92	19.32	20.12	16.57	16.23	17.30	83.18	84.00	85.98	11.11	10.94	11.80
2	CoLk 11201	21.12	20.92	20.52	18.18	18.15	17.43	86.08	86.75	84.94	12.41	12.44	11.82
3	CoLk 11202	19.62	19.62	18.52	16.73	16.54	15.66	85.27	84.30	84.55	11.36	11.17	10.59
4	CoLk 11203	20.32	21.72	20.32	17.70	18.77	17.08	87.11	86.41	84.05	12.15	12.84	11.52
5	CoJ 64	20.62	19.92	19.32	17.80	16.96	16.72	86.32	85.14	86.54	12.17	11.51	11.44
6	Co 0238	20.62	20.32	20.52	17.30	17.56	17.52	83.89	86.41	85.38	11.65	12.01	11.91

S. No.	Entry	9 Cane Height (m)			10 Cane diameter (cm)			11 Single cane wt. (kg)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	CoH 11262	157	126	144	2.52	2.72	2.65	0.745	0.720	0.765
2	CoLk 11201	120	105	112	2.45	2.42	2.57	0.410	0.440	0.425
3	CoLk 11202	145	160	156	2.10	2.04	2.04	0.620	0.650	0.620
4	CoLk 11203	160	155	177	2.00	2.10	1.90	0.590	0.555	0.610
5	CoJ 64	157	160	145	2.16	2.32	2.30	0.525	0.495	0.510
6	Co 0238	165	180	172	2.40	2.37	2.49	0.760	0.755	0.735

5. INITIAL VARIETAL TRIAL (Mid-late), 2016-17

S. No.	Entry	1 Germination %		2 Shoots		3 NMC		4 Yield (Kg /Plot)		5 CCS Kg/Plot		6 Brix % (10m)	
		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
1	Co 13035	79	100	319	340	161	174	119	132	16.20	17.25	20.02	20.52
2	Co 13036	76	61	302	265	195	182	115	102	15.19	13.28	20.52	20.32
3	CoH 13261	97	115	356	316	215	208	112	135	14.33	17.09	19.52	19.72
4	CoH 13262	89	110	387	339	201	213	193	170	25.03	21.79	19.52	19.02
5	CoH 13263	97	84	371	344	210	197	182	158	23.22	20.61	19.22	19.42
6	CoLk 13204	77	68	310	333	190	203	137	159	17.31	20.08	19.82	18.52
7	CoPant 13205	106	95	297	336	166	163	112	130	13.68	16.04	17.32	18.02
8	CoPant 13223	73	86	311	279	163	189	124	131	13.99	16.50	17.52	17.02
9	CoPant 13224	123	115	295	337	189	201	161	170	21.78	23.46	18.82	19.07
10	CoPb 13182	77	86	273	241	160	185	145	128	18.34	16.35	17.42	17.92
11	CoPb 13183	81	97	305	333	200	210	167	189	20.82	23.96	19.52	18.52
12	CoS 13232	88	103	349	376	194	218	184	190	23.40	24.26	19.32	18.72
13	CoS 13233	99	80	342	300	193	180	178	166	23.30	21.29	18.52	17.92
14	CoS 767	85	102	359	313	210	193	129	125	16.30	16.12	19.02	19.72
15	CoS 8436	92	78	294	252	195	184	128	132	17.04	17.43	19.02	20.12
16	CoPant 97222	76	90	249	284	165	196	130	115	17.32	15.18	19.52	19.92

S. No.	Entry	7 Suc % (10m)		8 Purity (10m)		9 CCS % (10m)		10. Brix % (12m)		11. Suc. % (12m)		12. Purity %(12m)	
		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
1	Co 13035	17.53	17.98	87.56	87.62	12.07	12.38	22.09	21.39	19.64	18.90	88.11	88.36
2	Co 13036	17.53	17.79	85.43	87.55	11.92	12.25	21.62	21.19	19.10	18.62	88.34	87.87
3	CoH 13261	17.08	16.99	87.50	86.16	11.75	11.60	21.09	20.49	18.55	18.12	87.96	88.43
4	CoH 13262	17.15	16.28	87.85	85.59	11.83	11.08	21.99	20.99	18.97	18.40	86.26	87.66
5	CoH 13263	16.80	17.06	87.41	87.84	11.56	11.76	21.29	21.79	18.57	19.29	87.22	88.52
6	CoLk 13204	17.38	16.86	87.68	84.02	11.97	11.82	21.39	21.49	18.48	18.50	86.39	86.09
7	CoPant 13205	14.94	15.69	86.26	87.06	10.21	10.77	20.59	20.49	17.84	18.06	86.64	88.14
8	CoPant 13223	15.30	15.07	86.92	88.54	10.52	10.43	20.89	20.69	18.38	18.16	88.03	87.77
9	CoPant 13224	16.32	16.59	86.72	86.99	11.18	11.39	21.59	20.69	19.41	18.27	89.90	88.30
10	CoPb 13182	14.92	15.41	85.65	85.99	10.16	10.52	21.19	21.49	18.44	18.77	87.02	87.34
11	CoPb 13183	16.91	15.92	86.62	85.96	11.58	10.86	20.49	21.09	18.10	18.61	88.32	88.24
12	CoS 13232	16.74	15.71	86.64	83.92	11.47	10.59	21.09	21.29	18.47	18.64	87.58	87.55
13	CoS 13233	15.58	15.49	84.12	86.44	10.51	10.60	21.89	20.99	19.06	18.30	87.07	87.18
14	CoS 767	16.28	16.94	85.59	85.90	11.08	11.55	21.09	21.59	18.39	19.05	87.19	88.23
15	CoS 8436	16.25	17.50	85.44	86.98	11.05	12.01	21.69	21.59	19.23	18.99	88.66	87.96
16	CoPant 97222	17.13	17.49	87.75	87.80	11.81	12.06	21.59	21.29	19.21	18.87	88.98	88.63

S. No.	Entry	13 CCS% (12m)		14 Cane Height (m)		15 Cane diameter (cm)		16 Single cane wt. (kg)	
		R-1	R-2	R-1	R-2	R-1	R-2	R-1	R-2
1	Co 13035	13.62	13.07	2.20	2.10	2.5	2.6	0.995	0.967
2	Co 13036	13.21	12.84	2.40	1.70	2.2	2.3	0.635	0.585
3	CoH 13261	12.80	12.53	1.35	1.40	2.4	2.2	0.630	0.550
4	CoH 13262	12.97	12.67	2.80	2.85	2.5	2.7	1.010	1.070
5	CoH 13263	12.76	13.35	2.00	1.70	2.4	2.2	0.940	0.990
6	CoLk 13204	12.64	12.63	2.20	2.30	2.0	1.9	0.735	0.785
7	CoPant 13205	12.22	12.47	2.00	2.10	2.3	2.5	0.798	0.742
8	CoPant 13223	12.68	12.52	2.05	2.15	2.1	2.2	0.795	0.725
9	CoPant 13224	13.53	12.63	2.20	2.25	2.2	2.1	0.857	0.963
10	CoPb 13182	12.65	12.91	2.25	2.15	2.2	2.5	0.925	0.835
11	CoPb 13183	12.51	12.86	2.40	2.35	2.1	2.3	1.090	1.010
12	CoS 13232	12.72	12.83	2.30	2.22	2.3	2.4	1.045	0.945
13	CoS 13233	13.09	12.57	2.30	2.55	2.5	2.3	0.885	0.955
14	CoS 767	12.64	13.16	2.15	2.20	2.0	2.1	0.650	0.770
15	CoS 8436	13.32	13.10	1.60	1.45	2.6	2.4	0.710	0.670
16	CoPant 97222	13.33	13.07	2.30	2.10	2.0	2.3	0.670	0.730

6. ADVANCED VARIETAL TRIAL (Mid- Late), 1st Plant, 2016-17

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 12029	193	225	162	548	597	578	277	288	285
2	CoH 12263	168	176	142	537	526	502	312	292	286
3	CoLk 12205	193	206	164	532	558	582	295	308	328
4	CoPant 12226	164	202	170	605	562	579	335	318	324
5	CoPb 12211	172	164	165	426	449	418	298	315	282
6	CoS 12232	173	185	160	583	549	564	312	341	298
7	CoS 767	192	163	165	575	565	589	274	295	305
8	CoS 8436	156	143	131	496	517	529	255	274	241
9	CoPant 97222	121	149	140	501	466	522	306	316	280

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 12029	245	266	229	32.97	36.68	29.01	18.82	19.62	19.62
2	CoH 12263	222	193	213	29.30	25.84	28.12	18.52	19.02	19.02
3	CoLk 12205	210	246	232	27.90	31.83	30.62	18.52	19.22	19.42
4	CoPant 12226	281	258	270	37.62	31.42	34.26	18.52	18.32	18.62
5	CoPb 12211	196	215	176	26.24	27.26	22.00	17.82	18.92	18.22
6	CoS 12232	268	290	261	30.28	39.24	33.59	18.02	18.42	18.52
7	CoS 767	181	190	213	22.89	25.27	28.50	18.52	18.92	19.42
8	CoS 8436	194	217	182	26.17	29.51	24.10	19.82	19.02	19.92
9	CoPant 97222	184	198	165	24.93	26.41	21.89	20.02	19.92	18.82

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 12029	16.35	16.99	17.10	86.87	86.59	87.15	11.21	11.63	11.75
2	CoH 12263	15.82	16.25	16.63	85.42	85.44	87.43	10.76	11.05	11.44
3	CoLk 12205	15.90	16.74	16.99	85.85	87.09	87.49	10.84	11.49	11.69
4	CoPant 12226	15.55	15.40	15.73	83.98	84.06	84.47	10.48	10.39	10.64
5	CoPb 12211	15.27	16.45	15.66	85.69	86.94	85.80	10.40	11.29	10.67
6	CoS 12232	15.44	15.86	15.63	85.68	86.10	84.39	10.52	10.83	10.57
7	CoS 767	16.10	16.12	16.89	86.93	85.20	86.93	11.05	10.95	11.59
8	CoS 8436	17.37	16.58	17.25	87.64	87.17	86.60	11.96	11.39	11.81
9	CoPant 97222	17.52	17.37	16.35	87.51	87.20	87.20	12.06	11.93	11.20

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 12029	21.92	22.42	20.82	19.44	19.90	18.35	88.68	88.76	88.14
2	CoH 12263	21.42	22.12	21.42	19.04	19.42	18.85	88.88	87.79	88.00
3	CoLk 12205	22.12	21.22	21.72	19.32	18.73	19.12	87.34	88.27	88.03
4	CoPant 12226	21.92	21.42	21.02	19.37	19.17	18.42	88.37	89.49	87.63
5	CoPb 12211	22.12	21.12	20.92	19.42	18.44	18.21	87.79	87.31	87.05
6	CoS 12232	22.32	22.12	21.02	19.49	19.56	18.60	87.32	88.42	88.49
7	CoS 767	21.52	21.72	21.62	18.53	19.22	19.27	86.10	88.48	89.13
8	CoS 8436	22.12	22.12	21.52	19.52	19.63	19.10	88.25	88.74	88.75
9	CoPant 97222	22.12	21.92	21.82	19.58	19.32	19.22	88.52	88.14	88.08

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 12029	13.46	13.79	12.67	2.20	2.15	2.30	2.5	2.3	2.3
2	CoH 12263	13.20	13.39	13.01	2.05	2.20	1.50	2.4	2.3	2.5
3	CoLk 12205	13.29	12.94	13.20	2.40	2.70	2.25	2.2	2.5	2.3
4	CoPant 12226	13.39	13.34	12.69	2.55	2.40	2.80	2.2	2.4	1.8
5	CoPb 12211	13.39	12.68	12.50	1.80	2.35	2.10	1.9	2.0	2.0
6	CoS 12232	13.40	13.53	12.87	2.35	2.30	2.10	2.0	2.2	2.2
7	CoS 767	12.65	13.30	13.38	1.95	2.20	2.00	2.2	2.0	1.9
8	CoS 8436	13.49	13.60	13.24	1.55	1.55	1.60	2.6	2.2	2.4
9	CoPant 97222	13.55	13.34	13.27	2.10	1.95	1.70	2.4	2.2	2.3

S. No.	Entry	16 Single cane wt(kg)		
		R-1	R-2	R-3
1	Co 12029	0.905	0.970	0.915
2	CoH 12263	0.755	0.780	0.790
3	CoLk 12205	0.770	0.830	0.815
4	CoPant 12226	0.855	0.825	0.855
5	CoPb 12211	0.672	0.657	0.690
6	CoS 12232	0.860	0.875	0.890
7	CoS 767	0.770	0.715	0.741
8	CoS 8436	0.865	0.845	0.870
9	CoPant 97222	0.630	0.685	0.650

7. ADVANCED VARIETAL TRIAL (Mid- Late), IInd Plant, 2016-17

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	166	143	144	542	486	517	282	298	315
2	CoH 11263	127	135	137	378	407	442	227	249	242
3	CoLk 11204	195	206	164	554	584	538	323	305	332
4	CoLk 11206	190	195	144	560	596	534	331	342	316
5	CoPb 11214	179	165	162	571	535	507	292	277	283
6	CoS 11232	175	175	195	529	493	563	310	274	296
7	CoS 767	156	185	161	458	504	475	294	319	297
8	CoS 8436	143	173	138	432	468	409	271	260	296
9	CoPant 97222	147	145	144	425	390	362	287	256	269

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	225	208	219	27.58	25.98	27.51	18.57	18.07	18.77
2	CoH 11263	186	160	179	22.97	18.80	21.98	19.07	18.57	18.97
3	CoLk 11204	202	219	220	23.73	25.78	26.36	18.77	18.77	18.67
4	CoLk 11206	257	273	267	29.76	34.12	33.80	17.57	18.07	18.47
5	CoPb 11214	199	210	227	23.66	26.80	28.83	18.87	18.57	18.37
6	CoS 11232	285	279	258	34.77	35.51	32.77	16.37	16.57	16.67
7	CoS 767	202	215	195	23.75	26.64	24.49	17.07	18.67	18.67
8	CoS 8436	205	189	199	25.56	24.02	24.99	17.97	19.37	18.27
9	CoPant 97222	192	199	178	22.58	25.23	23.19	17.77	17.87	18.37

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	15.51	15.29	16.08	83.52	84.61	85.66	10.43	10.35	10.95
2	CoH 11263	16.03	15.80	16.46	84.06	85.08	86.76	10.81	10.72	11.28
3	CoLk 11204	15.80	15.94	16.12	84.18	84.92	86.34	10.67	10.81	11.02
4	CoLk 11206	15.31	15.80	15.93	87.14	87.43	86.24	10.52	10.87	10.89
5	CoPb 11214	16.30	16.23	15.89	86.38	87.39	86.49	11.15	11.16	10.87
6	CoS 11232	13.58	13.93	14.25	82.95	84.07	85.48	9.10	9.40	9.69
7	CoS 767	14.63	16.09	15.96	86.05	86.18	85.48	9.99	10.99	10.86
8	CoS 8436	15.38	16.35	15.86	85.58	84.41	86.81	10.47	11.05	10.87
9	CoPant 97222	15.04	15.14	15.66	84.64	84.72	85.25	10.18	10.25	10.64

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	20.88	20.68	20.88	17.96	18.13	18.26	86.01	87.67	87.45
2	CoH 11263	21.08	19.88	20.38	18.11	17.18	17.84	85.91	86.42	87.54
3	CoLk 11204	19.88	19.98	20.38	17.18	17.23	17.55	86.41	86.24	86.11
4	CoLk 11206	19.98	20.78	20.88	17.30	18.17	18.35	86.89	87.44	87.88
5	CoPb 11214	20.08	20.38	20.68	17.35	18.31	18.34	86.40	89.84	88.68
6	CoS 11232	20.08	20.38	20.48	17.68	17.93	18.13	88.05	87.98	88.52
7	CoS 767	19.68	20.18	20.68	17.13	17.89	18.20	87.04	88.65	88.01
8	CoS 8436	20.58	20.78	20.08	18.08	18.37	17.73	87.85	88.40	88.30
9	CoPant 97222	19.68	20.78	21.08	17.13	18.35	18.77	87.04	88.31	89.04

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 11027	12.26	12.49	12.56	2.32	2.13	2.30	2.20	2.12	2.32
2	CoH 11263	12.35	11.75	12.28	1.75	1.68	1.73	2.56	2.72	2.64
3	CoLk 11204	11.75	11.77	11.98	2.32	2.40	2.24	2.25	2.18	2.38
4	CoLk 11206	11.85	12.50	12.66	2.81	2.95	3.00	2.43	2.32	2.51
5	CoPb 11214	11.89	12.76	12.70	1.85	1.87	1.98	2.14	2.10	2.12
6	CoS 11232	12.20	12.37	12.55	2.53	2.72	2.40	2.00	2.20	2.10
7	CoS 767	11.76	12.39	12.56	2.00	2.02	2.13	2.05	2.00	2.10
8	CoS 8436	12.47	12.71	12.56	1.41	1.36	1.61	2.35	2.49	2.45
9	CoPant 97222	11.76	12.68	13.03	2.28	2.24	2.38	2.26	2.15	2.19

S. No.	Entry	16 Single cane wt(kg)		
		R-1	R-2	R-3
1	Co 11027	0.830	1.080	0.880
2	CoH 11263	0.935	0.920	0.980
3	CoLk 11204	0.710	0.650	0.680
4	CoLk 11206	0.820	0.850	0.780
5	CoPb 11214	0.775	0.750	0.685
6	CoS 11232	0.910	0.895	0.865
7	CoS 767	0.715	0.690	0.665
8	CoS 8436	0.750	0.740	0.790
9	CoPant 97222	0.670	0.680	0.710

8. ADVANCED VARIETAL TRIAL (Mid-late) ,Ratoon, 2016-17

S. No.	Entry	1 Tillers			2 NMC			3 Yield(kg)/ Plot		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 11027	539	497	462	242	317	283	146	180	153
2	CoH 11263	564	430	413	208	246	219	109	140	117
3	CoLk 11204	554	536	578	288	275	239	164	132	128
4	CoLk 11206	582	608	570	295	338	288	139	149	181
5	CoPb 11214	561	587	544	226	285	238	197	189	172
6	CoS 11232	524	573	552	236	265	301	184	218	179
7	CoS 767	495	450	550	329	263	286	152	173	138
8	CoS 8436	481	545	513	240	270	229	129	146	157
9	CoPant 97222	425	378	451	241	261	225	151	123	119

S. No.	Entry	4 CCS Kg/Plot			5 Brix % (11m)			6 Sucrose %(11m)		
		R-1	R-2	R-3	R-1	R-2	R-3	R-1	R-2	R-3
1	Co 11027	17.27	21.83	18.80	19.62	19.92	19.92	17.18	17.56	17.32
2	CoH 11263	14.17	17.01	13.82	20.22	20.12	19.82	17.62	17.64	17.22
3	CoLk 11204	19.11	15.81	14.85	19.52	20.02	19.32	16.098	17.44	16.87
4	CoLk 11206	17.03	17.51	20.67	20.02	19.32	19.52	17.71	17.02	16.75
5	CoPb 11214	20.88	20.51	18.80	18.82	18.32	18.92	15.66	15.85	16.10
6	CoS 11232	20.46	26.18	20.87	19.22	19.92	19.42	16.37	17.44	16.96
7	CoS 767	17.43	19.72	16.09	19.22	18.72	19.22	16.72	16.50	16.90
8	CoS 8436	15.05	16.70	18.73	19.42	19.32	19.72	16.96	16.71	17.35
9	CoPant 97222	17.12	14.30	13.48	19.12	19.62	19.02	16.56	16.99	17.52

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 11027	87.56	88.15	86.95	11.83	12.13	11.88	1.53	1.42	1.64
2	CoH 11263	87.14	87.67	86.88	13.00	12.15	11.81	1.02	1.05	1.07
3	CoLk 11204	86.99	87.11	87.32	11.65	11.98	11.60	1.32	1.27	1.22
4	CoLk 11206	88.46	88.09	87.91	12.25	11.75	11.42	1.90	1.72	1.77
5	CoPb 11214	84.55	86.51	85.09	10.60	10.85	10.93	1.65	1.55	1.81
6	CoS 11232	85.17	87.55	87.33	11.12	12.01	11.66	2.30	1.85	1.85
7	CoS 767	86.99	87.67	87.93	11.47	11.40	11.66	1.27	1.42	1.10
8	CoS 8436	87.33	86.49	87.83	11.67	11.44	11.93	1.15	1.26	1.13
9	CoPant 97222	86.61	86.59	86.85	11.34	11.63	11.33	1.38	1.55	1.33

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 11027	2.42	2.45	2.39	0.680	0.665	0.650
2	CoH 11263	2.22	2.33	2.35	0.625	0.570	0.581
3	CoLk 11204	2.30	2.20	2.16	0.576	0.562	0.587
4	CoLk 11206	2.33	2.42	2.21	0.568	0.575	0.545
5	CoPb 11214	2.53	2.32	2.23	0.775	0.805	0.835
6	CoS 11232	2.01	1.82	2.17	0.760	0.745	0.730
7	CoS 767	1.90	1.82	1.92	0.625	0.590	0.615
8	CoS 8436	2.33	2.44	2.61	0.650	0.640	0.690
9	CoPant 97222	1.92	2.22	1.92	0.605	0.595	0.630

