

## A- Zonal Varietal Trial

### 1. Initial Varietal Trial (Early)-Shahjahanpur (NWZ)

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (10m)	Sucrose % (10m)	Brix % (10 m)	Purity % (10m)	Pol % cane (10m)	Extraction % (10m)	Fibre % (10m)	NMC at 10m (000/ha)
1	Co 12026	10.18	82.89	12.28	17.81	20.28	87.80	13.45	55.94	13.41	120.89
2	Co 12027	9.81	76.00	12.90	18.63	21.03	88.59	13.49	53.55	13.56	99.11
3	CoH 12261	9.46	78.00	12.12	17.60	20.07	87.51	13.42	56.08	13.50	86.44
4	CoLk 12201	9.51	74.44	12.78	18.47	20.88	88.44	13.31	56.22	13.59	109.78
5	CoLk 12202	9.00	80.22	11.20	16.38	18.96	86.39	12.63	55.42	13.61	120.00
6	CoLk 12203	9.24	79.11	11.65	16.98	19.52	86.95	12.30	52.61	13.38	119.11
7	CoLk 12204	9.43	81.78	11.75	17.11	19.65	87.09	12.58	51.75	13.49	117.78
8	CoPant 12221	9.91	81.33	11.52	16.80	19.35	86.81	12.56	53.68	13.28	108.87
9	CoPant 12222	8.97	72.22	12.43	18.00	20.46	87.98	13.59	53.05	13.31	107.33
10	CoS 12231	9.73	82.22	11.81	17.19	19.72	87.17	13.52	53.39	13.52	110.89
<b>Stds</b>											
1	CoJ 64	8.85	73.11	12.11	17.58	20.07	87.59	13.44	53.97	13.1	113.11
2	Co 0238	10.36	89.56	12.21	17.72	20.20	87.70	13.04	58.12	13.14	97.78
	SE	0.55	4.40	0.25	0.33	0.31	0.34	-	1.33	-	9.38
	CD	1.13	9.12	0.52	0.69	0.63	0.71	-	2.76	-	19.46
	CV	6.97	6.80	2.54	2.32	1.87	0.48	-	3.00	-	10.52

S.No.	Entry	Stalk Length (m)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoots (000/ha) 240 days	No. of tillers ('000/ha) 120 days	Germination % (45 days)
1	Co 12026	254	2.19	.962	11.72	17.10	20.06	86.70	-	208.67	49.03
2	Co 12027	222	2.17	.912	11.97	17.45	20.06	86.97	-	207.55	39.17
3	CoH 12261	257	2.41	.937	11.91	17.34	19.90	87.13	-	215.78	44.72
4	CoLk 12201	230	2.33	.869	11.67	17.02	19.56	86.73	-	217.33	45.42
5	CoLk 12202	242	2.25	.938	11.79	15.92	18.76	86.53	-	216.22	43.05
6	CoLk 12203	222	2.19	.814	10.69	15.70	18.34	85.59	-	223.11	48.05
7	CoLk 12204	202	2.05	.744	10.89	15.96	18.59	85.87	-	225.33	47.83
8	CoPant 12221	248	2.11	.891	10.64	15.63	18.27	85.54	-	230.89	45.69
9	CoPant 12222	161	2.39	.823	11.74	17.12	19.71	86.87	-	177.33	34.72
10	CoS 12231	234	2.15	.983	11.15	16.32	18.93	86.18	-	216.89	47.08
<b>Stds</b>											
1	CoJ 64	207	2.10	.745	11.88	17.33	19.96	86.82	-	212.89	45.42
2	Co 0238	235	2.57	1.155	11.32	16.55	19.17	86.30	-	211.11	44.58
	SE	16.02	0.09	0.08	0.19	0.26	0.28	0.41	-	11.90	3.56
	CD	33.23	0.20	0.18	0.40	0.54	0.57	0.85	-	24.68	7.38
	CV	8.68	5.18	11.56	2.07	1.92	1.76	0.58	-	6.82	9.81

## 2. Advanced Varietal Trial (Early – I Plant)-Shahjahanpur (NWZ)

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (10m)	Sucrose % (10m)	Brix % (10 m)	Purity % (10m)	Pol % cane (10m)	Extraction % (10m)	Fibre % (10m)	NMC at 10m (000/ha)
1	CoH 11262	8.66	79.41	10.91	15.99	18.60	85.94	12.51	54.76	13.52	90.67
2	CoLk 11201	8.25	75.11	10.99	16.09	18.70	86.01	12.54	54.61	13.56	105.04
3	CoLk 11202	10.01	86.96	11.49	16.77	19.33	86.72	13.08	53.94	13.42	102.07
4	CoLk 11203	9.48	79.56	12.12	17.60	20.10	87.58	13.18	55.00	13.49	99.11
<b>Stds</b>											
1	CoJ 64	8.56	73.63	11.63	16.94	19.50	86.90	13.09	54.89	13.46	104.15
2	Co 0238	9.67	84.89	11.41	16.65	19.23	86.60	12.96	58.22	13.31	92.07
	SE	0.41	2.35	0.29	0.39	0.36	0.39	-	1.18	-	3.53
	CD	0.92	5.23	0.65	0.87	0.81	0.87	-	NS	-	7.87
	CV	5.55	3.60	3.11	2.86	2.32	0.55	-	2.61	-	4.35

S.No.	Entry	Stalk Length (m)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoots (000/ha) 240 days	No. of tillers (000/ha) 120 days	Germination % (45 days)
1	CoH 11262	198	2.25	0.960	10.48	15.40	18.03	85.41	-	193.93	41.67
2	CoLk 11201	227	2.27	0.862	10.71	15.72	18.33	86.09	-	224.44	50.93
3	CoLk 11202	258	2.41	0.915	9.91	15.04	17.68	85.05	-	230.67	51.94
4	CoLk 11203	248	1.99	0.890	11.59	16.93	19.56	86.56	-	197.33	43.06
<b>Stds</b>											
1	CoJ 64	236	2.12	0.732	11.07	16.20	18.80	86.20	-	228.44	50.46
2	Co 0238	270	2.47	1.065	10.61	15.61	18.30	85.29	-	222.22	48.52
	SE	12.03	0.12	0.09	0.40	0.43	0.39	0.59	-	4.54	1.09
	CD	26.81	0.27	NS	0.88	0.95	0.87	NS	-	10.12	2.42
	CV	6.15	6.67	12.06	4.52	3.29	2.59	0.85	-	2.57	2.78

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

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (10m)	Sucrose % (10m)	Brix % (10 m)	Purity % (10m)	Pol % cane (10m)	Extraction % (10m)	Fibre % (10m)	NMC at 10m (000/ha)
1	Co 10035	9.11	81.22	11.21	16.40	18.98	86.36	12.50	52.98	13.24	108.00
2	CoH 10261	8.21	70.22	11.69	17.08	19.66	87.05	13.20	54.10	13.34	99.00
3	CoS 10231	9.95	85.00	11.70	16.95	19.51	86.91	12.53	53.66	13.29	116.89
<b>Stds</b>											
1	CoJ 64	8.59	73.11	11.75	17.08	19.54	87.08	12.16	54.10	13.16	118.67
2	CoPant 84211	8.21	71.67	11.45	16.62	19.18	86.59	13.21	54.66	13.21	100.78
	SE	0.21	1.82	0.24	0.30	0.28	0.30	-	0.97	-	3.44
	CD	0.63	3.97	NS	NS	NS	NS	-	NS	-	7.49
	CV	4.68	3.38	0.48	2.51	2.03	0.48	-	2.55	-	4.47

S.No.	Entry	Stalk Length (m)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (8 m)	Sucrose % (8 m)	Brix % (8 m)	Purity % (8 m)	No. of shoots ('000/ha) 240 days	No. of tillers (000/ha) 120 days	Germination % (45 days)
1	Co 10035	185	2.00	0.732	10.95	16.05	18.66	86.00	-	217.67	45.07
2	CoH 10261	165	1.96	0.648	10.02	14.79	17.45	84.74	-	198.89	44.72
3	CoS 10231	197	2.38	0.750	11.35	16.66	19.24	86.56	-	230.22	48.12
<b>Stds</b>											
1	CoJ 64	185	2.08	0.680	11.21	16.40	18.98	86.34	-	231.55	50.49
2	CoPant 84211	178	2.08	0.705	10.14	16.98	17.63	85.00	-	210.89	41.53
	SE	8.34	0.11	0.06	0.20	0.28	0.27	0.28	-	8.14	2.45
	CD	18.17	0.23	NS	0.44	0.61	0.58	0.61	-	17.73	5.34
	CV	6.48	7.20	11.17	2.68	2.50	2.04	0.46	-	5.28	7.53

#### 4- Advanced Varietal Trial (Early Ratoon) Shahjahanpur (NWZ)

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (9 m)	Sucrose % (9 m)	Brix % (9 m)	Purity % (9 m)	Pol % cane (9 m)	Extraction % (9 m)	Fibre % (9 m)
1	Co 10035	9.18	74.89	12.26	17.78	20.23	87.86	13.27	53.37	13.29
2	CoH 10261	7.48	65.11	11.48	16.76	19.33	86.70	12.98	51.69	13.40
3	CoS 10231	9.86	78.22	12.61	18.25	20.67	88.27	13.08	54.83	13.24
<b>Stds</b>										
1	CoJ 64	8.90	71.67	12.44	18.02	20.46	88.04	13.16	53.36	13.19
2	CoPant 84211	7.40	66.44	11.12	16.28	18.84	86.41	12.60	53.09	13.22
	SE	0.26	2.63	0.24	0.32	0.30	0.27	-	1.02	-
	CD	0.56	5.72	0.52	0.69	0.66	0.58	-	NS	-
	CV	4.26	5.21	2.81	2.58	2.15	0.43	-	2.70	-

S. No.	Entry	NMC at 9 months ('000/ha)	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	No. of shoots ('000/ha) 180 days	No. of tillers ('000/ha) 90 days
1	Co 10035	121.22	172	2.08	.632	-	225.22
2	CoH 10261	108.00	171	1.95	.590	-	197.78
3	CoS 10231	129.89	186	2.17	.710	-	228.55
<b>Stds</b>							
1	CoJ 64	128.11	177	1.93	.595	-	230.22
2	CoPant 84211	105.00	172	2.13	.605	-	199.11
	SE	4.30	1.96	0.08	0.06	-	5.10
	CD	9.36	4.27	0.18	NS	-	11.11
	CV	5.13	1.58	5.64	13.16	-	3.34

### 5. Initial Varietal Trial (Midlate) Shahjahanpur (NWZ)

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (12 m)	Sucrose % (12 m)	Brix % (12 m)	Purity % (12 m)	Pol % cane (12m)	Extracti on % (12 m)	Fibre % (12 m)	NMC at 12 m (000/ha)
1	Co 12028	12.06	85.93	14.05	20.15	22.41	89.90	14.34	52.67	14.74	102.04
2	Co 12029	12.44	92.04	13.53	19.89	22.12	89.95	14.00	52.60	14.82	104.07
3	CoH 12262	10.95	79.07	13.83	19.82	21.99	90.14	14.64	52.80	14.78	97.96
4	CoH 12263	10.79	80.93	13.34	19.15	21.34	89.73	14.59	53.11	14.69	99.26
5	CoLk 12205	11.40	90.00	12.68	18.18	20.19	90.03	14.06	52.58	14.64	102.96
6	CoLk 12206	11.55	87.04	13.28	19.19	21.67	88.54	14.24	52.60	14.70	101.11
7	CoPant 12223	12.66	99.63	12.71	18.19	20.12	90.40	13.25	52.76	14.50	115.93
8	CoPant 12224	11.25	94.07	11.97	17.28	19.48	88.65	12.82	53.34	14.76	104.48
9	CoPant 12225	10.01	82.96	12.07	17.30	19.22	90.04	12.59	52.61	14.62	96.30
10	CoPant 12226	12.24	90.93	13.45	19.28	21.42	90.04	14.42	51.77	14.51	105.18
11	CoPb 12181	9.88	80.00	12.35	17.77	19.91	89.28	13.14	52.92	14.69	96.30
12	CoPb 12182	11.36	89.44	12.72	18.26	20.32	89.87	14.22	52.16	14.71	89.27
13	CoPb 12211	9.70	77.04	12.36	17.75	19.81	89.61	13.55	54.03	14.81	87.22
14	CoPb 12212	11.17	85.93	12.96	18.60	20.70	89.86	14.07	54.16	14.79	102.04
15	CoS 12232	12.70	92.59	13.72	19.66	21.81	90.15	14.10	51.84	14.10	111.22
<b>Stds</b>											
1	CoS 767	9.91	75.00	13.21	18.92	20.96	90.25	13.27	52.91	14.96	102.78
2	CoS 8436	9.52	68.15	13.97	20.01	22.20	90.11	14.61	52.16	14.36	92.04
3	CoPant 97222	10.10	72.96	13.84	19.85	22.08	89.90	14.46	52.25	14.56	93.56
	SE	0.62	4.19	0.42	0.56	0.64	0.67	-	0.95	-	4.15
	CD	1.44	9.72	0.98	1.30	1.48	NS	-	NS	-	9.62
	CV	6.82	6.06	3.96	3.65	3.72	0.91	-	2.20	-	5.08

S. No.	Entry	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	No. of shoots (000/ha) 240 days	No. of tillers (000/ha) 120 days	Germination % (45 days)
1	Co 12028	210	2.18	.971	11.29	16.51	19.11	86.38	-	194.26	50.00
2	Co 12029	235	2.29	.922	11.24	16.45	19.05	86.35	-	194.63	51.81
3	CoH 12262	203	2.42	.972	11.52	16.82	19.43	86.60	-	187.78	50.00
4	CoH 12263	193	2.32	.845	10.62	15.61	18.24	85.54	-	192.41	49.44
5	CoLk 12205	224	2.15	.880	10.70	15.70	18.32	85.69	-	199.81	51.67
6	CoLk 12206	205	2.18	.849	10.96	16.06	18.68	85.96	-	182.59	47.50
7	CoPant 12223	290	2.02	.905	10.70	15.71	18.33	85.71	-	193.15	50.28
8	CoPant 12224	252	2.18	.898	10.83	15.88	18.49	85.86	-	195.56	52.22
9	CoPant 12225	235	2.23	.916	9.47	14.06	16.77	83.84	-	180.37	44.17
10	CoPant 12226	267	2.42	.969	10.66	15.65	18.27	85.61	-	190.93	48.89
11	CoPb 12181	226	2.41	.872	10.40	15.31	17.94	85.28	-	167.41	43.75
12	CoPb 12182	243	2.51	.810	10.92	15.96	18.58	85.89	-	191.30	48.61
13	CoPb 12211	189	2.21	.770	11.09	16.23	18.83	86.17	-	184.81	46.81
14	CoPb 12212	205	2.28	.733	10.54	15.49	18.12	85.39	-	194.63	51.11
15	CoS 12232	265	2.26	.915	10.76	16.09	18.73	86.06	-	195.37	50.14
<b>Stds</b>											
1	CoS 767	212	2.17	.871	11.01	16.12	18.73	86.08	-	194.26	45.28
2	CoS 8436	169	2.53	.815	11.77	17.15	19.70	87.03	-	196.48	43.19
3	CoPant 97222	202	2.28	.805	10.91	15.99	18.61	85.93	-	169.44	42.36
	SE	4.40	0.14	0.01	0.39	0.53	0.54	0.48	-	9.06	3.37
	CD	10.22	NS	NS	0.91	1.24	1.25	1.11	-	21.03	7.81
	CV	2.41	7.44	11.57	4.45	4.10	3.55	0.68	-	5.87	8.55

**6- Advanced Varietal Trial (Midlate I Plant) Shahjahanpur (NWZ)**

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (12 m)	Sucrose % (12 m)	Brix % (12 m)	Purity % (12 m)	Pol % cane (12 m)	Extraction % (12 m)	Fibre % (12 m)	NMC at 12 m (000/ha)
1	Co 11027	11.71	87.90	13.33	19.09	21.18	90.15	13.23	51.93	15.00	99.38
2	CoH 11263	9.70	78.15	12.40	17.80	19.84	89.72	13.30	53.01	14.87	100.62
3	CoLk 11204	10.53	80.12	13.14	18.81	20.85	90.21	13.59	52.44	14.92	98.39
4	CoLk 11206	10.93	85.93	12.73	18.23	20.22	90.16	12.51	52.98	14.99	101.73
5	CoPb 11214	9.93	76.17	13.00	18.76	21.01	89.29	13.85	53.37	14.89	85.80
6	CoS 11232	12.07	90.62	13.32	19.10	21.23	89.98	13.42	52.66	14.94	104.69
<b>Stds</b>											
1	CoS 767	9.67	74.57	12.98	18.48	20.24	91.32	13.26	52.32	15.10	100.99
2	CoS 8436	9.62	69.26	13.54	19.33	21.29	90.79	14.01	54.44	14.30	97.90
3	CoPant 97222	9.39	73.09	12.84	18.57	21.02	88.38	13.89	52.43	15.06	99.26
	SE	0.40	2.66	0.18	0.27	0.30	0.16	-	0.85	-	3.79
	CD	0.85	5.65	0.39	0.58	0.64	0.33	-	NS	-	8.03
	CV	4.75	4.10	1.73	1.79	1.78	0.21	-	1.96	-	4.70



S. No.	Entry	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	No. of shoots (000/ha) 240 days	No. of tillers (000/ha) 120 days	Germination % (45 days)
1	Co 11027	250	2.15	.933	10.76	15.80	18.42	85.79	-	159.14	41.67
2	CoH 11263	209	2.20	.899	10.67	15.67	18.29	85.66	-	175.43	46.76
3	CoLk 11204	212	2.16	.791	10.74	15.77	18.38	85.78	-	168.27	42.04
4	CoLk 11206	242	2.09	.892	10.90	16.44	19.04	86.34	-	178.77	47.59
5	CoPb 11214	218	2.14	.827	10.87	15.93	18.55	85.88	-	167.78	41.76
6	CoS 11232	268	2.03	1.013	9.78	14.46	17.11	84.51	-	166.91	45.74
<b>Stds</b>											
1	CoS 767	222	2.12	.753	10.78	15.81	18.43	85.78	-	183.33	45.93
2	CoS 8436	169	2.23	.667	11.71	17.06	19.60	87.02	-	190.37	49.63
3	CoPant 97222	193	2.27	.753	11.49	16.77	19.33	86.72	-	170.86	42.22
	SE	12.02	5.86	0.11	0.30	0.32	0.30	0.24	-	5.42	1.53
	CD	25.48	12.43	NS	0.63	0.67	0.63	0.51	-	11.48	3.25
	CV	6.68	3.33	15.55	3.37	2.42	1.97	0.34	-	3.83	4.19

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

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (12 m)	Sucrose % (12 m)	Brix % (12 m)	Purity % (12 m)	Pol % cane (12m)	Extraction % (12 m)	Fibre % (12 m)	NMC at 12 m (000/ha)
1	Co 10036	9.43	75.19	12.53	17.94	19.86	90.34	13.58	52.19	14.46	107.90
2	CoH 10262	12.17	91.60	13.28	19.05	21.17	89.97	14.17	53.91	14.36	86.91
3	CoPant 10221	10.64	81.36	13.08	18.79	20.95	89.65	14.32	52.25	14.53	111.97
4	CoPb 10181	11.61	86.42	13.42	19.25	21.40	89.88	14.55	53.16	14.40	98.02
5	CoPb 10182	11.00	83.70	13.11	18.79	20.88	90.01	14.28	53.19	14.43	88.02
<b>Stds</b>											
1	CoS 767	9.91	74.07	13.33	19.11	21.22	90.04	13.67	53.51	14.59	102.10
2	CoS 8436	9.18	66.30	13.84	19.78	21.84	90.58	14.42	53.99	14.42	99.01
3	CoPant 97222	10.17	73.83	13.77	19.66	21.69	90.66	14.34	54.03	14.49	100.99
	SE	0.43	1.70	0.39	0.51	0.44	0.62	-	1.13	-	3.76
	CD	0.93	3.64	NS	NS	0.94	NS	-	NS	-	8.05
	CV	5.03	2.63	3.63	3.27	2.55	0.84	-	2.60	-	4.62

S. No.	Entry	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	CCS % (10 m)	Sucrose % (10 m)	Brix % (10 m)	Purity % (10 m)	No. of shoots (000/ha) 240 days	No. of tillers (000/ha) 120 days	Germination % (45 days)
1	Co 10036	190	1.91	0.759	10.67	15.67	18.30	85.61	-	162.59	39.07
2	CoH 10262	227	2.40	1.273	11.08	16.22	18.81	86.22	-	197.41	50.93
3	CoPant 10221	189	2.22	0.754	11.46	16.73	19.30	86.70	-	196.67	48.24
4	CoPb 10181	224	2.39	0.891	11.43	16.68	19.24	86.65	-	191.60	46.67
5	CoPb 10182	242	2.25	1.092	10.60	15.56	18.18	85.59	-	200.49	47.59
<b>Stds</b>											
1	CoS 767	212	2.28	0.798	11.21	16.40	18.99	86.36	-	190.49	48.89
2	CoS 8436	171	2.36	0.706	11.74	17.10	19.65	87.04	-	193.21	45.65
3	CoPant 97222	176	2.15	0.775	11.59	16.90	19.46	86.88	-	192.34	46.85
	SE	20.51	0.11	0.09	0.13	0.18	0.17	0.17	-	5.15	2.08
	CD	44.00	0.23	0.20	0.29	0.38	0.37	0.37	-	11.06	4.47
	CV	12.58	5.93	12.71	1.45	1.34	1.10	0.25	-	3.31	5.46

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

S. No.	Entry	CCS (t/ha)	Cane yield (t/ha)	CCS % (11 m)	Sucrose % (11 m)	Brix % (11 m)	Purity % (11 m)	Pol % cane (11m)	Extraction % (11 m)	Fibre % (11 m)
1	Co 10036	7.17	63.95	11.21	16.38	18.96	86.42	12.03	54.53	14.49
2	CoH 10262	9.09	75.31	12.07	17.53	20.03	87.53	12.50	54.34	14.42
3	CoPant 10221	8.01	69.14	11.59	16.90	19.44	86.90	12.71	54.65	14.53
4	CoPb 10181	8.70	74.44	11.68	17.02	19.52	87.00	12.69	57.77	14.46
5	CoPb 10182	8.33	73.70	11.26	16.45	19.02	86.48	12.11	53.40	14.56
<b>Stds</b>										
1	CoS 767	7.70	66.30	11.61	17.37	19.87	87.41	12.76	54.75	14.63
2	CoS 8436	7.85	64.07	12.25	17.70	20.18	87.72	13.71	55.85	14.40
3	CoPant 97222	7.74	65.56	11.79	17.17	19.70	87.14	12.72	55.70	14.48
	SE	0.25	1.99	0.29	0.38	0.35	0.36	-	1.49	-
	CD	0.54	4.27	0.61	0.81	0.76	0.77	-	NS	-
	CV	3.86	3.53	2.99	2.70	2.20	0.51	-	3.32	-

S. No.	Entry	NMC at 11 months ('000/ha)	Stalk Length (cm)	Stalk Diameter (cm)	Single cane weight (kg)	No. of shoots (000/ha) 180 days	No. of tillers (000/ha) 90 days
1	Co 10036	81.36	162	2.12	0.805	-	156.67
2	CoH 10262	107.41	186	2.33	0.890	-	184.69
3	CoPant 10221	100.86	182	1.96	0.710	-	185.68
4	CoPb 10181	97.53	176	2.33	0.752	-	172.10
5	CoPb 10182	96.17	180	2.28	0.703	-	188.89
<b>Stds</b>							
1	CoS 767	100.25	178	2.19	0.698	-	187.65
2	CoS 8436	90.37	166	2.43	0.780	-	169.75
3	CoPant 97222	94.07	180	2.33	0.722	-	169.63
	SE	3.90	4.73	7.13	0.07	-	8.55
	CD	8.36	10.14	15.30	NS	-	18.34
	CV	4.97	3.29	3.88	12.01	-	5.92

**B- Meteorological data of Shahjahanpur (2015-16)**

Month/year	Temperature		RH%		Rainfall (mm)	No. of rainy days
	Max.	Min.	F.N.	A.N.		
April, 15	34.1	19.7	72.0	47.0	31.0	06
May, 15	40.5	24.3	67.0	32.0	14.2	01
June, 15	38.2	27.0	67.0	44.0	54.0	07
July, 15	33.8	26.6	86.0	71.0	308.0	08
August, 15	33.2	26.1	91.0	78.0	259.7	12
September, 15	34.5	24.9	83.0	61.0	13.4	02
October, 15	32.4	19.6	85.0	51.0	10.4	02
November, 15	28.8	14.2	86.0	53.0	-	-
December, 15	22.8	8.9	88.0	58.0	-	-
January, 16	21.2	7.6	92.0	61.0	1.6	01
February, 16	25.9	11.7	82.0	52.0	6.4	01
March, 16	31.7	16.6	72.0	41.0	4.4	03
<b>Total</b>	<b>31.4</b>	<b>18.9</b>	<b>80.9</b>	<b>54.0</b>	<b>703.0</b>	<b>43</b>

**C- ANNUAL REPORT (2015-16)**  
**ALL INDIA COORDINATED RESEARCH PROJECT ON SUGARCANE**  
**SHAHJAHANPUR (NWZ)**

## **Zonal Varietal Trials**

### **1- Initial Varietal Trial (Early)**

Twelve varieties including two standards viz., Co12026, Co12027, CoH12261, CoLk 12201, CoLk 12202, CoLk 12203, CoLk 12204, CoPant 12221, CoPant 12222, CoS 12231 standards CoJ 64 and Co 0238 were evaluated in R.B.D with three replications. The net plot size was 5M x 4R x 0.75M.

None of the varieties recorded significantly higher CCS t/ha and cane yield t/ha than the best standard Co 0238(10.36,89.56) respectively. Two varieties viz., Co 12027 (18.63) and CoLk 12201(18.47) were found significantly superior to the best standard Co0238(17.72) in sucrose percent in juice at 300 days. Maximum sucrose percent in juice was recorded in Co 12027 (17.45) and CoH 12261 (17.34) than the best standard CoJ 64 (17.33) at 240 days (Table-1).

### **2- Advance Varietal Trial (Early) I Plant**

Six varieties including two standards viz., CoH 11262, CoLk11201, CoLk11202, CoLk11203, standards CoJ 64 and Co 0238 were evaluated in R.B.D with three replications. The net plot size was 5M x 6R x 0.75M.

None of the varieties recorded significantly higher CCS t/ha and cane yield t/ha than the best standard Co 0238 (9.67, 84.89) respectively. Maximum sucrose % in juice at 240 and 300 days was recorded in CoLk 11203 (16.93, 17.60) followed by the better standard CoJ 64 (16.20, 16.94) (Table 2).

### **3- Advance Varietal Trial (Early) II Plant**

Five varieties including two standards viz., Co10035, CoH 10261, CoS 10231, standards CoJ 64 and CoPant 84211 were evaluated in R.B.D with four replications. The net plot size was 5M x6R x 0.75M.

Variety CoS 10231 (9.95, 85.00) recorded significantly higher CCS t/ha and cane yield t/ha than the best standard CoJ 64 (8.59,73.11). However, Co 10035 (81.22) recorded significantly superior cane yield t/ha than CoJ 64 (73.11) (Table 3).

#### **4- Advance Varietal Trial (Early) Ratoon**

Ratooning behaviour of five varieties including 2 standards viz., Co10035, CoH 10261, CoS 10231 standards CoJ 64 and CoPant 84211 were evaluated in R.B.D with four replications. The net plot size was 5M x 6R x 0.75M.

Variety CoS 10231 (9.86) gave significantly higher CCS t/ha than the better standard CoJ 64 (8.90). Regarding cane yield t/ha, variety CoS 10231 (78.22) followed by Co 10035 (74.89) proved significantly superior to the better standard CoJ 64 (71.67). Maximum sucrose % in juice at 270 days was recorded in CoS 10231 (18.25) than the best standard CoJ 64 (18.02) (Table 4).

#### **5- Initial Varietal Trial (Mid late)**

Eighteen varieties including 3 standards viz., Co 12028, Co 12029, CoH 12262, CoH 12263, CoLk12205, CoLk12206, CoPant 12223, CoPant 12224, CoPant 12225, CoPant 12226, CoPb 12181, CoPb 12182, CoPb 12211, CoPb 12212, CoS12232, standards CoS 767, CoS 8436 and CoPant 97222 were evaluated in R.B.D with three replications. The net plot size was 5 M x 4 R x 0.90 M.

Variety CoS 12232 (12.70, 92.59), CoPant 12223 (12.66, 99.63), Co 12029 (12.44, 92.04), CoPant 12226 (12.24, 90.93), Co 12028 (12.06, 85.93) recorded significantly superior CCS t/ha and cane yield t/ha to the better standard CoPant 97222 (10.10, 72.96). Varieties CoPant 12224 (94.07), CoLk 12205 (90.00), CoPb 12182 (89.44) and CoPb 12212 (85.93) recorded significantly superior in cane yield t/ha (Table 5).

#### **6- Advance varietal trial (Midlate) I Plant**

Nine varieties including three standards viz., Co 11027, CoH 11263, CoLk11204, CoLk11206, CoPb 11214, CoS 11232 standards CoS 767, CoS 8436, CoPant 97222 were evaluated in R.B.D with three replications. The net plot size was 5M x 6R x 0.90M.

Varieties CoS 11232 (12.07, 90.62), Co 11027 (11.71, 87.90), CoLk 11206 (10.93, 85.93) recorded significantly superior in CCS t/ha and cane yield t/ha to the best standard CoS 767 (9.67, 74.57). Variety CoLk 11204 (10.53) recorded significantly higher CCS t/ha. None of the variety exhibited higher sucrose % in juice than the best standard CoS 8436 (17.06 at 300 days and 19.33 at 360 days) (Table 6).

#### **7- Advance Varietal Trial (mid late) II Plant**

Eight varieties including three standards viz., Co10036, CoH 10262, CoPant10221, CoPb10181 and CoPb10182 standards CoS 767, CoS 8436 and CoPant 97222 were tested in R.B.D with three replications. The net plot size was 5M x 6R x 0.90M.

Varieties CoH 10262 (12.17, 91.60), CoPb 10181 (11.61, 86.42) proved significantly superior in CCS t/ha and cane yield t/ha to the best standard CoPant 97222 (10.17, 73.83). In regard to cane yield t/ha, CoPant 10221 (81.36) gave significantly superior to the best standard CoS 767 (74.07). None of the varieties were found superior in sucrose percent in juice to the best standard CoS 8436 (17.10, 19.78) at 300 and 360 days (Table 7).

## **8- Advance Varietal Trial (Midlate) Ratoon**

Ratooning behaviour of eight varieties including three standards Co10036, CoH 10262, CoPant10221, CoPb10181 and CoPb10182 standards CoS 767, CoS 8436 and CoPant 97222 were tested in R.B.D with three replications. The net plot size was 5M x 6R x 0.90M.

Varieties CoH 10262 (9.09, 75.31), CoPb 10181 (8.70, 74.44) recorded significantly superior in CCS t/ha and cane yield t/ha, CoPb 10182 for cane yield t/ha to the best standard CoPant 97222 for CCS t/ha and CoS 767 (66.30) for cane yield t/ha. All the varieties exhibited low sucrose percent compared to the best standard CoS 8436 (17.70) (Table 8).

### **Visit of Monitoring Team**

Monitoring team visited Shahjahanpur on 01-02 September, 2015.

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