

## North Central Zone

### 1. Advance Varietal Trial (Early 1<sup>st</sup> Plant )

Centre :- S.R.I., R.A.U, Bihar, Pusa

Sl. No	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (10m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	Pol % cane (10m)	Extraction % (10m)	Fibre % (10m)	NMC at 10 m ('000/ha)
1.	<b>BO 153</b>	9.95	90.26	18.50	16.07	86.60	11.02	12.83	57.37	13.23	104.95
2.	<b>CoP 08436</b>	9.80	87.58	18.50	16.24	87.57	11.19	12.52	57.40	12.86	121.64
3.	<b>CoSe 09452</b>	10.06	88.02	18.90	16.59	87.40	11.43	12.64	51.42	13.56	107.84
4.	<b>UP 09453</b>	10.64	86.05	20.50	17.96	87.30	12.37	13.67	48.32	13.84	100.06
Stds		-	-	-	-	-	-	-	-	-	-
1.	<b>BO 130</b>	8.85	81.53	18.10	15.89	86.90	10.85	12.05	53.24	13.78	101.91
2.	<b>CoSe 95422</b>	9.35	78.23	19.70	17.33	88.00	11.96	12.97	55.24	15.11	102.93
	<b>CD at 5 %</b>	2.50	9.78	1.12	1.09	1.03	0.19	0.51	0.86	1.59	13.10
	<b>CV %</b>	10.7	13.8	3.92	4.34	0.78	1.10	2.72	1.06	7.70	8.16

Sl. No	Clone	Stalk Length (m)	Stalk Dia-meter (cm)	Single cane weight (kg)	Brix % (8m)	Sucrose % (8m)	Purity % (8m)	CCS % (8m)	No.of shoots ('000/ha) 240 days	No.of tillers ('000/ha) 120 days	Germination % (45 days)
1.	<b>BO 153</b>	2.40	2.40	0.86	19.15	16.80	87.70	11.65	152.38	107.39	36.23
2.	<b>CoP 08436</b>	2.20	2.02	0.72	18.48	16.40	88.00	11.42	156.28	111.78	34.58
3.	<b>CoSe 09452</b>	2.35	2.15	0.82	19.00	16.66	87.50	11.48	143.82	104.52	32.34
4.	<b>UP 09453</b>	2.30	1.88	0.86	21.03	18.27	87.00	12.56	145.25	109.89	38.52
Stds		-	-	-	-	-	-	-	-	-	-
1.	<b>BO 130</b>	1.98	1.90	0.80	19.50	17.27	88.50	11.96	134.81	100.02	33.57
2.	<b>CoSe 95422</b>	2.15	1.98	0.76	17.95	15.92	86.40	10.94	155.73	124.22	34.28
	<b>CD at 5 %</b>	0.56	0.40	0.05	1.12	0.58	1.62	0.53	9.70	11.53	0.40
	<b>CV %</b>	1.68	2.67	4.00	3.88	2.31	1.22	3.01	8.44	9.30	0.76

Balwant kumar, Sugarcane Breeder ,SRI,Pusa

## North Central Zone

### 2. Initial Varietal Trial (Mid late)

Centre: S.R.I., R.A.U., Bihar, Pusa

Sl. No	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (12m)	Sucrose % (12m)	Purity % (12m)	CCS % (12m)	Pol % cane (10m)	Extraction On % (10m)	Fibre % (10m)	NMC at 10m ('000/ha) (12m)
1.	<b>CoSe 10451</b>	8.27	71.37	19.20	16.83	87.80	11.59	12.18	54.21	14.23	89.21
2.	<b>CoSe 10452</b>	9.5	77.52	20.20	17.77	86.40	12.25	12.58	54.32	13.89	94.53
3.	<b>CoSe 10453</b>	10.66	86.62	20.50	17.40	87.10	12.31	12.65	56.48	13.54	100.72
Stds		-	-	-	-	-	-	-	-	-	-
1	<b>Bo 91</b>	9.46	79.20	19.80	17.35	87.80	11.95	12.00	54.29	14.38	101.52
2	<b>CoP 9301</b>	9.97	81.70	20.00	17.67	88.40	12.21	12.90	52.39	14.89	111.00
3	<b>CoSe 92423</b>	9.73	78.46	21.50	18.31	85.00	12.41	12.60	58.12	12.35	98.60
	CD at 5 %	1.6	5.70	0.88	0.81	1.83	0.95	0.41	2.00	0.83	3.40
	CV %	10.40	4.77	2.91	3.56	1.40	5.20	3.12	2.43	3.97	6.80

Sl. No	Clone	Stalk Length (m)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (10m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	No.of shoots ('000/ha) 240 days	No.of tillers ('000/ha) 120 days	Germination % (45 days)
1.	<b>CoSe 10451</b>	1.75	2.2	0.80	19.33	16.97	87.78	11.76	120.36	121.34	26.73
2.	<b>CoSe 10452</b>	1.26	2.3	0.82	19.98	17.69	88.55	12.25	130.58	142.63	29.23
3.	<b>CoSe 10453</b>	2.40	2.4	0.86	20.23	17.69	88.30	12.24	142.33	130.72	33.68
Stds		-	-	-	-	-	-	-	-	-	-
1	<b>Bo 91</b>	2.26	2.2	0.78	19.80	17.70	89.53	12.32	150.31	128.59	34.25
2	<b>CoP 9301</b>	2.46	2.5	0.81	19.38	17.21	88.80	12.55	143.28	132.32	31.56
3	<b>CoSe 92423</b>	1.86	2.0	0.76	21.18	17.21	86.50	12.52	175.56	131.76	32.78
	CD at 5 %	1.26	0.21	0.04	0.76	0.85	1.64	0.18	14.11	13.62	3.40
	CV %	2.53	5.88	3.28	0.53	3.21	1.23	0.98	6.70	7.05	7.20

Balwant kumar, Sugarcane Breeder ,SRI,Pusa

## North Central Zone

### 3. Advanced Varietal Trial (Midlate 1<sup>st</sup> Plant)

Centre :- S.R.I., R.A.U, Bihar, Pusa

Sl. No	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (12m)	Sucrose % (12m)	Purity % (12m)	CCS % (12m)	Pol % cane (12m)	Extraction On % (12m)	Fibre % (12m)	NMC at 12 m ('000/ha)
1.	<b>BO 154</b>	11.86	101.86	19.2	16.88	88.08	11.64	13.95	54.38	12.34	115.75
2.	<b>CoP 09437</b>	11.45	98.42	19.3	16.89	86.99	11.63	13.00	53.42	12.68	104.7
Stds											
1.	<b>BO 91</b>	8.83	75.82	19.9	16.83	87.73	11.65	13.61	54.88	14.12	108.32
2.	<b>CoP 9301</b>	9.99	80.52	21.9	18.40	83.98	12.41	15.24	56.82	12.16	108.79
3.	<b>CoSe 92423</b>	9.17	80.62	18.7	16.41	87.80	11.38	13.21	52.23	14.51	103.36
	<b>CD at 5 %</b>	1.04	4.32	0.90	0.84	1.34	0.64	0.34	3.90	0.68	7.76
	<b>CV %</b>	6.37	8.24	3.01	3.30	1.00	3.57	3.69	4.65	0.36	11.05

Sl. No	Clone	Stalk Length (m)	Stalk Dia-meter (cm)	Single cane weight (kg)	Brix % (10m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	No.of shoots ('000/ha) 240 days	No.of tillers ('000/ha) 120 days	Germination % (45 days)
1.	<b>BO 154</b>	2.96	2.38	0.88	18.4	16.10	87.0	10.39	165.12	134.37	38.50
2.	<b>CoP 09437</b>	2.86	2.34	0.94	14.1	16.60	87.3	11.38	160.82	132.15	37.90
Stds											
1.	<b>BO 91</b>	2.76	2.04	0.70	18.8	16.60	88.5	11.47	156.38	122.48	35.50
2.	<b>CoP 9301</b>	2.42	2.32	0.74	21.4	18.43	86.9	12.58	142.42	120.36	36.20
3.	<b>CoSe 92423</b>	2.72	2.48	0.78	19.6	17.34	88.6	11.99	158.36	133.52	34.70
	<b>CD at 5 %</b>	0.20	0.14	0.42	1.01	1.13	1.81	0.32	7.25	5.14	1.30
	<b>CV %</b>	1.88	4.07	4.22	3.36	4.34	1.34	1.82	9.00	8.59	2.25

Balwant kumar, Sugarcane Breeder ,SRI,Pusa

## North Central Zone

### 4. Advanced Varietal Trial (Midlate II<sup>nd</sup> Plant)

Centre :- S.R.I., R.A.U, Bihar, Pusa

Sl. No	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (12m)	Sucrose % (12m)	Purity % (12m)	CCS % (12m)	Pol % cane (12m)	Extraction % (12m)	Fibre % (12m)	NMC at 12 m ('000/ha)
1.	<b>CoP 08437</b>	10.53	85.49	20.4	17.89	87.8	12.32	13.68	55.25	13.52	103.52
2.	<b>CoSe 08451</b>	9.16	79.08	19.1	16.92	88.5	11.71	12.73	54.20	14.73	100.11
3.	<b>CoSe 08452</b>	9.82	80.01	21.1	18.11	85.0	12.28	13.64	54.65	14.65	98.72
Stds											
1.	<b>BO 91</b>	8.72	73.44	19.5	17.20	88.2	11.88	12.92	55.07	14.89	102.53
2.	<b>CoP 9301</b>	8.82	75.68	21.5	18.28	85.5	11.66	14.04	58.11	13.16	99.58
3.	<b>CoSe 92423</b>	9.16	80.21	18.8	16.46	87.5	11.44	12.97	53.82	15.82	104.17
	<b>CD at 5 %</b>	1.30	10.50	1.23	2.64	1.70	1.26	1.22	0.40	1.12	4.12
	<b>CV %</b>	9.70	9.00	4.06	2.47	1.32	1.48	1.13	1.45	2.02	9.24

Sl. No	Clone	Stalk Length (m)	Stalk Diameter (cm)	Single cane weight (kg)	Brix % (10m)	Sucrose % (10m)	Purity % (10m)	CCS % (10m)	No.of shoots ('000/ha) 240 days	No.of tillers ('000/ha) 120 days	Germination % (45 days)
1.	<b>CoP 08437</b>	1.62	1.93	0.83	18.9	16.52	87.37	11.33	148.79	138.36	38.42
2.	<b>CoSe 08451</b>	1.61	2.16	0.79	19.1	16.68	87.30	11.67	134.78	136.73	36.93
3.	<b>CoSe 08452</b>	2.11	2.27	0.81	19.9	17.62	88.20	12.20	132.96	134.18	34.36
Stds											
1.	<b>BO 91</b>	2.65	2.47	0.72	19.3	17.15	88.60	11.89	142.52	126.78	35.23
2.	<b>CoP 9301</b>	1.98	2.42	0.76	21.5	18.36	85.50	12.52	144.32	122.83	36.57
3.	<b>CoSe 92423</b>	2.45	2.09	0.77	20.7	17.98	87.20	12.33	152.54	136.52	34.17
	<b>CD at 5 %</b>	0.96	0.15	0.01	0.81	0.44	1.17	0.14	11.96	8.64	0.31
	<b>CV %</b>	1.58	4.62	1.67	2.71	2.47	0.89	0.81	10.78	10.33	0.58

Balwant kumar, Sugarcane Breeder , SRI,Pusa

## North Central Zone

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

Centre :- S.R.I., R.A.U, Bihar, Pusa

Sl. No	Clone	CCS (t/ha)	Cane yield (t/ha)	Brix % (11m)	Sucrose % (11m)	Purity % (11m)	CCS % (11m)	Pol % cane (11m)	Extraction % (11m)	Fibre % (11m)	NMC at 11 Months ('000/ha)
1.	<b>CoP 08437</b>	11.64	95.68	19.8	17.57	88.8	12.17	13.42	56.42	13.58	102.89
2.	<b>CoSe 08451</b>	10.01	85.03	19.3	17.04	88.0	11.78	12.83	54.32	14.59	101.33
3.	<b>CoSe 08452</b>	10.82	86.73	20.9	18.24	86.6	12.54	13.79	55.36	14.39	100.85
Stds											
1.	<b>BO 91</b>	8.88	71.69	19.9	17.81	89.5	12.39	13.41	54.57	14.68	99.58
2.	<b>CoP 9301</b>	9.87	76.74	20.8	18.15	87.1	12.48	13.29	58.20	13.21	98.36
3.	<b>CoSe 92423</b>	9.57	80.01	20.0	17.79	88.7	12.34	13.93	52.32	15.25	102.57
	<b>CD at 5 %</b>	0.63	13.10	0.91	0.82	1.75	1.58	0.67	0.41	0.62	7.80
	<b>CV %</b>	5.27	10.50	3.02	3.06	1.32	1.55	1.77	1.49	2.81	5.12

Sl. No	Clone	Stalk Length (m)	Stalk Diameter (cm)	Single cane weight (kg)	No .of shoots ('000/ha) 180 days	No.of tillers ('000/ha) 90 days
1.	<b>CoP 08437</b>	2.56	2.47	0.91	160.37	145.13
2.	<b>CoSe 08451</b>	2.48	2.39	0.84	141.28	138.07
3.	<b>CoSe 08452</b>	2.58	2.42	0.86	159.11	139.16
Stds						
1.	<b>BO 91</b>	2.52	2.34	0.72	152.32	127.35
2.	<b>CoP 9301</b>	2.42	2.38	0.76	151.23	129.72
3.	<b>CoSe 92423</b>	2.54	2.40	0.78	156.46	130.38
	<b>CD at 5 %</b>	0.10	0.04	0.02	12.4	12.60
	<b>CV %</b>	2.83	1.31	2.05	9.69	11.10

Balwant kumar, Sugarcane Breeder ,SRI,Pusa

## North Central and North East Zone

**Weather Condition during 01.04.2013 to 31.03.2014**

Centre : S.R.I., Pusa, Bihar

Monthly Year	Temperature (c)		R.H %		Rainfall (mm)	No. of rainy days	Pest occurrence	Disease occurrence
	Max	Min	7.0 Hr.	14.0 Hr.				
April'13	35.3	20.6	78	43	13.2	01	Root borer 2.3%, top borer 4.3 % & shoot borer 3.5 % .	-----
May'13	35.4	24.5	82	58	100.1	05	Root borer 5.8%, Shoot borer 7.2 % and top borer 7.3% .	Smut (5%)
June'13	33.5	26.4	88	71	135.8	09	Root borer 3.3%, Shoot borer 4.6 % and top borer 11.6%.	Smut (5—10 %)
July'13	33.5	26.8	89	69	45.4	07	Root borer 1.5%, Shoot borer 1.9 % and top borer 9.8% and stalk borer in trace.	---
Aug'13	32.8	26.0	89	68	127.7	10	Top borer 6.8% , stalk borer and plassey borer in traces.	Red Rot (RR), Pokkah Boeng (PB) in Trace (T)
Sept'13	34.0	25.8	88	63	111.1	03	Top borer 5.4% , stalk borer and plassey borer in traces.	PB(5%), RR(10%),Wilt (T-30%) and GSD(T- 5%)
Oct'13	30.2	22.5	91	67	285	06	Top borer, plassey borer,pyrilla and , black bug in trace.	PB(5%), RR(10%),Wilt (T-30%) and GSD(T- 5%)
Nov'13	27.8	14.0	90	46	00	00	Stem borer & Plassey borer and other borer in traces.	PB(5%), RR(10%),Wilt (T-30%) and GSD(T- 5%)
Dec'13	23.5	10.5	91	55	00	00	Stem borer & Plassey borer and other borer in traces.	PB(5-10%), RR(T - 15%),Wilt (T-30%) and GSD(T- 5%)
Jan'14	19.4	09.5	90	68	09.5	02	Stem borer & Plassey borer and other borer in traces.	-
Feb'14	22.3	10.7	90	60	22.4	03	Stem borer & Plassey borer and other borer in traces.	-
March'14	29.9	15.3	83	40	10.6	01	Stem borer & Plassey borer and other borer in traces.	Smut in Trace
Total					960.8	47	-	

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