CROP IMPROVEMENT, MANDYA CENTRE

A. Zonal Varietal Trials:2016-17

Experiment – 1

Table 1: Mean data of IVT- Early entries under crop improvement programme of AICRP (Sugarcane),Mandya-2016-17

Sl. No	Clone	CCS t/ha	Cane yield t/ha	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10 m)	Pol % cane (10 m)	Extraction % (10 m)	Fiber % (10 m)	NMC at (10m) ('000/ha)
1	Co 13002	10.84	76.93	20.83	19.77	95.17	14.13	14.95	50.9	14.4	78.3
2	Co 13003	8.64	70.37	19.67	17.58	89.61	12.23	13.36	55.0	14.0	62.3
3	Co 13004	10.99	82.64	20.17	18.80	93.31	13.33	14.39	53.3	13.5	58.7
4	Co 13071	12.41	112.30	20.17	18.83	93.52	13.36	14.17	52.3	14.7	87.0
5	CoN 13072	9.11	74.00	19.33	17.58	91.04	12.33	13.37	55.1	13.9	52.8
6	Co Snk13101	12.27	115.80	19.17	17.51	91.49	12.31	13.26	55.0	14.3	84.4
7	Co Snk13102	12.17	112.57	19.83	17.79	89.73	12.39	13.59	55.0	13.6	82.6
8	MS 13081	13.20	114.70	20.33	18.88	92.88	13.36	14.46	53.3	13.4	80.2
Standards											
1	Co 85004 (C)	12.68	92.35	20.67	19.33	93.57	13.72	14.78	52.4	13.5	67.4
2	Co 94008(C)	11.02	84.38	20.00	18.50	92.56	13.07	14.21	54.1	13.2	76.7
3	CoC 671(C)	10.58	85.05	20.33	18.55	91.34	13.03	14.07	53.2	14.2	79.2
	CD at 5%	NS	8.88	NS	1.30	NS	1.07	0.96	2.56	NS	7.19
	CV(%)	15.87	5.62	3.94	4.12	3.00	4.84	4.0	2.8	4.0	5.74

IVT Early (Contd...)

Sl. No	Clone	Stalk length (m)	Stalk diameter (cm)	Single cane weight (kg)	Brix % (8 m)	Sucrose % (8 m)	Purity % (8 m)	CCS % (8m)	No of shoots ('000/ha) 240 days	No of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 13002	1.80	2.72	0.98	20.67	19.33	94.68	13.80	82.4	107.7	59.11
2	Co 13003	1.85	2.67	1.13	19.67	18.36	94.56	13.10	88.0	110.4	49.33
3	Co 13004	2.07	2.51	1.41	19.50	18.05	93.79	12.83	97.6	106.8	45.46
4	Co 13071	1.88	2.64	1.29	20.00	18.74	94.88	13.39	106.9	132.5	61.52
5	CoN 13072	1.93	2.75	1.40	19.33	17.98	94.17	12.80	80.9	106.5	49.88
6	Co Snk13101	2.02	2.76	1.37	19.00	17.77	94.74	12.68	119.6	127.0	51.74
7	Co Snk13102	2.22	2.58	1.36	17.67	15.27	87.65	10.52	108.7	123.1	62.96
8	MS 13081	1.93	2.64	1.43	19.67	18.44	94.98	13.18	106.2	115.4	47.40
Standards											
1	Co 85004 (C)	1.91	2.09	1.37	19.33	17.98	94.22	12.81	98.5	106.9	48.19
2	Co 94008(C)	1.91	2.81	1.10	18.67	17.23	93.51	12.23	96.2	102.6	50.56
3	CoC 671(C)	1.76	2.79	1.07	20.67	19.41	95.07	13.87	105.1	116.7	43.60
	CD at 5%	0.22	0.35	0.18	1.25	1.34	1.30	1.01	8.66	8.39	NS
	CV(%)	6.55	7.82	8.39	3.76	4.37	0.81	4.64	5.13	4.32	14.21

4. **Inferences:** Totally 8 test entries and 3 standards were included in the trail. Co Snk13101 was the best performer which produced 115.80 t/ha of cane yield and 12.27 t/ha of sugar yield followed by MS13081 (114.70 t/ha& 13.20 t/ha of cane yield and sugar yield, respectively) compared to the better standard Co 94008 which produced 84.38 t/ha cane yield and 11.02 t/ha sugar yield.

Table 2: Mean data of AVT – Early I Plant entries under crop improvement programme of AICRP (Sugarcane) 2016-17,Mandya

Sl. No	Clone	CCS t/ha	Cane yield t/ha	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10 m)	Pol % cane (10 m)	Extraction % (10 m)	Fiber % (10 m)	NMC at (10m) ('000/ha)
1	Co 11001	9.95	105.20	20.50	18.22	88.52	12.61	12.38	51.67	14.41	96.75
2	Co 11004	12.21	112.30	21.67	20.53	94.30	14.62	12.92	53.00	13.99	96.26
3	CoM11081	6.74	69.82	20.67	19.01	91.50	13.36	12.68	57.67	13.41	81.31
4	CoM11082	10.32	116.25	20.50	19.50	94.65	13.91	11.99	51.00	14.38	98.80
5	CoM11084	10.96	114.60	21.00	18.82	89.17	13.07	12.01	59.67	13.93	100.29
Standards											
1	Co85004	9.45	89.50	20.17	19.21	94.75	13.71	12.11	53.33	14.27	93.29
2	Co 94008	10.84	93.25	19.67	17.64	89.17	12.25	11.17	51.33	13.95	83.96
3	CoC 671	10.84	84.50	20.67	19.49	93.82	13.85	12.65	57.00	13.42	80.53
	CD at 5%	0.76	10.44	NS	0.76	4.24	0.63	NS	4.95	NS	14.61
	CV(%)	2.32	6.07	3.31	2.28	2.64	2.69	5.37	5.21	5.14	7.08

AVT – Early I plant (Contd…)

Sl. No	Clone	Stalk length (m)	Stalk diameter (cm)	Single cane weight (kg)	Brix % (8 m)	Sucrose % (8 m)	Purity % (8 m)	CCS % (8m)	No of shoots ('000/ha) 240 days	No of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 11001	1.57	3.59	1.09	18.83	17.29	92.60	12.21	108.56	120.25	46.96
2	Co 11004	1.78	3.39	1.17	20.00	18.26	92.01	12.87	109.57	121.26	47.01
3	CoM11081	1.53	2.93	0.86	19.67	18.20	93.24	12.90	106.83	118.52	32.26
4	CoM11082	2.11	3.45	1.18	19.50	17.73	91.58	12.47	114.65	126.34	43.58
5	CoM11084	2.01	3.13	1.14	18.83	17.37	92.85	12.29	107.76	119.45	43.57
Standards											
1	Co85004	1.55	3.01	0.96	19.00	17.44	92.57	12.32	113.14	117.73	41.32
2	Co 94008	1.99	3.39	1.11	19.00	17.20	91.27	12.08	100.86	112.53	40.91
3	CoC 671	1.42	3.25	1.05	19.67	18.12	92.82	12.82	101.36	113.05	38.48
	CD at 5%	0.55	0.56	0.14	NS	NS	NS	NS	15.07	10.83	NS
	CV (%)	18.01	9.76	7.26	4.97	6.27	2.15	6.97	6.19	4.05	15.80

Inferences: Totally 5 test entries and 3 standards were included in the trail. CoM 11082 was the best performer which produced 116.23 t/ha of cane yield and 10.32 t/ha of sugar yield followed by CoM 11084 (114.60t/ha& 10.969.87 t/ha of cane yield and sugar yield, respectively) compared to the better standard Co 94008 which produced 93.25 t/ha cane yield and 10.84 t/ha sugar yield.

Table 3: Mean data of AVT – Early II Plant entries under crop improvement programme of AICRP (Sugarcane)- 2016-17

Sl. No	Clone	CCS t/ha	Cane yield t/ha	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10 m)	Pol % cane (10 m)	Extraction % (10 m)	Fiber %(10 m)	NMC at (10m) ('000/ha)
1	Co10004	14.28	78.54	19.50	18.37	93.69	13.05	13.89	50.9	14.4	53.1
2	Co10005	13.73	115.25	20.83	19.72	94.16	14.04	14.98	54.7	14.0	102.6
3	Co10006	11.84	75.17	19.33	18.15	93.32	12.87	13.93	57.7	13.2	80.1
4	Co10024	13.06	94.97	19.33	18.39	94.57	13.11	13.84	53.5	14.7	91.3
5	Co10026	13.20	94.33	20.83	19.64	93.77	13.96	14.94	53.7	13.9	92.1
6	Co10027	12.49	95.62	20.50	19.26	93.51	13.66	14.58	51.7	14.3	91.2
7	CoT 10366	12.38	94.52	19.67	18.60	94.04	13.24	14.15	52.8	13.9	88.4
8	CoT 10367	11.63	96.21	20.33	19.37	94.75	13.83	14.84	57.8	13.4	96.2
Standards											
1	Co85004	10.94	88.41	20.33	19.36	94.69	13.81	14.81	55.8	13.5	81.0
2	Co94008	11.13	92.15	20.17	18.73	92.31	13.22	14.41	53.6	13.0	88.6
3	CoC 671	9.75	82.63	20.67	19.49	93.82	13.86	14.79	50.3	14.2	77.8
	CD at 5%	4.86	10.85	NS	NS	NS	NS	NS	NS	NS	5.4
	CV(%)	39.90	6.96	3.43	3.78	1.29	4.06	3.72	5.9	4.2	3.8

AVT-Early II Plant Cane (Contd...)

Sl. No	Clone	Stalk length (m)	Stalk diameter (cm)	Single cane weight (kg)	Brix % (8 m)	Sucrose % (8 m)	Purity % (8 m)	CCS % (8m)	No of shoots ('000/ha) 240 days	No of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co10004	2.19	3.37	1.48	18.50	16.99	91.68	11.95	93.5	109.9	53.2
2	Co10005	2.22	2.69	1.12	18.50	16.59	89.42	11.54	124.5	134.8	45.5
3	Co10006	1.60	2.99	0.96	16.17	13.96	85.74	9.53	81.4	92.4	29.9
4	Co10024	1.77	2.97	1.06	16.83	14.91	88.32	10.31	107.3	121.6	43.6
5	Co10026	1.85	3.03	1.02	19.00	17.60	92.41	12.43	108.6	123.5	43.6
6	Co10027	1.74	3.19	1.05	18.00	16.30	90.30	11.39	109.0	123.9	41.3
7	CoT 10366	1.85	3.05	1.07	17.50	15.68	89.34	10.90	113.9	129.0	40.9
8	CoT 10367	1.79	3.30	1.28	17.83	16.07	89.88	11.20	113.5	128.4	38.5
Standards											
1	Co85004	1.65	2.77	1.09	19.00	17.36	91.17	12.18	109.5	127.8	39.2
2	Co94008	1.84	3.05	1.04	18.17	16.53	90.78	11.58	117.8	132.7	38.7
3	CoC 671	1.71	3.26	1.06	18.83	17.05	90.27	11.91	102.1	117.0	36.2
	CD at 5%	0.23	0.20	0.21	1.35	1.88	NS	1.55	7.4	5.0	NS
	CV(%)	7.50	3.84	11.31	4.41	6.77	3.34	8.04	4.0	2.4	20.0

Inferences: Only 8 test entries and 3 standards were evaluated in 3 replications. Co10005 performed better in terms of cane yield (115.25 t/ha). Highest sugar yield of 14.28 t/ha was evident for Co10004 against 11.13 t/ha sugar yield produced by the better standard Co94008 followed by Co850004 (88.41t/ha cane yield and 10.94 t/ha sugar yield). .

Experiment- 4

01.	Title of the experiment	Assessment of sugarcane entries of early group under Advanced Varietal Trial for their ratooning ability.
02.	Date of Ratooning	30-01-2016
03.	Location	Zonal Agricultural Research Station, V.C.Farm, Mandya
04.	Objective	To test the entries under AVT Early group for better ratoonability
05.	Number of entries	3+3
06.	Plot size	6 M x 8R x 1.2M = 57.6 m^2
07.	Design	RCBD
08.	Replication	04
09.	Entry/Genotype	Co10004, Co10005, Co10006, Co10024, Co10026, Co10027 CoT 10366, CoT 10367
10.	Standards	Co 85004, Co 94008 and CoC 671
11.	Fertilizer application	250:100:125 NPK kg/ha
12.	Intercultural operation	3 hoeing and 4 hand weeding
13.	Irrigation	Once in a week depending upon soil condition
14.	Name of the scientists involved	Dr. Nagaraja, T. E., Dr.V.N. Patel, Dr.Thimmegowda, P., Mr. Ravindrababu, B. T. & Mrs. Sunitha,B.P.

Inferences:. All the entries were infected due to Yellow Leaf Disease, hence the data on quality and yield was not accounted for drawing final inference.

Table 5: Mean data of IVT- Mid late entries under crop improvement programme of AICRP (Sugarcane) 2016-17

Sl. No	Clone	CCS t/ha	Cane yield t/ha	Brix % (12 m)	Sucrose % (12 m)	Purity % (12 m)	CCS % (12 m)	Pol % cane (12 m)	Extraction % (12 m)	Fiber % (12 m)	NMC at (10m) ('000/ha)
1	Co 13005	11.08	92.26	18.75	17.22	91.6	12.11	17.22	51.75	14.01	92.63
2	Co 13006	15.02	112.88	20.00	18.70	93.3	13.25	18.70	52.50	13.33	95.87
3	Co 13008	18.09	137.48	20.50	19.18	93.4	13.60	19.18	50.00	12.38	122.58
4	Co 13009	17.76	129.58	20.50	19.39	94.4	13.81	19.39	49.75	13.70	98.54
5	Co 13011	14.95	114.41	20.00	18.34	91.5	12.89	18.34	51.50	14.06	109.80
6	Co 13013	18.39	138.60	20.75	19.24	92.6	13.59	19.24	47.00	13.64	110.52
7	Co 13014	11.73	90.55	20.50	19.27	93.8	13.69	19.27	53.00	12.74	80.41
8	Co 13016	10.65	83.28	20.25	18.68	92.0	13.17	18.68	48.85	14.47	70.25
9	Co 13018	10.89	76.94	21.50	20.27	94.1	14.42	20.27	50.75	12.77	78.41
10	Co 13020	17.87	140.70	20.75	19.12	91.8	13.46	19.12	48.25	13.18	130.58
11	CoM 13082	14.28	139.33	19.00	17.57	92.3	12.39	17.57	51.25	12.25	128.45
12	CoN 13073	14.95	114.61	20.50	18.78	91.4	13.20	18.78	50.00	13.46	106.20
13	CoN 13074	13.70	117.86	18.50	16.75	90.4	11.70	16.75	53.00	14.20	103.50
14	CoSnk 13103	16.42	122.05	20.75	19.61	94.3	13.97	19.61	50.75	12.95	110.50
15	CoSnk 13104	15.44	115.62	20.50	19.03	92.6	13.45	19.03	52.00	13.43	90.58
16	CoSnk 13105	10.96	88.29	19.25	17.91	92.8	12.67	17.91	51.00	12.96	85.36
17	CoSnk 13106	14.78	115.01	20.00	18.46	92.1	13.01	18.46	51.50	13.65	100.80
18	CoT 13366	13.22	110.78	18.75	17.22	91.7	12.11	17.22	50.60	14.06	85.96
19	PI 13131	10.59	82.24	19.50	18.38	94.0	13.07	18.38	54.00	13.64	82.54
20	PI 13132	16.83	128.70	19.50	18.62	95.3	13.32	18.62	50.53	14.10	110.24
Standards											
1	Co 86032(C)	15.41	118.31	19.50	18.46	94.5	13.16	18.46	53.70	14.47	105.40
2	Co 99004 (C)	15.21	114.84	20.00	18.82	94.0	13.38	18.82	51.60	13.70	93.65
	CD at 5%	2.53	16.06	NS	NS	NS	NS	1.26	8.00	NS	11.21
	CV(%)	8.40	6.84	3.98	4.53	2.11	5.04	4.53	6.81	4.27	5.41

IVT Mid-late (Contd...)

Sl. No	Clone	Stalk length (m)	Stalk diameter (cm)	Single cane weight (kg)	Brix % (10 m)	Sucrose % (10 m)	Purity % (10m)	CCS % (10 m)	No of shoots ('000/ha) 240 days	No of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 13005	1.64	3.44	1.01	18.75	17.22	91.6	12.11	116.94	141.56	36.57
2	Co 13006	2.08	3.25	1.20	20.50	19.27	93.8	13.25	120.18	139.74	34.72
3	Co 13008	2.06	3.31	1.34	20.50	18.12	93.8	13.60	163.71	195.96	54.63
4	Co 13009	1.89	3.76	1.37	19.25	18.48	94.1	13.81	115.76	152.91	58.10
5	Co 13011	1.78	3.42	1.04	17.75	18.62	95.3	12.89	127.51	131.24	38.77
6	Co 13013	2.16	3.61	1.44	20.25	19.28	95.0	13.59	153.16	192.56	37.50
7	Co 13014	1.83	3.48	1.14	19.50	18.62	95.3	13.69	104.72	139.87	56.48
8	Co 13016	1.94	3.60	1.24	20.25	18.80	92.6	13.17	94.56	110.79	33.68
9	Co 13018	1.91	3.48	1.00	21.25	19.92	93.5	14.42	102.72	155.78	41.44
10	Co 13020	1.59	3.39	1.03	20.25	18.92	93.2	13.46	152.20	198.20	56.25
11	CoM 13082	1.94	3.46	1.06	18.50	16.88	91.0	12.39	142.20	196.60	56.48
12	CoN 13073	1.91	3.47	1.09	17.50	14.87	84.8	13.20	131.32	136.54	35.19
13	CoN 13074	1.64	3.81	1.17	17.50	15.60	88.9	11.70	127.81	135.87	36.81
14	CoSnk 13103	2.01	3.70	1.07	20.25	19.16	94.4	13.97	126.70	136.62	35.30
15	CoSnk 13104	1.83	3.85	1.28	19.00	18.05	94.8	13.45	112.57	128.54	44.68
16	CoSnk 13105	1.58	3.54	1.00	18.25	16.89	92.2	12.67	107.35	125.49	55.67
17	CoSnk 13106	2.06	3.27	1.10	18.50	16.98	91.4	13.01	125.11	136.74	43.17
18	CoT 13366	2.21	3.36	1.29	18.00	16.54	91.7	12.11	110.27	127.44	34.72
19	PI 13131	1.77	3.26	1.01	18.25	16.65	91.1	13.07	106.85	129.52	45.60
20	PI 13132	2.16	3.48	1.17	19.00	19.17	93.5	13.32	144.55	164.17	50.46
Standards											
1	Co 86032(C)	1.90	3.18	1.16	19.50	19.07	94.0	13.16	149.71	177.26	34.38
2	Co 99004 (C)	2.12	3.48	1.24	18.50	18.48	93.4	13.38	117.96	123.98	35.53
	CD at 5%	NS	NS	NS	2.07	2.22	3.80	NS	11.73	21.10	10.38
	CV(%)	16.18	5.51	22.27	5.20	5.95	1.97	5.04	4.50	6.81	11.48

Inferences: Totally 20 test entries and 2 standards were included in the trial. When cane yield (t/ha) and CCS (t/ha) were considered, Co13008 (140.70 and 17.87, respectively), CoM 13082(139.33 & 14.28, respectively), Co 13013(138.60 & 18.39, respectively), and Co 13008(137.48 & 18.09, respectively) were the best performers when compared with standard Co 86032 which produced 118.31 t/ha and yield and 15.41 t/ha of CCS.

Table 6: Mean data of AVT-Mid late I plant cane entries under crop improvement programme of AICRP (Sugarcane) 2016-17

Sl. No	Clone	CCS t/ha	Cane yield t/ha	Brix % (12 m)	Sucrose % (12 m)	Purity % (12 m)	CCS % (12 m)	Pol % cane (12 m)	Extraction % (12 m)	Fiber % (12 m)	NMC at (12m) ('000/ha)
1	Co 11005	10.91	84.72	19.83	18.27	91.84	12.87	18.27	52.67	14.40	90.91
2	Co 11007	12.66	94.27	21.00	19.14	91.02	13.42	19.14	54.67	14.48	81.71
3	Co 11012	14.52	101.79	21.83	20.19	92.34	14.25	20.19	54.09	13.73	95.43
4	Co 11019	13.70	105.90	21.00	18.66	88.70	12.93	18.66	54.15	13.80	93.63
5	CoM 11085	13.59	104.05	20.67	18.69	90.30	13.05	18.69	52.91	14.80	100.58
6	CoM 11086	14.78	102.14	21.50	20.30	94.25	14.46	20.30	55.86	14.57	92.13
Standards											
1	Co 86032	14.64	105.27	21.67	19.81	91.42	13.91	19.81	54.13	14.41	101.16
2	Co 99004	13.48	102.14	20.50	18.77	91.50	13.19	18.77	52.62	14.00	93.40
	CD at 5%	2.34	10.62	NS	NS	NS	NS	1.62	NS	0.93	17.79
	CV(%)	9.85	6.06	4.56	4.82	3.93	5.88	4.82	8.42	3.74	8.42

AVT Mid-late I Plant cane (Contd...)

Sl. No	Clone	Stalk length (m)	Stalk diameter (cm)	Single cane weight (kg)	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10m)	No of shoots ('000/ha) 240 days	No of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co 11005	1.16	3.33	0.96	18.83	17.77	94.60	12.68	107.33	124.33	49.72
2	Co 11007	1.53	3.80	1.20	19.33	18.23	94.47	12.99	113.33	132.67	43.58
3	Co 11012	1.45	3.59	1.05	20.00	18.90	93.29	13.49	110.00	126.33	31.25
4	Co 11019	1.50	3.26	1.04	20.50	19.42	94.92	13.87	118.00	131.33	33.85
5	CoM 11085	1.03	3.19	1.01	19.50	18.38	92.95	13.10	130.33	145.33	38.74
6	CoM 11086	1.33	3.28	1.03	21.33	20.31	95.36	14.54	109.33	119.00	52.97
Standards											
1	Co 86032	1.41	3.36	1.06	19.67	18.28	93.27	12.95	118.00	116.33	37.35
2	Co 99004	1.50	2.24	1.12	19.17	18.24	95.36	13.06	108.90	115.67	49.03
	CD at 5%	NS	NS	NS	NS	1.28	NS	0.91	NS	18.07	8.93
	CV (%)	26.96	21.67	12.67	4.34	3.92	1.64	3.85	11.45	8.16	12.13

Inferences: Totally 6 test entries with 2 standards. Co11019 and CoM 11085 were the top ranking entries in terms of cane yield (105. 90 t/ha, 104.05t/ha, respectively) followed by CoM 11086 (102.14 t/ha), when compared to Co 99004 (102.14 t/ha of yield and 13.48 t/ha of CCS).

Table 6: Mean data of AVT-Mid late II plant cane entries under crop improvement programme of AICRP (Sugarcane) 2016-17

Sl. No	Clone	CCS t/ha	Cane yield t/ha	Brix % (12 m)	Sucrose % (12 m)	Purity % (12 m)	CCS % (12 m)	Pol % cane (12 m)	Extraction % (12 m)	Fiber % (12 m)	NMC at (12m) ('000/ha)
1	Co09009	14.62	115.36	19.75	17.99	90.6	12.60	18.0	54.5	14.1	90.45
2	Co10015	16.49	115.19	21.50	20.14	93.5	14.29	20.1	52.0	14.1	97.57
3	Co10017	15.89	114.24	21.25	19.68	92.4	13.90	19.7	53.0	13.6	74.13
4	Co10031	13.18	101.22	20.00	18.46	93.3	13.01	18.5	55.5	13.0	82.99
5	Co10033	16.41	123.78	20.00	18.70	93.3	13.26	18.7	53.5	14.5	104.25
6	CoM10083	14.39	109.11	20.50	18.78	91.3	13.20	18.8	54.5	14.1	81.60
7	PI 10131	16.16	117.80	20.75	19.36	93.1	13.72	19.4	54.0	13.8	71.09
8	PI 10132	16.40	119.79	20.50	19.26	93.7	13.68	19.3	52.5	14.1	82.55
9	CoVC10061	17.38	121.27	20.75	19.96	96.1	14.33	20.0	52.0	13.6	83.33
10	CoT10368	15.07	114.84	21.00	18.87	90.0	13.14	18.9	54.0	13.8	88.37
11	CoT10369	15.05	117.88	20.00	18.22	90.9	12.77	18.2	55.5	13.0	94.70
Standards											
1	Co 86032	14.79	113.11	19.75	18.48	93.2	13.09	18.5	54.0	13.1	83.85
2	Co 99004	14.33	101.30	21.25	19.93	93.6	14.15	19.9	52.5	13.1	77.86
	CD at 5%	3.17	9.44	NS	NS	NS	NS	NS	NS	NS	NS
	CV(%)	9.44	3.79	5.05	6.43	3.44	7.44	6.4	4.5	4.0	13.15

AVT Mid-late II Plant cane (Contd...)

Sl. No	Clone	Stalk length (m)	Stalk diameter (cm)	Single cane weight (kg)	Brix % (10 m)	Sucrose % (10 m)	Purity % (10 m)	CCS % (10m)	No of shoots ('000/ha) 240 days	No of tillers ('000/ha) 120 days	Germination % (30 days)
1	Co09009	1.92	3.41	1.10	19.25	17.31	89.4	12.03	140.5	172.5	53.4
2	Co10015	2.10	3.40	1.02	19.75	18.84	94.9	13.46	130.0	148.0	40.6
3	Co10017	2.60	3.50	1.37	21.00	19.71	93.4	13.98	131.0	160.7	52.5
4	Co10031	2.24	3.53	1.03	19.50	18.26	91.2	12.93	140.5	154.0	48.6
5	Co10033	2.43	3.34	0.98	19.25	17.55	90.6	12.28	144.9	154.9	35.3
6	CoM10083	2.06	3.26	1.12	20.75	19.36	91.7	13.69	122.5	142.6	49.4
7	PI 10131	1.92	4.02	1.30	21.00	19.70	93.3	13.97	110.2	129.6	43.9
8	PI 10132	2.05	3.57	1.12	19.75	18.59	93.7	13.20	130.4	152.6	41.5
9	CoVC10061	2.12	3.87	1.35	20.00	18.82	93.6	13.36	138.3	160.8	38.3
10	CoT10368	1.91	3.57	1.14	21.00	19.63	93.0	13.89	132.0	173.8	43.8
11	CoT10369	2.23	3.41	0.97	20.00	18.46	91.8	12.99	146.5	160.5	50.5
Standards											
1	Co 86032	1.89	3.33	1.23	19.25	17.55	90.7	8.79	107.1	129.1	46.1
2	Co 99009	2.07	3.39	1.19	21.00	19.15	90.9	12.29	103.9	123.7	38.4
	CD at 5%	NS	NS	NS	NS	NS	NS	NS	13.5	23.7	NS
	CV (%)	16.25	7.03	19.75	3.25	5.60	3.46	6.49	4.8	7.2	12.1

Inferences: Totally 11 test entries were included with 2 standards. Co10033 and CoVC10061were the top ranking entries in terms of cane yield (123.78 t/ha, 121.27t/ha, respectively) followed by PI 10132 (119.79t/ha), Co 09009(115.36 t/ha) and Co10015 (115.19 t/ha) when compared to Co 86032 (113.11 t/ha of yield and 14.79 t/ha of CCS).

Experiment No :8

01.	Title of the experiment	Assessment of sugarcane entries of Midlate group under Advanced Varietal Trial for their ratooning ability
02.	Date of ratooning	30-01-2016
03.	Location	Zonal Agricultural Research Station, V.C.Farm, Mandya
04.	Objective	To test the entries under AVT midlate group for better ratoonability .
05.	Number of entries	11+2
06.	Plot size	6 M x 8R x 1.2M = 57.6 m^2
07.	Design	RCBD
08.	Replication	02
09.	Genotypes	Co09009, Co10015, Co10017, Co10031, Co10033, CoM10083, PI 10131, PI 10132 ,CoVC10061, CoT10368 CoT10369
10.	Standards	Co 86032 and Co 99004
11.	Fertilizer application	250:100:125 NPK kg/ha
12.	Intercultural operation	3 hoeing and 4 hand weeding
13.	Irrigation	Once in a week depending upon soil condition
14.	Name of the scientists involved	Dr. Nagaraja, T. E., Dr.V.N. Patel, Dr.Thimmegowda,P., Mr. Ravindrababu, B. T. & Mrs. Sunitha,B.P.

5. Inferences: No entry was found good with respect to yield and quality parameters due to severe infestation of Yellow Leaf Disease hence the data on those parameters were not considered.

FLUFF 2016-17

Due to scarcity of irrigation water the fluff received from SBI, Coimbatore stored in the freezer. The sowing of the fluff will be taken during June month of 2017 and the results will be sent later.