

Table 1: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on lemongrass plant height (cm) during 2010/ 11 and 2011/ 12 seasons

DY application method ① (ASC) ppm*	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
Control 50 100 200 Mean (DY)	1 st cut					2 nd cut					3 rd cut					
	1st season															
	80.1	91.0	95.5	100.3	91.71	100.3	110.3	117.3	121.3	112.3	95.2	109.8	112.7	116.5	108.5	104.2
	93.5	107.5	110.4	112.4	105.9	111.3	127.0	130.3	135.6	126.1	108.2	120.9	124.5	128.8	120.6	117.5
	108.5	118.6	122.7	128.8	119.6	125.0	139.8	143.4	148.5	139.1	119.3	134.1	138.9	144.6	134.2	131.0
	103.8	115.4	124.9	120.4	116.1	120.1	137.1	146.2	140.6	136.0	115.4	131.4	141.4	136.0	131.1	127.7
	96.5	108.1	113.4	115.5	-	114.2	128.5	134.3	136.5	-	109.5	124	129.4	131.5	-	-
LSD at 0.05 for: ASC =4.43, DY =2.61, Interaction=5.11						ASC =5.20, DY =3.72, Interaction= 6.52					ASC =5.01, DY =3.11, Interaction= 5.82					-
	General mean (DY)															
	Control				Foliar spray				Soil drench				Spray + drench			
	106.7				120.2				125.7				127.8			
	2 nd season															
Control 50	75.5	87.3	93.9	98.7	88.8	96.2	106	111.5	115.3	107.2	90.3	103.2	107.5	110.3	102.8	99.6
	95.5	101.9	105.7	108.7	102.9	104.4	119.9	122.4	125.2	117.9	99.6	113.0	118.7	120.4	112.9	111.3
100	106.3	116.0	121.4	126.9	113.8	120.2	131.9	135.4	140.5	132.0	114.3	124.6	129.4	137.4	126.4	125.4
200	100.8	113.4	122.1	118.7	113.8	118.3	128.4	138.3	132.9	129.5	110.1	122.3	133.6	127.4	123.4	122.2
Mean (DY)	94.5	104.7	110.8	113.2	-	109.8	121.5	126.9	128.5	-	103.6	115.8	122.3	123.9	-	-
LSD at 0.05 for: ASC =3.66 , DY=2.02 , Interaction=4.88						ASC =4.15 , DY =2.54 , Interaction=6.23					ASC =4.00 , DY =2.06 , Interaction=5.01					-
	General mean (DY)															
	Control				Foliar spray				Soil drench				Spray + drench			
	102.6				114.0				120.0				121.9			

^① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season

Table 2: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on number of tillers/ lemongrass plant during 2010/ 11 and 2011/ 12 seasons

DY application method ^① (ASC) ppm*	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
	1 st cut					2 nd cut					3 rd cut					
	1st season															
Control	35.3	38.2	40.0	46.4	40.0	46.5	52.3	55.2	58.6	53.1	40.3	47.4	51.5	56.8	49.0	47.4
50	44.3	50.4	54.4	57.3	51.6	57.1	62.2	67.9	71.9	64.8	51.4	59.3	62.9	68.2	60.4	58.9
100	60.8	63.6	73.4	82.9	70.2	75.4	8.5	86.6	99.7	85.0	70.1	76.0	83.5	94.2	80.9	78.7
200	55.0	61.3	77.6	68.5	65.6	72.1	75.4	92.5	82.6	80.7	68.2	73.1	88.4	79.5	77.3	74.5
Mean (DY)	48.9	53.4	61.3	63.7		62.8	49.6	75.5	78.2		57.5	63.9	71.5	74.6		
LSD at 0.05 for:	ASC =4.35 , DY =3.60 , Interaction=5.05					ASC =6.03 , DY =3.67 , Interaction=7.19					ASC =5.25 , DY =2.81 , Interaction= 6.41					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	56.4			61.5			69.5			72.2						
	2 nd season															
Control	32.2	36.1	39.0	42.3	37.4	40.4	44.0	48.1	53.0	46.4	35.6	40.5	45.8	50.0	43.0	42.2
50	40.3	46.5	51.2	55.9	48.4	53.1	57.7	61.7	66.4	59.7	51.1	53.4	58.3	62.4	56.3	54.8
100	58.2	60.8	70.8	77.1	66.7	71.7	75.4	84.9	94.6	81.6	65.1	69.8	78.0	87.8	75.2	74.5
200	52.2	58.0	74.5	65.5	62.5	67.4	70.3	89.4	79.2	76.6	63.3	66.5	82.3	74.4	71.6	70.2
Mean (DY)	45.7	50.3	58.8	60.2		58.1	61.8	71.0	73.3		53.7	57.5	66.1	68.7		
LSD at 0.05 for:	ASC =4.01, DY =3.00 , Interaction=4.71					ASC =4.43 , DY =3.46, Interaction=6.51					ASC =4.24 , DY =3.26 , Interaction=5.71					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	52.6			56.6			65.3			67.4						

^① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season

Table 3 : Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on herb fresh weight per lemongrass plant (g) during 2010/ 11 and 2011/ 12 seasons

DY application method ⁰ (ASC) ppm	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
	1 st cut					2 nd cut					3 rd cut					
	1 st season															
Control	216.3	258.2	280.3	333.2	272.0	358.1	400.6	448.4	503.6	427.7	343.2	380.8	404.1	456.0	396.0	365.2
50	320.5	361.6	409.7	487.2	394.7	475.2	550.1	600.7	642.1	567.0	450.2	515.5	562.2	630.5	539.6	500.5
100	505.4	565.1	611.5	825.1	626.8	664.1	763.7	851.8	1191.0	867.7	611.6	682.5	790.1	1108.0	798.0	764.2
200	491.7	507.8	748.0	582.1	582.4	546.2	750.7	1024.1	789.8	777.7	520.1	655.5	912.6	690.6	694.7	684.9
Mean (DY)	383.4	423.2	512.4	556.9		510.9	616.3	731.2	781.6		481.3	558.6	667.2	721.3		
LSD at 0.05 for:	ASC =24.6 , DY =20.3 , Interaction=28.6					ASC =27.1 , DY =26.3 , Interaction=30.7					ASC =25.0 , DY =22.6 , Interaction=29.9					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	458.5			532.7			637.0			686.6						
	2 nd season															
Control	200.4	247.2	273.9	300.6	255.5	288.3	319.0	367.6	418.2	348.3	263.3	304.3	321.9	367.6	314.3	306.0
50	290.5	309.0	365.4	402.1	341.7	385.2	438.1	498.4	595.3	479.3	340.2	417.9	450.8	560.1	442.2	421.1
100	375.8	457.6	563.3	788.2	546.2	568.1	649.1	812.5	1099.2	782.3	506.3	625.0	771.0	974.3	719.2	682.5
200	409.9	434.5	658.3	483.2	496.5	482.1	620.0	1007.3	727.1	709.1	463.1	615.9	896.2	683.2	664.6	623.4
Mean (DY)	319.1	362.1	465.3	493.5		430.9	506.6	671.5	710.0		393.2	490.8	610.0	646.3		
LSD at 0.05 for:	ASC =22.3 , DY =18.7 , Interaction=24.2					ASC =25.2 , DY =23.0 , Interaction=29.1					ASC =24.0 , DY =20.7 , Interaction=26.0					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	381.1			453.2			582.2			616.6						

⁰ = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season

Table 4: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on herb dry weight per lemongrass plant (g) during 2010/ 11 and 2011/ 12 seasons

DY application method ^⓪ (ASC) ppm[*]	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
Control 50 100 200 Mean (DY)	1 st cut					2 nd cut					3 rd cut					
	1st season															
	50.2	56.7	63.8	75.4	61.5	80.5	91.3	101.3	112.6	96.4	66.1	73.2	84.0	96.7	80.0	79.3
	69.8	78.1	86.1	110.3	86.1	97.9	120.9	135.5	141.7	124.0	95.1	112.4	125.9	130.3	116.0	108.7
	101.0	127.7	134.1	200.8	140.9	121.2	178.2	194.4	281.1	193.7	116.2	153.7	185.0	256.8	177.9	170.9
	98.3	119.2	193.6	130.4	135.4	110.3	170.4	248.0	188.2	179.2	108.4	144.9	220.1	159.4	158.2	157.6
	79.8	95.4	119.4	129.2	-	102.5	140.2	169.8	180.9	-	96.5	121.1	153.8	160.8	-	-
LSD at 0.05 for:	ASC =10.2 , DY =8.31 , Interaction=13.5					ASC =15.7 , DY =11.5 , Interaction=17.0					ASC =12.0 , DY =13.1 , Interaction=14.9					-
	General mean (DY)															
	Control				Foliar spray				Soil drench				Spray + drench			
	92.9				118.9				147.7				157.0			
Control 50 100 200 Mean (DY)	2 nd season															
	45.5	50.2	59.0	69.6	56.1	69.3	80.1	86.6	99.2	83.8	61.8	65.4	73.2	88.3	72.2	70.7
	62.3	72.2	76.7	90.8	75.5	90.9	103.4	121.0	135.7	112.8	71.1	99.0	108.3	118.2	99.2	95.8
	91.2	111.3	125.6	190.9	129.8	111.1	174.1	188.3	256.8	182.6	102.1	135.8	175.4	226.6	159.9	157.4
	82.0	99.9	182.6	115.9	120.1	100.8	165.1	237.6	180.1	170.9	96.3	129.1	209.2	150.7	146.3	145.8
	70.3	83.4	111.0	116.8	-	93.0	130.7	158.3	168.0	-	82.8	107.3	141.5	145.9	-	-
	LSD at 0.05 for:	ASC =8.45 , DY =6.32 , Interaction=12.3					ASC =13.5 , DY =9.54 , Interaction=15.2					ASC =11.4 , DY =7.54 , Interaction=14.1				
	General mean (Y)															
	Control 82.0				Foliar spray 107.1				Soil drench 137.0				Spray + drench 143.6			

^⓪ = dry yeast was applied 7 times throughout the growing season at 14g/ L, ^{*} = Ascorbic acid was foliar sprayed 5 times throughout the growing season.

Table 5: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on herb fresh yield/ fed (ton) of lemongrass plant during 2010/ 11 and 2011/ 12 seasons

DY application method (ASC) ppm	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
	1 st cut					2 nd cut					3 rd cut					
	1st season															
Control	1.73	2.07	2.24	2.67	2.18	2.87	3.20	3.59	4.03	3.42	2.75	3.05	3.23	3.65	3.17	2.92
50	2.56	2.89	3.28	3.90	3.16	3.80	4.40	4.81	5.14	4.54	3.60	4.12	4.50	5.04	4.32	4.00
100	4.04	4.52	4.89	6.60	5.01	5.31	6.11	6.81	9.53	6.94	4.89	5.46	6.32	8.86	6.39	6.11
200	3.93	4.06	5.98	4.66	4.66	4.37	6.01	8.19	6.32	6.22	4.16	5.24	7.30	5.52	5.56	5.48
Mean (DY)	3.07	3.39	4.10	4.46	-	4.09	4.93	5.85	6.25	-	3.85	4.47	5.34	5.77	-	-
LSD at 0.05 for:	ASC =1.08, DY =0.45, Interaction=2.14					ASC =1.68, DY =1.11, Interaction=3.04					ASC =1.55, DY =0.96, Interaction=2.64					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	3.67			4.26			5.10			5.49						
	2 nd season															
Control	1.60	1.98	2.19	2.40	2.04	2.31	2.55	2.94	3.35	2.79	2.11	2.44	2.58	2.94	2.51	2.45
50	2.32	2.47	2.92	3.22	2.73	3.08	3.51	3.99	4.76	3.83	2.72	3.34	3.61	4.48	3.54	3.37
100	3.01	3.66	4.51	6.31	4.37	4.55	5.19	6.50	8.79	6.26	4.05	5.00	6.17	7.79	5.75	5.46
200	3.28	3.48	5.27	3.87	3.97	3.86	4.96	8.06	5.82	5.67	3.71	4.93	7.17	5.47	5.32	4.99
Mean (DY)	2.55	2.90	3.72	3.95	-	3.45	4.05	5.37	5.68	-	3.15	3.93	4.88	5.17	-	-
LSD at 0.05 for:	ASC =1.01 , DY =0.15, Interaction=1.96					ASC =1.26, DY =0.74, Interaction=2.67					ASC =1.17, DY =0.43, Interaction=1.32					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	3.05			3.63			4.66			4.93						

^① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season

Table 6: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on herb dry yield/ *fed* (ton) of lemongrass plant during 2010/ 11 and 2011/ 12 seasons

DY application method ① (ASC) ppm*	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
	1 st cut					2 nd cut					3 rd cut					
	1st season															
Control	0.402	0.454	0.511	0.603	0.493	0.644	0.730	0.810	0.901	0.772	0.528	0.586	0.672	0.773	0.640	0.635
50	0.559	0.625	0.689	0.883	0.689	0.783	0.967	1.084	1.134	0.992	0.761	0.899	1.007	1.043	0.928	0.870
100	0.808	1.022	1.073	1.606	1.128	0.969	1.426	1.556	2.249	1.550	0.930	1.230	1.480	2.055	1.424	1.367
200	0.786	0.954	1.549	1.043	1.083	0.882	1.363	1.984	1.506	1.434	0.867	1.160	1.761	1.275	1.266	1.261
Mean (DY)	0.639	0.764	0.956	1.034	-	0.820	1.122	1.359	1.448	-	0.772	0.969	1.230	1.287	-	-
LSD at 0.05 for:	ASC=0.342 , DY=0.461 , Interaction=0.521					ASC=0.502 , DY=0.721 , Interaction=0.816					ASC=0.477 , DY=0.516 , Interaction=0.662					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	0.744			0.952			1.182			1.256						
	2 nd season															
Control	0.364	0.402	0.472	0.557	0.449	0.554	0.641	0.693	0.794	0.670	0.495	0.523	0.586	0.706	0.578	0.566
50	0.498	0.578	0.613	0.726	0.604	0.727	0.828	0.968	1.086	0.903	0.569	0.792	0.867	0.946	0.793	0.767
100	0.730	0.890	1.005	1.527	1.038	0.889	1.393	1.506	2.055	1.461	0.816	1.086	1.403	1.813	1.280	1.260
200	0.656	0.799	1.461	0.927	0.961	0.807	1.321	1.900	1.441	1.367	0.771	1.033	1.674	1.206	1.171	1.166
Mean (DY)	0.562	0.667	0.888	0.934	-	0.744	1.046	1.267	1.344	-	0.663	0.859	1.133	1.168	-	-
LSD at 0.05 for:	ASC=0.267 , DY=0.324 , Interaction=0.877					ASC=0.452 , DY=0.544 , Interaction=0.626					ASC=0.401 , DY=0.331 , Interaction=0.508					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	0.656			0.857			1.096			1.149						

① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season

Table 7: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on essential oil % in interactions herb during 2010/ 11 and 2011/ 12 seasons

DY application method ① (ASC) ppm	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
	1 st cut					2 nd cut					3 rd cut					
	1st season															
Control	0.12	0.14	0.15	0.16	0.14	0.14	0.16	0.17	0.18	0.16	0.13	0.14	0.16	0.17	0.15	0.15
50	0.15	0.16	0.18	0.20	0.17	0.18	0.20	0.21	0.23	0.21	0.17	0.18	0.20	0.21	0.19	0.19
100	0.19	0.21	0.24	0.26	0.23	0.22	0.25	0.28	0.32	0.27	0.20	0.23	0.26	0.30	0.25	0.25
200	0.16	0.20	0.26	0.22	0.21	0.21	0.24	0.30	0.26	0.25	0.18	0.21	0.28	0.25	0.23	0.23
Mean (DY)	0.18	0.21	0.21	0.19	-	0.18	0.21	0.24	0.25	-	0.17	0.19	0.23	0.23	-	
LSD at 0.05 for:	ASC =0.064 , DY =NS , Interaction=0.081					ASC =0.88 , , DY =NS, Interaction=0.104					ASC =0.074 , , DY =NS, interaction=0.094					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	0.17			0.19			0.22			0.23						
	2 nd season															
Control	0.11	0.12	0.13	0.15	0.13	0.12	0.14	0.16	0.17	0.15	0.11	0.13	0.14	0.16	0.14	0.14
50	0.13	0.15	0.17	0.18	0.16	0.16	0.18	0.19	0.20	0.18	0.15	0.17	0.18	0.19	0.17	0.17
100	0.17	0.20	0.23	0.25	0.21	0.21	0.23	0.26	0.31	0.25	0.19	0.22	0.25	0.29	0.24	0.23
200	0.15	0.19	0.24	0.21	0.20	0.20	0.21	0.29	0.25	0.24	0.18	0.20	0.27	0.23	0.22	0.22
Mean (DY)	0.14	0.17	0.19	0.20		0.17	0.19	0.23	0.23		0.158	0.180	0.210	0.217		
LSD at 0.05 for:	ASC =0.051 , , DY =NS, Interaction=0.078					ASC =0.075 , , DY =NS, Interaction=0.100					ASC =0.062 , , DY =NS, Interaction=0.090					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	0.16			0.18			0.21			0.22						

① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season

Table 8: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on essential oil yield per lemongrass plant height (cc) during 2010/ 11 and 2011/ 12 seasons

DY application method ① (ASC) ppm	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
	1 st cut					2 nd cut					3 rd cut					
	1st season															
Control	0.260	0.362	0.421	0.533	0.394	0.501	0.641	0.762	0.907	0.703	0.446	0.533	0.647	0.775	0.601	0.566
50	0.481	0.579	0.738	0.974	0.693	0.855	1.100	1.261	1.477	1.173	0.765	0.928	1.124	1.324	1.035	0.967
100	0.960	1.187	1.468	2.145	1.440	1.461	1.909	2.385	3.811	2.392	1.223	1.570	2.054	3.324	2.043	1.958
200	0.787	1.016	1.945	1.281	1.257	1.147	1.802	3.072	2.054	2.019	0.936	1.377	2.555	1.726	1.649	1.642
Mean (DY)	0.622	0.786	1.143	1.233	-	0.991	1.363	1.870	2.062	-	0.843	1.102	1.595	1.787	-	-
LSD at 0.05 for:	ASC=0.201 , DY =0.176 , Interaction=0.311					ASC =0.314, DY =0.472 , Interaction=0.543					ASC =0.254 , DY =0.326 , Interaction=0.448					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	0.819			1.084			1.536			1.694						
	2 nd season															
Control	0.220	0.297	0.356	0.451	0.331	0.346	0.447	0.588	0.711	0.523	0.290	0.396	0.451	0.588	0.431	0.428
50	0.378	0.464	0.621	0.724	0.547	0.616	0.789	0.947	1.191	0.886	0.510	0.711	0.812	1.064	0.774	0.736
100	0.639	0.915	1.300	1.971	1.206	1.193	1.493	2.113	3.408	2.052	0.962	1.375	1.928	2.825	1.773	1.677
200	0.615	0.826	1.580	1.015	1.009	0.964	1.302	2.921	1.818	1.752	0.834	1.232	2.420	1.571	1.514	1.425
Mean (DY)	0.463	0.626	0.964	1.040	-	0.780	1.008	1.642	1.782	-	0.649	0.929	1.403	1.512	-	-
LSD at 0.05 for:	ASC =0.189 , DY =0.154 , Interaction=0.262					ASC =0.281 , DY =0.335 , Interaction=0.510					ASC =0.214 , DY =0.301 , Interaction=0.417					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	0.631			0.854			1.336			1.445						

^① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season

Table 9: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on essential oil yield/ *fed* (L) of lemongrass plant during 2010/ 11 and 2011/ 12 seasons

DY application method ① (ASC) ppm	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)
	1 st cut					2 nd cut					3 rd cut					
	1st season															
Control	2.08	2.90	3.37	4.26	3.15	4.01	5.13	6.10	7.26	5.62	3.57	4.26	5.18	6.20	4.80	4.53
50	3.85	4.63	5.90	7.79	5.54	6.84	8.80	10.09	11.82	9.39	6.12	7.42	8.99	10.59	8.28	7.74
100	7.68	9.50	11.74	17.16	11.52	11.69	15.27	19.08	30.49	19.13	9.78	12.56	16.43	26.59	16.34	15.67
200	6.30	8.13	15.56	10.25	10.06	9.18	14.42	24.58	16.43	16.15	7.49	11.02	20.44	13.81	13.19	13.13
Mean (DY)	4.98	6.29	9.14	9.87	-	7.93	10.90	14.96	16.50	-	6.74	8.82	12.76	14.30	-	-
LSD at 0.05 for:	ASC =4.24, DY =2.51, Interaction=6.11					ASC =5.60, DY =3.57, Interaction=7.52					ASC =5.11, DY =2.67, Interaction=6.86					-
	General mean (DY)															
	Control			Foliar spray			Soil drench			Spray + drench						
	6.55			8.67			12.29			13.55						
	2 nd season															
Control	1.76	2.38	2.85	3.61	2.65	2.77	3.58	4.70	5.69	4.18	2.32	3.17	3.61	4.70	3.45	3.43
50	3.02	3.71	4.97	5.79	4.37	4.93	6.31	7.58	9.53	7.09	4.08	5.69	6.50	8.51	6.19	5.89
100	5.11	7.32	10.40	15.77	9.65	9.54	11.94	16.90	27.26	16.41	7.70	11.00	15.42	22.60	14.18	13.42
200	4.92	6.61	12.64	8.12	8.07	7.71	10.42	23.37	14.54	14.01	6.67	9.86	19.36	12.57	12.11	11.40
Mean (DY)	3.70	5.00	7.71	8.32	-	6.24	8.06	13.14	14.26	-	5.19	7.43	11.22	12.10	-	-
LSD at 0.05 for:	ASC =3.27, DY =2.04, Interaction=5.13					ASC =4.85, DY =3.13, Interaction=6.65					ASC =4.31, DY =2.56, Interaction=5.83					
	General mean (DY)															
	Control			Foliar spray			Land addition			Spray & Addition						
	5.05			6.83			10.69			11.56						

① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season.

Table 11: Effect of foliar spray of ascorbic acid (ASC), active dry yeast (DY) application method and their interactions on total carbohydrates % in lemongrass herb during 2010/ 11 and 2011/ 12 seasons

DY application method ① (ASC) ppm*	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	Control	Foliar spray	Soil drench	Spray + drench	Mean	General mean (ASC)	
1st season	1 st cut					2 nd cut					3 rd cut						
	Control	14.3	16.0	16.6	17.2	16.0	16.4	18.0	18.4	20.8	18.4	15.2	16.7	17.3	18.1	16.8	17.1
	50	16.4	18.8	19.7	21.2	19.0	18.1	21.5	22.7	24.0	21.6	17.6	20.1	21.1	22.0	20.2	20.3
	100	21.2	24.7	26.1	28.7	25.2	24.8	26.5	28.1	30.1	27.4	22.2	25.0	27.1	29.2	25.9	26.1
	200	19.0	22.1	32.4	30.6	26.0	23.4	24.8	35.4	33.2	29.2	20.2	23.1	34.1	32.8	27.6	27.6
	Mean (DY)	17.7	20.4	23.7	24.4	-	20.7	22.7	26.2	27.0	-	18.8	21.3	24.9	25.5	-	-
	General mean (DY)																
	Control		Foliar spray			Soil drench			Spray + drench								
	19.1		21.4			24.9			25.7								
	2nd season	2 nd season															
Control		13.3	14.6	15.0	16.8	14.9	15.0	16.3	17.5	19.6	17.1	14.1	15.3	16.7	17.0	15.8	15.9
50		15.1	17.1	18.1	19.2	17.4	17.6	20.0	21.6	23.0	20.5	16.1	18.4	19.7	21.4	18.9	18.9
100		19.8	21.5	23.0	24.1	22.1	22.1	24.3	26.2	27.1	24.9	21.0	23.3	25.6	26.4	24.1	23.7
200		18.1	20.6	27.9	26.2	23.2	20.1	22.1	30.6	29.1	25.5	19.2	21.1	29.4	28.0	24.4	24.4
Mean (DY)		16.6	18.4	21.0	21.6	-	18.7	20.7	24.0	24.7	-	17.6	19.5	22.9	23.2	-	-
General mean (DY)																	
Control		Foliar spray			Soil drench			Spray + drench									
17.6		19.5			22.6			23.2									

① = Dry yeast was applied 7 times throughout the growing season at 14g/ L, * = Ascorbic acid was foliar sprayed 5 times throughout the growing season.