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Results of the November 23, 2008, samplings of the First-Stubble (seventh sampling) and Plant-Cane (third sampling) Sugarcane Maturity Tests at the USDA-ARS Sugarcane Research Laboratory's Ardoyne Research Farm at Schriever, LA are attached. The study is designed to examine the natural ripening process and compare the results for the same harvest dates over a 5yr period (2005 – 2009); consequently, a glyphosate-containing ripener is not applied. Samples consist of 15, hand-cut stalks of clean, trash-free and properly topped cane from each of four replications. On a commercial farm, one can expect TRS/TC levels to be as much as 20% lower due to the additional trash in the cane associated with mechanical harvesting. The first-stubble study includes nine released Louisiana varieties: LCP 85-384, Ho 95-988, HoCP 96-540, L 97-128, L 99-226, L 99-233, HoCP 00-950, L 01-283 and L 01-299, and the candidate variety L 03-371 that is up for release in 2010. The plant-cane study includes all of the varieties in the first-stubble test with the exception of LCP 85-384 and L 01-299 whose release in 2009 was not expected when the study was planted in 2008. The study also contains the experimental varieties, HoCP 04-838 and HoCP 05-902 that are candidates for release in 2011 and 2012, respectively. Harvestable sugarcane stalks in all plots were counted on July 9th. Stalk counts, stalk weights, and TRS levels are used to provide an estimation of cane (tons/A) and sugar (lbs/A) yields.

Since the November 9th sampling, the Ardoyne Farm has received 0.68 in. of rain. Strong winds associated with previous rain events have caused a majority of the varieties in the maturity test to become lodged. The varieties with the greatest degree of lodging are LCP 85-384, L 99-233 and L 99-226 in the first-stubble and L 99-233 and HoCP 05-902 in the plant-cane test.

First-Stubble. During the 2-week interval, there was no change in weight or length. When compared to the averages for the previous four years, stalks of the core varieties (LCP 85-384, Ho 95-988, HoCP 96-540, L 97-128, and L 99-233) are heavier (0.3 lbs) and longer (12.5 inches). The varieties L 99-226 and L 97-128 had the heaviest stalks and L 99-226, L 99-233 and L 01-299 the longest stalks. HoCP 00-950 continues to have some of the shortest stalks of the varieties in this test, but its stalk weight is comparable to the weights of the core varieties.

Brix, sucrose, purities and theoretically recoverable sugar (TRS) levels continue to be lower for this time of year when compared to the previous four years. The average TRS for the core varieties is 271 lbs. which is 15 lbs. less than the four year average. HoCP 00-950 has the highest TRS/TC at 297 lbs., 12 lbs. higher than L 97-128 and 32 lbs./TC higher than HoCP 96-540. L 01-283 produced 283 lbs./TC, which is higher than all other varieties except HoCP 00-950 and L 97-128. The varieties with the lowest TRS levels were L 99-226 (262 lbs./TC) and the L 01-299 (259 lbs./TC).



Sugarcane Research Unit 5883 USDA Road Houma, LA 70360 (985) 872-5042 – Fax (985) 868-8369 An Equal Opportunity Employer When looking at the estimated yields, L 01-299 (63.2 tons/A) and L 01-283 (58.2 tons/A) produced the highest cane yields. The lowest cane yields were produced by L 97-128 (49.6 tons/A) and LCP 85-384 (48.1 tons/A) With the exception of LCP 85-384, all of the varieties had an estimated sugar yield of greater than 14,000 lbs./A with two varieties (L 01-283 and L 01-299) producing in excess of 16,000 lbs./A

Plant-Cane. Average stalk weight and length for the five core varieties (Ho 95-988, HoCP 96-540, L 97-128, L 99-233, and HoCP 00-950) are similar to the previous four years. On average the stalks increased in weight by 0.3 lbs. with no increase in length during the 4-week sampling interval. Of the varieties included, HoCP 96-540 and L 99-226 had the heaviest stalks and L 99-233, L 99-226 and L 97-128 the longest.

Normal juice Brix, sucrose and purity are about average for the five core varieties. TRS levels are slightly less than those recorded in 2008 and but 5 lbs. more than the four your average. Of the varieties included in this test, HoCP 96-540 had the lowest TRS level (268 lbs./TC) and HoCP 00-950 the highest (301 lbs./TC). TRS levels for the newly released L 01-283 are lower than HoCP 00-950 but higher than the other varieties included in this test. The experimental varieties L 03-371 and HoCP 04-838 produced TRS levels of 288 and 287 lbs./TC, respectively.

Average cane yields for the five core varieties in the plant-cane test were 53 tons/A which is 10 tons/A more than in 2008. Sugar yields are 14863 lbs./A which is 2657 lbs./A more than those recorded in 2008. Of the varieties, the highest cane yields were obtained with L 03-371 (60.6 tons/A) and HoCP 00-950 (56.7 tons/A). L 03-371 also had the highest sugar yields at 17477 lbs. of sugar/A followed by HoCP 00-950 with 16996 lbs. of sugar/A.

The eight and final sampling of the first-stubble maturity test is scheduled for December 7th.

Reminder. If you would like to discontinue your receipt of these reports or if you know of individuals who would like to begin receiving this information in 2009, please contact Mrs. Ashley DeHart by email (Ashley.DeHart@ars.usda.gov) Emailing insures address accuracy. Information regarding USDA research activities can also be found on our website: www.ars.usda.gov/msa/srrc/sru.

Maturity reports are prepared by Dr. Ed Richard and Mr. Mike Duet of the USDA-ARS Sugarcane Research Lab.

Maturity studies on first-stubble cane grown on mixed land at the Ardoyne Farm, USDA-ARS, Sugarcane Research Unit, Houma, LA, November 23, 2009¹.

Variety Year Stak Normal juice ¹ Sugar (alger) and (b)												TRS			
Variety Stak2 Normal juice ³ Sugar 1 Sugar 2											Previous	change			
Variety Verate View Verate Verat Verat Verat <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>2</td> <td>Sugar</td> <td>sample</td> <td>from</td> <td colspan="3">Estimated</td>					2				2	Sugar	sample	from	Estimated		
Variety Year Wt. Lh. Dia. Density Bc. Su. Pu. TRS sample Cane Sugers LCP 85-384 2009 2.1 106 17.04 14.40 84.41 267.1 245.9 21.2 48.1 12811 2008 1.8 87 17.0 44.40 84.41 267.1 245.9 21.2 48.1 12811 2006 1.7 96<0.70				Sta	alk²		N	ormal juic	e°	yield	date ⁺	previous	yie	ld°	
	Variety	Year	Wt.	Lh.	Dia.	Density	Bx.	Su.	Pu.	TRS	TRS	sample	Cane	Sugar	
			(Ib.)	(in.)	(in.)	(g/cm3)	(%)	(%)	(%)	(ID.)	(Ib.)	(lb.)	(tons/A)	(Ibs/A)	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	LCP 85-384	2009	2.1	106			17.04	14.40	84.41	267.1	245.9	21.2	48.1	12811	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2008	1.8	97			18.11	15.40	85.07	286.6	272.7	13.9	38.3	10989	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	2007	1.7	96	0.70	1.24	17.97	15.32	85.23	285.3	270.0	15.3			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	2006	2.0	101	0.81	1.13	18.13	15.64	86.28	293.0	277.6	15.4			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2005	1.7	86	0.77	1.12	18.46	15.74	85.26	293.3	279.4	13.9			
100000 2008 2.1 94 17.71 15.07 85.08 280.5 265.5 15.0 40.4 11331 2007 2.4 100 0.87 1.15 17.23 15.04 86.02 2286.7 250.1 36.6 2006 2.4 100 0.87 1.15 17.32 15.04 85.91 280.2 287.1 288.1 9.9 2008 2.5 103 17.79 15.16 84.27 283.5 283.2 283.1 28.1 58.5 14997 2007 2.2 103 0.79 1.19 17.69 15.06 85.04 277.3 246.2 31.1	Ho 95-988	2009	26	104			17 13	14 59	85 15	271.6	249.8	21.8	53.3	14479	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		2008	2.1	94			17.71	15.07	85.08	280.5	265.5	15.0	40.4	11331	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	2007	2.4	103	0.87	1.12	17.82	15.33	86.02	286.7	250.1	36.6			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	2006	2.4	100	0.87	1.15	17.93	15.40	85.91	288.0	279.4	8.6			
HoCP 96-540 2009 2.6 100 17.09 14.24 83.35 265.2 23.71 28.1 56.5 14997 2007 2.2 103 0.79 1.19 17.69 15.15 84.42 203.3 14.6 46.0 13025 2006 2.4 103 0.86 1.18 17.84 15.15 84.84 270.7 17.37 2005 2.3 94 0.86 1.16 18.13 15.42 85.05 289.8 265.9 23.9 17.91 15.20 84.89 285.4 272.8 12.6 49.6 14146 2007 2.4 100 77 1.80 18.20 15.78 80.26 27.7 12.1 20.9 2.7 11.0 0.77 1.20 18.44 16.76 284.4 12.3 2.005 <t< td=""><td>-</td><td>2005</td><td>2.1</td><td>89</td><td>0.87</td><td>1.02</td><td>17.82</td><td>15.01</td><td>84.21</td><td>278.0</td><td>268.1</td><td>9.9</td><td></td><td></td></t<>	-	2005	2.1	89	0.87	1.02	17.82	15.01	84.21	278.0	268.1	9.9			
HoCP 96-540 2009 2.6 109 17.09 14.24 83.35 265.2 27.1 28.1 56.5 14997 2006 2.2 103 0.79 1.19 17.68 15.15 84.27 235.5 283.9 19.6 46.0 13025 2007 2.2 103 0.79 1.18 17.84 15.15 84.28 284.4 270.7 13.7 2006 2.4 104 17.91 15.20 84.89 285.4 272.8 12.6 49.6 14146 2008 2.4 104 18.22 15.22 83.56 283.8 262.9 20.9 40.2 11393 2007 2.4 110 0.78 1.16 18.40 16.20 85.78 30.26 283.8 277.7 12.1 2005 1.9 93 0.78 1.11 18.57 15.54 83.66															
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	HoCP 96-540	2009	2.6	109			17.09	14.24	83.35	265.2	237.1	28.1	56.5	14997	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2008	2.5	103			17.97	15.15	84.27	283.5	263.9	19.6	46.0	13025	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		2007	2.2	103	0.79	1.19	17.69	15.05	85.04	277.3	246.2	31.1			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2006	2.4	103	0.86	1.18	17.84	15.15	84.89	284.4	270.7	13.7			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2005	2.3	94	0.86	1.16	18.13	15.42	85.05	289.8	265.9	23.9			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	97-128	2009	27	116			17 91	15 20	84 89	285.4	272.8	12.6	49.6	14146	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		2008	2.4	104			18.22	15.22	83.56	283.8	262.9	20.9	40.2	11393	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	2007	2.4	110	0.79	1.20	18.80	16.20	85.78	302.6	278.9	23.7			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	-	2006	2.6	114	0.87	1.09	18.44	15.76	85.46	296.7	284.4	12.3			
L 99-226 2009 3.1 119 16.82 14.04 83.46 261.6 244.2 17.4 54.0 14120 2008	•	2005	1.9	93	0.78	1.11	18.57	15.54	83.66	289.8	277.7	12.1			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				_		_		_	_						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	L 99-226	2009	3.1	119			16.82	14.04	83.46	261.6	244.2	17.4	54.0	14120	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2008													
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		2007													
2005	-	2006													
L 99-233 2009 2.2 119 17.24 14.41 83.59 263.5 246.7 16.8 56.9 15005 2008 2.1 112 17.93 14.96 83.45 273.2 266.4 6.8 49.2 13453 2007 1.8 104 0.72 1.12 17.69 14.93 84.37 274.1 259.1 15.0 2006 2.1 114 0.82 1.01 18.17 15.57 85.67 290.7 268.1 22.6 2005 1.8 101 0.73 1.15 18.00 15.16 84.22 280.8 268.2 12.6 HoCP 00-950 2009 2.4 101 18.15 15.58 85.82 296.8 290.4 6.4 51.0 15101 2008 2.1 93 18.15 15.58 85.82 296.8 290.4 6.4 51.0 15101 2007 2.1		2005													
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1 00-233	2009	22	119	I	I	17 24	14 41	83 59	263.5	246 7	16.8	56.9	15005	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	L 00 200	2003	2.2	112			17.24	14.96	83.45	203.0	266.4	6.8	49.2	13453	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	2000	1.8	104	0 72	1 12	17.69	14.00	84.37	274.1	259.1	15.0			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	2006	21	114	0.82	1.01	18 17	15.57	85.67	290.7	268.1	22.6			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	-	2005	1.8	101	0.73	1.15	18.00	15.16	84.22	280.8	268.2	12.6			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$									-						
2008 2.1 93 18.86 16.22 85.99 309.3 286.4 22.9 43.0 13311 2007 2.1 97 0.81 1.18 19.48 16.97 87.13 325.5 304.1 21.4 2006 <	HoCP 00-950	2009	2.4	101			18.15	15.58	85.82	296.8	290.4	6.4	51.0	15101	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2008	2.1	93			18.86	16.22	85.99	309.3	286.4	22.9	43.0	13311	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	2007	2.1	97	0.81	1.18	19.48	16.97	87.13	325.5	304.1	21.4			
2005 </td <td>-</td> <td>2006</td> <td></td>	-	2006													
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		2005													
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 01-283	2000	24	107	I	I	17.60	14.06	84 50	282.2	270.9	34	58.2	165/1	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	L 01-205	2009	2.4	107			19.75	16.06	04.J9 85.65	205.2	279.0	20.0	47.6	1/527	
2007 2006 2005 2005 2005 16.69 14.00 83.88 258.9 244.1 14.8 63.2 16347 2008 2007 2006 2006 (Cont'd) 2005	-	2008	2.2	104			10.75	10.00	05.05	303.0	205.0	20.0	47.0	14557	
2000 2005 <th< td=""><td>-</td><td>2007</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	-	2007													
L 01-299 2.5 118 16.69 14.00 83.88 258.9 244.1 14.8 63.2 16347 2008	-	2005													
L 01-299 2.5 118 16.69 14.00 83.88 258.9 244.1 14.8 63.2 16347 2008		2000		1		1		1	1		1	1		L	
2008 <td>L 01-299</td> <td>2009</td> <td>2.5</td> <td>118</td> <td></td> <td></td> <td>16.69</td> <td>14.00</td> <td>83.88</td> <td>258.9</td> <td>244.1</td> <td>14.8</td> <td>63.2</td> <td>16347</td>	L 01-299	2009	2.5	118			16.69	14.00	83.88	258.9	244.1	14.8	63.2	16347	
2007 <td>-</td> <td>2008</td> <td></td>	-	2008													
2006 <td></td> <td>2007</td> <td></td>		2007													
(Cont'd) 2005		2006													
	(Cont'd)	2005													

											TRS		
										Previous	change		
									Sugar	sample	from	Estim	nated
			Sta	alk²		N	ormal juic	e ³	yield	date ⁴	previous	yie	d ⁶
Variety	Year	Wt.	Lh.	Dia.	Density	Bx.	Su.	Pu.	TRS	TRS	sample	Cane	Sugar
		(lb.)	(in.)	(in.)	(g/cm3)	(%)	(%)	(%)	(lb.)	(lb.)	(lb.)	(tons/A)	(lbs/A)
L 03-371	2009	2.6	101			16.93	14.26	84.19	272.0	258.8	13.2	56.7	15448
	2008												
	2007												
	2006												
	2005												
			_	_					_	_		_	
Averages ⁵	2009	2.4	111	#DIV/0!	#DIV/0!	17.28	14.57	84.28	270.6	250.5	20.1	52.9	14288
	2008	2.1	101			18.10	15.20	84.20	282.1	267.8	14.3	42.2	11898
	2007	2.0	102	0.76	1.19	18.10	15.45	85.23	286.3	267.5	18.8		
	2006	2.2	98	0.83	1.13	18.12	15.51	85.55	289.3	276.3	13.0		
	2005	1.9	93	0.79	1.14	18.12	15.30	84.46	284.2	271.1	13.2		

¹ Data for each parameter represents the average of four replications of 15 stalks each.

² Stalk diameter and density based on a subsample consisting of 8 randomly selected stalks from the 15-stalk sample of each rep, will be taken on the 1st, 4th and the 8th maturity study sampling dates.
 ³ Brix factor = 0.8854; Sucrose factor = 0.8105.
 ⁴ Previous sample date was November 9, 2009.

⁵ Averages are based only on varieties included in previous year's first-stubble maturity study (LCP 85-384, Ho 95-988, HoCP 96-540, L 97-128, and, L 99-233).

⁶ Estimated cane yield is the product of stalk weight and millable stalk counts, estimated sugar yield is the product of TRS and estimated cane yield.

,				,		1			Sugar	Previous	TRS change from	Estin	nated
			Sta	alk ²		No	ormal juid	ce ³	yield	date ⁴	previous	yield ⁶	
Variety	Year	Wt.	Lh.	Dia.	Density	Bx.	Su.	Pu.	TRS	TRS	sample	Cane	Sugar
		(lb.)	(in.)	(in.)	(g/cm3)	(%)	(%)	(%)	(lb.)	(lb.)	(lb.)	(tons/A)	(lbs/A)
Ho 95-988	2009	2.5	99	0.94	1.04	17.35	14.65	84.40	271.7	243.2	28.5	48.5	13168
	2008	2.2	90	0.89	1.56	17.51	14.98	85.55	279.6	246.3	33.3	42.0	11738
	2007	2.8	106	0.90	1.19	16.18	13.41	81.17	239.2	208.9	30.3		
	2006	2.7	109	0.90	1.14	18.19	15.65	85.99	292.7	270.1	22.6		
	2005	2.1	84	0.91	1.02	18.48	15.67	84.76	291.1	248.4	42.8		
HoCP 96-540	2009	3.0	106	0.95	1.56	17.11	14.37	83.94	268.4	235.2	33.2	50.5	13616
	2008	2.5	102	0.87	1.13	18.31	15.58	85.09	292.8	245.6	47.2	46.6	13646
	2007	2.9	115	0.86	1.20	15.47	12.20	78.79	220.9	176.3	44.6		
	2006	3.0	119	0.94	1.20	17.86	15.25	85.37	287.0	252.2	34.8		
	2005	22	87	0.90	1.00	18.02	15.09	83.75	281.6	235.8	45.8		
	2000		01	0.00	1.00	10.02	10.00	00.70	2011.0	200.0	40.0		
L 97-128	2009	2.9	112	0.90	1.13	18.15	15.40	84.86	289.2	265.5	23.7	50.9	14682
	2008	2.7	104	0.91	1.09	18.50	15.58	84.71	291.2	256.4	34.8	42.1	12276
•	2007	2.5	120	0.82	1.08	15.92	12.84	80.64	235.3	204.5	30.8		
	2006	2.8	119	0.90	1.06	18.31	15.52	84.78	288.5	275.4	13.1		
	2005	2.3	96	0.87	1.06	18.95	15.82	83.51	294.9	268.3	26.6		
1 00-226	2009	3.2	113	0 08	1 07	17 15	14.46	8/ 15	270 5	234.4	36.1	56.0	1521/
200 220	2000	2.0	111	0.00	1.07	17.10	15.16	85 16	285.0	2/10	44.0	45.4	12050
	2000	2.3		0.30	1.02	17.00	15.10	05.10	205.0	241.0	44.0	43.4	12330
	2007												
-	2000												
L 99-233	2009	2.5	113	0.87	1.03	17.77	15.20	85.51	280.8	231.5	49.3	56.5	15855
	2008	2.0	107	0.79	1.07	17.97	15.18	84.45	278.9	247.7	31.2	48.8	13578
	2007	2.2	115	0.76	1.16	16.65	13.61	81.74	246.2	199.4	46.8		
	2006	2.2	118	0.82	0.95	18.33	15.73	85.79	291.0	272.4	18.6		
	2005	1.7	95	0.79	0.97	18.31	15.48	84.58	287.4	268.2	19.3		
	2000	28	07	0.08	1 09	19.66	15.95	84.03	300 5	284.8	15.7	56 7	16006
110CF 00-930	2009	2.0	97	0.90	1.00	10.00	16.60	96.45	218.0	204.0	22.7	46.0	14062
	2000	2.5	94 102	0.92	1.00	17.40	14 75	84 25	278.8	295.2	42.1	40.9	14902
	2007	2.5	103	0.04	1.17	10.21	16.63	96.57	210.0	205.8	12.1		
	2000	2.1		0.00	1.02								
	2000												
L 01-283	2009	2.6	106	0.90	1.06	18.33	15.53	84.72	294.1	272.0	22.1	54.0	15908
	2008	2.2	101	0.82	1.12	18.88	16.18	85.71	308.1	278.7	29.4	43.8	13469
	2007	2.4	109	0.79	1.20	17.13	14.27	83.29	268.3	241.3	27.0		
	2006												
	2005												
03-371	2009	28	98	0.94	1 16	17 73	15.05	84 89	288.1	269.6	18.5	60.6	17477
	2008	2.3	92	0.92	1.05	18.55	16.02	86.38	309.1	269.3	39.8	46.0	14227
	2007												
	2006												
	2005												
											I		
HoCP 04-838	2009	2.7	107	0.87	1.17	18.24	15.67	85.92	287.2	267.1	20.1	54.2	15557
	2008												
	2007												
	2006												
(Cont'd.)	2005												

Maturity studies on plant-cane grown on mixed land at the Ardoyne Farm, USDA-ARS, Sugarcane Research Unit, Houma, LA, November 24, 2009¹.

Maturity studies on plant-cane grown on mixed land at the Ardoyne Farm, USDA-ARS, Sugarcane Research Unit, Houma, LA, November 24, 2009¹.

											TRS		
										Previous	change		
									Sugar	sample	from	Estin	nated
			Sta	alk ²		Normal juice ³			yield	date ⁴	previous	yie	d ⁶
Variety	Year	Wt.	Lh.	Dia.	Density	Bx.	Su.	Pu.	TRS	TRS	sample	Cane	Sugar
		(lb.)	(in.)	(in.)	(g/cm3)	(%)	(%)	(%)	(lb.)	(lb.)	(lb.)	(tons/A)	(lbs/A)
HoCP 05-902	2009	2.3	100	0.90	1.01	18.31	15.35	83.80	289.4	260.6	28.8	48.9	14150
	2008												
	2007												
	2006												
	2005												
		_	_		_					-			
Averages ⁵	2009	2.8	105	0.93	1.17	17.81	15.09	84.73	282.1	252.0	30.1	52.6	14863
	2008	2.3	99	0.85	1.19	18.19	15.45	85.07	288.0	250.5	38.5	42.5	12206
	2007	2.5	112	0.83	1.17	16.09	13.04	80.73	235.9	194.5	41.4		
	2006	2.6	112	0.88	1.06	18.17	15.52	85.40	289.3	269.0	20.3		
	2005	2.1	90	0.86	1.04	18.69	15.81	84.58	294.2	258.4	35.8		

¹ Data for each parameter represents the average of four replications of 15 stalks each.

² Stalk diameter and density based on a subsample consisting of 8 randomly selected stalks from the 15-stalk sample of each rep, will be taken on the 1st & 3rd plant-cane maturity study sampling.

³ Brix factor =0.8854; Sucrose factor = 0.8105.

⁴ Previous sample date, October 27, 2009.

⁵ Averages are based only on varieties included in previous year's plant-cane maturity study (Ho 95-988, HoCP 96-540, L97-128, L99-233, and HoCP00-950).

⁶ Estimated cane yield is the product of stalk weight and millable stalk counts, estimated sugar yield is the product of TRS and estimated cane yield.