



## 2025 Ardoyne Farm Spring Fertilizer Test HoCP 14-885, PC-ARFERT25 2025 (plant cane)

Treatment	Tonnage (T/A)	Total Recoverable Sugar (lb/T)	Sugar (lb/A)
Grower Standard--80 lb N/A; 100 lb K <sub>2</sub> O /A, 40 lb S/A	23.2 ab	319 ab	7406 ab
GrowerStandard + PowerGrow (8oz Kelp / 8oz Manure) Knife-In	25.6 a	320 ab	8173 a
Grower Standard + PowerGrow (8oz Kelp / 8oz Manure) Foliar	25.2 ab	320 ab	8082 ab

P=0.05  
All values are the means of six replications

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Louisiana State University Ag Center  
 St. Gabriel Sugarcane Research Station  
 2025-Plant Cane

**HOCP14-885 Plant Cane (Imperial)**

Treatments	Leaf N %	Cane T/ac	Sugar lbs/ac	Brix %	TRS lbs/T	Fiber %	Moisture %	Polarity %	Purity %	Sucrose %
Grower STD100	1.950	51.8	9800	17.2	190	9.6	75.3	58.8	79.0	13.8
Grower STD100 + BF4	1.875	60.3	11527	17.1	191	9.7	75.3	59.1	79.6	13.9
Grower STD50	1.800	51.9	10328	17.4	200	10.1	74.7	61.2	81.0	14.4
Grower STD50 + BF4	1.800	51.4	9562	16.8	190	9.5	75.7	58.4	80.2	13.7
<i>p-value</i>	0.648	0.083	0.036	0.356	0.356	0.429	0.319	0.378	0.297	0.342
<i>SE</i>	0.095	2.46	485	0.25	5.05	0.31	0.39	1.339	0.85	0.29
Grower STD 100+BF4 vs Grower STD 100	-0.1	8.5	1727.0	-0.1	1.0	0.1	0.0	0.3	0.6	0.1

**HOCP14-885 Plant Cane (Metric)**

Treatments	Leaf N %	Cane t/ha	Sugar kg/ha	Brix %	TRS kg/t	Fiber %	Moisture %	Polarity %	Purity %	Sucrose %
Grower STD100	1.950	116.0	10985.8	17.2	95	9.6	75.3	58.8	79.0	13.8
Grower STD100 + BF4	1.875	135.1	12921.767	17.1	95.5	9.7	75.3	59.1	79.6	13.9
Grower STD50	1.800	116.3	11577.688	17.4	100	10.1	74.7	61.2	81.0	14.4
Grower STD50 + BF4	1.800	115.1	10719.002	16.8	95	9.5	75.7	58.4	80.2	13.7
<i>p-value</i>	0.648	0.083	0.036	0.356	0.356	0.429	0.319	0.378	0.297	0.342
<i>SE</i>	0.095	2.46	485	0.25	5.05	0.31	0.39	1.339	0.85	0.29
Grower STD 100+BF4 vs Grower STD 100	-0.1	19.0	1936.0	-0.1	0.5	0.1	0.0	0.3	0.6	0.1



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 2025-3rd Year Ratoon Cane

**HO12-615 Third Ratoon (Imperial)**

Treatments	Leaf N %	Cane ton/ac	Sugar lbs/ac	Brix %	TRS lbs/ton	Fiber %	Moisture %	Polarity %	Purity %	Sucrose %
Grower STD100	1.900	26.9	6455	19.4	239	11.08	71.95	72.3	84.7	16.8
Grower STD100 + BF4	1.775	29.0	7387	20.3	254	11.05	71.12	76.5	85.8	17.7
Grower STD50	1.750	24.0	5604	19.2	235	11.50	71.78	71.1	84.4	16.5
Grower STD50 + BF4	1.850	25.1	6214	20.0	247	12.32	70.42	74.7	85.2	17.3
<i>p-value</i>	0.412	0.119	0.072	0.315	0.396	0.008	0.025	0.365	0.723	0.359
<i>SE</i>	0.085	1.42	426	0.42	8.12	0.29	0.33	2.253	0.95	0.49
<b>Grower Standard 100 + BF4 vs Grower STD100</b>	-0.1	2.1	932.0	0.9	15.0	0.0	-0.8	4.2	1.1	0.9

**HO12-615 Third Ratoon (Metric)**

Treatments	Leaf N %	Cane t/ha	Sugar kg/ha	Brix %	TRS kg/t	Fiber %	Moisture %	Polarity %	Purity %	Sucrose %
Grower STD100	1.900	60.3	7236.055	19.4	119.5	11.08	71.95	72.3	84.7	16.8
Grower STD100 + BF4	1.775	65.0	8280.827	20.3	127	11.05	71.12	76.5	85.8	17.7
Grower STD50	1.750	53.8	6282.084	19.2	117.5	11.50	71.78	71.1	84.4	16.5
Grower STD50 + BF4	1.850	56.2	6965.894	20.0	123.5	12.32	70.42	74.7	85.2	17.3
<i>p-value</i>	0.412	0.119	0.072	0.315	0.396	0.008	0.025	0.365	0.723	0.359
<i>SE</i>	0.085	1.42	426	0.42	8.12	0.29	0.33	2.253	0.95	0.49
<b>Grower Standard 100 + BF4 vs Grower STD100</b>	-0.1	4.7	1044.8	0.9	7.5	0.0	-0.8	4.2	1.1	0.9



Louisiana State University Ag Center  
 St. Gabriel Sugarcane Research Station  
 2024--Plant Cane

**L01-299 Plant Cane (Imperial)**

Treatments	Cane T/ac	Sugar lbs/ac	Brix %	TRS lbs/T	Fiber %	Polarity %	Purity %	Sucrose %
Grower STD100	49.5	8574.2	17.6	173.9	12.3	56.3	73.6	13.2
Grower STD100 + BF4	51.2	9326.6	17.8	182.5	11.9	58.4	75.2	13.7
Grower STD50	48.2	8799.0	18.0	182.4	11.2	58.6	74.9	13.7
Grower STD50 + BF4	48.7	9299.4	18.1	190.5	12.2	60.4	76.7	14.1

Grower STD 100 +BF4 vs Grower STD 100	1.7	752.4	0.2	8.6	-0.4	2.1	1.6	0.5
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**L01-299 Plant Cane (Metric)**

Treatments	Cane t/ha	Sugar kg/ha	Brix %	TRS kg/t	Fiber %	Polarity %	Purity %	Sucrose %
Grower STD100	110.9	9611.7	17.6	87.0	12.3	56.3	73.6	13.2
Grower STD100 + BF4	114.7	10455.1	17.8	91.3	11.9	58.4	75.2	13.7
Grower STD50	108.0	9863.7	18.0	91.2	11.2	58.6	74.9	13.7
Grower STD50 + BF4	109.1	10424.6	18.1	95.3	12.2	60.4	76.7	14.1

Grower STD 100 +BF4 vs Grower STD 100	3.8	843.4	0.2	4.3	-0.4	2.1	1.6	0.5
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 2024-3rd Year Ratoon Cane

**HOCP-14-885 3rd Ratoon (Imperial)**

Treatments	Cane T/ac	Sugar lbs/ac	Brix %	TRS lbs/T	Fiber %	Polarity %	Purity %	Sucrose %
Grower STD100	49.6	10438.0	18.3	210.9	12.4	64.8	81.1	15.1
Grower STD100 + BF4	49.2	11027.0	18.9	223.5	12.7	68.1	82.7	15.9
Grower STD50	53.5	11181.0	18.2	207.5	13.1	64.0	80.4	14.9
Grower STD50 + BF4	52.3	11349.0	18.5	216.9	12.8	66.3	82.0	15.5

Grower STD100 + BF4 vs  
 Grower STD 100

-0.4      589.0      0.6      12.6      0.3      3.3      1.6      0.8

**HOCP-14-885 3rd Ratoon (Metric)**

Treatments	Cane t/ha	Sugar kg/ha	Brix %	TRS kg/t	Fiber %	Polarity %	Purity %	Sucrose %
Grower STD100	111.1	11701.0	18.3	105.5	12.4	64.8	81.1	15.1
Grower STD100 + BF4	110.2	12361.3	18.9	111.8	12.7	68.1	82.7	15.9
Grower STD50	119.8	12533.9	18.2	103.8	13.1	64.0	80.4	14.9
Grower STD50 + BF4	117.2	12722.2	18.5	108.5	12.8	66.3	82.0	15.5

Grower STD100 + BF4 vs  
 Grower STD 100

-0.9      660.3      0.6      6.3      0.3      3.3      1.6      0.8