

**BELIZE SUGAR INDUSTRIES LIMITED**

**TOWER HILL FACTORY**

**MANUFACTURING AND LABORATORY**  
**CROP WEEK ENDING May-31-15**

**REPORT NO.18-2015**

	This Week	CUMULATIVE FIGURES TODATE	
		This Crop	Last Crop
<b>CANE</b>			
Total Tons Ground .. . . . . .	48,230.73	904,175.90	917,344.73
<b>MILLING</b>			
Tons Cane / Hour .. . . . . .	292.54	316.49	340.52
Tons Fibre / Hour .. . . . . .	46.99	48.93	53.01
Pol Extraction % .. . . . . .	95.34	95.32	95.32
Reduced Pol Extraction (12.5%).. . . . . .	96.52	96.34	96.38
Abs. Juice Lost % Fibre .. . . . . .	24.34	25.61	25.36
Mixed Juice % Cane .. . . . . .	100.45	101.41	98.31
Imbition % Cane .. . . . . .	32.00	31.93	29.40
Imbition % Fibre .. . . . . .	199.21	206.50	188.83
Java Ratio .. . . . . .	78.97	79.36	78.93
Wholly Reduced Extraction (WRE).. . . . . .	95.88	95.79	96.31
<b>CANE</b>			
Pol % .. . . . . .	14.23	13.88	12.29
Fibre % .. . . . . .	16.06	15.46	15.57
<b>BAGASSE</b>			
Pol % .. . . . . .	2.10	2.13	1.85
Moisture % .. . . . . .	46.38	46.63	47.54
Fibre % .. . . . . .	50.91	50.67	50.08
<b>FIRST EXPRESSED JUICE</b>			
° Brix R. .. . . . . .	20.71	19.84	17.96
Purity % .. . . . . .	87.01	88.16	86.69
<b>ABSOLUTE JUICE</b>			
° Brix R. .. . . . . .	19.77	18.93	17.04
Purity % .. . . . . .	85.74	86.74	85.45
<b>MIXED JUICE</b>			
° Brix R. .. . . . . .	15.67	14.97	13.88
Purity % .. . . . . .	86.15	87.17	85.88
Reducing Sugars - Pol Ratio .. . . . . .	5.66	4.59	5.09
<b>LAST EXPRESSED JUICE</b>			
° Brix R. .. . . . . .	2.45	2.30	2.15
Purity % .. . . . . .	77.57	78.71	77.76
<b>CLARIFIED JUICE</b>			
° Brix R. .. . . . . .	14.53	14.07	13.43
Purity % .. . . . . .	85.75	86.71	85.85

**Last Crop Figures for Week Ending : May-25-14**

MANUFACTURING

	CUMULATIVE FIGURES TODATE		
	This Week	This Crop	Last Crop
<b>SYRUP</b>			
° Brix R. . . . .	68.77	66.72	63.05
Purity % . . . . .	84.79	85.55	84.44
<b>FILTER CAKE</b>			
Tons . . . . .	2,049.84	38,438.35	42,169.68
Pol % . . . . .	0.75	1.06	2.35
% Cane . . . . .	4.25	4.25	4.60
% Bagacillo Added . . . . .	8.00	8.89	8.77
<b>FINAL MOLASSES</b>			
Sucrose % Solids S - Ideal . . . . .	5.33	4.52	4.06
° Brix R. . . . .	85.01	84.09	83.69
Purity % . . . . .	34.80	32.00	33.14
Sucrose % Solids . . . . .	43.78	43.11	43.50
Invert % Solids . . . . .	23.44	23.58	22.55
Ash % Solids . . . . .	13.31	14.34	13.65
Solids % . . . . .	81.53	81.00	80.44
Tons / Ton Cane . . . . .	0.037	0.031	0.034
<b>SUGAR</b>			
Pol - Export Raw . . . . .	98.18	98.24	97.91
Pol - Plantation White . . . . .		99.78	99.77
Pol - Local Brown . . . . .	98.80	99.06	98.75
Pol - Average All Sugar . . . . .	98.35	98.47	98.19
Moisture - Export Raw . . . . .	0.39	0.38	0.57
Moisture - Plantation White . . . . .		0.05	0.05
Moisture - Local Brown . . . . .	0.11	0.10	0.13
Moisture - Average All Sugar . . . . .	0.28	0.31	0.46
<b>EFFICIENCIES</b>			
B.H.E. No. (S.J.M.) . . . . .	99.01	98.94	96.67
B.H.E. (Winter Carp) . . . . .	97.46	98.43	95.70
Overall Efficiency . . . . .	93.44	94.29	92.17
Tons Cane / Ton Sug. (Comm'l) . . . . .	7.95	8.03	9.37
Tons Cane / Ton Sug. 96° Sugar . . . . .	7.69	7.76	9.09
Overall Recovery . . . . .	86.94	88.29	85.22
Overall Recovery 96° Sugar . . . . .	87.72	89.08	85.98
Lime (Factory) % 96° Sugar . . . . .	0.49	0.39	0.45
K.w.h. used in Factory / Ton 96° Sugar . . . . .	210.50	198.58	220.73
Steam % Cane . . . . .	49.47	46.14	43.48
<b>FUEL</b>			
Diesel used for Power Generation . . . . .	0.00	0.00	0.00

**TIME ANALYSES AND DAILY DELIVERIES**

	This Week	CUMULATIVE FIGURES TODATE			
		This Crop		Last Crop	
		Hours	% Tot.Av.T.	Hours	% Tot.Av.T.
<b>TIME ACCOUNT</b>					
Total Available Time .. . . .	168.00	3,018.75	100.00	2,922.50	100.00
Weekend Stoppages .. . . .	0.00	62.08	2.06	53.21	1.82
Net Available Time .. . . .	168.00	2,956.67	97.94	2,869.29	98.18
<b>NON FACTORY LOST TIME</b>					
Out of Cane (Weather) .. . . .	0.00	0.00	0.00	16.22	0.56
Out of Cane (F.S.D.) .. . . .	0.00	2.80	0.09	7.42	0.25
Holidays .. . . .	0.00	28.50	0.94	28.00	0.96
Labour .. . . .	0.00	0.00	0.00	0.00	0.00
<b>Total Non Factory .. . . .</b>	<b>0.00</b>	<b>31.30</b>	<b>1.04</b>	<b>51.64</b>	<b>1.77</b>
<b>FACTORY AVAILABLE TIME</b>	<b>168.00</b>	<b>2,925.37</b>	<b>100.00</b>	<b>2,817.65</b>	<b>100.00</b>
<b>FACTORY LOST TIME</b>					
		<b>Hours</b>	<b>% Fact.Av.T.</b>	<b>Hours</b>	<b>% Fact.Av.T.</b>
<i>No.2 Bagasse Conveyor .. . . .</i>	0.50	1.69	0.06	22.30	0.79
<i>Electrical Power .. . . .</i>	0.00	0.97	0.03	8.28	0.29
<i>Steam .. . . .</i>	0.00	2.58	0.09	7.74	0.27
Out of Cane (Other) .. . . .	0.00	0.00	0.00	0.00	0.00
Machinery Repairs .. . . .	1.88	12.29	0.42	18.20	0.65
Chokes .. . . .	0.55	22.73	0.78	21.88	0.78
Electrical .. . . .	0.00	4.28	0.15	10.20	0.36
Instruments .. . . .	0.00	4.50	0.15	1.52	0.05
Process .. . . .	0.00	0.41	0.01	1.35	0.05
* Other Reasons .. . . .	0.20	19.01	0.65	32.26	1.14
<b>Total Factory .. . . .</b>	<b>3.13</b>	<b>68.46</b>	<b>2.34</b>	<b>123.73</b>	<b>4.39</b>
Time Grinding .. . . .	164.87	2,856.91	97.66	2,693.92	95.61
Factory Time Efficiency .. . . .	<b>98.14</b>		<b>97.66</b>		95.61
Overall Time Efficiency .. . . .	<b>98.14</b>		<b>94.64</b>		92.18

**DAILY CANE DELIVERIES**

Day	Mon	Tues	Wed	Thur	Fri	Sat	Sun
Date	May-25-15	May-26-15	May-27-15	May-28-15	May-29-15	May-30-15	May-31-15
Cane delivered to yard	5,260.21	7,384.07	7,430.97	7,351.97	6,464.38	7,013.90	7,172.81
Cane Ground	5,184.00	7,384.07	7,405.57	7,097.96	6,616.79	6,963.10	7,579.23
Tons Stock at 6:00 a.m.	228.61	228.61	254.01	508.03	355.62	406.42	0.00

<b>*Details:</b>	Full retention juice tank	<b>0.12</b>
	Feeder carrier tripped	<b>0.08</b>
<b>Major Lost time:</b>	Replaced the hydraulic oil pump for the dumping table = 1.00 Hr	
	<b>Total</b>	<b>0.20</b>

**Note:** Total Hours of Out of Cane due to Weather

**POL BALANCE BASED ON CANE GROUND FOR SUGAR**

POL BALANCE	CUMULATIVE FIGURES TODATE					
	This Week		This Crop		Last Crop	
	% Pol In Cane	% Pol In Juice	% Pol In Cane	% Pol In Juice	% Pol In Cane	% Pol In Juice
Pol - Recovered in Sugar .. . . . . .	86.94	91.19	88.29	92.63	85.22	89.40
Pol - Lost in Final Molasses .. . . . . .	7.65	8.03	5.99	6.28	7.76	8.14
Pol - Lost in Filter Cake .. . . . . .	0.22	0.24	0.35	0.37	0.94	0.99
Pol - Unaccounted For .. . . . . .	0.53	0.54	0.69	0.72	1.40	1.47
Pol - Total in Juice .. . . . . .	95.34	100.00	95.32	100.00	95.32	100.00
Pol - Total in Bagasse .. . . . . .	4.66		4.68		4.68	
Pol - Total in Cane .. . . . . .	100.00		100.00		100.00	

**PRODUCTION**

CANE GROUND	CUMULATIVE FIGURES TODATE		
	This Week	This Crop	Last Crop
	BSCFA-CZ .. . . . . .	12,673.82	277,815.84
BSCFA-OW .. . . . . .	18,076.92	318,809.88	420,635.98
PSCPA .. . . . . .	9,613.59	169,950.24	0.00
CSCPA .. . . . . .	3,344.86	57,730.84	0.00
Company (CGP & Research).. . . . . .	4,521.55	79,869.11	88,252.51
Total Factory Tons .. . . . . .	48,230.73	904,175.90	917,344.73
<b>SUGAR</b>			
Export Raw - Tons .. . . . . .	4,340.08	89,013.00	74,979.24
Plantation White - Tons .. . . . . .	0.00	9,534.37	8,349.59
Local Brown - Tons .. . . . . .	66.60	1,830.19	2,557.87
DC Demerara - Tons .. . . . . .	1,545.38	10,225.10	11,051.71
DC Other Export - Tons .. . . . . .	0.00	1,049.75	0.00
In Process - Tons .. . . . . .	114.58	942.27	932.47
Total made and in Process - Tons ..	6,066.64	112,594.68	97,870.88
<b>FINAL MOLASSES</b>			
Made and in Process - Tons .. . . . .	1,773.74	27,998.01	31,620.58



N. Leiva  
Production Superintendent



J.A. Cawich  
Laboratory Superintendent