

EXAMPLE

RUN REPORT NO. 12

Report Date: 12/23/2017

Date Checked: 12/24/2017

Report Checked by H. S. Birkett  
 12422 N. Oak Hills Parkway, Baton Rouge, Louisiana, 70810

Data Taken from Report used for Recalculating the Report

	RUN	TODATE
	---	-----
Dry Milling Factor	0.97	0.97
Crop Days	7.00	82.00
Hours Grinding	168.00	1,933.02
Minutes Grinding	0.00	0.00
Hours Lost	0.00	25.98
Minutes Lost	0.00	0.00
Mixed Juice % Cane	89.80	97.55
Imbibition % Cane	19.36	25.29
Pol % Bagasse	2.07	1.77
Moisture % Bagasse	46.35	47.36
Short Tons Gross Cane Ground	98,376.57	1,100,240.95
Crusher Juice Brix	16.91	18.15
Crusher Juice Purity	88.88	88.33
Mixed Juice Brix	14.71	15.23
Mixed Juice Purity	89.31	88.89
Last Roll Juice Brix	4.35	2.83
Last Roll Juice Purity	79.87	78.95
Clarified Juice Brix	14.50	15.55
Clarified Juice Purity	89.49	88.97
Syrup Brix	64.76	63.59
Syrup Purity	87.36	87.46
Final Molasses Brix	85.67	80.43
Final Molasses Purity	38.87	39.23
A Masecuite Purity	88.78	88.67
B Masecuite Purity	76.35	75.78
C Masecuite Purity	57.59	57.50
A Molasses Purity	76.06	75.18
B Molasses Purity	56.46	55.50
Magma Purity	76.18	77.88
Pounds of Sugar Made and Estimated	20,513,713.00	257,485,773.00
Pol of Sugar as Made and Estimated	98.96	99.22
Pol of Sugar as Produced	98.96	99.22
Gallons (US) of Final Molasses Made and Estimated	446,175.00	5,145,810.00
Brix of Final Molasses Made and Estimated	79.50	79.50
Tons of Filter Cake Produced	4,563.61	50,344.75
Pol % Filter Cake	3.93	3.76
Moisture % Sugar	0.23	0.19

EXAMPLE

RUN REPORT NO. 12

Report Date: 12/23/2017

Date Checked: 12/24/2017

Report Checked by H. S. Birkett  
12422 N. Oak Hills Parkway, Baton Rouge, Louisiana, 70810

Data Taken from Report used in Checking the Report

	RUN	TODATE
	---	-----
Beginning Date	12/17/2017	10/03/2017
Ending Date	12/23/2017	12/23/2017
Lost Time % Total Time	0.00	1.33
Tons Ground per Hour	585.57	569.18
Extraction, Absolute Juice % Cane	80.36	82.55
Dilution % Cane	9.44	15.01
Pol % Pol in Cane	95.07	96.41
Pol % Cane	12.41	13.69
Fiber % Cane	15.10	13.97
Bagasse % Fiber	51.06	50.38
Bagasse % Cane	29.57	27.73
Bagasse, Pol % Fiber	4.05	3.52
Tons Fiber Ground/Hour/Sq. Ft.	0.069	0.062
Absolute Juice Brix	16.46	17.99
Absolute Juice Pol	14.62	15.91
Absolute Juice Purity	88.79	88.43
Sugar: LBS 96 (M&E)	21,146,611.00	266,117,972.00
Sugar: Lbs 96 per Ton Cane	214.96	241.87
Yield, 96 Sugar % Cane	10.75	12.09
Gallons Molasses Made	422,654.00	4,916,287.00
Gallons Molasses in Process @ 79.5 Brix	-22,799.00	145,254.00
Gallons Molasses M&E @ 79.5 Brix	446,175.00	5,145,810.00
Gallons Molasses per Ton Cane @ 79.5 Brix	4.54	4.68
Pol Retention - %	87.46	87.93
Loss in Bagasse	0.612	0.491
Loss in Final Molasses	0.823	0.857
Loss in Mud	0.182	0.172
Loss Undetermined	0.475	0.565
Total Losses	2.092	2.085
Recovered in Sugar	10.318	11.610
Recovered in Com'l Molasses	0.000	0.000
Pol in Juice % Cane	11.798	13.203
Pol in Cane	12.410	13.695
Gas, MCF/Ton Cane	0.00	0.00
Boiling House Efficiency Number	91.85	92.56
Theoretical Recoverable Sugar	198.30	221.95
Liquidation Factor	108.40	108.98
Factory Number		



	RUN			TODATE		
-----						
JUICE ANALYSIS						
	Brix	Po1	Purity	Brix	Po1	Purity
	----	-----	-----	----	-----	-----
Crusher Juice	16.91	15.02	88.88	18.15	16.03	88.33
Mixed Juice	14.71	13.13	89.31	15.23	13.53	88.89
Normal Juice	16.40	14.64	89.31	17.60	15.64	88.89
Absolute Juice	16.45	14.61	88.79	17.99	15.92	88.49
Last Expressed Juice	4.35	3.47	79.87	2.83	2.23	78.95
Clarified Juice	14.50	12.97	89.49	15.55	13.83	88.97
Syrup Juice	64.76	56.57	87.36	63.59	55.61	87.46
Final Molasses	85.67	33.29	38.87	80.43	31.55	39.23

POL BALANCE						
	Tons	% Cane	% Extracted	Tons	% Cane	% Extracted
	-----	-----	-----	-----	-----	-----
Final Molasses	809.669	0.823	6.976	9,424.541	0.856	6.486
Filter Cake	179.349	0.182	1.545	1,892.962	0.172	1.302
Undetermined	466.747	0.474	4.021	6,244.564	0.567	4.297
Boiling House Losses	1,455.766	1.479	12.543	17,562.068	1.596	12.086
Bagasse	601.958	0.611	---	5,402.161	0.490	---
Total Losses	2,057.725	2.091	---	22,964.229	2.087	---
Recovered in Sugar	10,150.185	10.317	87.456	127,738.691	11.610	87.913
Po1 in Cane	12,207.910	12.409	---	150,702.921	13.697	---
Clarified Juice	11,426.602	11.615	98.454	143,407.798	13.034	98.697
Products	11,139.204	11.323	95.978	139,056.196	12.638	95.702
Mixed Juice	11,605.952	11.797	100.000	145,300.760	13.206	100.000
Overall Recovery	83.144			84.761		

SOLIDS BALANCE						
	Tons	% Cane	% Extracted	Tons	% Cane	% Extracted
	-----	-----	-----	-----	-----	-----
Final Molasses	2,083.019	2.117	16.029	24,023.812	2.183	14.696
Filter Cake	226.551	0.230	1.743	2,274.622	0.206	1.391
Undetermined	452.294	0.459	3.480	8,664.602	0.787	5.300
Boiling House Losses	2,761.865	2.807	21.253	34,963.037	3.177	21.389
Bagasse	753.672	0.766	---	6,842.509	0.621	---
Total Losses	3,515.538	3.573	---	41,805.546	3.799	---
Recovered in Sugar	10,233.265	10.402	78.746	128,498.275	11.679	78.610
Brix in Cane	13,748.804	13.975	---	170,303.821	15.478	---
Clarified Juice	12,768.580	12.979	98.256	161,186.690	14.650	98.608
Products	12,542.837	12.749	96.519	154,796.709	14.069	94.699
Mixed Juice	12,995.131	13.209	100.000	163,461.312	14.856	100.000

PURITIES (COMPARED TO MIXED JUICE)

	Sugar	Final Molasses	Filter Cake	All Products	Mixed Juice	Difference
Run	99.18	38.87	79.16	88.80	89.31	0.50
Todate	99.40	39.23	83.22	89.83	88.89	-0.94

PURITIES (COMPARED TO SYRUP)

	Sugar	Final Molasses	Sugar & Final Molasses	Syrup	Difference
Run	99.18	38.87	88.98	87.36	-1.62
Todate	99.40	39.23	89.93	87.46	-2.47

THEORETICAL YIELDS % POL IN MIXED JUICE

	SJM	Filter Loss	Theoretical Recovery	Reported Recovery	Difference
Run	92.87	1.54	91.32	87.45	3.87
Todate	92.28	1.30	90.98	87.91	3.06

RUN

TODATE

Brix Solids in Final Molasses % Solids in Mixed Juice

(S-J)/(S-M)	16.37	17.47
Filter Cake Solids	1.74	1.39
Theoretical	14.63	16.08
Reported	16.02	14.69
Difference	-1.39	1.39

Purity of Undetermined Loss

103.19      72.06

Massecuite Yields (Crystals % Massecuite Solids)

A Massecuite	53.13	54.35
B Massecuite	45.68	45.57
C Massecuite	30.62	30.06

Final Molasses Recycled in Magma % Final Molasses in C Massecuite

28.18      24.60

Lbs. 96 Sugar/Gross Ton Cane

214.95      241.87

Lbs. 96 Sugar/Net Ton Cane

214.95      241.87

% Par: Normal Juice Basis

98.63      104.12

Absolute Juice Basis

99.13      102.55

Absolute Juice Brix / Crusher Juice Brix

0.97      0.99

Filter Cake % Cane

4.63      4.57

EXAMPLE

RUN REPORT NO. 12

Report Date: 12/23/2017

Date Checked: 12/24/2017

Report Checked by H. S. Birkett  
12422 N. Oak Hills Parkway, Baton Rouge, Louisiana, 70810

CHECKING OF VARIATIONS BETWEEN REPORTED AND CALCULATED REPORT FIGURES

Item	RUN			TODATE		
	Reported	Calculated	% Error	Reported	Calculated	% Error
Lost Time % Total Time	0.000	0.000	0.00	1.330	1.326	-0.28
Grinding Rate, Tons Cane per Hour	585.570	585.574	0.00	569.180	569.182	0.00
Extraction, Absolute Juice % Cane	80.360	80.252	-0.13	82.550	82.563	0.01
Dilution % Cane	9.440	9.547	1.12	15.010	14.986	-0.15
Pol % Pol in Cane	95.070	95.069	-0.00	96.410	96.415	0.00
Pol % Cane	12.410	12.409	-0.00	13.690	13.697	0.05
Fiber % Cane	15.100	15.092	-0.04	13.970	13.980	0.07
Fiber % Bagasse	51.060	51.058	-0.00	50.380	50.398	0.03
Bagasse % Cane	29.570	29.560	-0.03	27.730	27.740	0.03
Pol % Fiber	4.050	4.054	0.10	3.520	3.512	-0.22
Absolute Juice Brix	16.460	16.459	-0.00	17.990	17.994	0.02
Absolute Juice Pol	14.620	14.615	-0.03	15.910	15.923	0.08
Absolute Juice Purity	88.790	88.792	0.00	88.430	88.490	0.06
Sugar: Lbs 96 M&E	21,146,611.000	21,146,219.150	-0.00	266,117,972.000	266,122,274.969	0.00
Sugar: Lbs 96 per Ton Cane	214.960	214.951	-0.00	241.870	241.876	0.00
Sugar: Yield, 96 % Cane	10.750	10.747	-0.02	12.090	12.093	0.03
Molasses: Gals M&E @ 79.5 Brix	446,175.000	446,138.331	-0.00	5,145,810.000	5,145,387.093	-0.00
Molasses: Gals @ 79.5 Brix/Ton Cane	4.540	4.535	-0.11	4.680	4.676	-0.07
Pol Retention	87.460	87.456	-0.00	87.930	87.913	-0.01
Loss in Bagasse	0.612	0.611	-0.01	0.491	0.490	-0.00
Loss in Final Molasses	0.823	0.823	0.00	0.857	0.856	-0.04
Loss in Filter Cake	0.182	0.182	0.16	0.172	0.172	0.02
Loss Undetermined	0.475	0.474	-0.11	0.565	0.567	0.45
Total Losses	2.092	2.091	-0.01	2.085	2.087	0.10
Recovered in Sugar	10.318	10.317	-0.00	11.610	11.610	0.00
Recovered in Com'l Molasses	0.000	0.000	0.00	0.000	0.000	0.00
Pol in Juice % Cane	11.798	11.797	-0.00	13.203	13.206	0.02
Pol in Cane (Total)	12.410	12.409	-0.00	13.695	13.697	0.01
Boiling House Efficiency	91.850	91.854	0.00	92.560	92.539	-0.02
Crop Days	7.000	7.000	0.00	82.000	81.625	-0.45
Liquidation Factor	108.400	108.397	-0.00	108.980	108.977	-0.00

Errors calculated as percentage difference from calculated.