



March 2009

QA Studio – Raw Program – Monitor and Reduce Loss

Important in a dairy processing plant is monitoring the incoming raw tankers for quality *and* checking the components and weights to make sure you are receiving what you are purchasing. QA Studio can help this monitoring process.

Weight of the Raw Milk Received: In QA Studio; the manifest weight (typically, a measurement taken by the driver at the dairy farm), can be entered in either the LBS field or the Gallons field. QA Studio will make the conversion to gallons from pounds or visa versa. The conversion factor is setup in the Raw Product Specs window for each product. In the Raw Defaults > Data Entry Defaults > Warning Level: an alert percentage can be setup. For example: setting up the warning level at .50% will set QA Studio to turn the calculated LBS Diff and % Diff the color red to alert the user, if either the % Diff comparison from the meter or the scale to the manifest weight is more than .50% or -.50%. Each facility can enter their alert percentage.

Wt (LBS):	65,000	Gals:	7,558.1
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The weight from the incoming raw milk tanker manifest can be entered into QA Studio.

Meter (LBS/Gal):	65,120.0	7,572.093	
	120 LBS	(0.18%)	
Plant Scale:	Full Wt. 85,300	Empty 20,000	Net Wt. 65,300
	300 LBS (0.46%)		

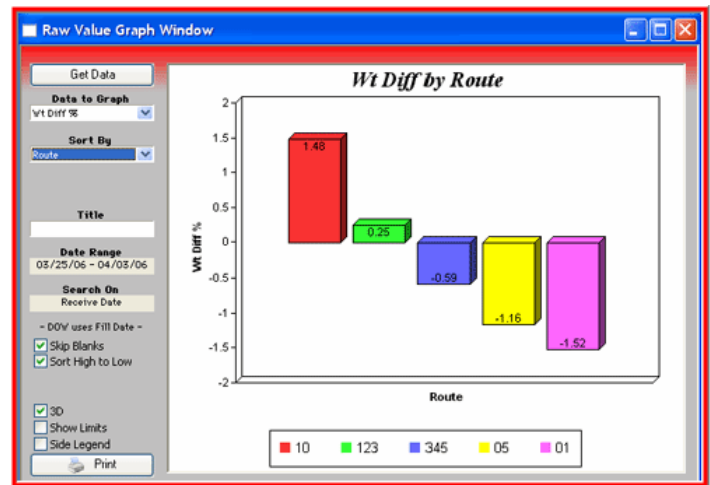
The meter gallons can be entered if the plant has a meter and a plant scale weight can be entered if the plant uses a scale. The full (gross) weight of the tanker and the empty (tare) weight can be entered and QA Studio will do the math and calculate the Net Wt. QA Studio will also determine the LBS diff and the % Diff from the manifest weight.

Meter (LBS/Gal):	39,900.0	4,639.500	
	-220 LBS	(-0.55%)	
Plant Scale:	Full Wt. 80,000	Empty 40,120	Net Wt. 39,880
	-240 LBS (-0.60%)		

Raw Defaults - Setup: In the Raw Program Menu > Reports Defaults > Choose the Official Weight for comparison. As below; choosing the Plant Scale; the graph will show the % Wgt Diff of the Manifest weight versus the Plant Scale. In this graph; for Route 10: the plant scale net weight was 1.48% higher than the manifest weight.

Official Wts	<input type="radio"/> Wt Tag LBS
	<input type="radio"/> Meter LBS
	<input checked="" type="radio"/> Plant Scale LBS

Raw Value Graph 2: The % weight difference from the tankers versus the weights obtained by either the meter or the scale can be graphed in QA Studio. The graph can be sorted any criteria. Selecting; route, hauler or driver (if documenting the driver) may be helpful. Note: the percentages determined on the graphs may be slightly different than the Weights Report. The graphs are determined by an average of the percentages. The Weights Reports are determined by the pounds difference divided by the total amount.





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Milk Plant		RAW PRODUCT					Receive Date		Page: 1	
Printed Tue, APR 7, 09 @ 13:08		Plant vs. Tag Report by Driver					Sat 03/25/06 00:00			
From List							thru			
							Mon 04/03/06 23:59			
PICKUP DATE	MANIFEST TAG #	DATE & TIME IN	SUPPLIER	HAULER	TRAILER	REC TANK	LBS PLANT	LBS WT TAG	LBS DIFF	% DIFF
Hauler: ABTRUCK										
Driver: TOMSMITH										
03/31	Tag 1:67567567	03/31 11:55 PM	MilkYWay	ABTRUCK	100	4	40,000	39,900	100	0.25%
04/03	Tag 1:4556546	04/03 5:00 PM	Co-OpA	ABTRUCK	200	2	45,000	44,900	100	0.22%
Comments: Load arrived 2 hours early.										
2 Records for Driver: TomSmith							85,000	84,800	200	0.24%
2 Records for Hauler: ABTRUCK							85,000	84,800	200	0.24%
Hauler: ACME										
Driver: JANEDOE										
03/28	Tag 1:765564	03/29 3:00 AM	Co-OpA	ACME	200	4	49,100	49,210	-110	-0.22%
03/29	Tag 1:765688	03/29 7:00 AM	MilkYWay	ACME	600	4	55,000	56,700	-1,700	-3.09%
03/28	Tag 1:87654	03/29 7:00 AM	Co-OpA	ACME	400	3	50,000	49,760	240	0.48%
03/30	Tag 1:876655	03/31 3:00 AM	ABC Farms	ACME	700	4	49,000	50,900	-1,900	-3.88%
4 Records for Driver: JaneDoe							263,100	266,570	-3,470	-1.66%
Driver: JOHNDOE										
03/24	Tag 1:46545756	03/25 3:43 AM	Co-OpA	ACME	100	2	56,200	56,000	200	0.36%
03/25	Tag 1:6655644	03/26 3:00 AM	ABC Farms	ACME	700	2	45,000	46,888	-1,888	-4.20%
03/26	Tag 1:9876655	03/27 3:00 AM	ABC Farms	ACME	200	2	45,700	45,670	30	0.07%
03/27	Tag 1:346436	03/27 7:00 AM	Co-OpA	ACME	200	4	43,900	44,000	-100	-0.23%
03/29	Tag 1:5475687	03/29 8:00 PM	ABC Farms	ACME	100	4	49,000	50,200	-1,200	-2.45%
03/31	Tag 1:6544444	03/31 9:00 AM	Co-OpA	ACME	200	4	49,000	49,870	-870	-1.76%
	Tag 1:6345757	03/31 9:00 AM	MilkYWay	ACME	200-R	2	49,900	50,000	-100	-0.20%
04/02	Tag 1:05566678	04/03 2:00 AM	ABC Farms	ACME	100	2	50,200	50,100	100	0.20%
8 Records for Driver: JohnDoe							388,900	392,728	-3,828	-0.97%
Driver: MARYG										
03/26	Tag 1:564577	03/26 9:00 AM	Co-OpA	ACME	400	3	44,500	44,500	0.00%	
03/28	Tag 1:786545	03/29 2:00 AM	ABC Farms	ACME	100	3	47,000	47,200	-200	-0.43%
04/03	Tag 1:8765544	04/03 8:00 AM	ABC Farms	ACME	86	2	49,000	49,100	-100	-0.20%
3 Records for Driver: MaryG							140,500	140,800	-300	-0.21%
Driver: MIKEDRIVER										
03/24	Tag 1:7676878	03/25 3:00 AM	ABC Farms	ACME	200	2	46,000	45,980	20	0.04%
03/28	Tag 1:87785	03/29 5:00 AM	ABC Farms	ACME	300	3	37,000	36,000	1,000	2.70%
03/31	Tag 1:7665545	03/31 5:00 AM	Co-OpA	ACME	300	4	50,000	49,800	200	0.40%
3 Records for Driver: MikeDriver							133,000	131,780	1,220	0.93%
18 Records for Hauler: ACME							865,500	871,878	-6,378	-0.73%
Report Totals							950,500	956,678	-6,178	-0.65%

Raw Weight Reports: Raw Program Menu > Raw Reports > Weight Comparison Reports. The Standard Report and the By Driver report will compare the manifest weight with the other weight that was set up as the "Official Weight".



These reports are extremely helpful and can be sorted from High to Low to find the routes or drivers with the largest loss first.



The other three reports: Weight Report, Weights by Route and Weights by Driver compares all three amounts, (the manifest weight, plant scale and plant meter).

Raw Dairy Report: The Butterfat and other components from the incoming raw milk supplier can be entered into QA Studio on the QA Data tab and can be compared with your in-house testing.

Their Results	
% BF:	3.65
% SNF:	8.66
% Pro:	3.26
% TS:	12.31
% Lactose:	5.00

Raw Program Menu > Raw Reports > Dairy Reports > %BF and %SNF by Route. Note: if checking one day of data may want to choose %BF and %SNF by Date. If checking several days of data may want to choose by Route.

Milk Plant		RAW PRODUCT					Receive Date		Page: 1								
Printed Tue, April 7, 2009 @ 13:58		BF / SNF Report by Route					Sat 03/25/06 00:00										
From List							thru										
							Mon 04/03/06 23:59										
Manifest Tag #	Date/Time	HAULER	SUPPLIER	TRAILER	REC TANK	SPC	COLI	Beta L	LPC	TEMP	% BF OURS	% BF THEIRS	% SNF OURS	% SNF THEIRS	DIFF	LBS	
Route 01																	
Product Raw																	
7676878	03/25 03:00	ACME	ABC Farms	200	2	10,000	50	NF	20	37.0	3.50	3.53	0.03	8.79	8.81	0.02	45,980
665644	03/26 03:00	ACME	ABC Farms	700	2	19,000	70	NF	60	36.2	3.45	3.49	0.04	8.80	8.82	0.02	45,688
9876655	03/27 03:00	ACME	ABC Farms	200	2	19,000	60	NF	40	35.0	3.44	3.48	0.04	8.77	8.80	0.03	45,670
786545	03/29 02:00	ACME	ABC Farms	100	3	7,000	170	NF	50	36.0	3.26	3.28	0.02	8.70	8.69	-0.01	47,200
5475687	03/29 20:00	ACME	ABC Farms	100	4	5,000	100	NF	20	40.0	3.46	3.48	0.02	8.66	8.71	0.05	50,200
876655	03/31 03:00	ACME	ABC Farms	700	4	<1000	<10	NF	30	36.9	3.47	3.49	0.02	8.60	8.62	0.02	50,900
05566678	04/03 02:00	ACME	ABC Farms	100	2	7,000	250	NF	60	38.0	3.44	3.46	0.02	8.65	8.77	0.12	50,100
7 records for Product: Raw							7/7	7/7	7/7	7/7	0%	100%	100%	100%	100%	336,938	
7/7 records (100%) pass tests on this report.																	
											Avg:	3.43	3.46	0.03	8.71	8.74	0.04
											Std Dev:	0.08	0.08	0.01	0.08	0.07	0.04
											%BF T Value = 0.70	%SNF T Value = 0.90					
7 records for Route: 01							7/7	7/7	7/7	7/7						0.12	336,938
7/7 records (100%) pass tests on this report.																	
Route 05																	
Product Raw																	
765888	03/29 07:00	ACME	MilkYWay	600	4	<1000	30	NF	20	38.0	3.48	3.90	0.42	8.63	8.55	-0.08	56,700
6345757	03/31 09:00	ACME	MilkYWay	200-R	2	1,000	30	NF	20	38.0	3.45	3.91	0.46	8.62	8.50	-0.12	50,000
8765544	04/03 08:00	ACME	ABC Farms	86	2	1,200	10	NF	20	35.0	3.50	3.92	0.42	8.60	8.50	-0.10	49,100
3 records for Product: Raw							3/3	3/3	3/3	3/3	0%	100%	100%	100%	100%	155,800	
3/3 records (100%) pass tests on this report.																	
											Avg:	3.48	3.91	0.43	8.62	8.52	-0.10
											Std Dev:	0.03	0.01	0.02	0.02	0.03	0.02
											%BF T Value = 23.55	%SNF T Value = 20.82					
3 records for Route: 05							3/3	3/3	3/3	3/3						-0.10	155,800
3/3 records (100%) pass tests on this report.																	
Route 10																	
Product Raw																	
8765	03/29 05:00	ACME	MilkYWay	300	3	<1000	<10	NF	20	37.0	3.21	3.20	-0.01	8.66	8.65	-0.01	36,000
8765757	03/31 23:55	ABTRUCK	MilkYWay	100	4	1,000	40	NF	20	38.5	3.22	3.23	0.01	8.65	8.66	0.01	39,900
2 records for Product: Raw							2/2	2/2	2/2	2/2	0%	100%	100%	100%	100%	75,900	
2/2 records (100%) pass tests on this report.																	
											Avg:	3.22	3.22	0.00	8.65	8.66	0.00
											Std Dev:	0.01	0.02	0.01	0.01	0.01	0.01
											%BF T Value = 0.00	%SNF T Value = 0					
T Scores over 1.96 represent a Statistically Significant difference between the two averages.																	
Report Generated from QA Studio																	

Benefit to QA Studio Users: Ability to easily monitor the components and weights of incoming tankers.