Yield Monitors

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Pictures of Unit:

Ron Hebert Farm:
Case IH Combine
Two yield monitors:
Wireless
Non-wireless







Truck Load Out Weight Results:

- Large variance
- Both monitors off in the same proportions
 Possible causes:

 Large change in
 - Large enange in cutting conditions
 Variety, mud, etc.
 Temperature on sensors



Percent Error:

Wireless Monitor:				
Truck Load (lbs.)	Monitor 1 Estimate:	lbs. error	Percent Error	Abs Percent error
52540	59301	6761	12.87	12.87
52550	66207	13657	25.99	25.99
52554	49168	-3386	-6.44	6.44
55240	47175	-8065	-14.60	14.60
55540	47442	-8098	-14.58	14.58
52380	63268	10888	20.79	20.79
58180	48353	-9827	-16.89	16.89
54200	54285	85	0.16	0.16
433184	435199	2015	0.47	14.04

Average Percent Error: 0.47% Variance: 16%

Typical Field Variances:



Newer Style:

- Go back to a weight plate design:
 - Something that doesn't care about mud, type of material, etc.
 - Load out weight of trucks becomes <u>even more</u> important during these times
- Ideas:
 - Torsion load cell weight plate
 - Full conveyor weight measurement





The End

