



Nebraska On-Farm Research Network

Year: 2002
Title: Accuracy of Combine Yield Monitor vs. Weigh Wagon vs. Scale
Crop: Soybeans
Study ID: 047053200202
County: Dodge County

Objective: Determine and document the accuracy of using a combine yield monitor vs. weigh wagon vs. certified scale in verifying crop yields.

Treatments: Determine yield and moisture with combine monitor vs. elevator scale weights and moistures with corn. Compare bushels determined by combine monitor vs. bushels delivered to elevator for soybeans.

Nebraska Soybean & Feed Grains Profitability Project



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.



Nebraska On-Farm Research Network

Soybeans from 500 acres

<u>Bushels</u>		<u>Error, %</u>	
<u>Monitor</u>	<u>Scale</u>	<u>Observed</u>	<u>Absolute</u>
4347	4285	1.4469	1.4469
4464	4519	- 1.2171	1.2171
5109	4947	3.2747	3.3747
3987	4157	- 4.0895	4.0895
8368	8280	1.0628	1.0628
3532	3562	- 0.8422	0.8422
<u>82</u>	<u>85</u>	<u>- 3.5294</u>	<u>3.5294</u>
Total 29,889	29,835	Ave. - 0.5563	2.2089

Summary: For total yields, yields with monitor were slightly higher from the yield monitor. The absolute error was 2.2%. The observed error was -0.6%.

Nebraska Soybean & Feed Grains Profitability Project



Extension is a Division of the Institute of Agriculture and Natural Resources at the University of Nebraska–Lincoln cooperating with the Counties and the United States Department of Agriculture.

University of Nebraska–Lincoln Extension educational programs abide with the nondiscrimination policies of the University of Nebraska–Lincoln and the United States Department of Agriculture.