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	RMSE/SD for the entire field				
Field ID	Standardization	Scaling	Normalization	Quartile scaling	First pass scaling
BR - forward	0.22	0.53	0.19	0.28	0.20
BR - backward	0.31	0.48	0.31	0.53	0.28
RA - forward	0.16	0.15	0.12	0.13	0.09
RA - backward	0.21	0.72	0.15	0.24	0.10
KR - forward	0.22	0.58	0.25	0.25	0.54
KR - backward	0.17	0.59	0.22	0.20	0.12
LU - forward	0.18	0.15	0.30	0.24	0.02
LU - backward	0.32	0.12	0.34	0.40	0.06
HU - forward	0.37	0.46	0.49	0.40	0.04
HU - backward	0.22	0.38	0.17	0.23	0.12
HE - forward	0.16	1.53	0.25	0.28	0.09
HE - backward	0.14	1.74	0.13	0.13	0.04
Average	0.22	0.62	0.24	0.28	0.14

## Summary

- Medium-size farm operators frequently resist adopting variable rate technology due to the cost of the equipment and the extra time required to learn the new technologies
- Many operators intuitively understand the need for differentiating their operations within a field in accordance with local needs
- Some operators have implemented what can be classified as VRT using manual control
- What can be called a "smart tractor" concept will enable farmers to implement their intuitive practices in a more replicable and ergonomic way
- A combination of real-time sensor-based and map-based operations will add versatility
- The concept is similar to the principles of auto-guidance and will remove the gap between the use of traditional machinery and farming machinery equipped with highend controllers and actuators

