



# Larry Robertson

## Fulvic 6000 - Dryland Grain Trial 1999

Larry Robertson of the University of Idaho tested the effects of Horizon Ag's Fulvic 6000 on dryland grain. Previous studies\* on dryland grain with fulvic foliar applications showed that fulvic acts as an anti-transpirant. This helps the grain conserve moisture and reduce plant stress during the critical stage of head formation and grain filling.

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Robertson's highly replicated trial showed that a single 2 quart per acre foliar application of Fulvic 6000 significantly increased overall grain yield.

The increase in yield apparently came from an increase in the average number of kernels per head. There was also an increase in the test weight of the bushels. The overall yield increase was 94 lbs. per acre for an overall yield increase of 10.4 % over the control.

\* Xudan, X. 1996. The effect of foliar application of fulvic acid on water use, nutrient uptake and wheat yield. *Aust. J. Agric. Res.* 37:343-350

# University of Idaho-Larry Robertson

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Variety	Yield bu/A	Test Wt. lb/bu.	Height in.	Heads per meter	Avg. Kernals per head
Whitebird 2qt boot	<u>18.2</u>	<u>54.7</u>	21	42	<u>34</u>
Whitebird 2qt tiller+ boot	17.4	54.3	22	42	<u>35</u>
Whitebird control	17.0	53.0	20	41	31
Average	17.5	54.0	21	41	33
LSD.10	1.2	--	1	NS	4
CV%	8.8	--	5.1	13.4	15.4

- Overall yield increase - 94 lbs. per acre
- Translates to 10.4 % over the control.

# **Fulvic-6000 as an Anti-transpirant**

## **Drought Stress Study Results**

**Control - 30% yield decrease compared to non-stressed plants.**

**Fulvic-6000 at 2 qts - 3% yield decrease compared to non-stressed plants.**

***Fulvic-6000 reduced stomate openings***

# Stomatal Conductance of Wheat Plants

