Summary of Results of 2012 Field Trials

Comparison of Results from the Two Different Field Trials

The following table summarizes the data from Field Trial 1 (in furrow treatment with 3 ounces BioWash 100) and Field Trial 2 data (in furrow treatment 3 ounces versus 5 ounces of BioWash and in furrow treatments plus foliar application a V2 growth stage).

Field	Treatment	Yield (bushels/acre)
1	No BioWash 100 in furrow	170.03
1	3 oz. BioWash 100 in furrow	178.60
2	3 oz. BioWash 100 in furrow	177.59
2	5 oz. BioWash 100 in furrow	185.90
2	3 oz. BioWash 100 in furrow + 5 oz. BioWash 100 foliar @ V2	185.75
2	5 oz. BioWash 100 in furrow + 5 oz. BioWash 100 foliar @ V2	189.27

Interpretation of Results

In Furrow Trials Results

The data from the 2 trials confirms the yield benefit of in furrow application of BioWash 100. Field Trial 2 in furrow data confirms that in furrow application of BioWash 100 does have a significant increase in yields. (view actual numbers in Field Trial 2 and Field 1 Trial results) The data shows a 3 ounce in furrow application of BioWash 100 in both field trials results is nearly the same yield benefit (approximately 8.0 bushels/acre) when compared to no BioWash in the furrow. There is also an additional yield benefit of 8.31 bushels/acre with 5 ounces in the furrow vs. 3 ounces in the furrow. (185.90 vs. 177.59)

In Furrow plus V2 Foliar Application Results

The data shows that the 5 ounce in furrow BioWash 100 had nearly the same yield as 3 ounces in furrow + 5 ounces foliar at V2. (185.90 vs. 185.75) Both application strategies would have a yield benefit of 8.24 bushels yield when compared with 3 ounce in furrow only. (185.83 vs. 177.59) ounces per acre was an additional benefit. A 5 ounce in furrow application plus 5 ounces foliar application at V2 resulted in a 3.53 bushel benefit when compared to 3 ounce in furrow plus 5 ounce foliar at V2. (189.27 vs. 185.75)

Economic Benefit

The following table summarizes the costs versus benefit in dollar returned. One can substitute the selling price for the corn as that is highly variable and volatile. For purposes of this summary a $6.00 selling price is assumed. The cost of the BioWash 100 is $1.00/ounce.

Table 1: Return on Investment Compared to Using No Treatment as the Baseline

Treatment	Cost/acre[1]	Yield	Gross $/acre	Gross Return on Investment	Net Return on Investment
No treatment	0.00	170.03	1020.18	Baseline	Baseline
3 oz. BioWash in furrow only	$3.00	178.10[2]	1068.60	48.42	45.42
5 oz. BioWash in furrow only	$5.00	185.90	1115.40	95.22	90.22
3 oz. BioWash in furrow + 5 oz. foliar @ V2	$8.00	185.75	1114.50	94.32	86.32
5 oz. BioWash in furrow + 5 oz. foliar @ V2	$10.00	189.27	1135.62	115.44	105.44

[1] Reflects only cost of BioWash 100 no equipment charge
[2] Average of Field 1 and Field 2 - 3 oz. in furrow application

Table 2: Return on Investment Compared to 3 ounce Treatment in Furrow as the Baseline

Treatment	**Cost/acre**	Yield	**Gross $/acre**	**Gross Return on Investment**	**Net Return on Investment**
3 oz. BioWash in furrow only	3.00	178.10	1068.60	Baseline	Baseline
5 oz. BioWash in furrow only	5.00	185.90	1115.40	46.80	43.80
3 oz. BioWash in furrow + 5 oz. foliar @ V2[1]	8.00	185.75	1114.50	45.90	37.90
5 oz. BioWash in furrow + 5 oz. foliar @ V2	10.00	189.27	1135.62	67.02	57.02

[1]A producer would have to evaluate the cost of the extra both in machinery cost and timeliness. The economic advantage is there, but timeliness of the application must be considered as the window of opportunity is narrow.