



Three Year Seed Treatment Trial Summary

The following data is summarized from all reps, all locations, over 3 crop years.

Dignity Barley at all sites[‡], across all foliar treatments	2011	2012	2013	3 yr Avg
Rancona Apex vs NoSeedTreat (NST)	7%	5%	1%	4%
Raxil MD vs NST	3%	3%	9%	5%
Vibrance [*] +Cruiser+ProSeed vs. NST	3%	5%	-	
Rancona Apex+Stress Shield vs. NST	-	3%	-	
Raxil MD ^{**} +Stress Shield vs NST	7%	5%	7%	6%
Rancona Apex+C7 Biological vs NST	-	4%	-	
C7 Biological vs NST	3%	-	-	
EverGol Energy vs NST	-	-	7%	

[‡]Sites: 2011: Winterbourne & Conn Ontario 2012: Winterbourne, Conn & Macton Ontario 2013: Winterbourne & Conn Ontario

Vibrance^{*} +Cruiser+ProSeed not included in 2013 due to its limited control of true loose smut in barley

AC[®] Bradley Oat at all sites[‡], across all foliar treatments	2011	2012	2013	3yr Avg
Rancona Apex vs NoSeedTreat (NST)	4%	3%	7%	5%
Raxil MD vs NST	6%	3%	3%	4%
Vibrance [*] +Cruiser+ProSeed vs NST	2%	2%	17%	7%
Rancona Apex+Stress Shield vs NST	-	4%	-	
Raxil MD ^{**} +Stress Shield vs NST	6%	4%	7%	6%
Rancona Apex+C7 Biological vs NST	-	4%	-	
EverGol Energy vs NST	-	-	6%	

[‡]Sites: 2011: Winterbourne, Conn & Newcastle Ontario 2012: Winterbourne & Macton Ontario 2013: Winterbourne & Conn Ontario

* Sedaxane became known as Vibrance in yr 2

** Prothioconazole added to Raxil MD in yrs 2&3

Summary comment: Over the past 3 years we have seen a consistent yield response of approximately 5% to the use of any fungicide seed treatment on oats and barley harvested as grain. This differs from our 2013 work that suggests there is not a yield response to seed treatments when cereal mixes are harvested as a forage. In addition, over 3 years we have not seen a consistent yield response for oats or barley with the use of insecticide seed treatments such as Cruiser or Stress Shield, in addition to a fungicide seed treatment.

True Loose Smut disease in Barley - Number of Infected heads/plot	2011	2012	2013	3 yr Avg
No Seed Treatment	93	23	10	44.2
Vibrance [*] +Cruiser+ProSeed	37	9	2 yr Avg = 23	
Raxil MD	10	4	2	5.8
Raxil MD ^{**} + Stress Shield	6	4	4	4.7
Rancona Apex	1	1	4	1.4

SMUT COUNT is average of multiple counts taken at Winterbourne, Conn & Macton ON over 3 years

* Sedaxane became known as Vibrance in yr 2

** Prothioconazole added to Raxil MD in yrs 2&3

Summary comment: Fungicide seed treatments are a must on barley for the control of True Loose Smut. Vibrance is not an effective control.

Cribit Seeds acknowledges the support of the following organizations over the three years of our management trials: Agriculture Adaptation Council, Bayer CropScience, BASF, Growing Forward, SeCan and Syngenta.