

2009 CMDC

Mark Bernards

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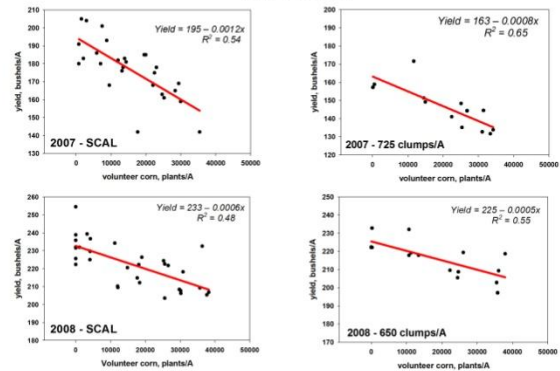
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Volunteer Glyphosate-resistant Corn in Corn



2009CMDC-Bernards001

Volunteer Corn and Insect Resistance Management

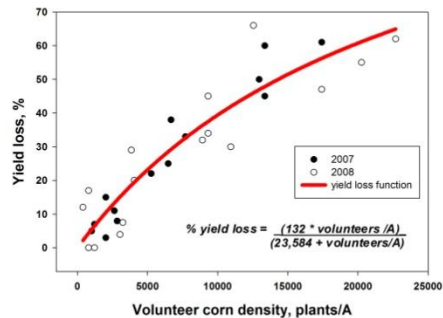
Mean percentage of Bt Cry3Bb1 (Western corn rootworm) positive (n = 470) and negative (n = 263) volunteer corn plants collected from eight soybean fields in northern Indiana. Damage was measured using the Oleson root rating system.

Root damage category	% Bt positive ± SE n	% Bt negative ± SE n	P value
No damage	39 ± 8 n = 172	34 ± 7 n = 84	0.45
Mild (≤0.5)	35 ± 4 n = 167	25 ± 6 n = 87	0.31
Significant (>0.5)	26 ± 10 n = 131	41 ± 9 n = 192	0.38

Krupke et al. 2009. Agronomy J. 101:797-799

2009CMDC-Bernards002

Effect of Volunteer Corn on Soybean Yield



Alms, Moechnig, Deneke and Vos, 2008
South Dakota State University

2009CMDC-Bernards003

Weeds with resistance to multiple herbicide modes of action



Waterhemp
 •ALS (NE)
 •PSII (NE)
 •PPO
 •Glyphosate



Waterhemp
 •ALS
 •PSII
 •Paraquat
 •Glyphosate (NE)



Kochia
 •ALS (NE)
 •PSII (NE)
 •Dicamba
 •Glyphosate??



Lambsquarters
 •ALS
 •PSII
 •Glyphosate????

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