



General Information for 1999 corn rootworm insecticide test.  
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Pest: Western Corn Rootworm, *Diabrotica vergifera vergifera*

Crop: Corn

Location: Manhattan, KS. Site 2

Planting Date: April 21

Herbicide: 4/21 Broadstrike 55 + Dual @ pt 2/acre + Atrex 90 @ 1 lb/acre.  
5/13 - 2-4 - Do 2 pt/acre

Plot size: 1 row 30 ft. long, 4 replications, 30 inch row spacing

Experimental Design: Randomized Complete Block, 8 Treatments

Planting Information: Planted corn 1 2 inches in depth.

Field History: Corn 1997

Fertilization: 2/18-28-0-0 at 30 gals/acre

Application Information: Insecticides applied with v-belt seeder in T Band.

Evaluation: Corn rootworm larvae damage rating on 4 plants per plot on July 6, 1999.  
Scale 1-6: 1=no damage; 6=severe damage.

Phytotoxicity: none noted

Rainfall and Temperature: enclosed

Soil: pH 5.2, OM 3.9%, sand 18%, silt 56%, clay 26%, CEC 27.1

Evaluation: Good rootworm pressure was present as noted by root ratings in the untreated plots. Some treatments were more effective than others.

Yield: Machine harvested on October 1. Yield expressed as bu/acre at 12.5% moisture.

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<u>TRT</u>	<u>FORM</u>	<u>RATE</u> <sup>1</sup>	<u>PLACE</u> <sup>2</sup>	<u>TIME</u> <sup>3</sup>	<u>ROOT</u>
1. Regent	4 SC	0.24 fl. oz	IF	P	1.38 a
2. Aztec	2.1 G	6.7 oz	TB	P	1.56 abc
3. Aztec	2.1 G	6.7 oz	IF	P	1.44 ab
4. Aztec	2.1 B	6.7 oz	TB	P	1.56 abc
5. Aztec	2.1 B	6.7 oz	IF	P	1.81 abcd
6. Counter	20 CR	6 oz	TB	P	2.81 ghij
7. Capture	1.1 G	5.3 oz	TB	P	3.31 jkl
8. Capture	1.1 G	6.4 oz	TB	P	3.00 hijk
9. Capture	1.1 G	8 oz	TB	P	3.13 ijk
10. Capture	2 E	0.05 a.i.	TB	P	2.50 defghij
11. Capture	2 E	0.06 a.i.	TB	P	2.25 bcdefgh
12. Capture	2 E	0.075 a.i.	TB	P	2.31 cdefghi
13. Force	3 G	4 oz	IF	P	2.81 ghij
16. Lorsban	75 WG	1.3 a.i.	TB	P	1.88 abcef
17. Lorsban	75 WG	1.3 a.i.	IF	P	1.69 abcd
18. Lorsban	15 G	8 oz	TB	P	2.69 efghij
19. Lorsban	15 G	8 oz	IF	P	3.13 ijk
20. Lorsban	4 E	1.3 a.i.	TB	P	2.44 defghi
21. Thimet	20 G	6 oz	TB	P	2.75 fghij
22. Fortress	5 G	3 oz	TB	P	2.13 abcdefg
23. Force	3 G	4 oz	TB	P	1.38 a
24. Force	WF 2.5	0.24 fl. oz	B	P	2.00 abcdefg
25. Force	WF 2.5	0.36 fl. oz	B	P	2.69 efghij
26. Force	WF 2.5	0.48 fl. oz	B	P	1.38 a
27. Force	WF 2.5	0.24 fl. oz	IF	P	1.94 abcdef
28. Force	WF 2.5	0.36 fl. oz	IF	P	2.13 abcdefg
29. Force	WF 2.5	0.48 fl. oz	IF	P	1.69 abcd
30. Lorsban	4 E	1.3 a.i.	IF	P	2.44 defghi
31. Furadan	4 E	1.0	B	P	4.00 lmn
32. Furadan	4 E	1.0	IF	P	3.75 klm
33. Untreated	----	----	----	----	4.82 n
34. Furadan	4 F	1.0	BR	C	2.13 abcdefg
36. Untreated	----	----	----	----	4.25 mn

<sup>1</sup> Oz. per 1000 row ft or lb. a.i./acre

<sup>2</sup> IF - infurrow, TB-T-Band, BR-Broadcast

<sup>3</sup> P = Planting, C = Cultivation

Reference to specific products is provided solely for informational purposes. Experiments with pesticides on non-labeled crops or pests is part of the insecticide registration process, it does not imply endorsement or recommendation of non-labeled uses of pesticides by Kansas State University. All pesticide use must be consistent with current labels.

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