

Corn Rootworm (CRW) Beetle Monitoring Project



Direct Sales Representatives (DSRs) in Iowa and designated regions of Minnesota selected two or more corn field locations, each, to monitor local CRW beetle activity for about six weeks in July and August of 2018. Every field had four sticky traps that were counted weekly for CRW beetles and then replaced with fresh traps.



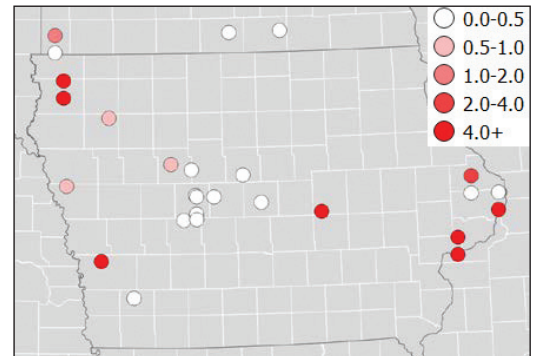
Color and size variation of northern corn rootworm.



Color and size variation of western corn rootworm.

Photos by Adam Varenhorst, Iowa State University

Maximum Number of CRW Beetles/Trap/Day Observed



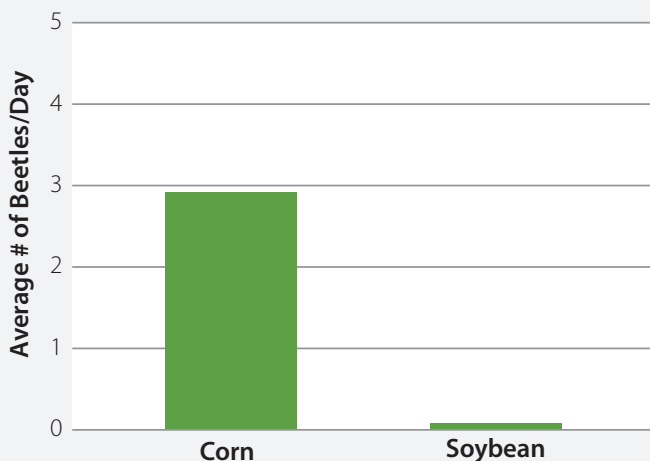
More than 600 Traps across Iowa and Minnesota!

RESULTS

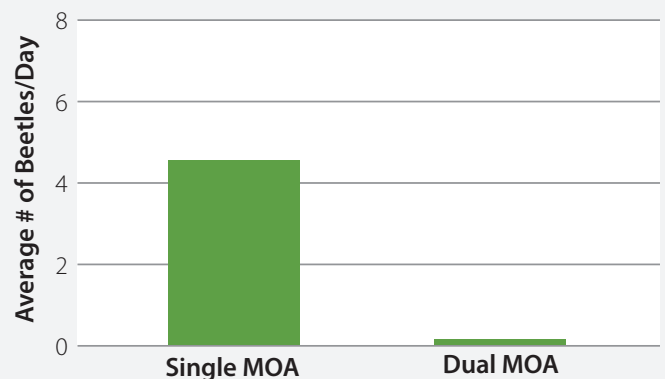
Beetle counts were very strongly associated with previous crop. Corn following corn typically had 10-20 times more CRW beetles than corn following soybeans.

Iowa State University (ISU) has reported western CRW resistance to all BT CRW traits in Iowa; however, pyramiding multiple CRW traits has proven to provide excellent protection!

CRW Beetle Count/Day by Previous Crop

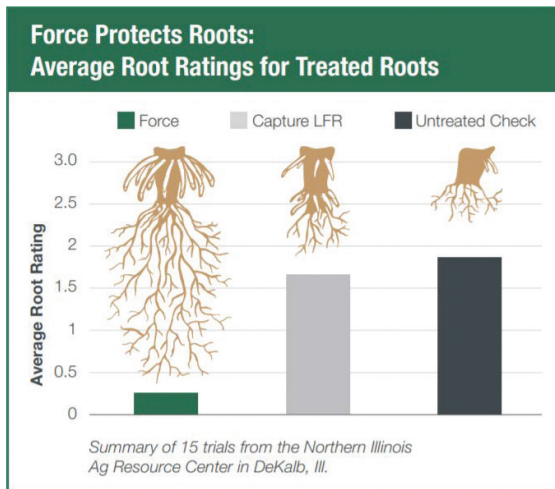


CRW Beetle Count/Day Observed in Continuous Corn by CRW Trait Mode of Action (MOA)

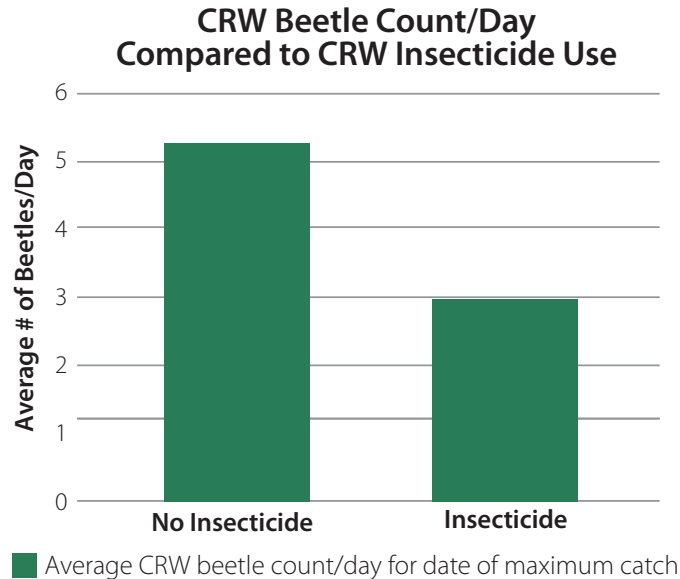


■ Average CRW beetle count/day across entire sampling period

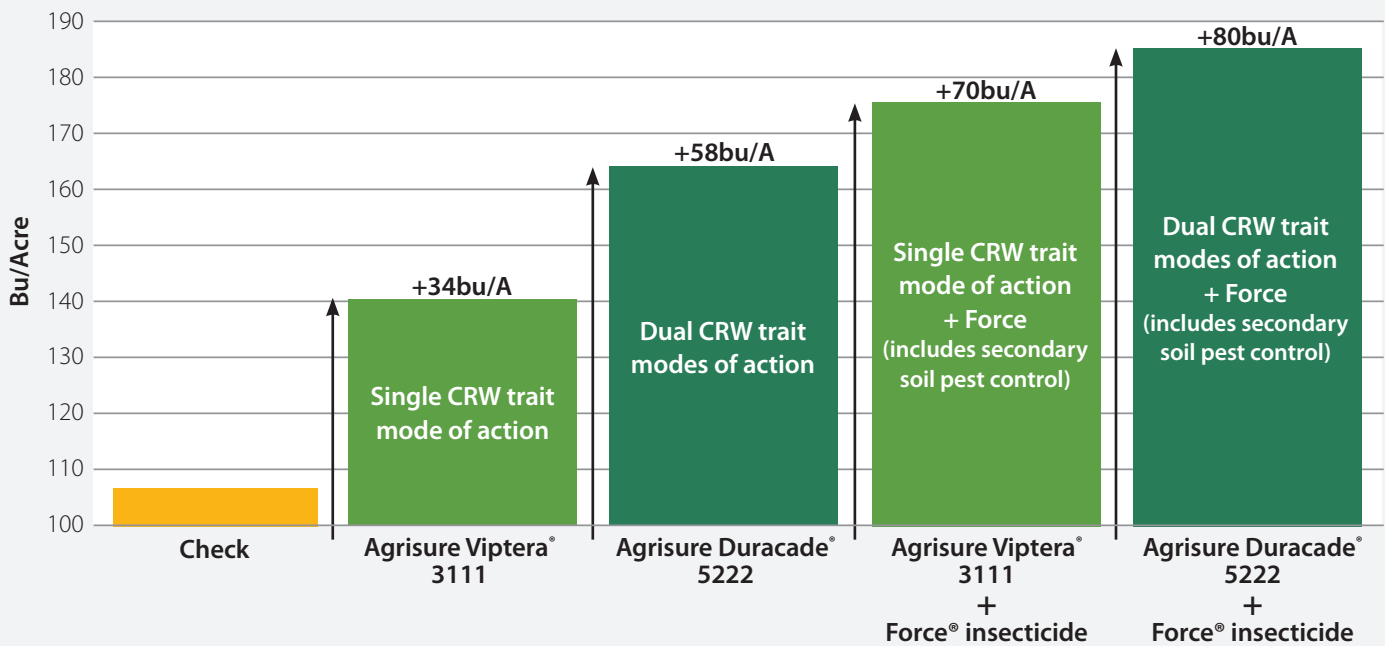
Soil-applied insecticides are another CRW control option that pairs well with the use of CRW traits. Soil-applied insecticides don't require an additional trip across the field after planting and also offers great control against seed and seedling attacking insects!



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Yield of CRW Treated Hybrid Vs. Isoline Check Hybrid High Corn Rootworm Pressure*



*Data based on 2013 Syngenta field trials. Six trials with untreated check root injury rating of 1.9, ISU 0-3 scale.



Important: Always read and follow label instructions. Some crop protection products may not be registered for sale or use in all states or counties. Check with your local extension service to ensure registration status. Force 3G and Force CS are Restricted Use Pesticides. Do not spray E-Z Refuge products with glufosinate ammonium based herbicides, including Ignite® and Liberty® herbicides. Agrisure®, Agrisure Duracade®, Agrisure Viptera®, and E-Z Refuge® are trademarks of a Syngenta Group Company. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of Bayer. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. HERCULEX Insect Protection technology by Dow AgroSciences.

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