

Acuron®
3 qt/A PRE

TriVolt™
20 fl oz/A* PRE

▶ Acuron corn herbicide outperforms TriVolt against tough weeds



syngenta®

Photos taken 114 days after treatment (DAT). 2020 Syngenta trial: Lamartine, WI.
*A tank mix of Corvus + flufenacet was applied at the same product ratios in TriVolt.

®

As weeds become increasingly difficult to manage, farmers need a corn herbicide that delivers a higher level of control and consistency while also offering multiple effective overlapping sites of action (SOAs) for sound resistance management.

Acuron® corn herbicide:

Contains four active ingredients (AIs), including the unique AI bicyclopyrone (BIR), and three effective sites of action

- ▶ Bicyclopyrone and the other three complementary AIs deliver more consistent and longer-lasting residual control against tough weeds in a proven, high-quality formulation

TriVolt™ corn herbicide:

Contains three active ingredients: flufenacet, thien carbazon-methyl and isoxaflutole

- ▶ Flufenacet, the active ingredient in Define® brand herbicide, has limited activity on key weeds such as waterhemp and Palmer amaranth
- ▶ Thien carbazon-methyl and isoxaflutole are both contained in Corvus® corn herbicide; thien carbazon-methyl has limited activity on waterhemp and Palmer amaranth due to widespread ALS resistance

▶ Acuron outperforms other products like TriVolt because it offers:



Greater consistency against more weeds

With four active ingredients and three effective sites of action, Acuron provides more reliable control against a wide spectrum of weeds.



Longer residual control

Acuron controls more weeds later in the season, protecting corn and helping it achieve maximum yield potential.



Proven crop safety

The Acuron formulation was specifically designed for better crop tolerance in post-emergence applications.



A wider application window

Acuron offers flexibility, allowing application from 28 days preplant up to 12" corn.



Acuron 3 qt/A PRE



TriVolt 20 fl oz/A* PRE

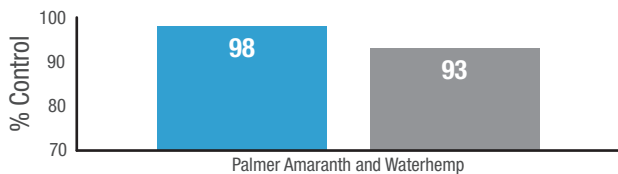
2020 Syngenta trial: Lamartine, WI.
*A tank mix of Corvus + flufenacet was applied at the same product ratios in TriVolt.

114 Days After Treatment (DAT)

Greater consistency of control

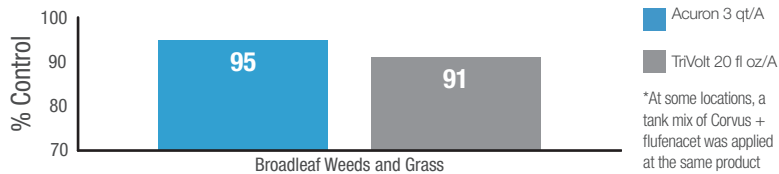
Acuron has three effective sites of action (SOA groups 5, 15 & 27). TriVolt also contains three sites of action, however, the thincarbazone-methyl in TriVolt is an ALS inhibitor and has limited effectiveness on amaranthus species due to widespread ALS resistance.

Acuron compared to TriVolt in 16 bare-ground trials 42 DAT*



Data Source: 2022 CPFD; HBI008A4-2022US; – (N=17) IN-1, IL-c, GA, KS, NC, TN, TX, MI, IA, OK, IN-1, IL-s, NY, CO, MD, IN-2.

Acuron compared to TriVolt in 11 bare-ground trials 42 DAT*



Data Source: 2022 CPFD; HBI008A4-2022US; – (N=10) GA, KS, NC, TN, MI, IA, OK, IN-1, IL-c, IL-s.

*At some locations, a tank mix of Corvus + flufenacet was applied at the same product ratios in TriVolt.

The power of bicyclopyrone

Bicyclopyrone was developed to complement mesotrione (the active ingredient in Callisto® herbicide). When combined with atrazine and S-metolachlor (the active ingredient in Dual II Magnum® herbicide) in Acuron, bicyclopyrone and mesotrione deliver broader-spectrum and more consistent control of tough weeds in corn.

Below is a comparison of the components of Acuron and Corvus, as well as a comparison of S-metolachlor and flufenacet (the active ingredient found in Define brand herbicide). Flufenacet combined with Corvus creates TriVolt.

Effective sites of action and residual control of ALS-resistant Palmer amaranth 23 DAT

Components of Acuron provide greater control of amaranthus species 23 DAT than components of TriVolt.

Acuron: active ingredient components



Treatment	Amount
Untreated check	
Acuron®	3 qt/A
BIR 17 g ai/A + mesotrione (Callisto®)	5.8 fl oz/A
S-metolachlor (Dual II Magnum®)	1.7 pt/A
Atrazine (Aatrex® 4L)	0.75 qt/A

2016 Syngenta trial: Slater, IA.

Corvus: active ingredient components



Treatment	Amount
Untreated check	
Corvus®	5.6 fl oz/A
Balance® Flexx 5.25 fl oz/A	
Thincarbazone-methyl	0.5 fl oz ai/A

2016 Syngenta trial: Slater, IA.

Comparison of the group 15 herbicides (Als) in Acuron vs. TriVolt

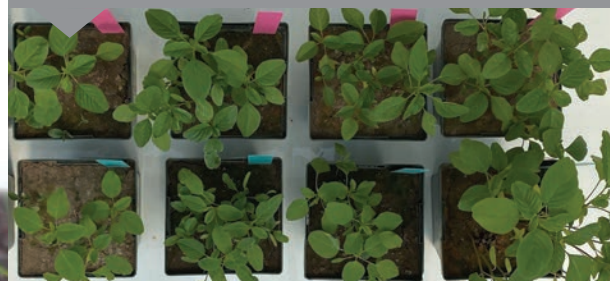
S-metolachlor (active ingredient in Acuron)



2 Weeks 4 Weeks 6 Weeks Check
S-metolachlor (Dual II Magnum) 1.1 pt/A

Amanda Foderaro, Greensboro, NC; 2-6 weeks after treatment. Trial ID: Amanda Foderaro N.C. State University Master's Thesis Circa 2022.

Flufenacet (active ingredient in TriVolt)



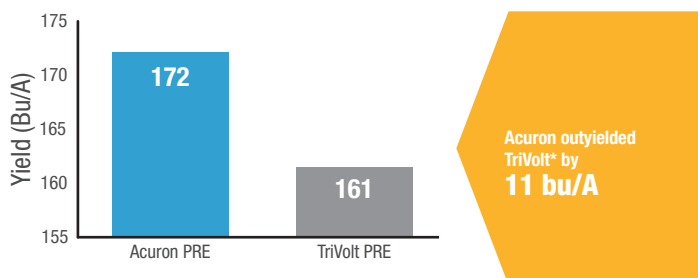
2 Weeks 4 Weeks 6 Weeks Check
Flufenacet 0.62 lb ai/A*
*TriVolt at 20 fl oz/A contains 0.45 lb ai/A of flufenacet

Longer residual control

Compared to TriVolt, Acuron provides broader-spectrum residual control of more weed species later in the season – for cleaner fields with higher yield potential.

- ▶ Higher dose rates and more effective sites of action in Acuron provide better resistance management compared to TriVolt
- ▶ Bicyclopyrone in Acuron helps deliver burndown and long-lasting residual control of broadleaf weeds and grass

Long-lasting residual weed control translates to higher yield potential



Data Source: 2022 CPFD; HB1004A&B-2022US; – (N=14) AR (2), CO (1), DE (1), IA (1), IL (2), IN (1), KS (1), KY (1), LA (1), NE (1), OH (1), TN (1)

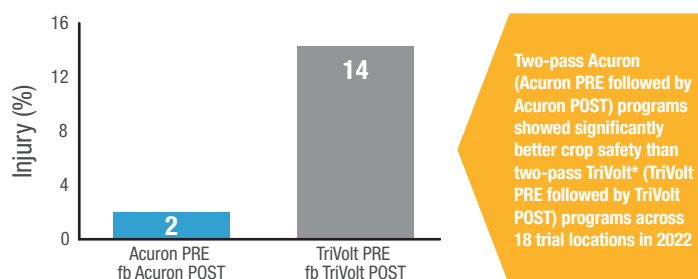
Application: Acuron applied in one pass preemergence at 2.4-3 qts/A; TriVolt applied in one pass preemergence at 17.5-20 fl oz/A with AAtrex 4L at 1.25-1.5 pts/A

*At some locations, a tank mix of Corvus + flufenacet was applied at the same product ratios in TriVolt.

Proven crop safety and application flexibility

- ▶ Acuron is backed by 15+ years of Syngenta formulation expertise and has a proven crop safety record when used according to the label
- ▶ Acuron has better application flexibility – from 28 days preplant up to 12" corn – allowing farmers to better manage challenging weather and planting conditions
 - ▶ TriVolt is only labeled for applications up to V2 corn, significantly narrowing the post-emergence application window

Acuron has better post-emergence crop safety compared to TriVolt



Data Source: HB1004A&B-2022US; – (N=18) AR(2), IL(2), KS (1), KY (1), LA (1), MO (1), MS(1), NE(1), OK(1), TN(1), TX(2), IA(1), IL(1), IN(1), OH(1)

Application: Acuron applied at 1.25-1.5 qts/A followed by (fb) Acuron at 1.25-1.5 qts/A + glyphosate at 25-26 fl oz/A; TriVolt applied at 8.75-10 fl oz/A fb TriVolt at 8.75-10 fl oz/A + AAtrex 4L at 0.6-0.75 pts/A + glyphosate at 25-26 fl oz/A. POST treatments sprayed at ~V2 with liquid AMS at 2.5%w/v.

fb = followed by

*At some locations, a tank mix of Corvus + flufenacet was applied at the same product ratios in TriVolt.



DISCOVER 5-15 MORE BUSHELS AN ACRE

When applied preemergence and at full label rates, **Acuron lets you discover 5-15¹ more bushels an acre than with any other corn herbicide** because of its unique combination of powerful weed control, long-lasting residual and proven crop safety. Less weed competition translates into more nutrients, sunlight and water available for the growing corn crop, which leads to more bushels and extra revenue potential.



BETTER YIELD IS THE BETTER DEAL

Valuing bushels and ROI potential over bundles and “deals” doesn’t limit your crop protection options, allowing you to choose products like Acuron that are the right fit for your fields’ needs. By using Acuron this season, you will see first-hand how choosing a corn herbicide that meets your agronomic needs vs. a season-long “deal” will help result in higher yield and profit potential at harvest. We expect once you do the math, you’ll find Better Yield is the Better Deal™.

To start finding more bushels, ask your local Syngenta retailer for Acuron, or visit **Acuron-Herbicide.com**. Connect with us at **social.SyngentaUS.com** and join the conversation using **#FindMoreBushels**.

    @SyngentaUS



¹Acuron yield advantage range based on 2016 Syngenta and University trials comparing Acuron to Corvus®, Resicore®, SureStart® II and Verdict® applied preemergence and at full label rates. For more information on Acuron versus an individual product, ask your Syngenta representative.

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