

Can “planting green” suppress troublesome glyphosate resistant weeds in no-till soybean?

NCR SARE Partnership Program Project ONC21-094

2021 Summary

Objective: Compare planting green and late termination of cereal rye to current UW-Extension recommendations and burndown termination for weed suppression

Locations: Palmyra North (2), Palmyra Southwest, East Troy
One Palmyra site abandoned due to freeze damage

Target species: Marestalk, giant ragweed, waterhemp

Treatments:

Control-No rye, Burndown (glyphosate + LV4) with residual herbicide (sulfentrazone + cloransulam).

Rye PRE termination- 40 and 80 lb/a (pls), identical herbicide.

POST termination- 40 and 80 lb/a (pls), LV4 burndown, same residual, rye terminated (at anthesis) with glyphosate.

Follow-up treatment with 2,4-D choline + glyphosate if warranted.

Experimental Design:

Randomized Complete Block, 4 reps, 30 x 175', plot combine harvest, 2 center rows.

2021 Summary:

2021 growing season conditions warmer and drier than normal, GDD 119% of mean (NWS Sullivan).

Seeding rate impacted aboveground biomass (AGB) production and canopy but not other responses.

Delayed termination increased rye biomass 13x.

Marestalk population reduction 45 DAP (days after planting) relative to control:
PRE termination, 64%; POST termination, 98%

Giant ragweed suppression similar at East Troy site.

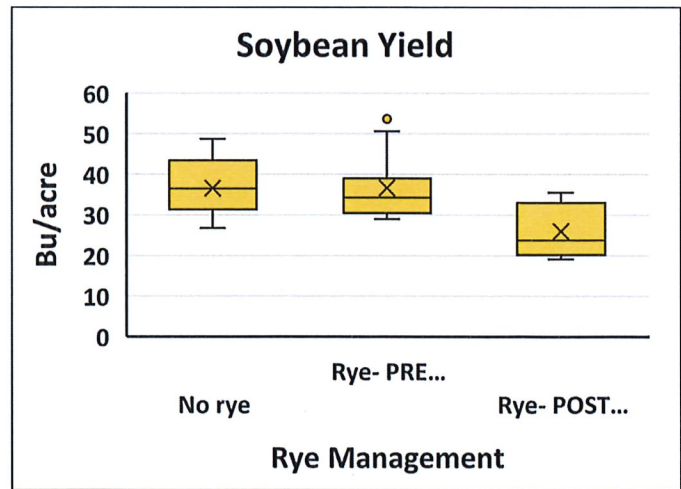
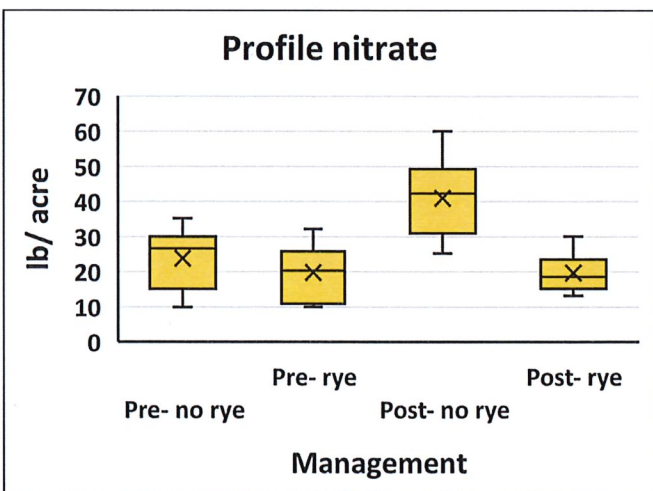
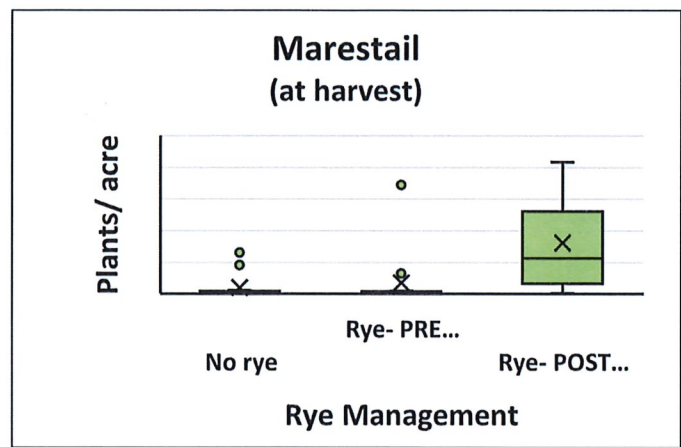
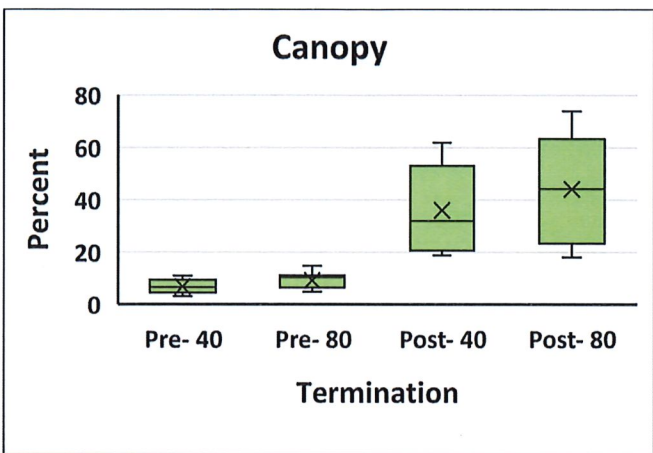
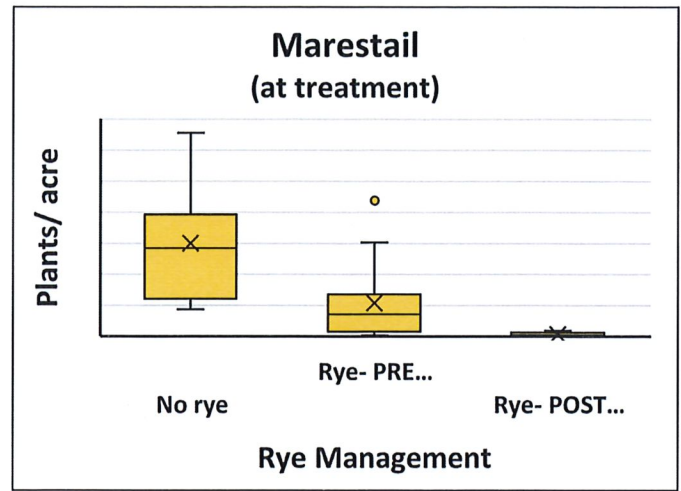
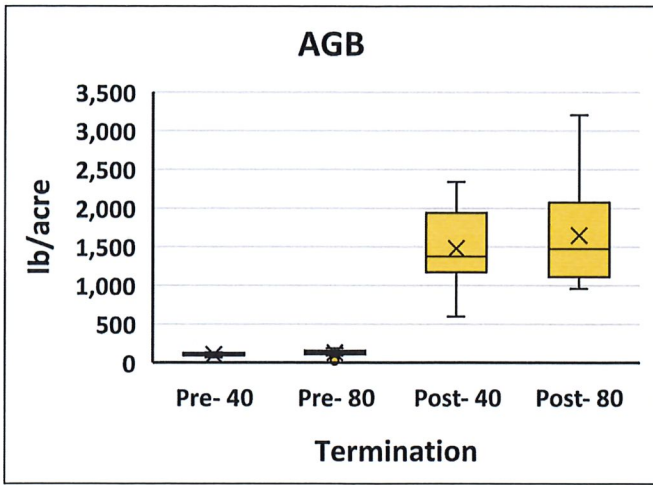
Late termination suppressed mares tail apparently delayed weed emergence.

- If this observation holds true in years with normal rainfall, one POST application may provide season long control along with lower potential for resistance development.

Soybean yield relative to control:


PRE termination, 100%; POST termination, 71%

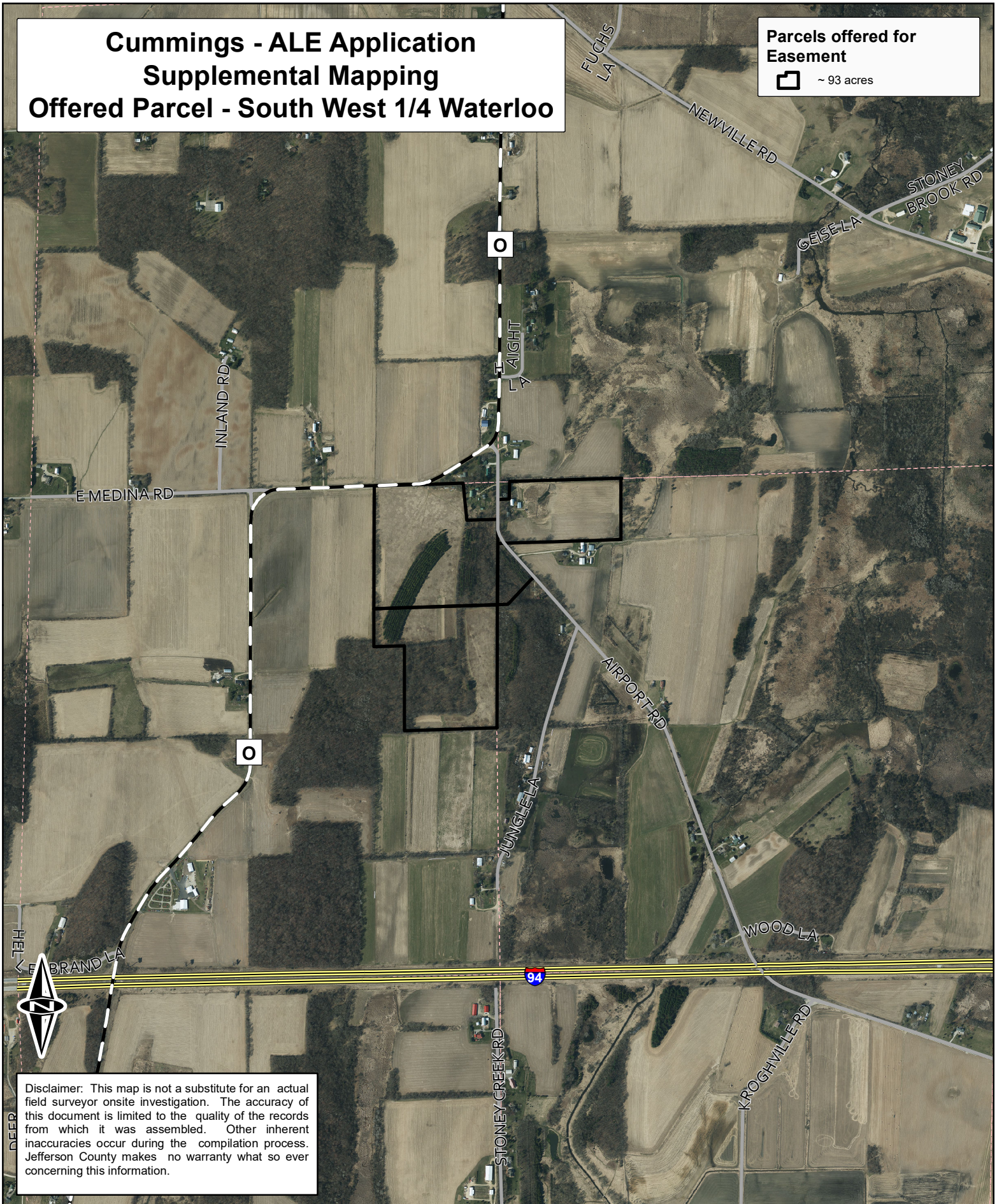
Results partially confounded BUT demonstrate the importance of adaptive management.



Cummings - ALE Application Supplemental Mapping Offered Parcel - South West 1/4 Waterloo

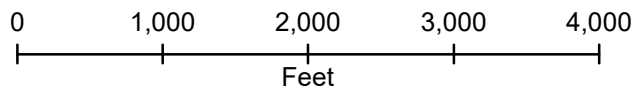
Parcels offered for
Easement

 ~ 93 acres



Disclaimer: This map is not a substitute for an actual field surveyor onsite investigation. The accuracy of this document is limited to the quality of the records from which it was assembled. Other inherent inaccuracies occur during the compilation process. Jefferson County makes no warranty what so ever concerning this information.


Data Sources:
Easement Parcel Data
Roadway Data
Cadastral Data
Jefferson County, Land Information Office



1 inch = 0.25 miles
Map compiled by:
Jefferson County Land & Water
Conservation Department
June 2022

**Map Layout
Supplemental Mapping
Offered Land - South East 1/4 of Concord**

**Rollefson Offered
Parcels**

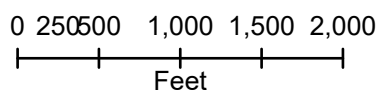
 99.3 acres



Source: Esri, USDA FS

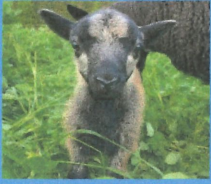


Data Sources:
Jefferson County, Land Information Office
Land Use & Offered Property:
Derived by Jefferson County LWCD



Map compiled by:
Jefferson County Land & Water
Conservation Department
June 2022

2022 Pasture Walk Schedule



June 23, Thursday
6:00—8:00 pm
Kenosha County

Starry Nights Farm, 7500 352nd Avenue Burlington, WI. Beef Grazing Farm. EQIP Cost share for beef grazing & Rain Fall Simulator Demonstration.

[Register here](#) or www.renewingthecountryside.org

July 12, Tuesday
6:00—8:00 pm
Walworth County

Clover Valley State Habitat Area, N8153 HWY 89, Whitewater, WI. Grazing Warm Season Grasses on WDNR Land.

[Register here](#) or www.regenerativegraziers.com

July 21, Thursday
5:00—8:00 pm
Waukesha County

Gwenyn Hill Farm, N3W29350, Bryn Drive, Waukesha, WI. Grazing warm season grasses. Multi Species rotational grazing Dairy, Beef & Sheep.

[Register here](#) or www.glacierlandrccd.org

July 27, Wednesday
6:00—8:00 pm
Sheboygan County

Pado Farms, Paul Habeck, W6011 Cty Road W, Cascade, WI. EQIP Cost share for grazing farms, Rotational Grazing Beef. Registration coming soon.

August 11, Thursday
2:00—6:00 pm
Jefferson County

Brattset Family Farm, N2437 Brattset Lane, Jefferson, WI. Conservation Women in Agriculture.

[Register here](#) or www.wiwic.org

December 6, Tuesday
9:00am —3:00 pm

Winter Grazing & Soil Health Workshop, Community Engagement Center, Whitewater, WI, Allen Williams Main Speaker— Asked Registration Coming soon.

Questions to: Kirsten Jurcek (920) 342-9504 or kirsten@glacierlandrccd.org

