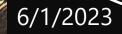


Weed Control With Cover Crops

Jon Bakehouse Maple Edge Farm Southwest Iowa (Hastings)

-2023 roll-crimp trial -Note weeds growing in bare dirt



-Elbon rye no-till drilled @ 90lbs/ac on 9/25
-Some soy yield concerns about planting "late" on 5/30
-Some soy yield concerns about growing with cereal rye for ~2 weeks in grain-fill strips (as well as rolling over rye)

Treatment	Soy Planting	Roll-Crimping	Description
Anthesis	5/30	5/30	Plant + roll @ anthesis
Grain-fill	5/30	6/15	Plant @ anthesis, roll @ grain-fill + trifoliate



Results/Observations

	Bu/ac	Moisture %	Cover Crop Ton/ac
Anthesis	55	11	2.2
Grain fill	53	11	2.6
Statistically different?	No	No	No

Sprayed anthesis 6/15; grain fill 6/27

Happy with yield; 53.3 farm average Rest of farm planted early May, rye sprayed at planting Biomass pretty terrible; 1.2" of rain in May; 8 tons/ac goal Both strips regrew after roll, hence herbicide applications

Herbicides

Farm Program

Pre: PowerMax; Zidua SC; FireZone (\$31) Post: PowerMax; Enlist One; Anthem MAXX (\$50)

Field Trial Program

PowerMax; Enlist One; Anthem MAXX (\$50)

-Dad runs sprayer, remembers ineffective herbicides, multiple tillage passes, walking beans and corn, all for mediocre results; I'm not sure any cost is too high -Rye easily provided confidence to eliminate first herbicide pass -Shooting for no herbicides (organic no-till), would settle for one application of contact -Note nice ground cover in background picture, advantage of getting rye on ground

Next Steps

Shorten weed control hand-off Cereal rye variety Improve biomass

-Make sure soy is ready to take over weed control duties when rye peters out -Switched to ND Gardner this fall; bigger stems hopefully = better roll-crimp -Reducing biomass variability is key; fertilizer? -Email any questions:

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