January 9-12, 2024 • Indianapolis, Ind. SCOTT'S COVER CROPS LLC **JAMIE SCOTT - PIERCETON, IN**

32nd Annual

NO-TILLAGE



Recognizing the Conservation Achievements of U.S. Soybean Farmers 2008 CONSERVATIONISTS OF THE YEAR JIM, CATHY, AND JAMIE SCOTT

J. A. SCOTT FARMS, INC. Pierceton, Indiana

Presented By



MONSANTO imagine





January 9-12, 2024 • Indianapolis, Ind.

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FARM BACKGROUND

S 600 E

No-Till Cover Crops Tile Crop Rotation Previous Owners - 2

Increase yield Profit

Improve water infiltration

Encourage biological activity

Recycle unused nutrients

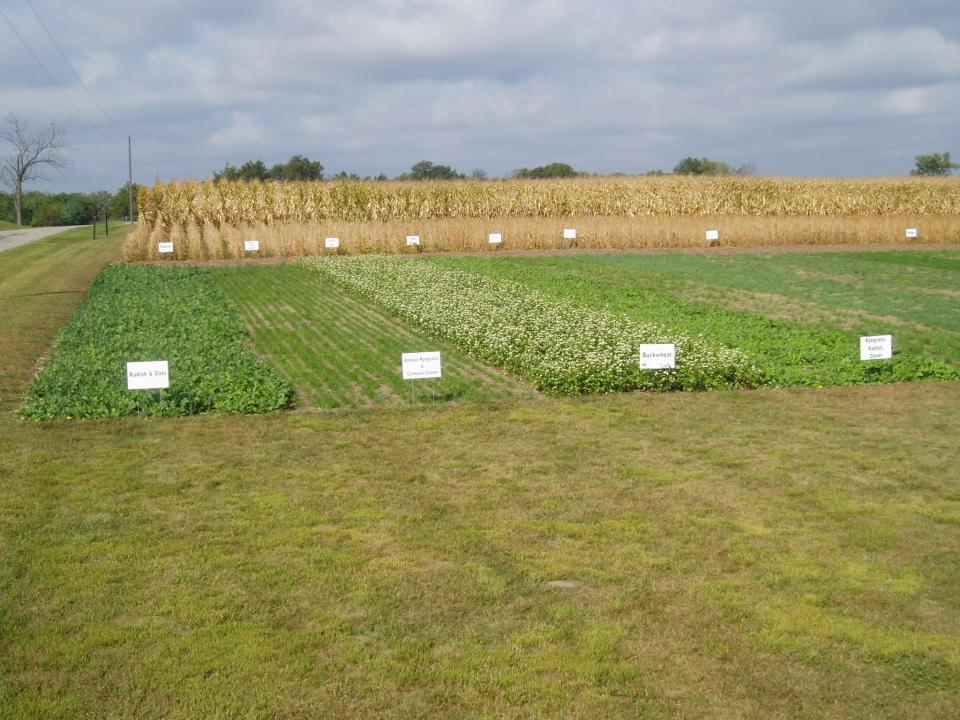
Increase organic matter

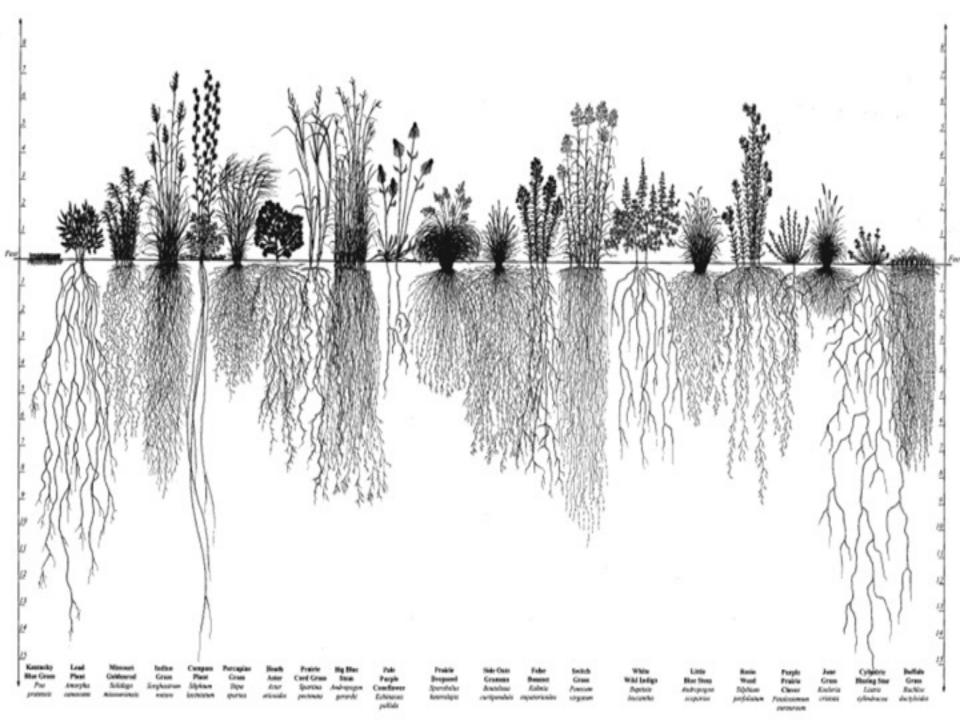
Herbicide	Active ingredient	Normal Rate/acre	Half life (days) ¹	Cash crop restrictions	Fall cover crops		Other	
					OK to plant	Concern for		
Glyphosate 4L	glyphosate	0.75 to 1.25 lb	47	No restrictions preemergence	A11	None	Glyphosate does not have soil activity at normal use rates	
Gramoxone 2S	paraquat	2 pt	1000	No restrictions preemergence	All	None	Paraquat does not have soil activity at normal use rates	
Harmony 50WDG	thifensulfuron	1/8 oz	12	Any crop can be planted 45 days after application	No restrictions for wheat, barley, and oats	None with 45 day waiting interval	Harmony Extra also contains tribenuron	
Liberty 2.34L	glufosinate	22 - 36 fl. oz	7	No restrictions for canola, corn, and soybean. Small grains have a 70 day restriction.	All	Food or feed residues rather than crop injury may be a concern	Glufosinate does not have soil activity at normal use rates	
Outlook 6E	dimethenamid	16 fl. oz	20	Four mo. for cereal grains and anything the following spring	Most crops should be fine	Food or feed residues rather than crop injury may be a concern	Nonfood/feed winter cover crops should be OK after corn harvest	
Prowl H2O 3.8CS	pendamethalin	3 pt	44	Wheat and barley after 4 mo. Other rotational crops the following year.	Cereal grains	Small seeded legumes and annual ryegrass	We have not seen this herbicide carryover in PA. Nonfood/feed winter cover crops should be OK	
Python 80WDG (Hornet and Surestart)	flumetsulam	1 oz	14-120	Cash crop restrictions from 4 mo. for alfalfa and cereals to 26 mo. for canola	Cereal grains	Small seeded legumes, mustards, and annual ryegrass	Cover crops and forage grasses are restricted for 9 mo.	
Metribuzin 75DF (Sencor)	metribuzin	0.33 lb	14-60	Recrop restrictions range from 4 to 12 mo.	Cereal grains and ryegrass	Slight risk for small seeded legumes and mustards	Nonfood/feed winter cover crops allowed	
Sharpen 2.85SC (Verdict and Optill)	saflufenacil	3 fl. oz	7-35	Any crop can be planted 4 mo. after application	All	None	This product has been reported more persistent in western Canada	













13 Way Mix - 2013

•Legumes

- •CowPeas
- •Sunn Hemp
- •Cahaba Vetch
- •Yellow Sweet Clover
- •Crimson

•Grasses

- •Sorghum Sudan
- •Millet
- •Oats

•Brassicas

- •Rapeseed
- •Turnips

Broadleaves

- •Sunflower
- Buckwheat
- •Phacelia

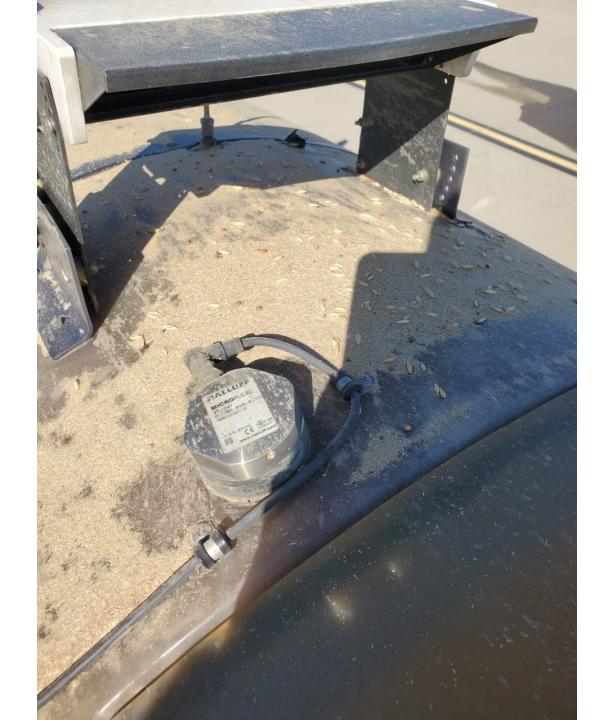
\$54.00/acre













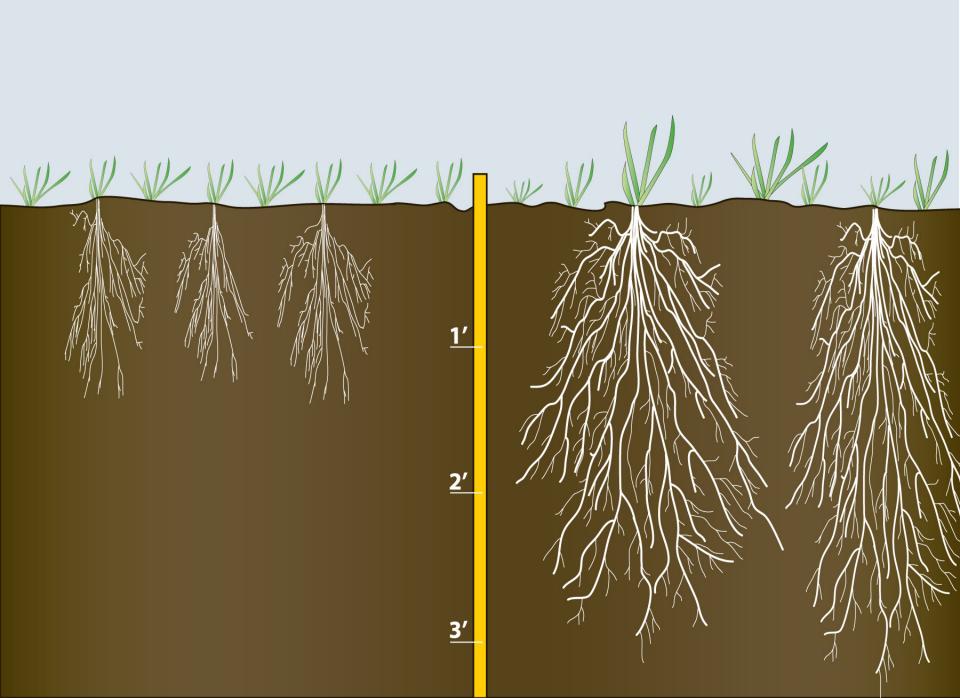
LOTS OF SEEDING TOOLS BUT ONLY TWO SEEDING METHODS

- ON TOP

- IN GROUND





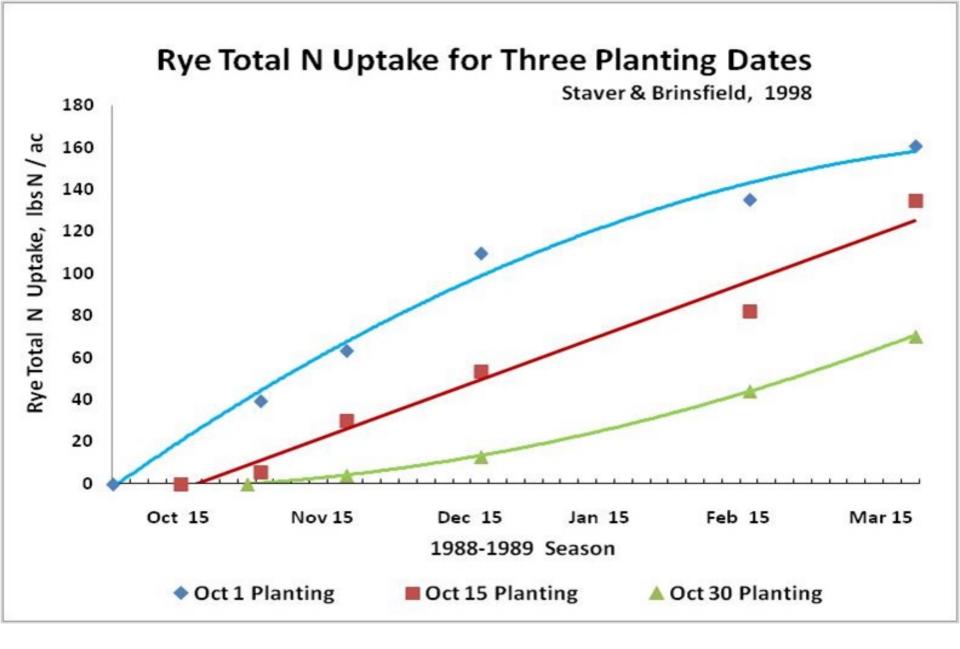




Sunrise	Sunset	Avg. High	Avg. Low	Mean
5:15am	7:05pm	78	56	67
6:46am	6:14pm	66	44	55
	5:15am	5:15am 7:05pm 5:46am 6:14pm	5:15am 7:05pm 78	5:15am 7:05pm 78 56

You lose 1 ½ hours of sun light and 12 deg. in Temp.







Flown @ 25 lbs/acre September 14 2011

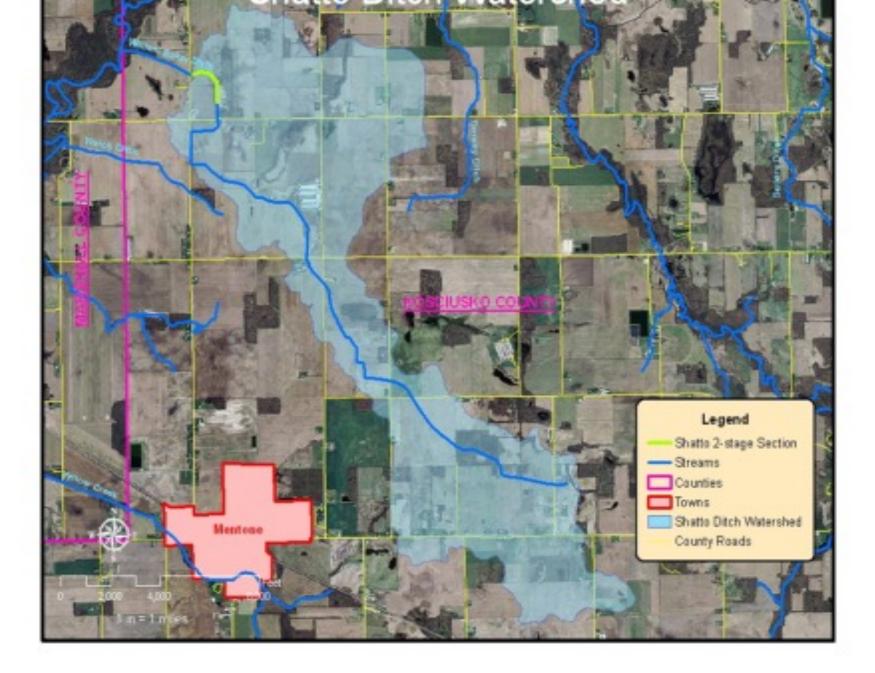






Maria and Alexander a Maria Maria















COVER CROP BURN DOWN



1. Glyphosate was never intended to be used in cold weather as it requires an actively growing/transpiring plant for the chemistry to work.

2. Glyphosate requires a minimum of 3 hours after spraying on an actively growing/transpiring plant before a dark period (night). Most plants stop growing 1-2 hours before sunset. Glyphosate that has not reached the growing point by dark; 25-30% will become bound within the plant and will not be available the next day. If the following day the plant does not actively grow/transpire due to cold, wet, cloudy conditions, then the next dark period will bind an additional 80% of the glyphosate. Therefore there will not be any glyphosate left to provide control of the plant. (I found that means no spraying after 2pm for best control in cold conditions in March/early April)

3. It is critical that the mixing order of glyphosate be followed to ensure the maximum amount of glyphosate is available for control. Glyphosate should never be mixed in untreated water as 40%+ can be "neutralized" at mixing depending on water quality.

4. Glyphosate is most active at a pH of 3.5 but plants will react by not absorbing spray below 4.5. (Trials at Dixon Springs with Ron Hines, we found that the optimum pH for spray solution is 5-5.2)

What I know about ryegrass is :

1. Ryegrass does not actively grow below 40 degrees F

2. If temperatures drop below 35 degrees F, ryegrass will go dormant for 2-3 days and will not uptake glyphosate— therefore don't spray in this time period, wait till the ryegrass starts growing

3. Soil temperatures at 4" less than 40-45 degrees F means ryegrass is not actively growing

4. Ryegrass will tolerate saturated soils, but does not actively grow/transpire in those conditions so glyphosate uptake is limited

5. Dr. Andy Hulting, OSU just finished an extensive glyphosate control study on all the annual ryegrass varieties sold from Oregon and did not find any lack of control with glyphosate if proper spray procedures were used

6. I did a study on time of spraying glyphosate from 10am to 6 pm and found a significant reduction in control as the time got later with no control after 6pm when the weather was cold the end of March-early April

7. There are significant control reduction issues when some other herbicides are mixed with the glyphosate

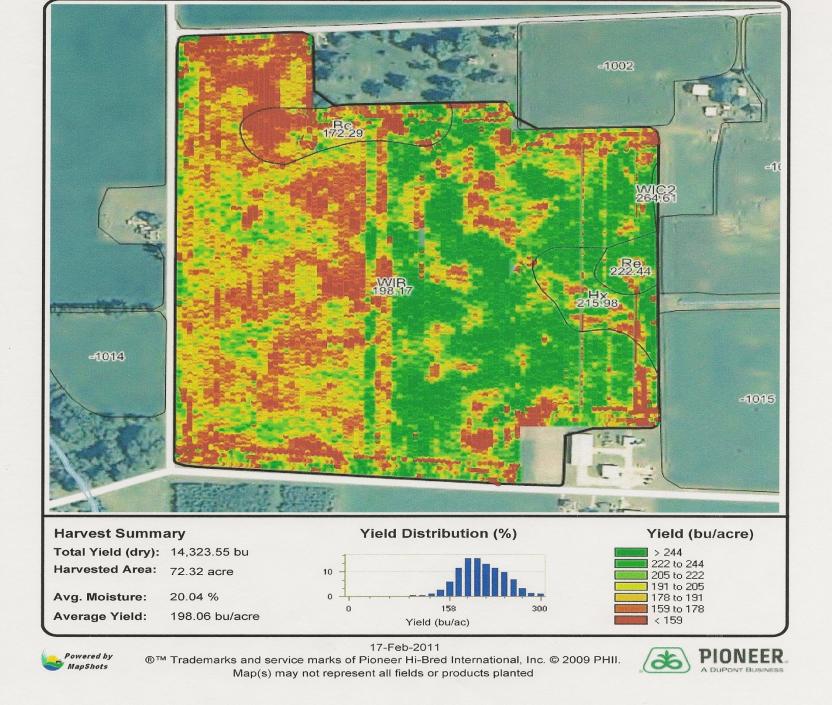
8. Uninformed commercial applicators do not know the importance of glyphosate mixing order and normally get poor control because of mixing in untreated water















JAMESCOTT

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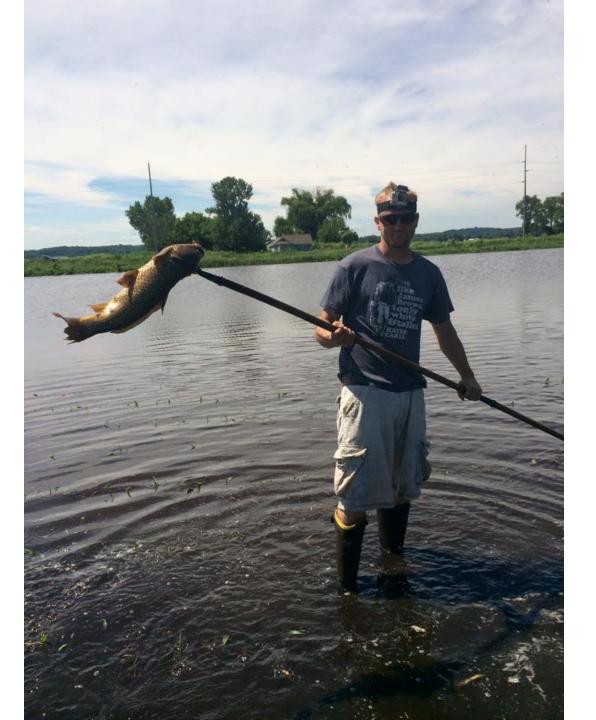
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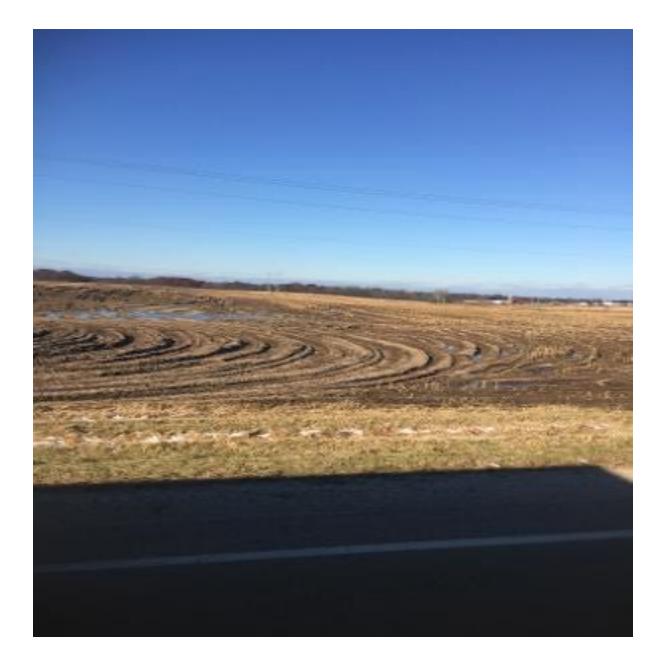


2015 LOTS OF RAIN













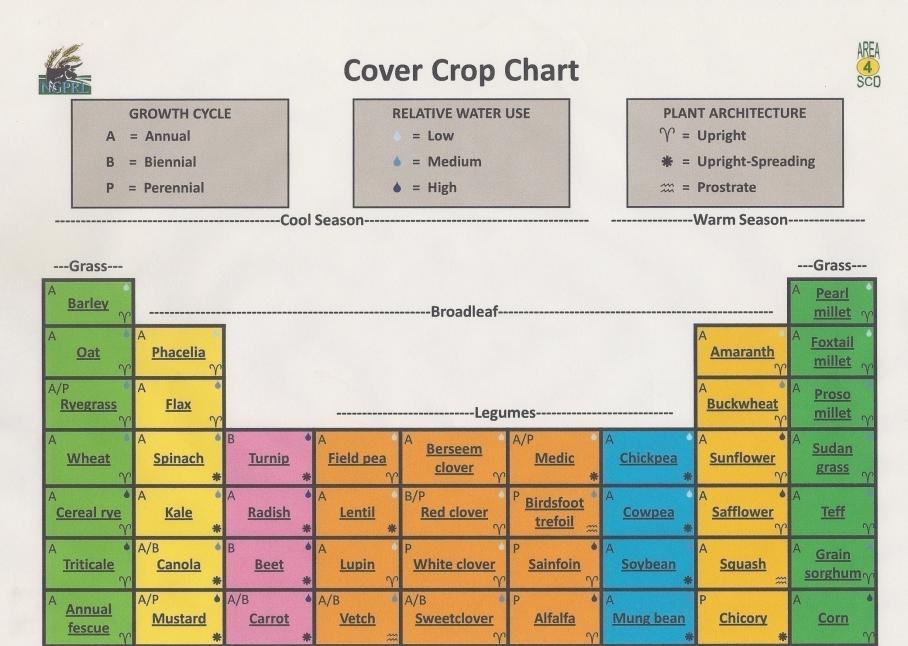






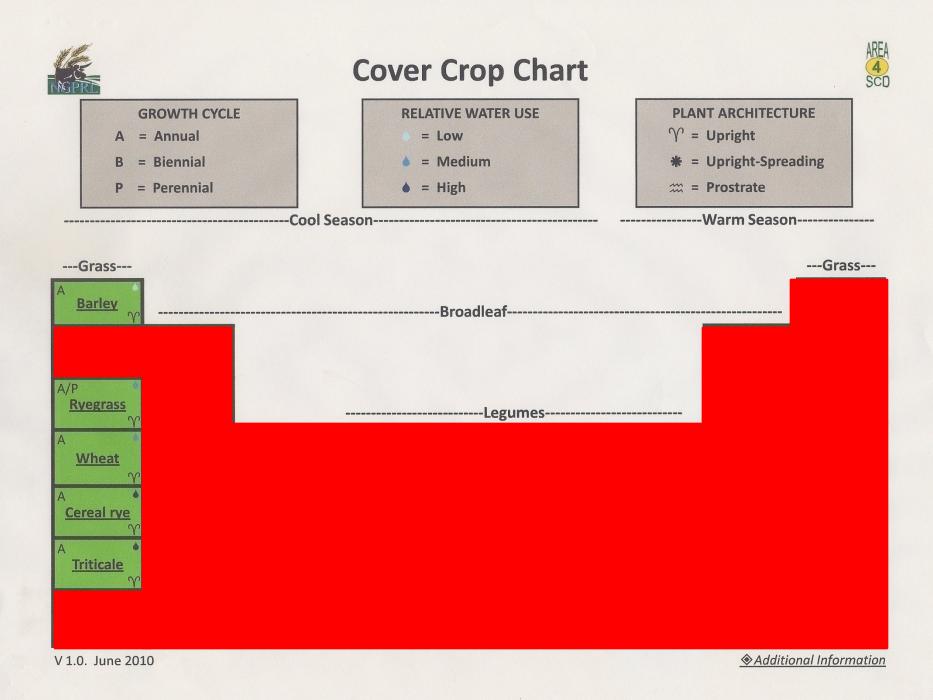






V 1.0. June 2010

Additional Information

































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results may vary, and performance may vary in to location and from year to year. This result an indicator of results you may obtain as local iil and weather conditions may vary. Growers uate data from multiple locations and years ossible.

READ AND FOLLOW PESTICIDE LABEL IS. Roundup Ready® crops contain genes tolerance to glyphosate, the active ingredient [®] brand agricultural herbicides. Roundup[®] icultural herbicides will kill crops that erant to glyphosate. Tank mixtures: The labeling for each product must be in the of the user at the time of application. Follow use instructions, including application rates, and restrictions of each product used in the . Monsanto has not tested all tank mix product for compatibility or performance other than isted by brand name. Always predetermine the of tank mixtures by mixing small proportional advance. Acceleron and Design®, Asgrow and , Asgrow®, Bollgard®, Bollgard II®, DEKALB , DEKALB[®], DroughtGard[®], Genuity Design[®], as, Genuity[®], Respect the Refuge and Cotton B, Genuity⁻, Respect the Holdgo uncooking B Complete[®], Roundup Ready 2 Technology Roundup Ready 2 Yield[®], Roundup Ready[®], VT Double PRO® and VT Triple PRO® are of Monsanto Technology LLC. Deltapine® is trademark of Monsanto Company. Channel® ow Design[®] and Seedsmanship At Work[®] ed trademarks of Channel Bio, LLC. All other are the property of their respective owners. santo Company.



Pro aerial seeding tips

Cover crops need sunlight, seed-to-soil contact and moisture.



This cereal rye-spring barley cover crop mix in Wisconsin was seeded at the same time, but the corn on the left was harvested in late September, allowing the cover crop more time to establish a stand. The corn on the right side of this field was harvested the third week of October, robbing the cover crop of three to four weeks of sunlight.

By Susan Winsor

24

hese cover crop aerial seeding tips come from Damon Reabe, a third-generation aerial applicator and president of Reabe Spraying Service, Waupun, Wis.

- Avoid aerial seeding too early. You risk having your cover crop competing with the cash crop and lacking access to sufficient sunlight beneath the canopy. Access to sunlight is the key to successful cover crop stand establishment.
- Seed cover crops when soybean leaves are yellow, but before they drop. Too much green soybean canopy will shade cover crop seedlings, and fallen leaves will block seed-to-soil contact. If the soybean field does not mature evenly (a common problem),

you are set up for a poor cover crop stand.

- Time cover crop seeding on corn properly. Do not fly cover crop seed on corn until the corn plant has senesced (dried out) up to the ear, or the new crop will lack critical sunlight access.
- Spring barley and cereal rye are ideal cover crops for northern climates. Spring barley is popular with beginners because it is quick to germinate and easy to manage. Of all the grasses, it is the fastestgrowing and the largest nitrogen scavenger. Even when barley survives to the reproductive stage, the spring straw is not woody or difficult for tillage implements to manage. Spring













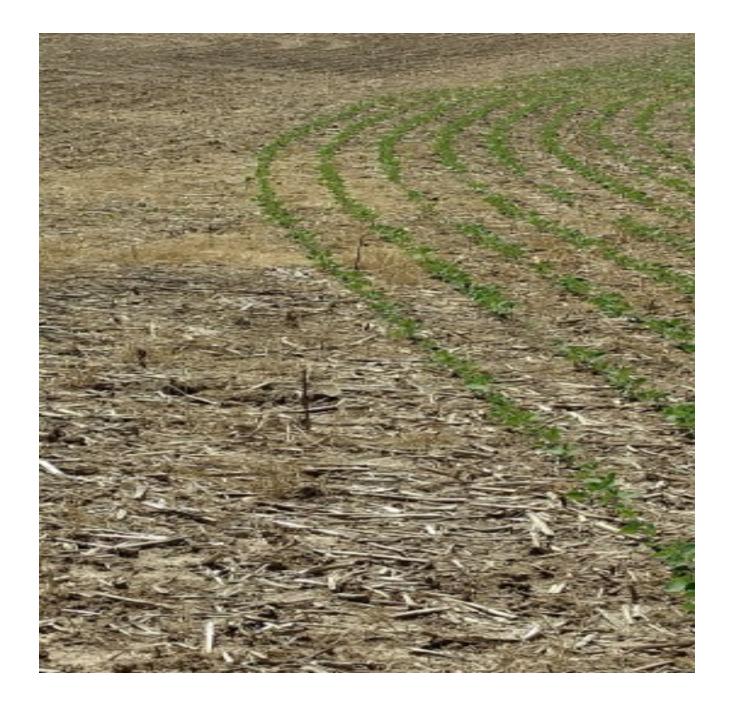












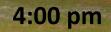






COVER CROP BURN DOWN





9:30 am

Time of Spraying Critical















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