



Extension

UNIVERSITY OF WISCONSIN-MADISON

Building Knowledge on Cover Cropping in Wisconsin

Dan Marzu, CCA

Co-lead Wisconsin Cover Crop Data Network

Crops & Soils Program Outreach Specialist

Wisconsin Cover Crop Data Network

Project Partners



Welcome

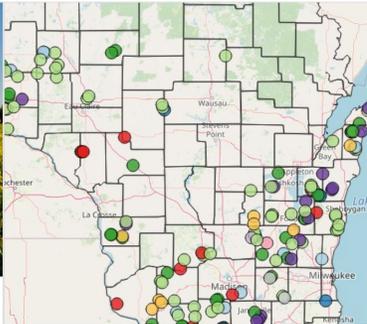
Since 2020, farmers around Wisconsin have shared cover crop and other soil health practices with us. Each colored dot on the map represents one of their fields. Click the map or graph images to explore the data.



Cover crop scenarios

On-farm data by farmers, for farmers. Explore how cover crops are being used by farmers around Wisconsin.

[Go to the scenarios](#)



Map of participating citizen science farmers

Do you see your dot? Click each location for more information on cover cropping practices.

[Go to the map](#)

- Began in 2020 with fall biomass and farmer survey
- Fall of 2022 started testing for nutrient content & forage quality
- First spring samples were taken in 2024
- Data from over 220 fields in a variety of locations, soil types, farm sizes, and crop production systems.
- Data searchable on website and the new cover crop scenario page



Scan to explore the Data Network Website and view past season reports



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How it works. . .

- Welcome all cover crop experience levels & cropping systems
- Farmers fill out survey regarding cropping rotations, tillage practices & nutrient applications
- Take cover crop heights & biomass samples for nutrient uptake & forage analysis in fall and spring
- All information is kept anonymous; participation is voluntary & participants can leave at any time.



Photos taken by farmer participants of the fall 2025 survey



Participants receive. . .

- A \$100 stipend for filling out the survey & submitting samples
- A tool kit with PVC sampling square, scale, & pruners
- Crop biomass, nutrient & forage analysis reports
- Share interactive web & paper reports to learn about project results & compare practices around the state

Field 18

General info:

ID	18
Farmer yrs of cc experience	7
Yrs of covers in field	7
Field acreage	3
Previous cash crop	corn grown for grain
Previous crop planting date	October 19, 2023
Cover crops	cereal (winter) rye
Cover crop seeding rate	100 lbs/acre cereal (winter) rye
Cover crop seeding method	drilled
Cover crop seed cost	\$40 per acre
Cover crop planting cost	\$20 per acre
Cover crop planting date	October 19, 2023
Soil conditions at planting	had adequate moisture
Dominant soil texture	loam
Tillage intensity	Conventional, <15% residue remaining
Primary tillage equipment	disk_chisel
Secondary tillage equipment	disk_harrow
Termination	other

Sampling date

	Fall	Spring
Sampling date	November 27, 2023	May 16, 2024
Precipitation (in)	1.23	13.59
Cumulative growing degree days	253.44	1066.66

Forage quality

	Fall	Spring
cp	26.9	16.66
andf	30.96	35.18
undfom30	65.11	16.2
ndf30	77	68.8
tdn_adj	73.97	62.59
mlkton	3811	2761
rfq	199.38	142.75
undfom240	5.19	9.65
dry_matter	22.68	17.48
rfv	222.48	105.29

Dairyland Laboratories
P.O. Box 418
Stratford, WI 54484
Telephone: +1 715-391-1025
Fax: +1 715-687-9907
Email: info@dairylandlabs.com

Report Date: 10/15/2025
Sample No.:
Alias:

Test Package: Select Hay - Mixed
Feed Type: Mixed hay
Sub Type:

Account No.:
Sampled By: Dan Marzu
Sampled For: Dan Marzu
Product:
Description1: Fall 2025
Description2: green

Moisture	89.45%				
Dry Matter	10.55%				
CP	%DM	17.29	13.73	23.91	
ADICP	% CP	7.40	5.24	11.50	
NDICPass	% CP	15.21			
SCP	% CP	60.96	26.07	46.05	
ADF	%DM	23.56	25.78	41.61	
aNDF	%DM	29.36	32.31	64.04	
aNDFom	%DM	27.95	29.93	61.73	
Lignin	% NDFom	12.45			
NDFDom30	% NDFom	52.74	32.13	65.82	
NDFDom240	% NDFom	60.57	43.03	76.37	
uNDFom30	%DM	13.21	12.73	34.53	
uNDFom240	%DM	11.02	10.27	26.73	
Sugar (ESC)	%DM	12.95	3.04	9.57	
Sugar (WSC)	%DM	16.21	3.67	10.53	
Starch	%DM	5.42	0.29	3.75	
Fat (EE)	%DM	2.16	1.88	3.44	
Total fatty acids	%DM	0.99	0.87	2.47	
Ash	%DM	13.43	8.86	13.76	
Ca	%DM	1.60	0.93	1.81	
P	%DM	0.47	0.24	0.39	
Mg	%DM	0.45	0.23	0.40	
K	%DM	3.55	1.76	3.37	
S	%DM	0.18	0.16	0.33	
Cl	%DM	0.52	0.13	1.12	

Mixed hay statistics provided for comparison.

Calculations	%DM	
NFC	%DM	41.97
RFV		223.52
RFQ		227.62
NDF kd rate MIR_P1	%hr	6.93
Adjusted Crude Protein	%DM	17.29

TDN 1x		70.55	64.13	65.72
Nel 3x	Mcal/cwt	73.19	65.82	67.99
Neg	Mcal/cwt		41.47	43.55
Nem	Mcal/cwt		68.35	70.68
Milk per ton	lbshon			3,198

Cover Crop Analysis Report

Submitted By: Dan Marzu
Date Sampled: 10/16/2025 12:00:00AM
Date Received: 10/16/2025
Date Reported: 10/14/2025

Field ID: H5-7
Crop: RYE WHOLE
Growth Stage:

Results of Laboratory Analysis, dry sample				Nutrient Content of Forage, lbs/acre @ 100% Dry Matter			
Nitrogen	N, %	2.99		Nitrogen	N	145.3	
Phosphorus	P, %	0.83		Phosphorus	P2O5	76.1	
Potassium	K, %	4.90		Potassium	K2O	285.8	
Calcium	Ca, %	1.80		Calcium	Ca	87.5	
Magnesium	Mg, %	0.61		Magnesium	Mg	24.8	
Sodium	Na, %	0.11		Sodium	Na	5.3	
Sulfur	S, %	0.75		Sulfur	S	36.5	
Zinc	Zn, ppm	92.8		Zinc	Zn	0.26	
Manganese	Mn, ppm	22.4		Manganese	Mn	0.11	
Copper	Cu, ppm	18.9		Copper	Cu	0.09	
Iron	Fe, ppm	200.1		Iron	Fe	0.97	
Boron	B, ppm	64.9		Boron	B	0.27	
Aluminum	Al, ppm	132.3		Aluminum	Al	0.64	
Carbon	C, %	42.70		Carbon	C	2075.2	
Dry Matter	DM, %	9.28		C:N Ratio	C:N	14.3	
				Total Yield	Tons/acre		
Fresh Weight	FW, g	2177.2		Fresh Biomass	As cut	26.14	
Area Sampled	Sq. Feet	4		Dry Biomass	100% dry	2.43	

Release of nitrogen and phosphorus are controlled by the C:N ratio of the plant matter as it decomposes. See comments below.

Cover crop residue with C:N ratios: Above 20:1 will immobilize nitrogen Below 20:1 will mineralize (release)





What the heck is that. . .

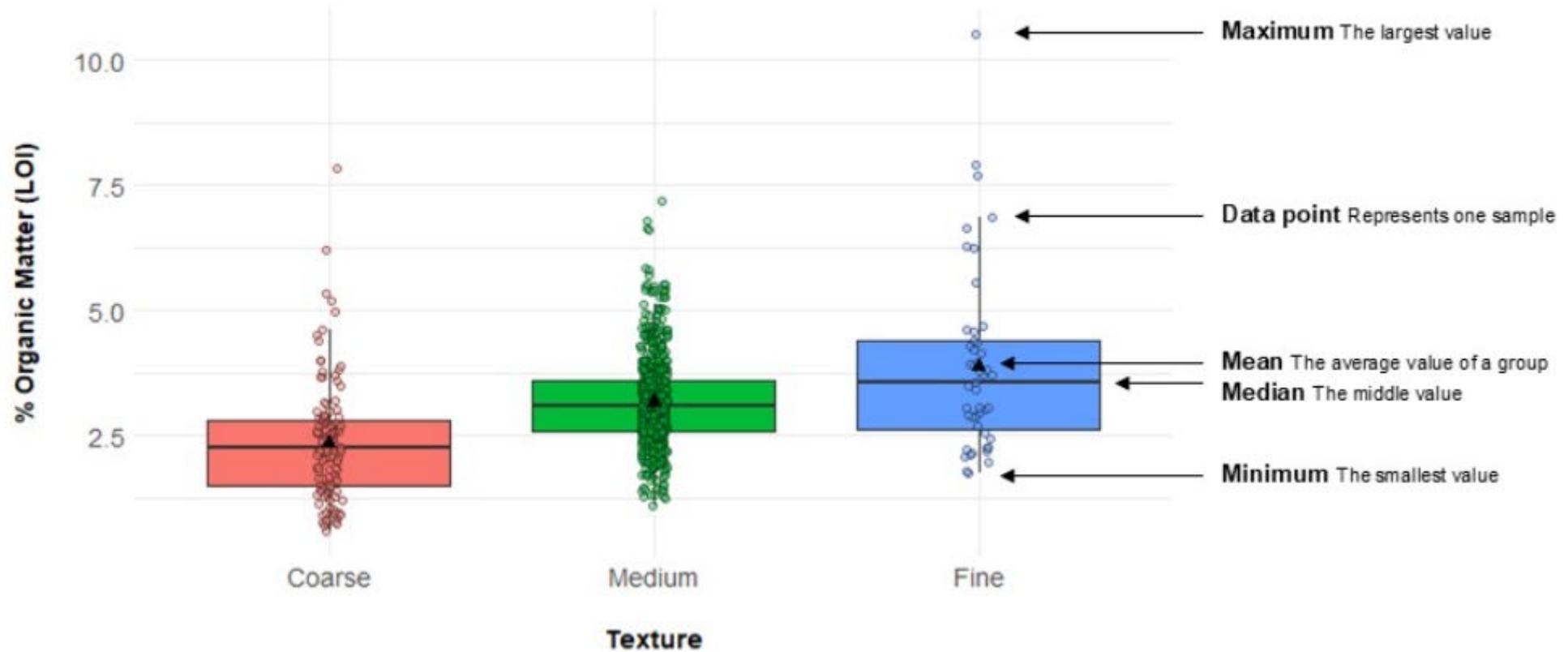
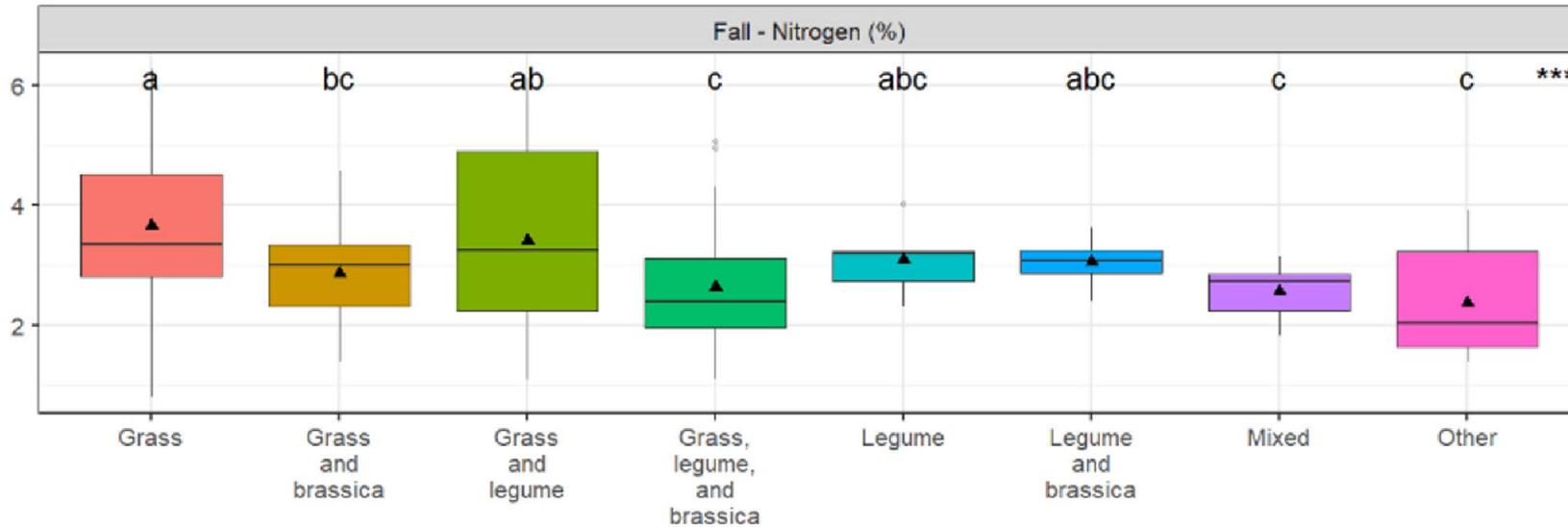


Image by Bethany Canales,
Extension On Farm Data Specialist

All Regions Average Nitrogen by Cover Crop

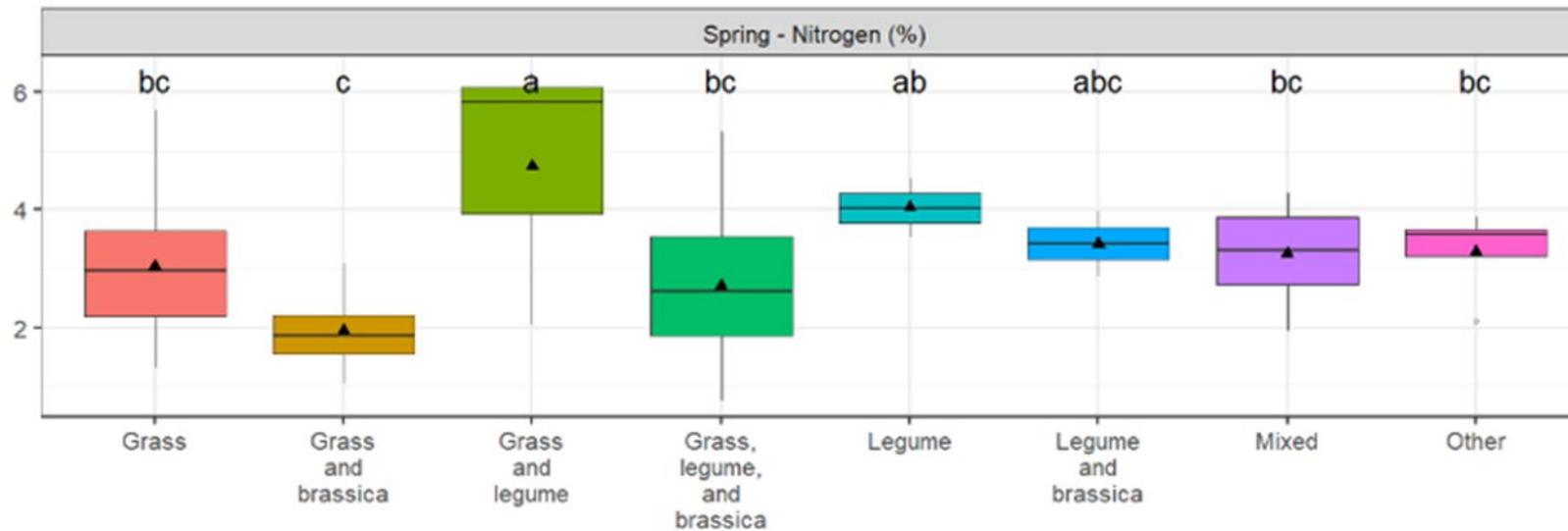


N %	3.66	2.87	3.42	2.64	3.10	3.05	2.56	2.37
Biomass	0.88	1.43	1.59	1.37	1.30	1.27	1.44	2.42
N lbs/A	64.42	82.08	108.76	72.34	80.60	77.47	73.73	114.71
Number	40	12	13	53	5	4	7	14

Biomass measured in tons per acre
 Other category contains unspecified cover crops



All Regions Average Nitrogen by Cover Crop

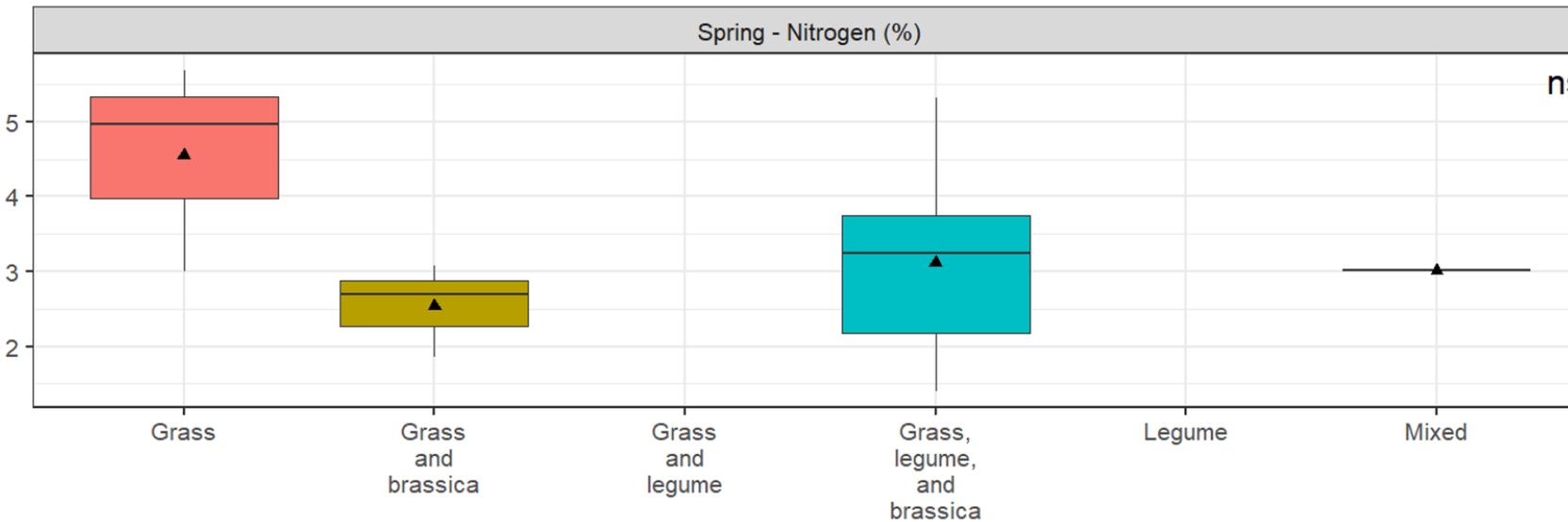
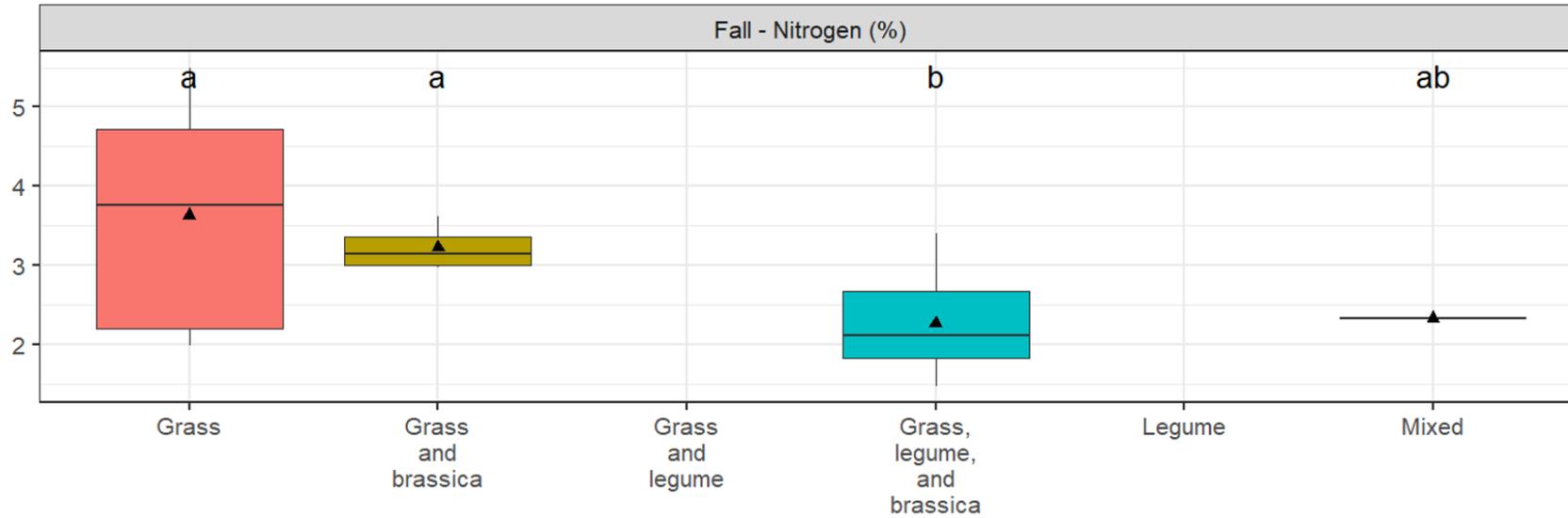


N %	3.02	1.95	4.73	2.7	4.03	3.42	3.24	3.28
Biomass	1.28	1.86	0.93	1.04	1.35	1.25	0.92	0.55
N lbs/A	56.39	77.83	48.77	49.91	98.93	92.3	60.54	35.61
Number	22	8	3	16	2	2	7	4

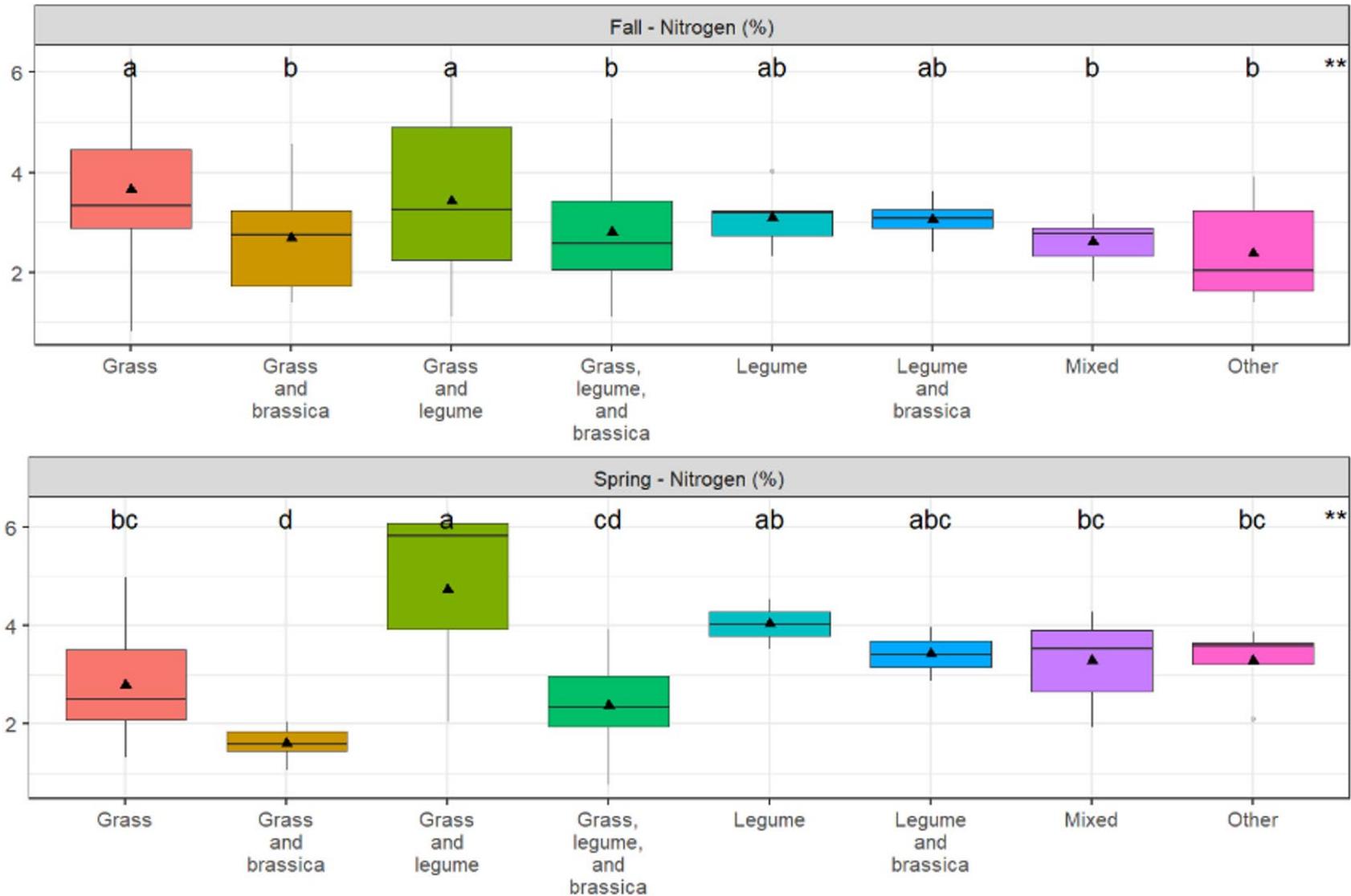
Biomass measured in tons per acre
Other category contains unspecified cover crops



Northern Region % N by Cover Crop



Southern Region % N by Cover Crop



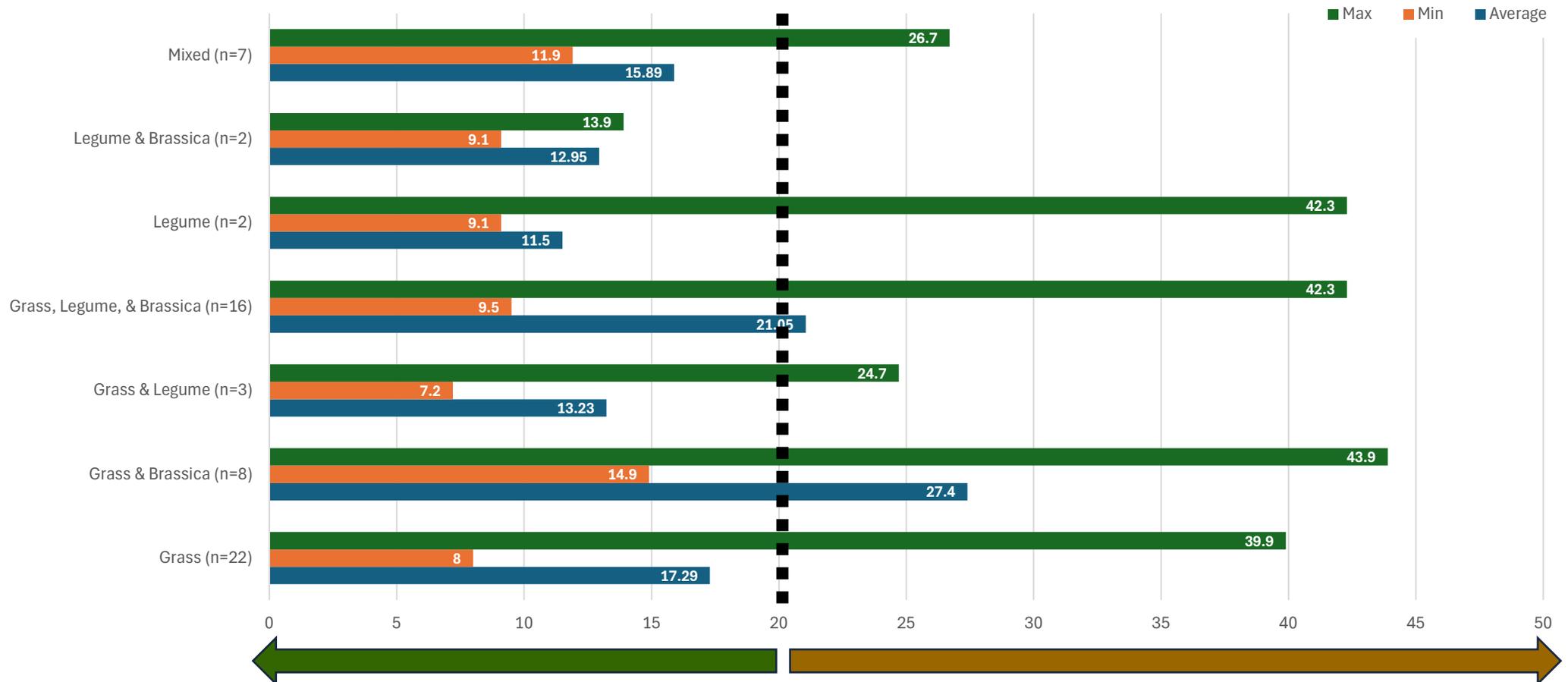


When will the nitrogen be released?

Photo & data from Spring 2025 participant
Sample yield .53 tons dry matter and took up
52.6 pounds of nitrogen per acre



C:N Ratio Effects on Potential Nitrogen Release



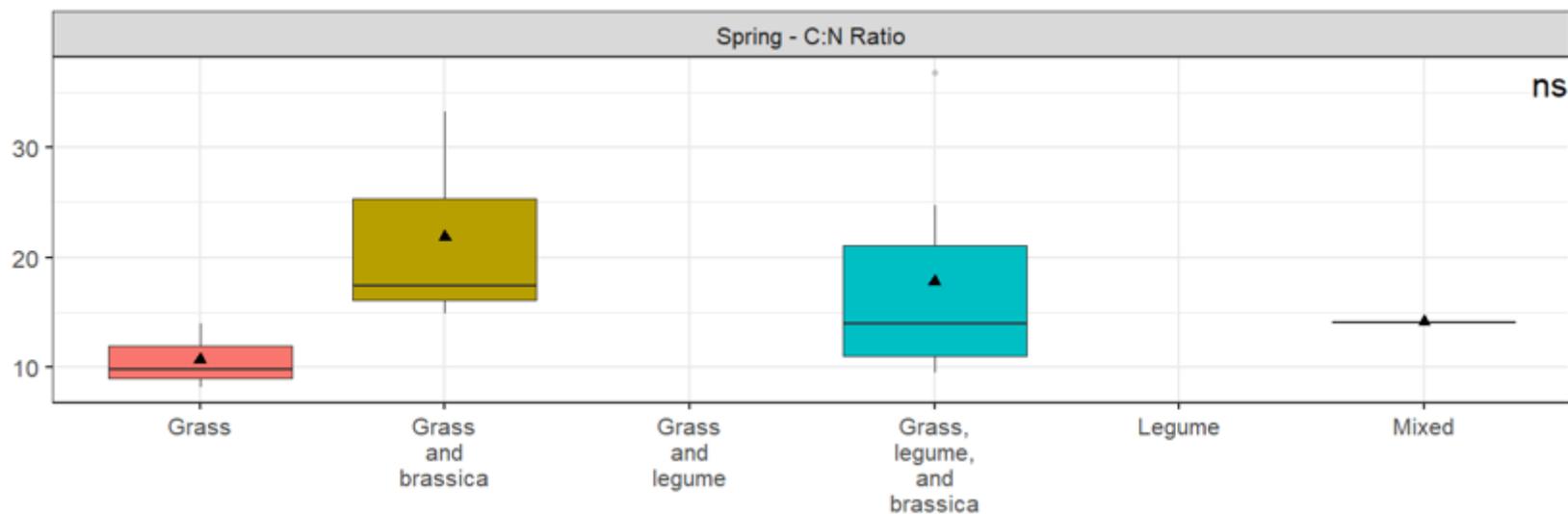
N mineralized by microorganisms during decomposition
N may not be available in season

N immobilized by microorganisms to break down residue

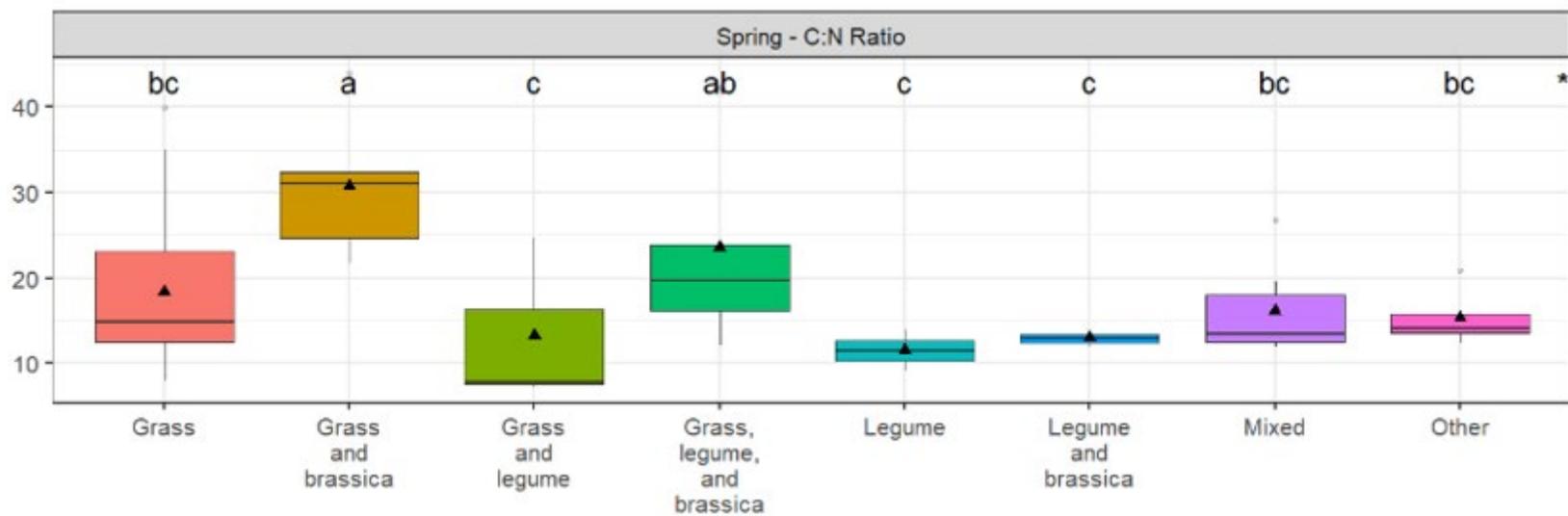
Data from Wisconsin Cover Crop Data Network, Spring 2024 & 2025

C:N Ratio by Region

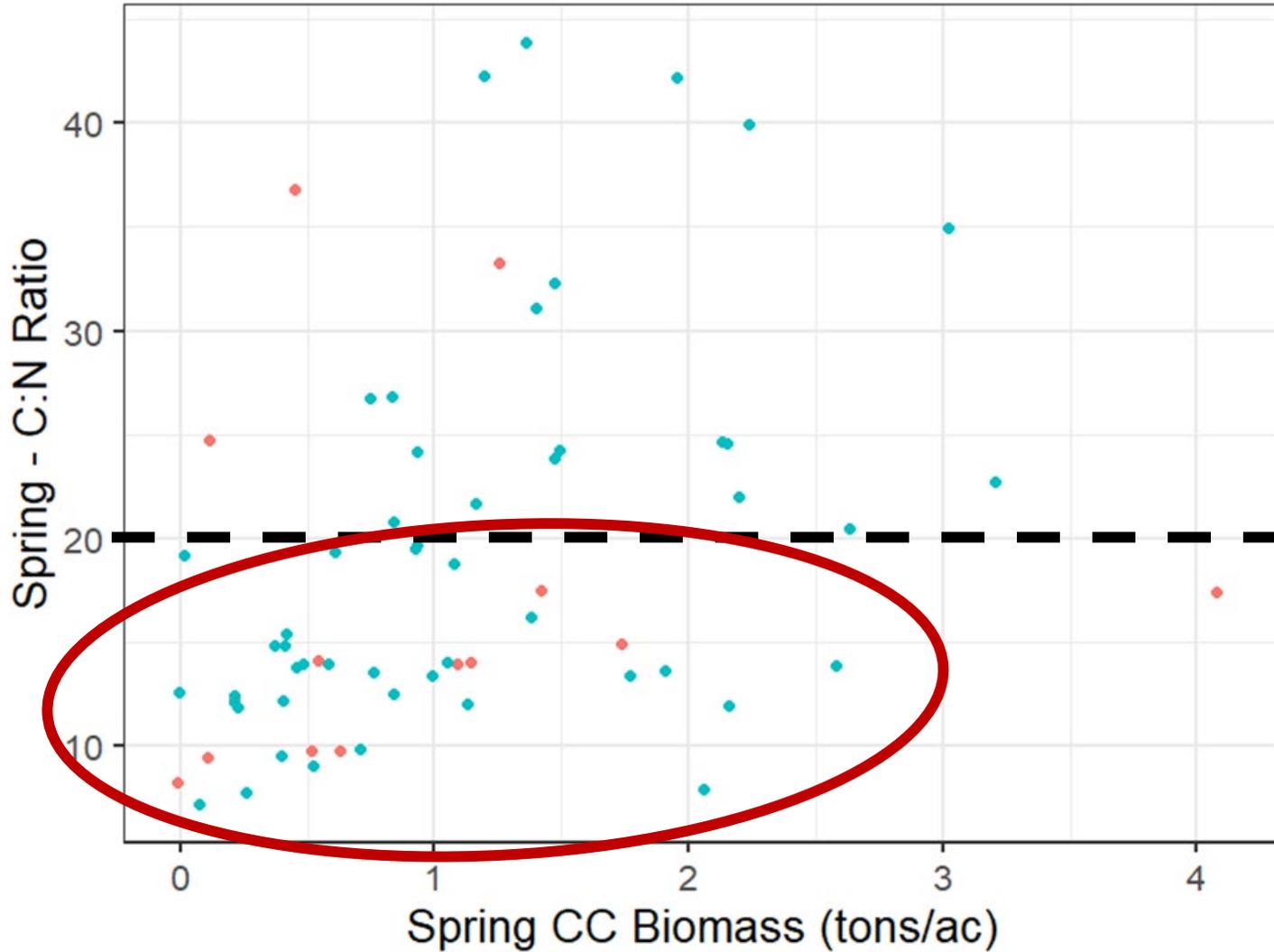
Northern Region (n=14)
GDD ave: 2440
GDD range: 1933-3824



Southern Region (n=51)
GDD ave: 2410
GDD range: 732-5666



C:N Ratio by Region



Region

- Northern
- Southern

Possibly:

- Early termination (most terminate early May)
- Type of covers
- Northern, not a lot of opportunity for GDDs
- Others??



Cover Crops as a Nitrogen Source

Crop	< 6" growth	> 6" growth *
	Pounds Nitrogen per Acre to Credit	
Alfalfa	40	50-100
Red Clover	40	50-80
Sweet Clover	40	80-120
Vetch	40	40-90
Vetch \geq 12"		110-160

* Use lower end of range for legumes planted in fall and terminated the following spring

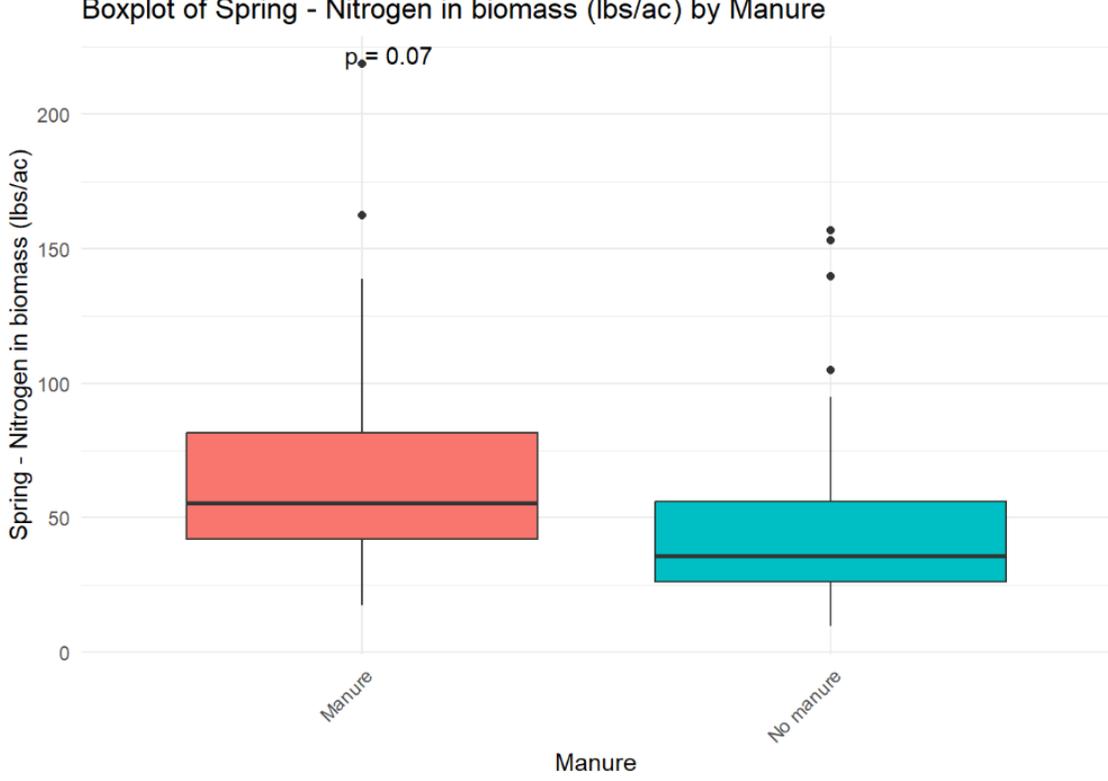
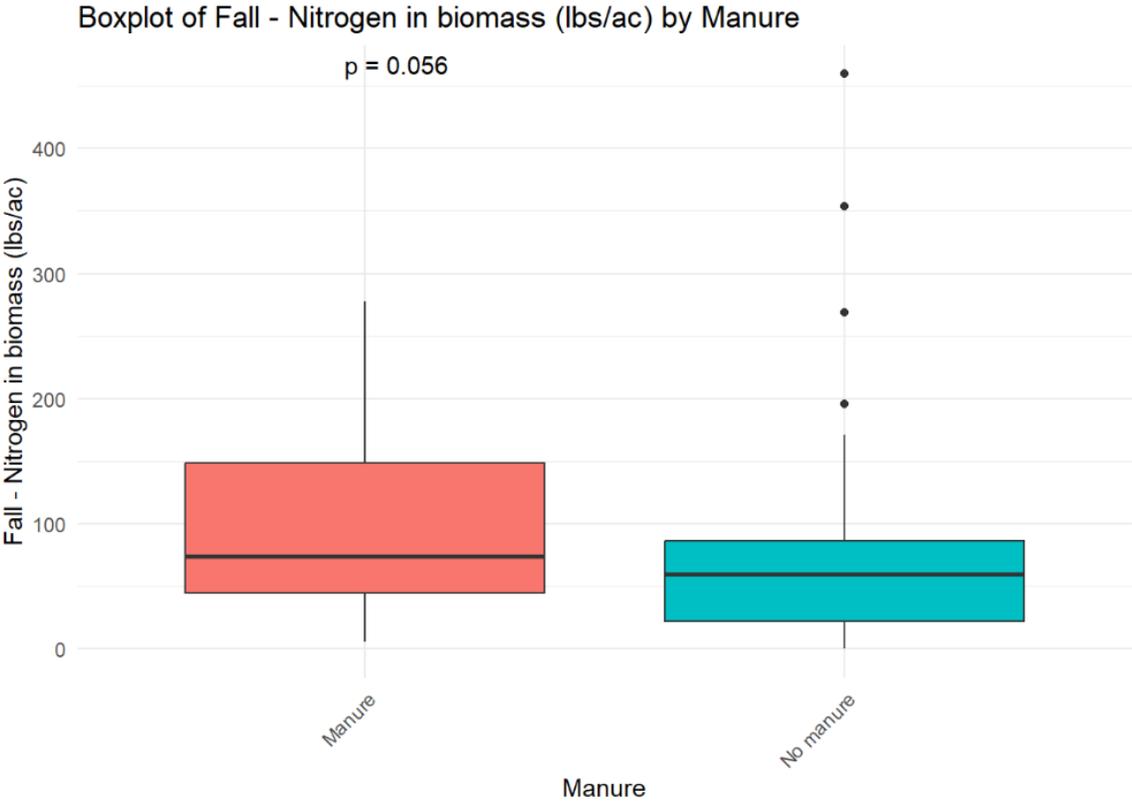
Source: A2809 Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin



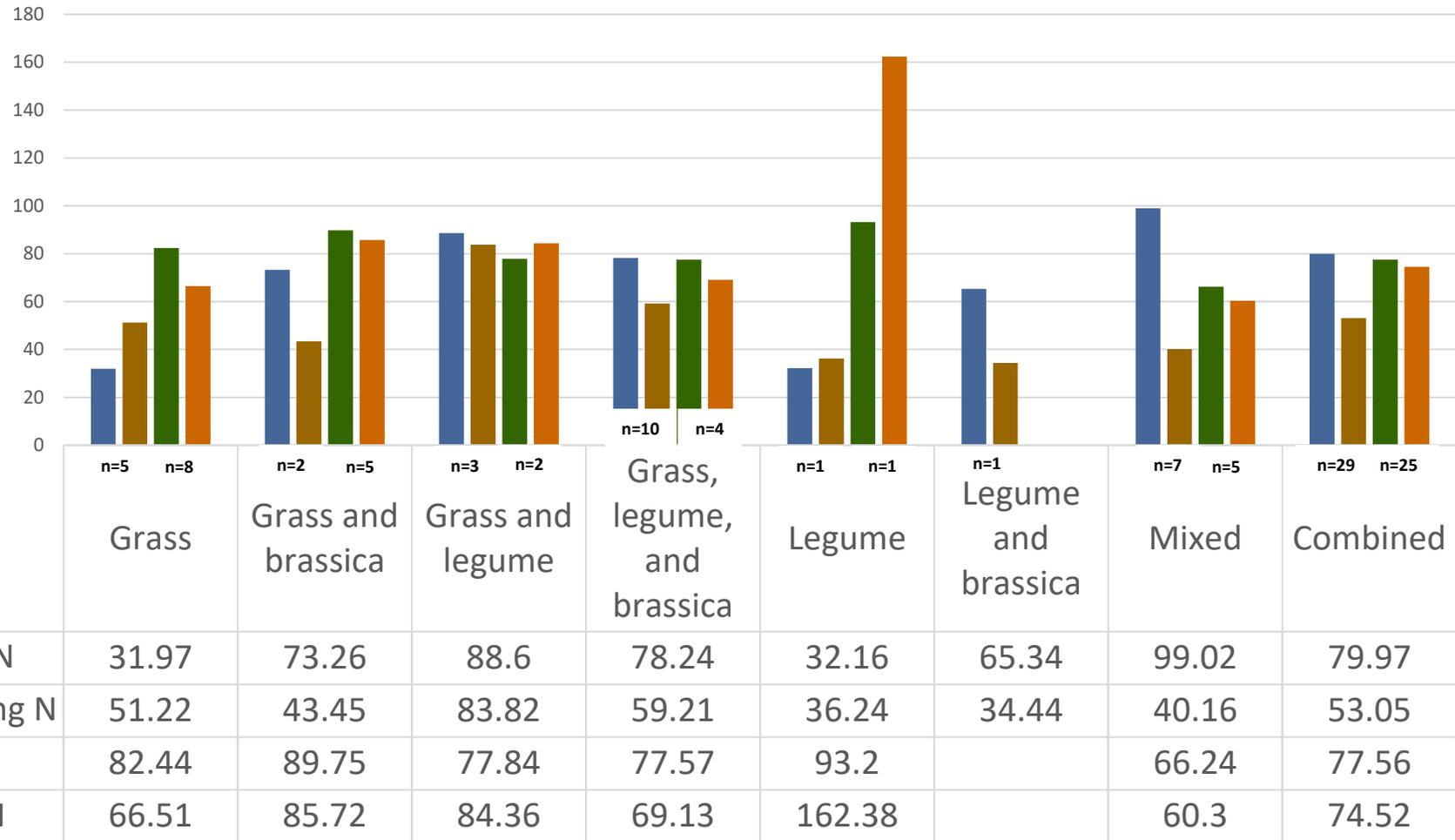
Nodules on Berseem Clover
Photo: D. Marzu, UW-Madison, Extension



Manured Cover Crops and N Uptake



Residual Plant Nitrogen Comparison for Fall 23/Spring 24 & Fall 24/Spring 25



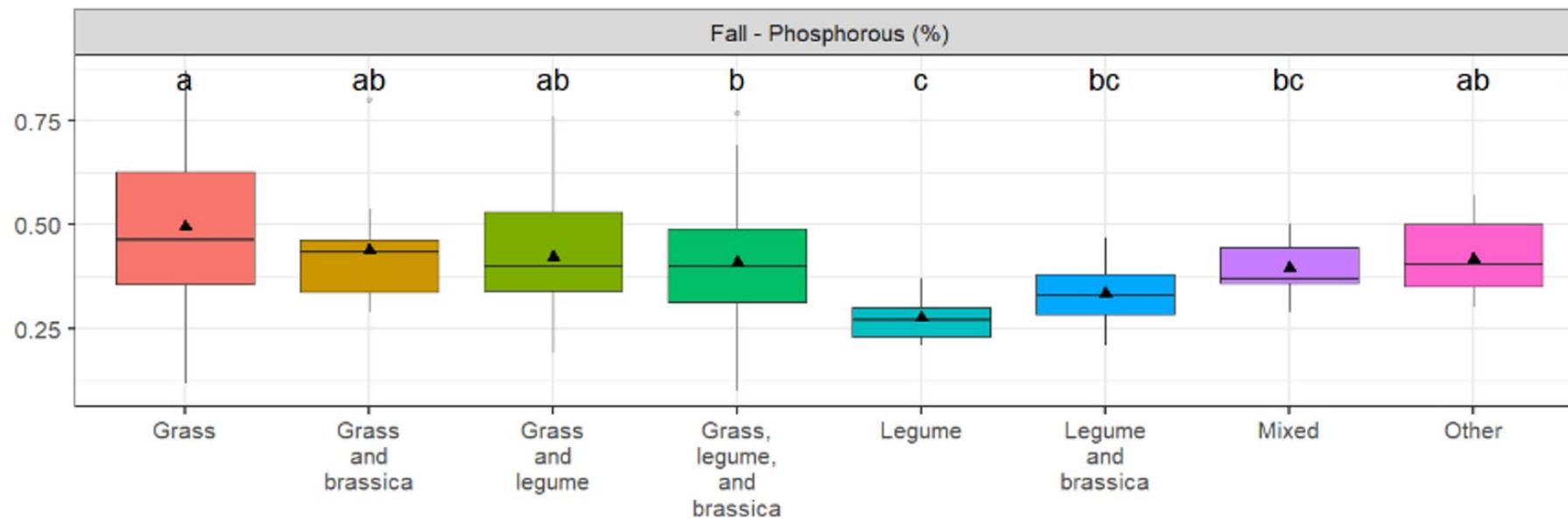
Winter Cereal Rye Biomass effects to manure N availability

Cover Crop Biomass (pounds per acre)	Estimated N uptake (pounds per acre)	Amount to adjust manure N credit (pounds per acre)
<1000	<25	No adjustment needed
1000 – 2000	25-45	Subtract 35 lb/ac from manure N credit
>2000	>50	Do not take any manure N credit (up to 100 lb/ac available N)

Adapted from UW-Madison, Extension Publication A4178 Cover Crops, Manure, and Nitrogen Management



All Regions Average Phosphorus by Cover Crop

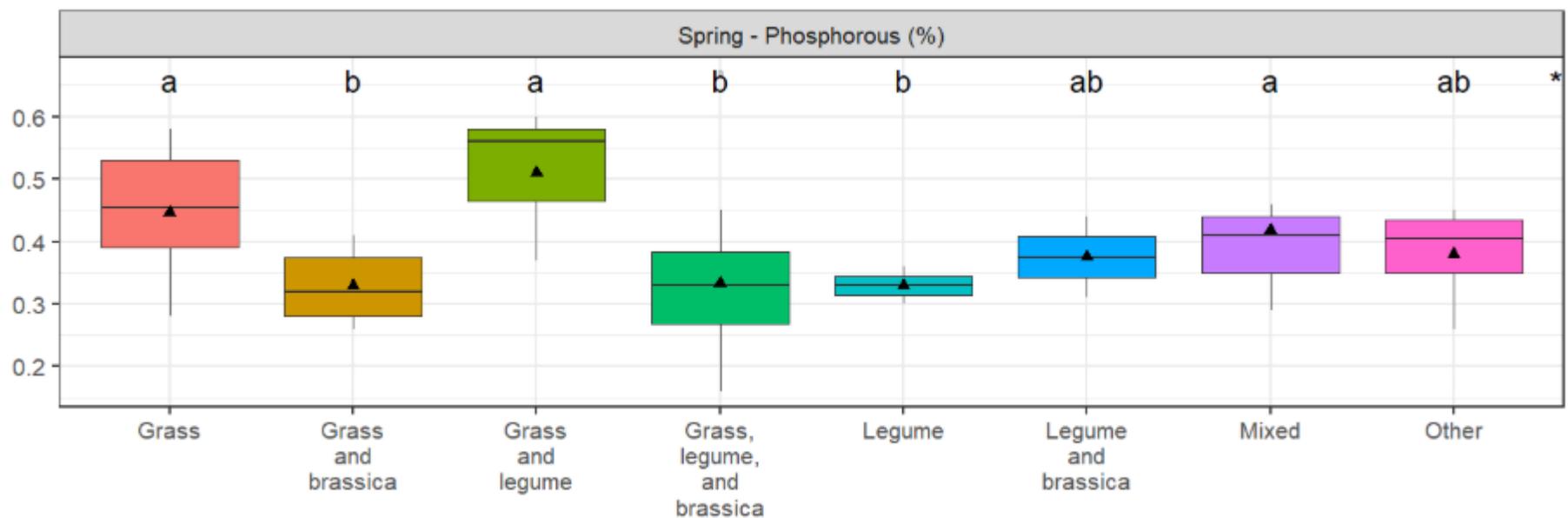


P %	0.49	0.44	0.42	0.41	0.28	0.34	0.40	0.42
Biomass	0.88	1.43	1.59	1.37	1.30	1.27	1.44	2.42
P2O5 lbs/A	19.20	28.60	30.35	25.53	16.55	19.63	26.18	46.20
Number	40	12	13	53	5	4	7	14

Biomass measured in tons per acre
Other category contains unspecified cover crops



All Regions Average Phosphorus by Cover Crop

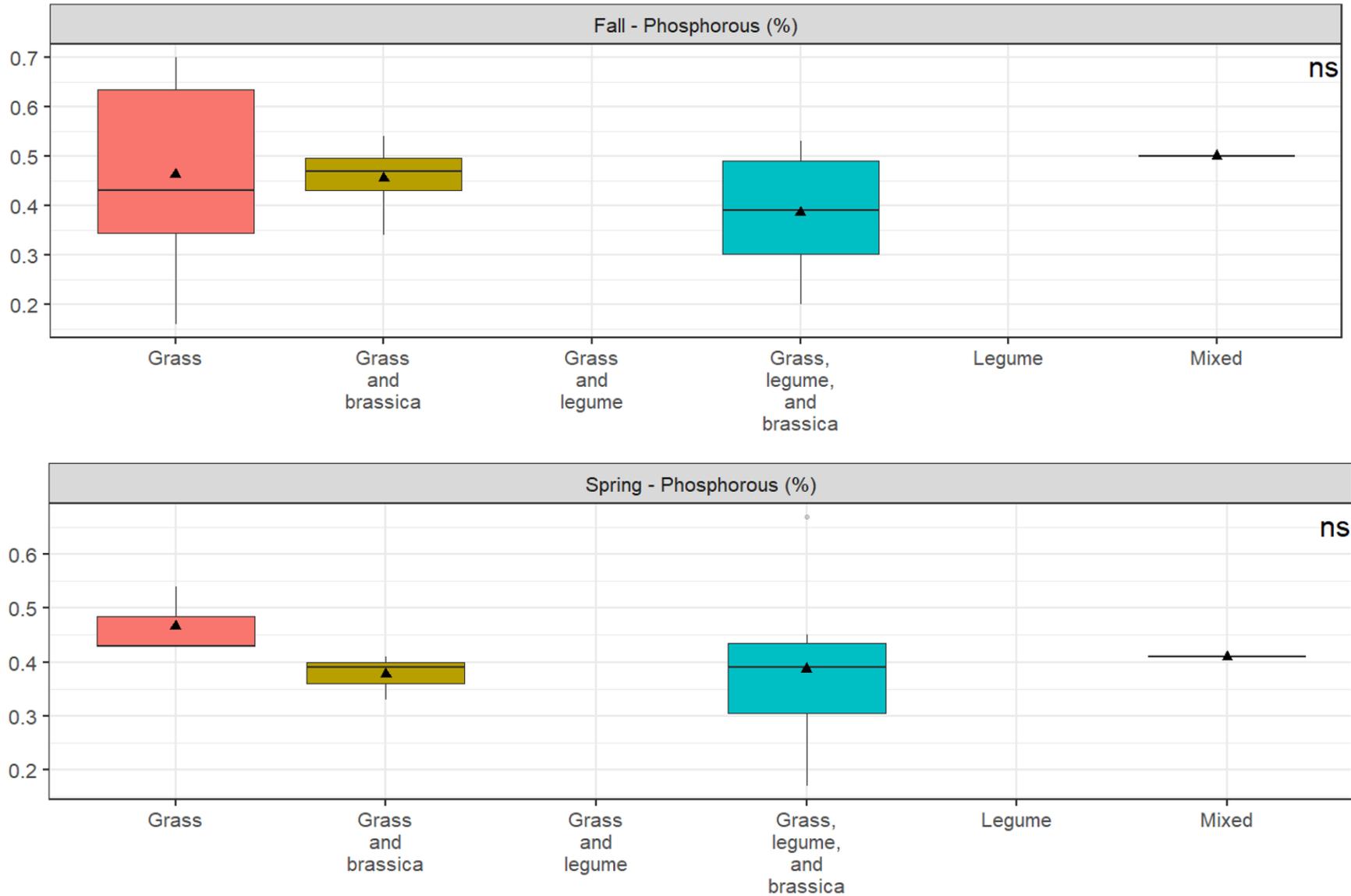


P %	0.45	0.33	0.51	0.33	0.33	0.38	0.42	0.38
Biomass	1.28	1.86	0.93	1.04	1.35	1.25	0.92	0.55
P2O5 lbs/A	26.18	27.90	21.56	15.60	20.25	21.59	19.32	9.50
Number	22	8	3	16	2	2	7	4

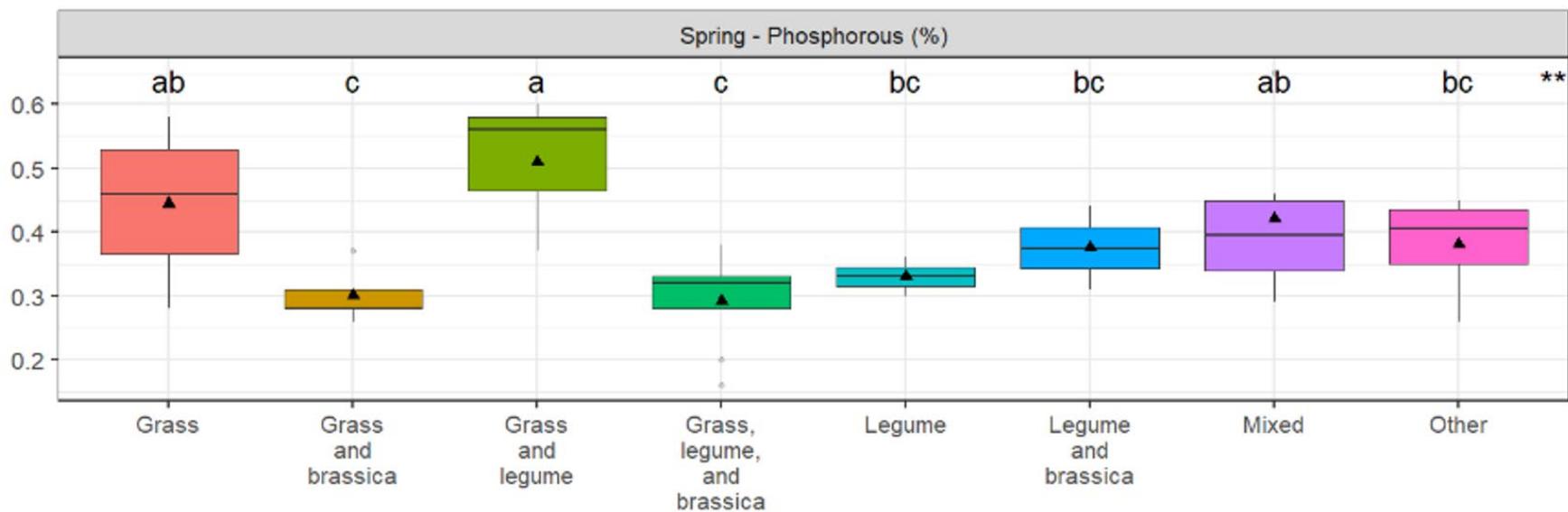
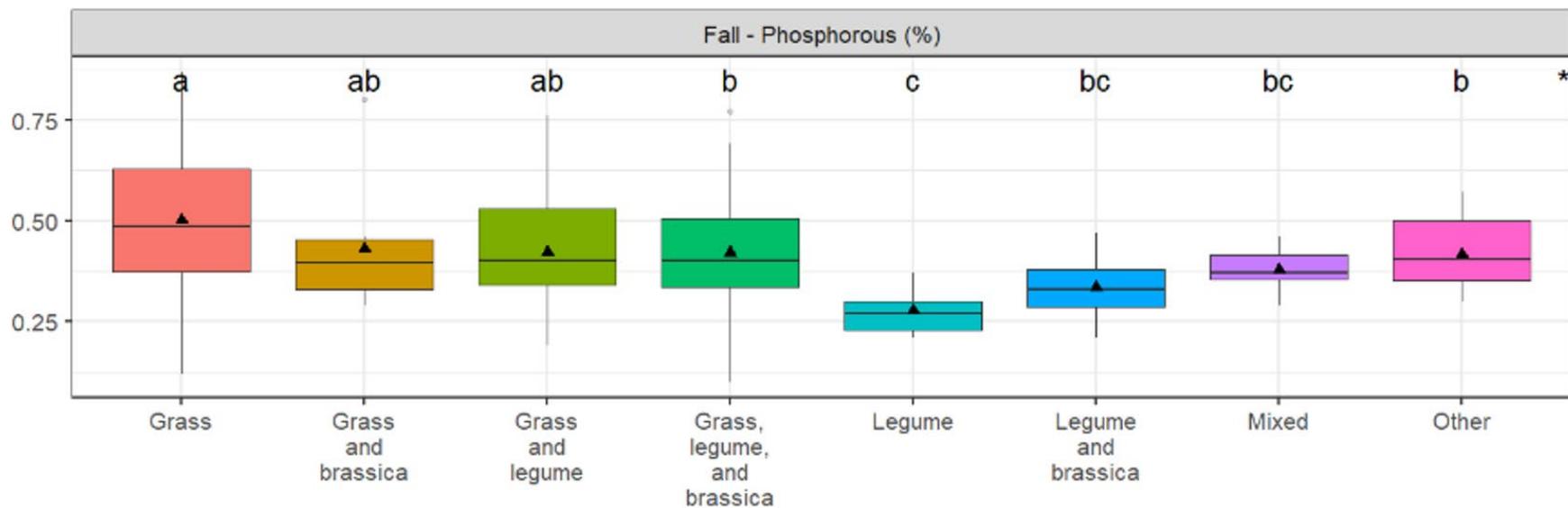
Biomass measured in tons per acre
Other category contains unspecified cover crops



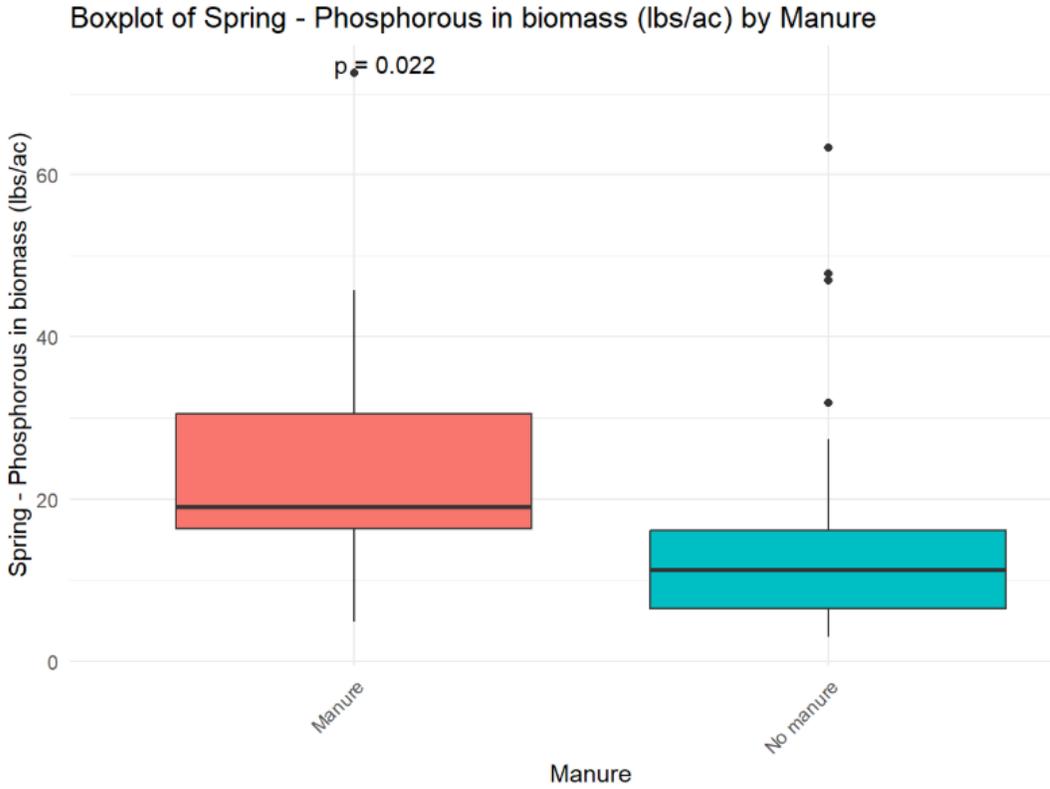
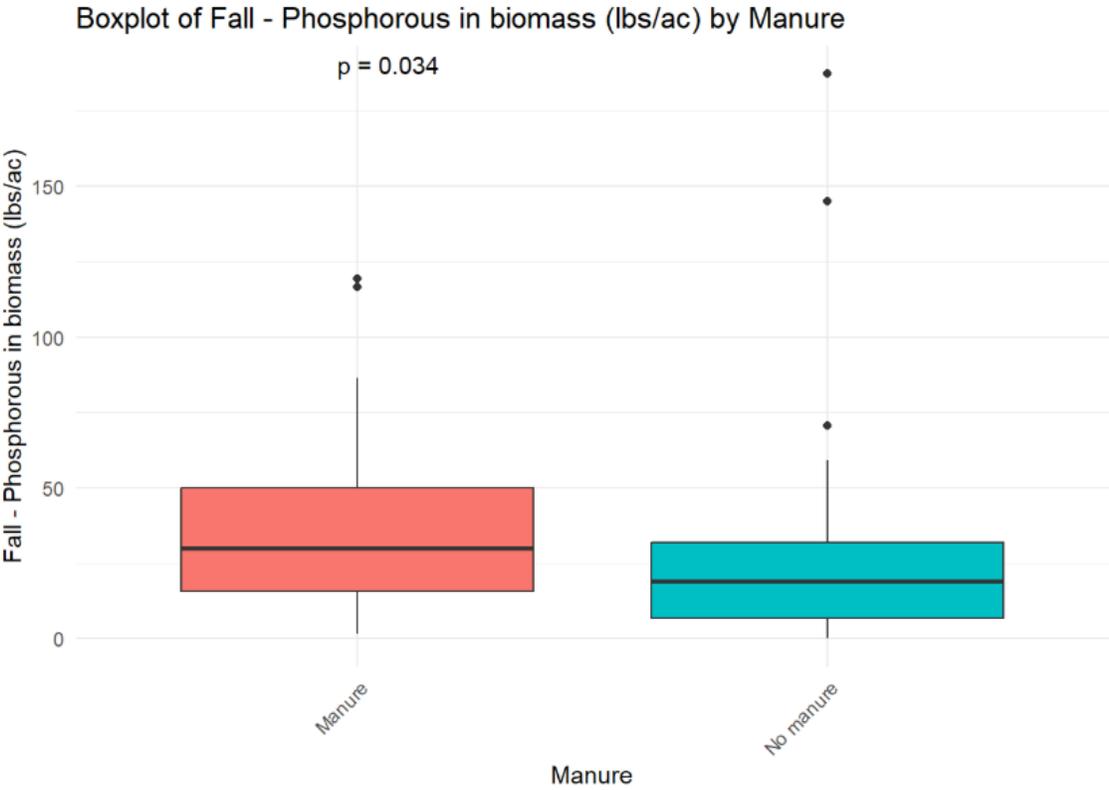
Northern Region % P by Cover Crop



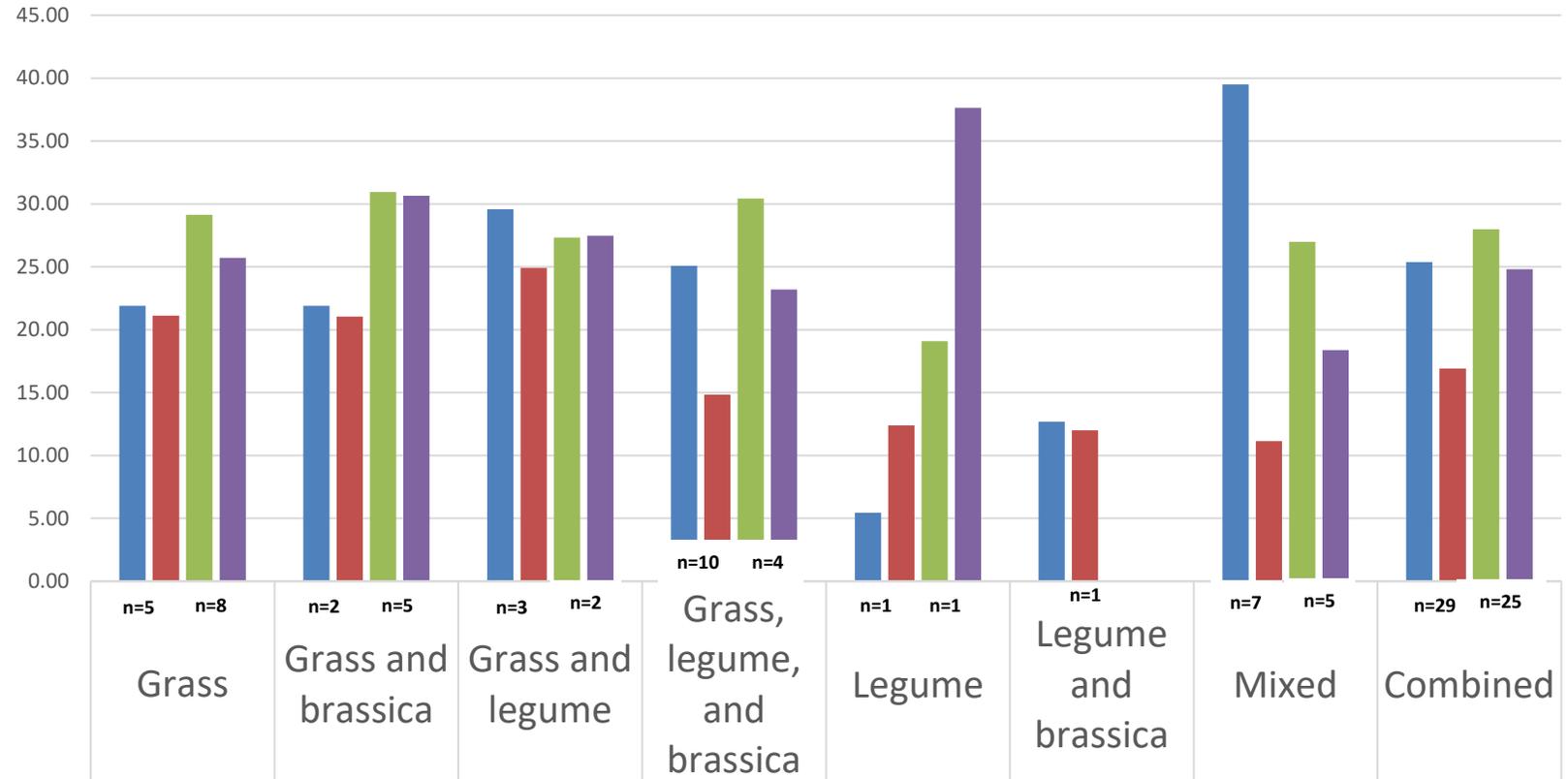
Southern Region % P by Cover Crop



Manured Cover Crops and P Uptake



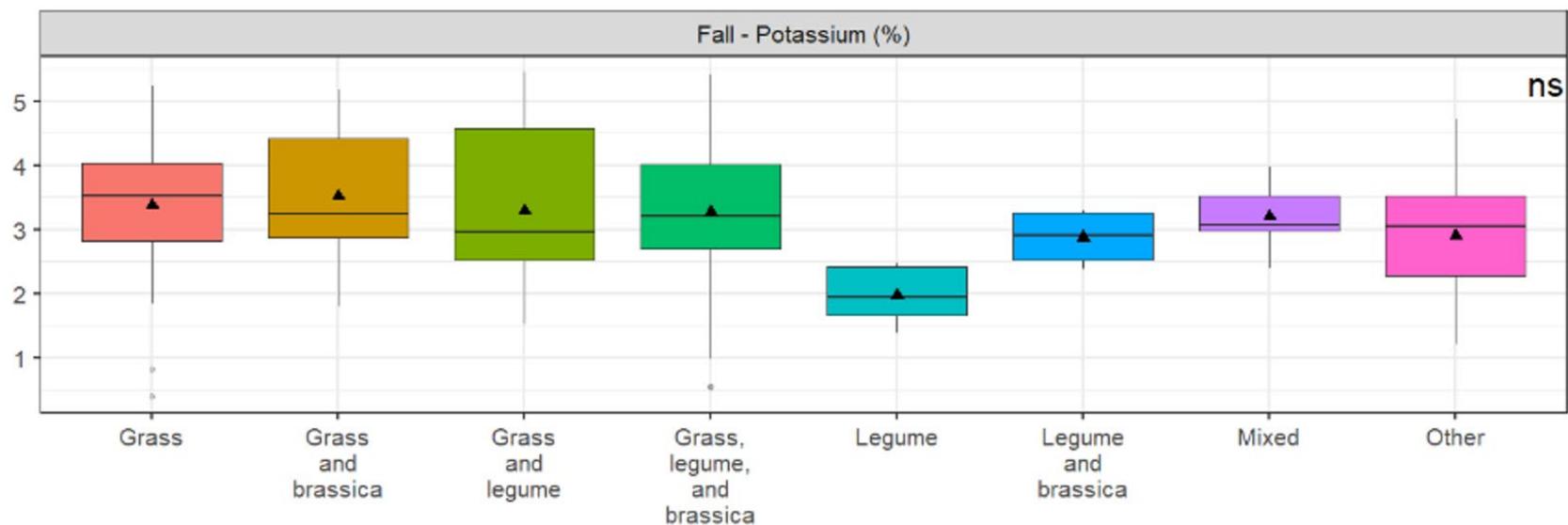
Residual Plant Phosphorus Comparison for Fall 23/Spring 24 & Fall 24/Spring 25



	Grass	Grass and brassica	Grass and legume	Grass, legume, and brassica	Legume	Legume and brassica	Mixed	Combined
No Manure Fall P2O5	21.91	21.91	29.57	25.09	5.45	12.68	39.50	25.39
No Manure Spring P2O5	21.11	21.05	24.91	14.84	12.39	12.00	11.14	16.91
Manure Fall P2O5	29.14	30.95	27.34	30.43	19.09		27.00	28.00
Manure Spring P2O5	25.70	30.66	27.48	23.20	37.64		18.39	24.82



Fall Average Potassium by Cover Crop

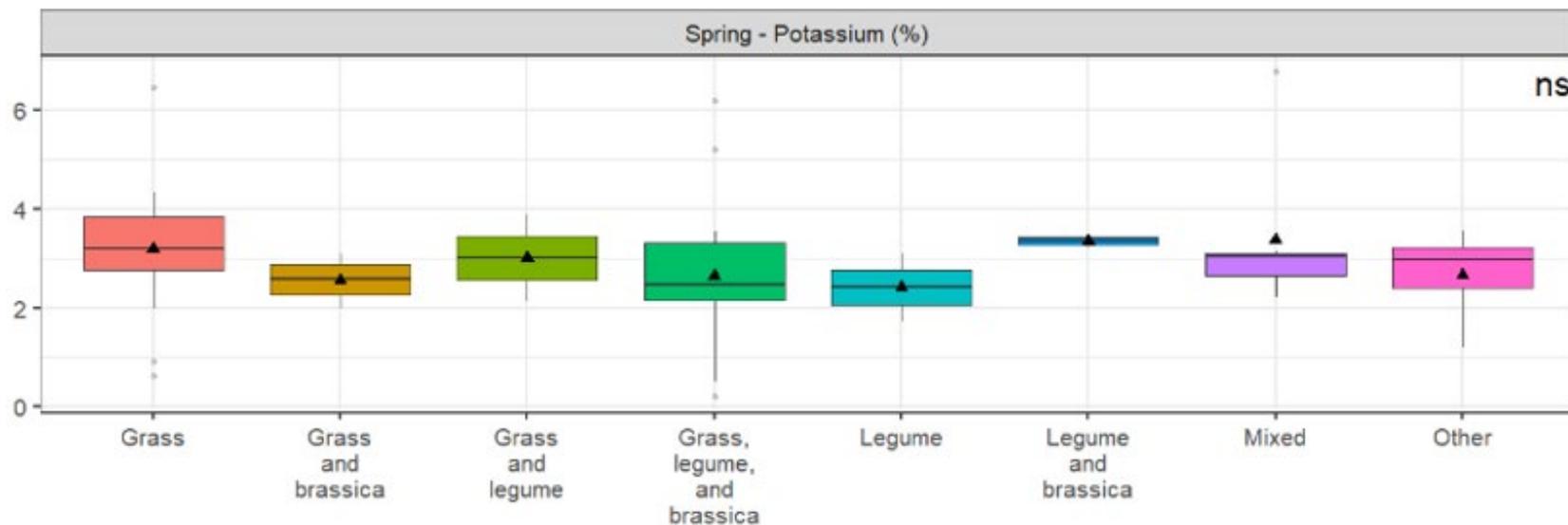


K %	3.38	3.51	3.29	3.27	1.98	2.88	3.21	2.90
Biomass	0.88	1.43	1.59	1.37	1.30	1.27	1.44	2.42
K2O lbs/A	71.67	120.95	126.05	107.95	62.02	88.13	111.38	169.11
Number	40	12	13	53	5	4	7	14

Biomass measured in tons per acre
Other category contains unspecified cover crops



Spring Average Potassium by Cover Crop



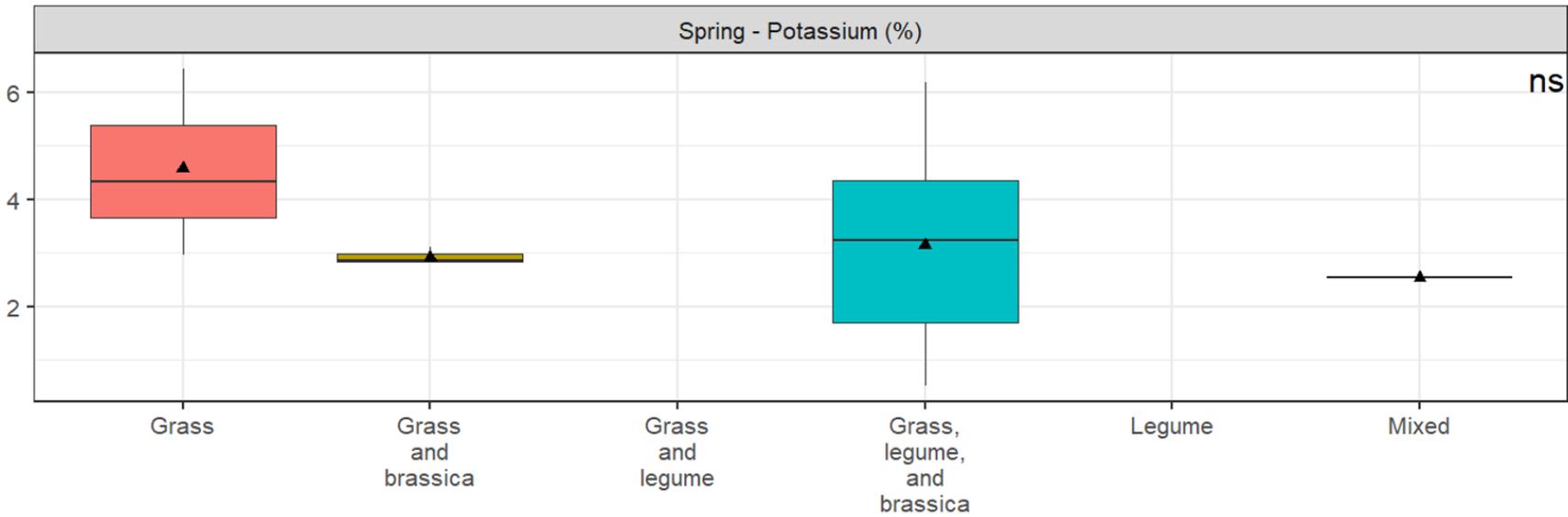
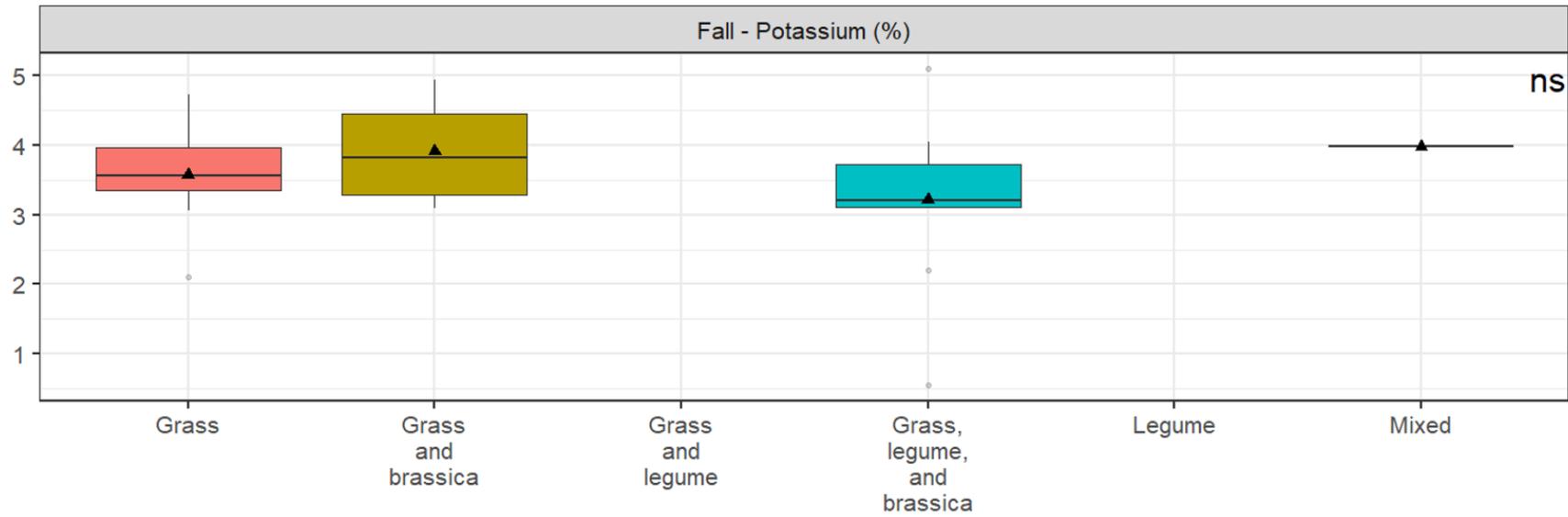
K %	3.18	2.56	3.01	2.65	2.42	3.35	3.37	2.67
Biomass	1.28	1.86	0.93	1.04	1.35	1.25	0.92	0.55
K ₂ O lbs/A	98.08	114.74	67.45	66.41	78.72	100.90	74.71	35.38
Number	22	8	3	16	2	2	7	4

Biomass measured in tons per acre

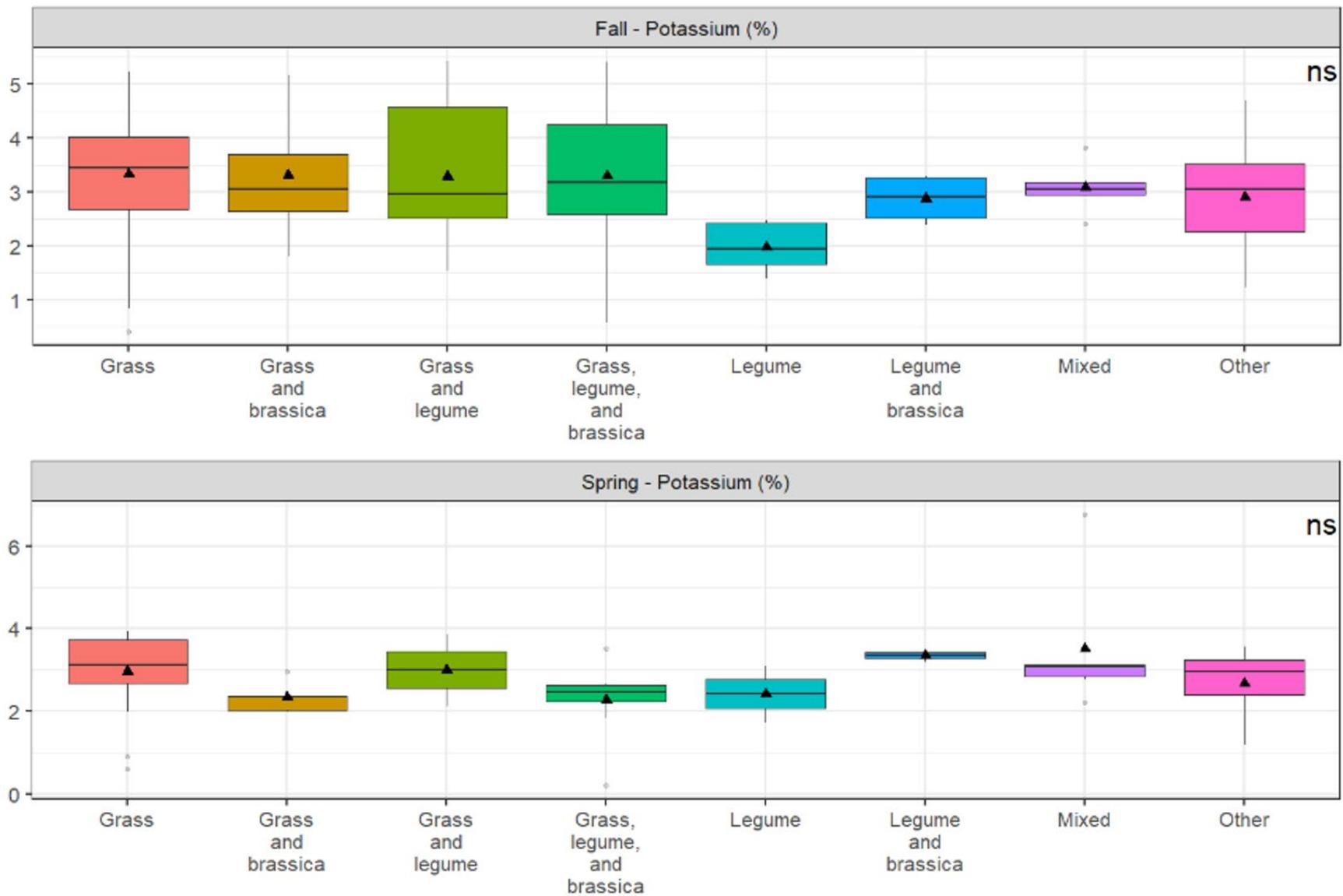
Other category contains unspecified cover crops



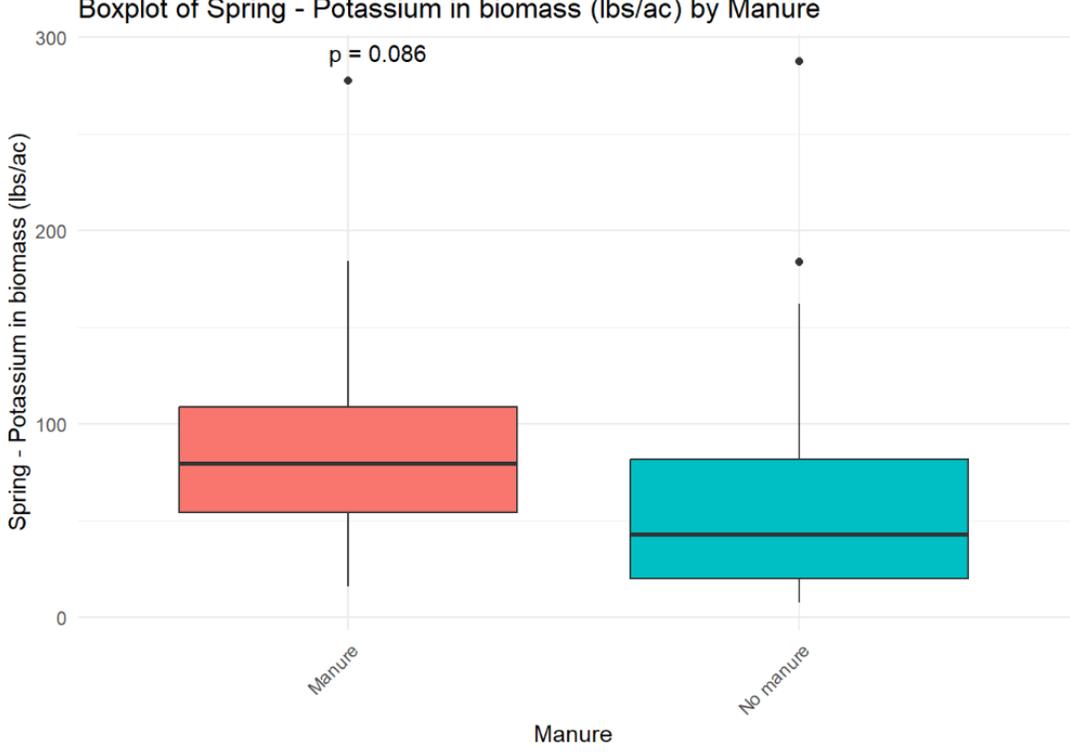
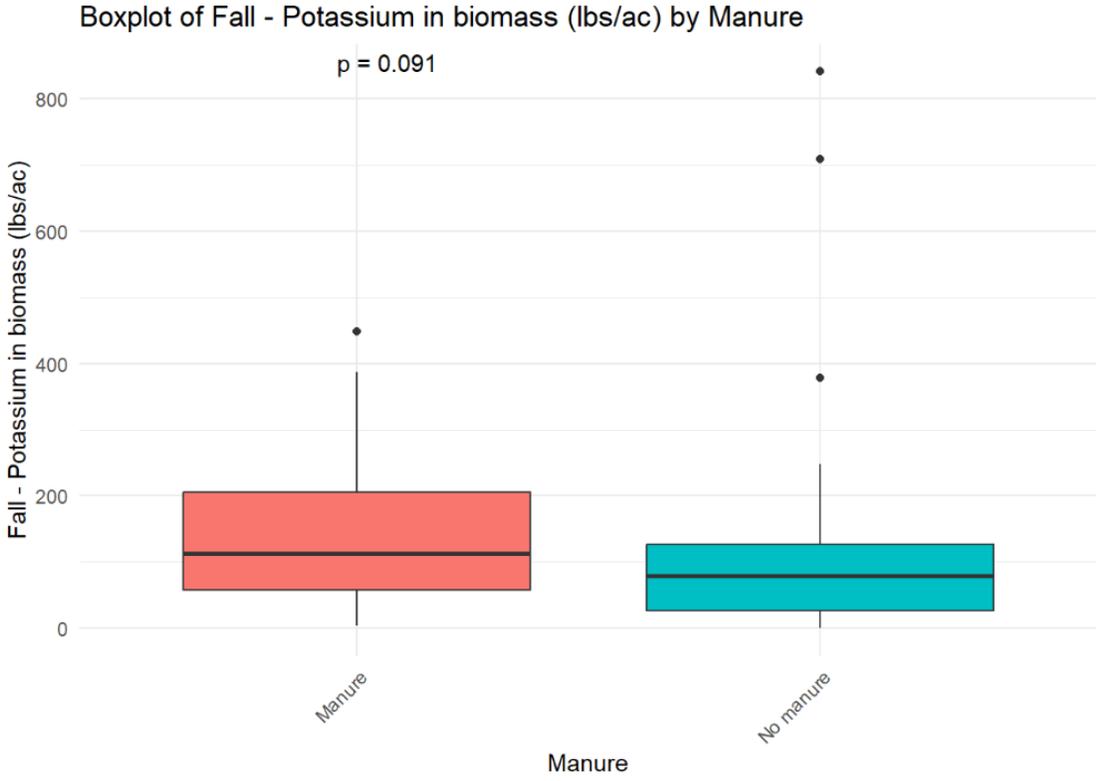
Northern Region % K by Cover Crop



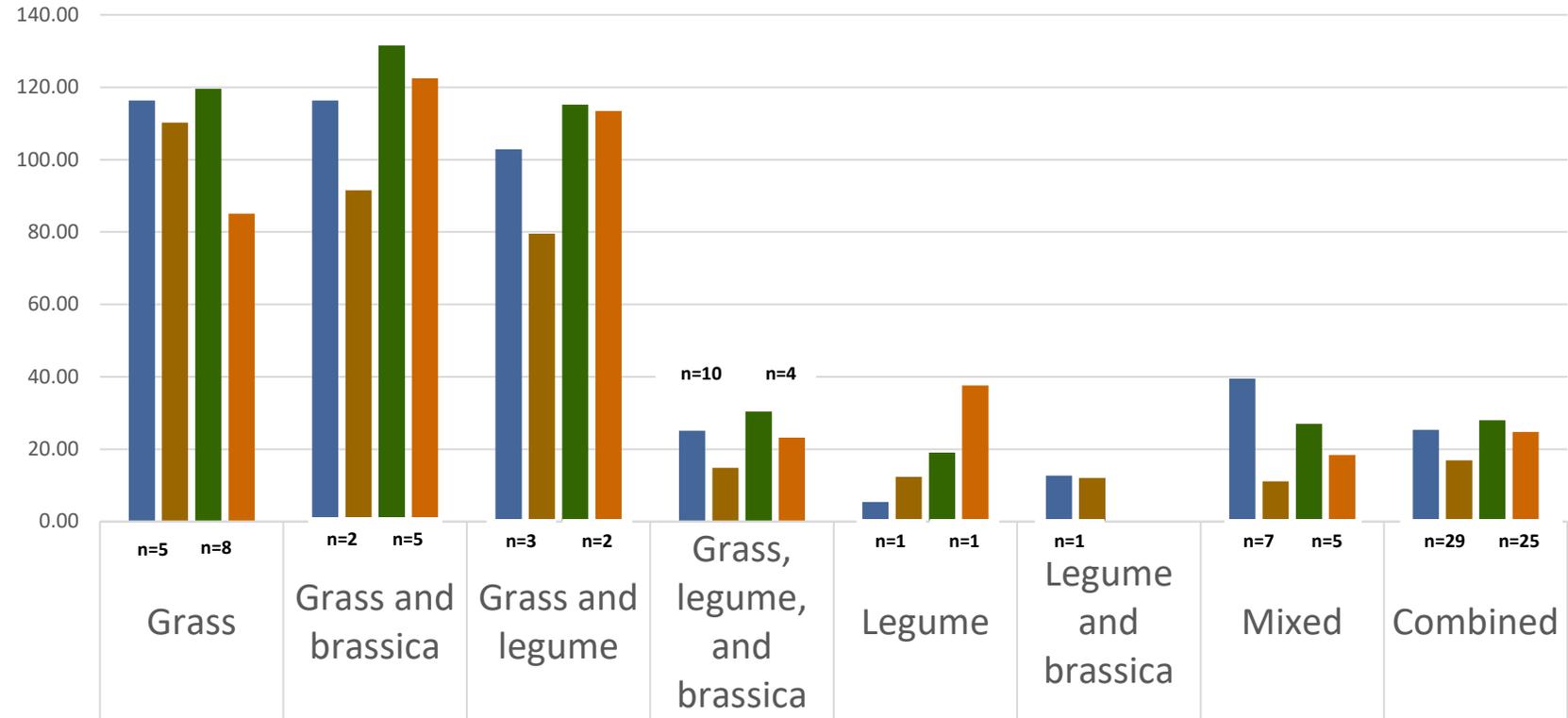
Southern Region % K by Cover Crop



Manured Cover Crops and K Uptake



Residual Plant Potassium Comparison for Fall 23/Spring 24 & Fall 24/Spring 25



■ No Manure Fall K2O	116.31	116.31	102.87	25.09	5.45	12.68	39.50	25.39
■ No Manure Spring K2O	110.25	91.51	79.52	14.84	12.39	12.00	11.14	16.91
■ Manure Fall K2O	119.57	131.54	115.17	30.43	19.09		27.00	28.00
■ Manure Spring K2O	85.12	122.48	113.47	23.20	37.64		18.39	24.82



Green County Results (2023-2025)

	Height	Tons	Nitrogen (N/A)	Phosphorus (P2O5/A)	Potassium (K2O/A)	Value
Multispecies						
Fall (n=6)	20 inches 6-28	2.63 1-61	97.41 27.8-333.06	46.77 0.3-0.55	176.08 55.66-549.73	\$162.96
Spring (n=3)	13.5 inches 9-18	1.12 0.7-1.85	72.95 34.3-138.75	21.72 0.37-0.46	84.38 46.72-158.70	\$94.69
Legume						
Fall (n=2)	10.5 inches	1.5	82.8	15.0	54.94	\$85.20
Spring (n=1)	12 inches	2.2	162.38	37.64	172.36	\$197.39
Rye						
Fall (n=1)	3 inches	0.1	6.66	2.77	7.49	\$9.12
Spring (n=1)	12 inches	2.2	103.84	47	156.92	\$160.02
Rye & Legume						
Fall (n=1)	11 inches	0.6	39.36	10.91	36.87	\$47.23
Spring (n=1)	18 inches	2	140.40	31.82	106.02	\$153.82

- Prices determined using \$0.65/lb nitrogen, \$0.70/lb phosphorus, & \$0.38/lb potassium
- To get actual phosphorus & potassium, multiply P2O5 by .44 & K2O by .82



Cereal Rye Nutrient Release Study

- Planned for Marshfield Ag Research Station
- Samples taken at 0, 15, 30, 45, and 60 days
- 3 litter bags per sampling date
- Measurements:
 - ✓ Cover Crop Biomass (tons/acre)
 - ✓ Cover Crop Tissue Nutrient (P, K, S, C:N)
 - ✓ Soil Analysis for P, K, & S under bag and bare soil



Cover Crops & Forage



2025 Participant
Harvested 10/1/2025
Multispecies mix





Be cautious on herbicide rotational restriction

- Always read, follow, and understand the herbicide label. The label is the law.
- Rotation length is often dependent upon herbicide application rate, tillage, soil type, and yearly rainfall.
- Some herbicide rotations do not consider frozen soils to count towards the minimum rotation interval; consult the label to clarify this information.

Herbicide Rotational Restrictions FOR COVER AND FORAGE CROPPING SYSTEMS



Maximum Rotational Restriction Intervals for Labeled Herbicides in Wisconsin Table

Herbicide-Trade Name	Bioassay Required or Recommended	Cover Crop Language	Common WI Crops			Small Grains / Grasses					Brassicas			Legumes				Maximum Rotation	
			Corn (field & silage)	Soybean	Alfalfa	Wheat	Oats	Winter Rye	Winter Triticale	Barley	Annual Ryegrass	Radish	Turnips	Rapeseed	Clover	Vetch	Field Peas		Cowpea
Fierce XLT Soybean	--	--	10	0	18	4	30	18	30	18	30	30	30	30	18	30	18	30	30
FirstRate	Yes	--	9	0	9	4	9	18	18	12	18	18	18	18	18	18	9	9	30
FirstWatch 84 WDG	Yes	--	9	0	9	4	9	18	18	12	18	18	18	18	18	18	9	9	30
Flexstar	Yes	Yes	10	0	18	4	4	4	4	4	18	18	18	18	18	18	4	12	18

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Fall 2022 through 2025

	Height (in.)	DM Tons	RFQ	CP	NDFd30	MPT
Multispecies (n=95)	21* 0-27	1.51* 0.10-6.10	184.96 37.63-384.90	18.79 5.16-32.53	59.61 21.39-85.23	3086 268-4111
Single species (n=45)	8.07 0-30	0.91 0.03-2.50	185.65 27.62-349.64	22.01* 8.13-33.16	65.42* 38.07-85.65	3020 0-4038

Spring 2024 & 2025

	Height (in.)	DM Tons	RFQ	CP	NDFd30	MPT
Multispecies (n=38)	16.11 1-35	1.18 0.10-4.10	181.46 27.44-275.88	18.88 8.64-31.15	69.04 36.64-85.36	3257 1255-4140
Single species (n=22)	16.11 5-45	1.22 0.10-4.20	190.55 99.88-314.44	19.71 10.26-29.83	71.94 49.37-82.89	3295 2209-3799

* Significantly different

RFQ (Relative Forage Quality) – index measuring forage quality

CP – Crude Protein Percent of Dry Matter

NDFd30 (Neutral Detergent Fiber 30 hours) – percent of fiber that is digested by microbes after 30 hours

MPT (Milk per Ton) – index measuring forage quality



Fall 2022 through 2025

	Height (in.)	DM Tons	RFQ	CP	NDFd30	MPT
Grass (n=43)	7.76 0-39	0.88 0.03-.50	180.43 27.62-349.64	23.12 8.13-33.60	67.19 38.07-85.69	2982 0-4111
Grass and Brassica (n=16)	19.05 3-40	1.43 0.20-3.20	208.09 107.43-340.57	18.51 8.97-24.62	62.05 41.64-74.71	3243 2276-4040
Grass and Legume (n=14)	23.4 0-66	1.59 0.40-5.20	173.82 107.43-340.57	20.72 8.93-32.53	55.30 21.39-72.33	3028 2134-3725
Grass, Legume, & Brassica (n=44)	20.01 0-50	1.37 0.10-3.20	186.59 37.63-384.90	17.78 5.16-31.58	59.75 29.75-85.23	3061 268-3971
Legume (n=5)	10 5-10	1.30 0.32-2.42	200.25 122.98-313.80	20.16 15.74-24.79	54.21 42.78-70.81	3265 2721-4028
Legume and Brassica (n=4)	21.33 10-30	1.27 0.22-2.10	182.19 158.42-252.30	19.78 15.85-28.54	53.69 41.11-65.24	2986 2793-3341
Mixes (greater than 3) (n=7)	21.83 14-30	1.44 0.90-2.50	180.35 132.00-249.65	18.52 14.98-24.68	60.04 42.87-67.63	3131 2802-3405

RFQ (Relative Forage Quality) – index measuring forage quality

CP – Crude Protein Percent of Dry Matter

NDFd30 (Neutral Detergent Fiber 30 hours) – percent of fiber that is digested by microbes after 30 hours

MPT (Milk per Ton) – index measuring forage quality



Spring 2024 & 2025

	Height (in.)	DM Tons	RFQ	CP	NDFd30	MPT
Grass (n=23)	18.83 5-43	1.28 0.10-4.20	188.31 99.88-314.84	19.5 10.26-29.83	74.62 60.62-83.2	3318 2209-3867
Grass and Brassica (n=8)	16.33 10-25	1.86 1.20-4.10	168.76 143.19-213.48	15.14 10.65-18.70	66.59 48.10-78.40	3149 2832-3780
Grass and Legume (n=2)	N/A	0.93 0.10-2.40	177.45 165.31-189.28	29.96 28.76-31.15	78.39	3356 3136-3595
Grass, Legume, & Brassica (n=10)	15.20 1-35	1.04 0.23-3.40	179.79 27.44-269.56	19.97 8.64-23.94	65.93 36.64-85.36	3185 1255-4140
Legume (n=2)	12	1.35 0.40-2.30	192.09	23.41	58.51	3281
Legume and Brassica (n=2)	N/A	1.25 0.60-1.90	180.43	19.15	70.81	3384
Mixes (greater than 3) (n=6)	13.5 10.5-18	0.93 0.50-1.85	185.5 104.53-254.27	20.75 15.49-23.93	70.18 49.37-84.17	3484 3236-3810

RFQ (Relative Forage Quality) – index measuring forage quality

CP – Crude Protein Percent of Dry Matter

NDFd30 (Neutral Detergent Fiber 30 hours) – percent of fiber that is digested by microbes after 30 hours

MPT (Milk per Ton) – index measuring forage quality



Green County Results (2023-2025)

	Height	Tons	Crude Protein	NDFd30	RFQ	MPT
Multispecies						
Fall (n=6)	20 inches 6-28	2.63 1-61	14.92 10.03-18.71	61.55 47.07-77.01	170.22 96.38-261.75	3088 2538-3737
Spring (n=3)	13.5 inches 9-18	1.12 0.7-1.85	20.54 18.8-22.27	72.3 70.39-74.21	188.91 173.15-204.67	3275 3236-3315
Legume						
Fall (n=2)	10.5 inches	1.5	18.43	56.80	228.8	3509
Spring (n=1)	12 inches	2.2	23.41	58.51	192.51	3281
Rye						
Fall (n=1)	3 inches	0.1	22.26	68.55	224.2	4038
Spring (n=1)	12 inches	2.2	14.49	58.56	206.58	3671
Rye & Legume						
Fall (n=1)	11 inches	0.6	22.22	68.55	171.05	3321
Spring (n=1)	18 inches	2	21.19	81.35	202.51	3760





Wisconsin Cover Crop Data Network Dashboard

On-farm data at your fingertips.

DATA DASHBOARD

Explore our Visualized
Data Tools and Maps to
see Wisconsin farms
using cover crops and dig
into their results.

Cover Crop Scenario Tool

Explore cover crop
outcome scenarios in
different locations and
systems based on five
years worth of data.

Cover Crops In Your Neighborhood

See maps of where data
has been collected and
click to explore results.

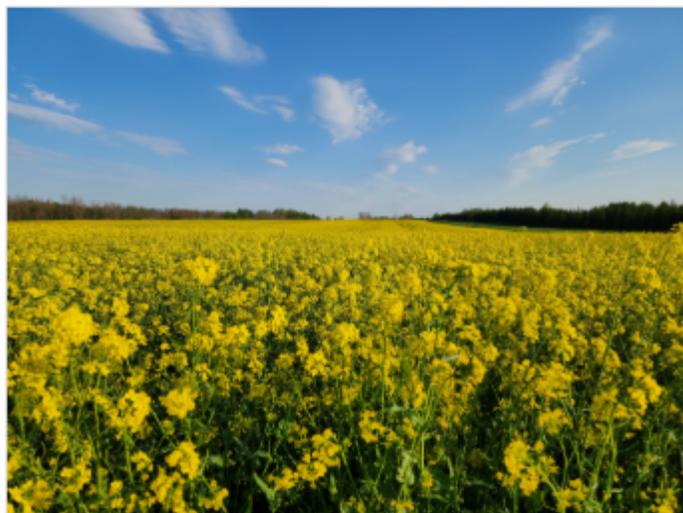


<https://www.michaelfields.org/covercrops>



Welcome

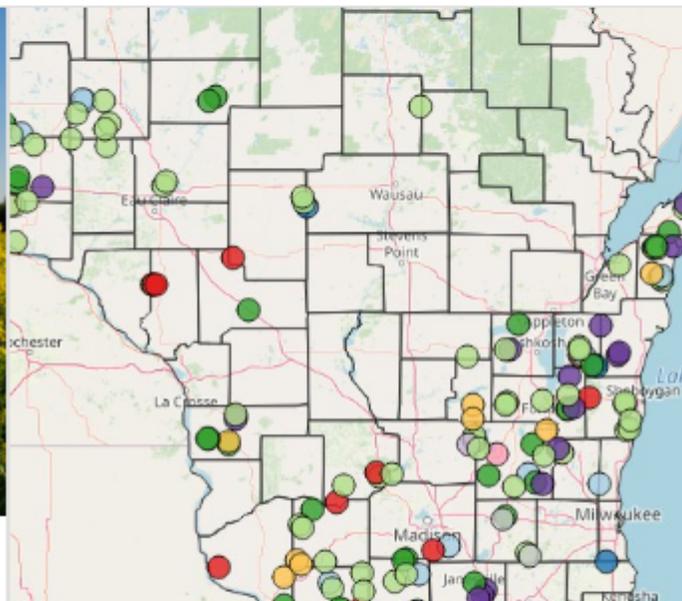
Since 2020 farmers around Wisconsin have shared cover crop practices and samples to help create a shareable database of real world cover crop results. Click the map or graph images to explore the data, or the scenario tool to see farms grouped by their cover cropping goals.



Cover crop scenarios

On-farm data by farmers, for farmers.
Explore how cover crops are being used
by farmers around Wisconsin.

[Go to the scenarios](#)



Map of participating citizen science farmers

Do you see your dot? Click each location
for more information on cover cropping
practices.

[Go to the map](#)





Cover crop results. By farmers, for farmers.

These cover crop scenarios have been created from results produced on working farms around the state. To view the results achieved with cover crops, select a cover crop goal under the Scenario dropdown. Then select the cover crop goal that best represents the conditions you are interested in. The list of "farm card" results will be sorted by results most similar to that the farmer may have planted that cover with a different goal in mind.)

Scenarios

Erosion control

- Erosion control
- Nutrient scavenger
- Above ground nitrogen
- Weed suppression
- Fall grazing
- Spring grazing

Filters

Soil texture

Green x

1

Green County, WI



A cover crop of oats, other (grass), buckwheat, soybeans, sorghum-sudan following wheat was drilled on July 14, 2025

Fall sampled biomass was **4.8** tons per acre.

[Farm details](#)

Green County, WI

A cover crop of sorghum-sudan, buckwheat, hairy vetch, sun hemp, sunflower following wheat was drilled on July 3, 2023

Fall sampled biomass was **2.6** tons per acre.

[Farm details](#)

Green County, WI



A cover crop of oats, other (grass), buckwheat, soybeans, sorghum-sudan following wheat was drilled on July 14, 2025

Fall sampled biomass was **4.8** tons per acre.

[Farm details](#)

Field 274

x

Mix w/oats, fxtail millet, open poll. corn, Oct 25



General info:

ID	274
Farmer yrs of cc experience	20
Yrs of covers in field	null
Field acreage	20
Previous cash crop	wheat
Previous crop planting date	September 30, 2024
Cover crops	oats, other (grass), buckwheat, soybeans, sorghum-sudan
Cover crop seeding rate	20 lbs/acre oats, 20 lbs/acre other (grass), lbs/acre buckwheat, lbs/acre soybeans, lbs/acre sorghum-sudan
Cover crop seeding method	drilled
Cover crop seed cost	\$36 per acre
Cover crop planting cost	\$35 per acre
Cover crop planting date	July 14, 2025
Soil conditions at planting	was dry
Dominant soil texture	silty clay loam
Tillage intensity	Conservation, >30% residue remaining
Primary tillage equipment	none
Secondary tillage equipment	none
Termination	plant green, roller-crimper termination

	Fall	Spring
Sampling date	October 13, 2025	Not sampled
Precipitation (in)	Not sampled	Not sampled
Cumulative growing degree days	Not sampled	Not sampled

Forage quality	Fall	Spring
cp	1.87	Not sampled
andf	10.02	Not sampled
undfom30	5.14	Not sampled
ndfd30	47.07	Not sampled
tdn_adf	58.91	Not sampled
...





Welcome

Since 2020 farmers around Wisconsin have been sharing their data to create a shareable database of cover crop scenarios. Explore the data, or the scenarios.



Cover crop scenarios

On-farm data by farmers, for farmers. Explore how cover crops are used by farmers around Wisconsin.

[Go to the scenarios](#)



About this graph

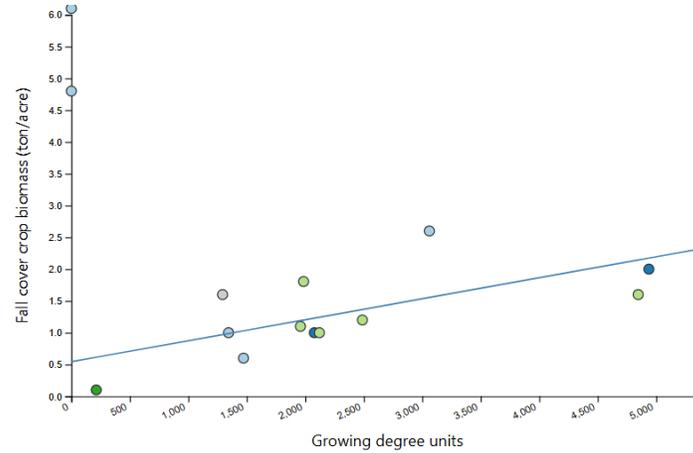
Hover over data points and **i** for more information

Display options

i

Cover crop types

- cereal (winter) rye only
- annual ryegrass only
- legumes
- grasses/cereals
- mix of legumes + grass/cereal + brassica
- mix of legumes + grass/cereal
- mix of legumes + brassica
- mix of grass/cereal + brassica
- other
- not reported



Filters

Cover crop species

All

County

Green

Planting year

All

Soil texture

All

Prior crop

All

Tillage

All

Seeding method

All

Manure applied prior to cover crop

Manure applied post cover crop establishment

Horizontal Axis

Growing degree units

Vertical Axis

Fall biomass

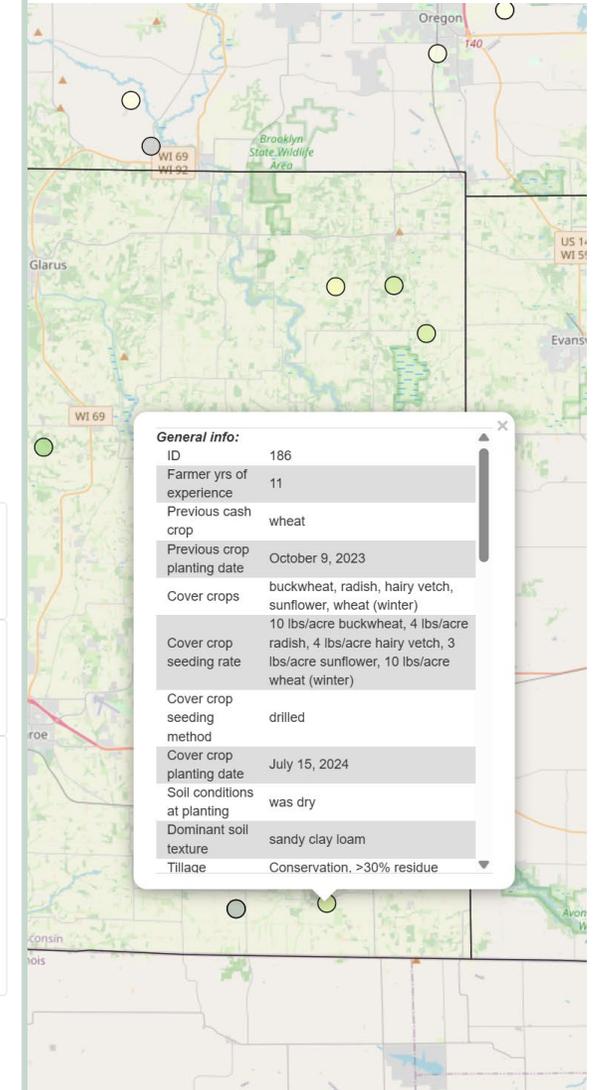
Linear Regression

Add trend line

Linear

Accumulated growing degree units explains 53.8 percent of the variation in cover crop biomass.

$$y = 0.00033x + 0.54409$$



Interested in learning more about the project?



Dan Marzu, Crops & Soils Outreach Specialist
Dan.Marzu@wisc.edu
608-381-6702

<https://www.michaelfields.org/covercrops>



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has been collected and click to explore results.

