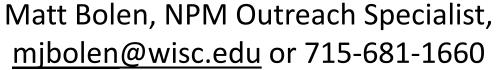
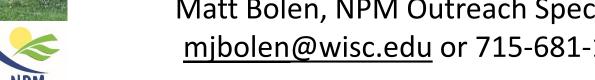
Incorporating Off Farm Wastes in Nutrient Management Planning









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Incorporating Off Farm Wastes in Nutrient Management Planning

- Nutrient Management Plans (regulated under chapter ATCP 50) guide nutrient applications and conservation practices on farms that mechanically apply nutrients to cropland and pasture.
- Nutrient Management Performance Standards (WI chapter NR 151 & USDA NRCS 590) provide direction for manure and fertilizers.
- However, the standards do not provide guidance for application of:
 - Industrial wastes (industrial liquid waste, industrial by-product solids, and industrial sludge regulated under WI chapter NR 214)
 - Municipal sewage sludge (regulated under WI chapter NR 204)
 - Septage (regulated under WI chapter NR 113)
- If the above material listed above is comingled with manure prior to application, then manure application regulations may apply.
- Any application of these materials must be approved and permitted by the Wisconsin Department of Natural Resources.





Limiting Nutrient for Material Application

Nutrient Source	Limiting nutrient				
Manure	Nitrogen & Phosphorus				
	Rate restrictions based on soil test phosphorus and the P Index				
Sewage	Nitrogen based (Using standard mineralization rate unless otherwise specified).				
	Note: While sewage applications are nitrogen based, WPDES permits require				
	phosphorus and potassium sampling. Analytical results should be provided for				
	farmers and nutrient management planners to be included in the nutrient				
	management plan.				
Septage	Nitrogen based, rate restricted to nitrogen crop need				
Industrial	Nitrogen based on TKN unless otherwise specified.				
	Note: While industrial waste landspreading is nitrogen based, WPDES permits				
require phosphorus and potassium sampling. Analytical results should be					
	for farmers and nutrient management planners to be included in the nutrient				
	management plan. Additional slope and application rate restrictions apply.				





Applications restrictions near wells measured in feet

Nutrient Source	rce Community Wells ¹ Non-Community Wells ²		Private Wells ³	Irrigation & Non-Potable Wells	
Manure ⁴	1000	100	50	8	
Sewage	1000 ⁵	250	250	250	
Septage	1000 ⁶	250	250	250 ⁷	
Industrial	1000	250	250		

- 1. Wells for a town, village, city
- 2. Wells that include public places such as schools, restaurants, etc. unless otherwise noted in the table
- 3. Wells for private residences
- 4. Unless manure is treated or deposited by grazing animals
- 5. Includes schools
- 6. Includes schools and healthcare facilities
- 7. Distances to non-potable wells used for irrigation or monitoring may be reduced to 50 ft. if the septage is incorporated or injected and the Department of Natural Resources does not determine that a greater distance to the wells is required to protect the groundwater.





Application restrictions near buildings measured in feet

	Nutrient source	Not incorporated	Incorporated (4 inches)	Injected (4 to 12 inches)
Residence,	Sewage	500	200	200
business, or	Septage	500	$500^2 \text{ or } 200^3$	200
recreation area	Industrial	500	500	500
Residence or	Sewage	250	100	100
business with	Septage	250	$200^2 \text{ or } 100^3$	100
permission	Industrial		2004	200 ⁴
Rural schools	Sewage	1000	1000	500
and health care	Septage	1000	1000	500
facilities	Industrial	None ⁵	None ⁵	None⁵
Distance to	Sewage	50	25	25
property line ¹	Septage	50	25	25
	Industrial			

- 1. Distance may be reduced with written permission from both owners and occupants
- 2. if not lime stabilized but incorporated in 6 hours
- 3. if lime stabilized and incorporated in 6 hours
- 4. sludge must be incorporated and all owners and occupants provide their written consent for the reduced distance
- 5. Unless well is present then follow restrictions for wells





Application restrictions depth to bedrock & ground water

Nutrient Source	Depth to Bedrock	Depth to Watertable
Manure	20 inches on high permeability (P) and rock soils (R)	12 inches on wet (W) soil
Sewage (restricted on high permeable soils)	3 feet	
Septage (restricted on high permeable soils)	3 feet	3 feet
Industrial (Unless groundwater concerns)	3 feet or 18 inches with DNR approval	3 feet or 18 inches with DNR approval







Application restrictions near surface water measured in feet

Manure Applications:

- 1000 feet from lakes and ponds
- 300 feet from rivers and streams
- Allowed with reduced application rate and additional practices implemented

Slope & site for Sewage & Septage Applications	Not incorporated	Incorporated (4 inches)	Injected (4 to 12 inches)
0-6% surface water or wetlands	200	150	100
6-12% surface water or wetlands	Not allowed	150	100
0-6% dry runs or grass waterways	100	50	25
6-12% dry runs or grass waterways	Not allowed	100	50

Industrial wastes

- 200 feet to any surface water including any wetlands
- 100 feet when a vegetative buffer
- 50 feet if incorporated



Additional limitations on above sewage, septage, and industrial waste materials may be imposed if resource concerns are present



Frozen or snow covered ground application restrictions

Nutrient Source	Application Limit
Manure	7000 gallons of liquid manure or no more than 60 pounds P2O5
	Additional restrictions apply based on slope, distance to ground and surface water
Sewage	Not allowed unless no other reasonable disposal method available
	and DNR approval
Septage	Restrict by POWTS category and DNR approval
Industrial	6800 gallons per acre per day not to exceed weekly
	Restricted to <2% slope. >2% needs DNR approval







Use of wood ash to adjust soil pH

WI chapter NR 518 Landspreading of Solid Waste

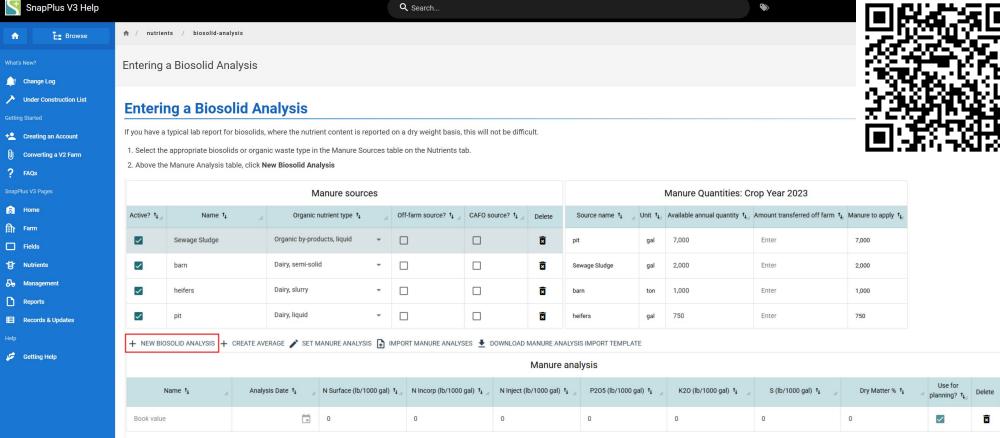
An analysis is required to determine the composition and neutralizing index of ash.

- Limit 15 dry tons per acre per application
- Total cumulative limited to 50 dry tons per acre
- Spreading location restrictions if top dressing:
 - 100 feet of navigable bodies of water
 - 25 feet of intermittent streams, drainages ways, road ditches, surface tile inlet
 - 1000 feet of public water supply
 - 200 feet of private water supply wells
 - 200 feet of residences unless written permission is provided from the residence
 - 25 feet of public roads
 - Can not be spread on frozen ground
 - Not on slopes greater than 6% unless in a soil conservation management plan then can be spread on slopes less than 12%





How to add materials to V3 located on SnapPlus V3 Help Wiki site: https://wiki.snapplus.wisc.edu/nutrients/biosolid-analysis







Incorporating Off Farm Wastes in Nutrient Management Planning: A Summary of Manure, Sewage Sludge, Septage, Industrial Wastes, and Wood Ash Application Restrictions on Wisconsin Farms

Posted on the Extension Crops and Soils Topic Hub

https://cropsandsoils.extension.wisc.edu/articles/incorporating-off-farm-wastes-in-nutrient-management-planning/



Contact: Dan Marzu, NPM Outreach Specialist, Dan.Marzu@wisc.edu or 608-381-6702





Resources

- DATCP, Nutrient Management Program, https://datcp.wi.gov/Pages/Programs_Services/NutrientManagement.aspx
- WI ch NR 113, Servicing Septic or Holding Tanks, Pumping Chambers, Grease Interceptors, Seepage Beds, Seepage Pits, Seepage Trenches, Privies, or Portable Restrooms, https://docs.legis.wisconsin.gov/code/admin_code/nr/100/113
- WI ch NR 204, Domestic Sewage Sludge Management, https://docs.legis.wisconsin.gov/code/admin_code/nr/200/204
- WI ch NR 214, Land Treatment of Industrial Liquid Wastes, By-Product Solids and Sludges, https://docs.legis.wisconsin.gov/code/admin_code/nr/200/214
- WI ch NR 518, Landspreading of Solid Waste, https://docs.legis.wisconsin.gov/code/admin_code/nr/500/518







2025 Update from the Nutrient & Pest Management Program



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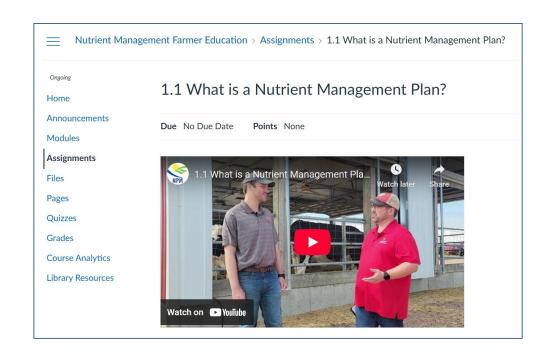


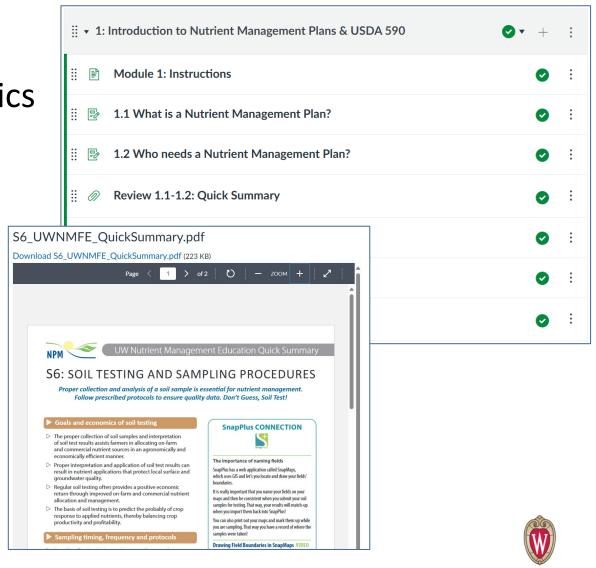
Laura Flandermeyer Statewide Pest Management/PAT laura.flandermeyer@wisc.edu 608-512-8537



NMFE Online Course

- Hosted in Canvas
- 10 modules spanning several topics
- Mixed media content
- Available all year





UNIVERSITY OF WISCONSIN-MADISON



How To Access The Course



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Nutrient Management Announcements

2024 Nutrient Management Update

Review the 2024 nutrient management update.

Nutrient Management Cost-Share Opportunities

Review nutrient management cost-share opportunities.

About

Nutrient management refers to the use of manure and other fertilizers to meet crop nutrient needs, while reducing the potential for them to run off fields to lakes, streams and groundwater. It helps assure that crops get the right amount of nutrients -- nitrogen, phosphorus and potassium, often referred to as N-P-K -- at the right time and place. This benefits the farmer by improving crop yields and reducing costs, and benefits the environment by keeping nutrients on fields and preventing them from running off to streams or down to groundwater.

Nutrient management planning requires testing both soil and manure to learn what the nutrient content is. Nutrient management plans must meet requirements:

- In ATCP 50, which is a state regulation that lays out how farmers meet standards, administered by the Wisconsin Department of Agriculture, Trade and Consumer Protection
- In NR 151, a state regulation that sets performance standards, enforced by the Wisconsin Department of Natural Resources
- Wisconsin NRCS 590 Standard, set by the USDA Natural Resources Conservation Service and state conservation agencies, serving as the basis for a nutrient management plan

In Wisconsin, all farms should have a nutrient management plan. Some farms will follow a nutrient management plan if they:

- · Participate in the Farmland Preservation Program
- · Are offered cost-sharing to develop a plan
- · Accept cost-sharing for manure storage systems
- Are large livestock operations that require a Wisconsin Pollutant Discharge Elimination System permit
- Are regulated under a local ordinance for manure storage or livestock siting

More than a third of Wisconsin's 9 million cropland acres are under nutrient management plans. DATCP provides financial help and training to farmers, agronomist and agriculture educators. The University of Wisconsin-Madison has developed free software called SnapPlus to help in developing plans. Farmers can work with an agronomist to write nutrient management plans or write their own if they successfully complete training that meets the standards

Runoff Risk Advisory Forecast



Resources

ATCP 50 webpage

Nutrient Management Brochure

Manure Management Advisory System/590 Maps

Nutrient Management Farmer Education Grants

Understanding Manure

Irrigation (UW-Extension)

BLWR Trainings for Counties and Local Governments

Land and Water Conservation
Directory by county

Historic Nutrient Management

NUTRIENT MANAGEMENT TRAININGS

WISCONSIN'S

Training Resources

Self-Paced Online Nutrient Management Farmer Education Class Now Available!

Do you have a UW-Madison Net ID? If yes, access the course here: https://canvas.wisc.edu/courses/430912.

If no, please click here to fill out a survey to request a UW-Madison Net
ID: https://uwmadison.co1.qualtrics.com/jfe/form/SV_bOb5GeLbQej7qKO.

Once you have a UW-Madison Net ID, you can use the link above to access the course.





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 scenario



Map of participating citizen science farmers

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

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
- Now taking registrations to participate in the 6th annual survey



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

For more information contact:
Dan Marzu, NPM Outreach Specialist

<u>Dan.Marzu@wisc.edu</u> or 608-381-6702



On-farm cover crop data by farmers, for farmers

nes the goal of planting cover crops is to

e list below are farms which have the highest

ne high biomass will slow water flow over a field

Select your cover crop goal under the Scenario dropdown. Then select the county or counties and soil texture(s) that represent the conditions you are most interested in. View participating farms with operations which meet the goals and conditions you have selected. Click on the farm card to see additional data about that operation, including agronomic information as well as biomass, forage, and nutrient analysis of the cover crop.

Scenarios

Select a scenario from the dropdown to show a list of participating farmers who have operations with results which meet the goal of the scenario. Note the farmers may not be planting covers for the selected scenario, but their results would meet the goals of the scenario.

Erosion control

Nutrient scavenger Above ground nitrogen

Weed suppression Fall grazing

Spring grazing

Explore the Cover Crop Scenarios



Soil texture County

Dodge County, WI



This farm planted buckwheat, radish, hairy vetch, red clover, sunflower following wheat. The cover crop was drilled on July 29, 2024. The soil had adequate moisture at planting.

Fall sampled biomass was **3.3** tons per acre.

Farm details

Field 167

Mix sampled October 15, 2024



General info:

ID	167
Farmer yrs of cc experience	4
Yrs of covers in field	null
Field acreage	12
Previous cash crop	wheat
Previous crop planting date	October 9, 2023
Cover crops	buckwheat, radish, hairy vetch, red clover, sunflower
Cover crop seeding rate	2 lbs/acre buckwheat, 2 lbs/acre radish, 1 lbs/acre hairy vetch, 1 lbs/acre red clover, 1 lbs/acre sunflower
Cover crop seeding method	drilled
Cover crop seed cost	\$35 per acre
Cover crop planting cost	\$20 per acre
Cover crop planting date	July 29, 2024
Soil conditions at planting	had adequate moisture
Dominant soil texture	silty clay loam
Tillage intensity	Conservation, >30% residue remaining
Primary tillage equipment	none
Secondary tillage equipment	none
Termination	plant green, herbicide termination

	Fall	Spring
Sampling date	October 22, 2024	May 15, 2025
Precipitation (in)	6.88	Not sampled
Cumulative growing degree days	2032.35	Not sampled

orage quality	Fall	Spring
р	12.42	19.95
ndf	34.18	36.98
ındfom30	Not sampled	12.45
dfd30	Not sampled	63.19
dn_adf	67.27	65.18
nilkton	Not sampled	3407
fq	Not sampled	208.65
ındfom240	Not sampled	10.37
lry_matter	17.94	20.34
fv	180.89	163.71

Nutrient	Fall	Spring
CC Biomass (tons/acre)	3.3	0.5
N %	1.87	3.59
P %	0.3	0.38
C %	0.3	0.38
K %	1.65	2.81
Ca %	1.77	0.84
Mg %	0.7	0.33
S %	0.37	0.24
C to N Ratio	22.7	14
N lbs/acre	124.05	38.07
P lbs/acre	45.48	9.22
C lbs/acre	2815.96	532.91
K lbs/acre	131.08	35.74
Ca lbs/acre	117.17	8.9
Mg lbs/acre	46.34	3.5
S lbs/acre	24.49	2.54
Height of stand (in)	45	Not sampled







SnapPlus Version 3 Quick Guide

SnapPlus Version 3



Wisconsin's Nutrient Management Software

Contents

Quick Guide 1
How-To Videos
Website and Resources
Permissions 4
Fields Page
Getting Started Using Maps 6
Layers Panel & Map Legend 6
Map Editing & Shapefiles
Map Layers 10
Entering Manure Information
Explanations and Tips
Tillage Information
Management Page: Cropping Features 21
Nutrient Application Planner (NAP) 24
The Template Builder
Excess N Application Info
Restriction Flags
Pastures
About NR151 Silurian Standards
Records and Updates
Glossary
NM Checklist and Tips 36
Runoff Risk Advisory Forecast 40

SnapPlus Tip: SnapPlus auto-fills checkboxes on the NM5 590 Checklist Report based on NMP data and your answers to questions when generating the report. It is your responsibility to review and sign the checklist. See the NM Checklist and Tips section on pages 36-39 for more information.



Sponsored by Division of Extension Nutrient and Pest Management Program Department of Soil and

Quick Guide

9 Steps to Develop a **Nutrient Management Plan**

- 1. Go to v3.snapplus.wisc.edu and create an account.
- 2. Enter your account and contact information. Business information is used to auto-fill the NM5 590 Checklist.
- 3. Click ADD FARM and + CREATE FARM MANUALLY. Enter a farm name in the pop-up and
- 4. Import your soil tests on the overview tab of the FIELDS page.
- 5. Draw your fields and enter field data from the maps tab of the FIELDS page.
- 6. Enter your nutrient sources, storage, and all types of spreaders in the NUTRIENTS page.
- 7. Enter cropping and nutrient application information in the MANAGEMENT page
- 8. Run the reports from the REPORTS page. Review and correct problems. Suggested reports include NM1, NM2, NM3, NM4, and NM5.
- 9. Archive the completed version of your plan from the Archives tab of the FARM page.

5 Steps to Update a Nutrient Management Plan with SnapPlus

- 1. Update last year's cropping data, fertilizer, and manure applications for each field in the **RECORDS AND UPDATES** page.
- 2. Add any new fields, soil tests, crops, animal numbers, nutrient sources, storage systems, or spreader metrics in the FARM, FIELDS, NUTRIENTS, and MANAGEMENT pages.
- 3. Update crop and nutrient application information for the current year and future year for each field.
- 4. Run the reports from the REPORTS page. Review and correct errors. Suggested reports include NM1, NM2, NM3, NM4, and NM5,

Map Layers

Map Legend: Colors and Symbols Explanations

This publication explains the symbols used in maps for nutrient management planning. Symbols for 590 farms and WPDES permitted farms (CAFOs) are included. 590 farms do not need to follow rules for CAFOs (NR 243).

Spreading Layers

Manure Prohibited (Red fill with double outline)



Areas where manure should not be spread are shown in red on the map. These layers combine all the prohibited areas on a field into one summary layer to make it easy to see where manure can

Manure prohibited layers show either year round

When is winter? Winter conditions are defined as having frozen or snow-covered soils that prevent effective incorporation at the time of application.

Farm Lavers





Field Boundaries (Green outline with tan halo)

Active field (Solid line)

Inactive field (Dashed line)

Field boundaries can be either drawn in SnapPlus or

Field Drainage



Tile inlets

Tile outlets

Tile drainage removes excess water from soil below the surface, so it is important to document where tile lines, inlets, and outlets are located. In SnapPlus, you can create multiple tile lines in one edit session. Do not forget to add the tile inlets (if known) and outlets as point features.

✓ Unincorporated liquid manure applications are limited to 12,000 gallons per acre.

Headland Stacks



ocations where solid manure is temporarily stockpiled in a crop field or an unimproved surface in a windrow or

Manure Prohibited Drawn Areas



Planner identified manure should not be applied. These are locations where SnapPlus has not

automatically created a prohibition.

Exclusion Areas





Grass filter area / Vegetated buffer

Exclusion areas are drawn by the planner on the map. They represent uncropped areas of a field that should not be included in the field acres for nutrient

✓ Nutrients cannot be applied in exclusion areas

Direct Conduits to Groundwater



Farm Defined Conduits (Various symbols with blue background)

Farm defined conduits are locations



added by the planner and can be drawn as a point or an area. Once drawn, SnapPlus automatically creates the appropriate nutrient prohibition buffer (a blue circle) around all features that would provide a pathway for

✓ All nutrients prohibited except for corn starter

- √ No manure within 50 ft (590) or 100 ft (NR 243) year-round.
- √ (NR 243) No manure within 600 ft in winter on slopes 6-9%.
- A private drinking well is a private well for a A public well is a well that serves at least 25
- people for at least 6 months per year. Also known as non-community potable water wells, examples include schools, restaurants, and churches
- An irrigation well is used only for irrigation, never for
 - ✓ No fertilizer application within 8 ft.
- Fractured bedrock is bedrock that has cracks or ractures extending to the ground's surface
- A sinkhole is a depression in the ground that has no natural external surface drainage so that rainwater or runoff entering the sinkhole typically drains to
- A non-metallic mine is typically a gravel pit or
- **Other** types of conduits that aren't captured in the above categories, such as other karst features or depressional groundwater recharge areas

Conduit areas



Locations that cover more area than a point feature can represent. Conduit as points. Conduit areas will be treated as an exclusion area and will be removed

✓ Nutrients cannot be applied in conduit areas.

County Defined Conduits (Various symbols with gray background)

County defined conduits are mapped by some counties, mainly in the eastern part of the state. These conduits are subject to the same rules as planner drawn conduits.

- ✓ No fertilizer (except corn starter) within 50 ft
- ✓ No manure within 100 ft year-round and within 300



Karst features mapped by the county in Brown Door Kewaunes and Manitowoc counties. They are considered direct conduits











Setbacks around direct conduits to groundwater where nutrients should not be applied. These are automatically created by SnapPlus, You can view three different setback layers: fertilizer prohibited buffers, manure prohibited

buffers, and winter manure prohibited buffers.



A fourth type of conduit buffer is included that shows locations where spreading is prohibited unless using treated manure. These are areas around municipal wells

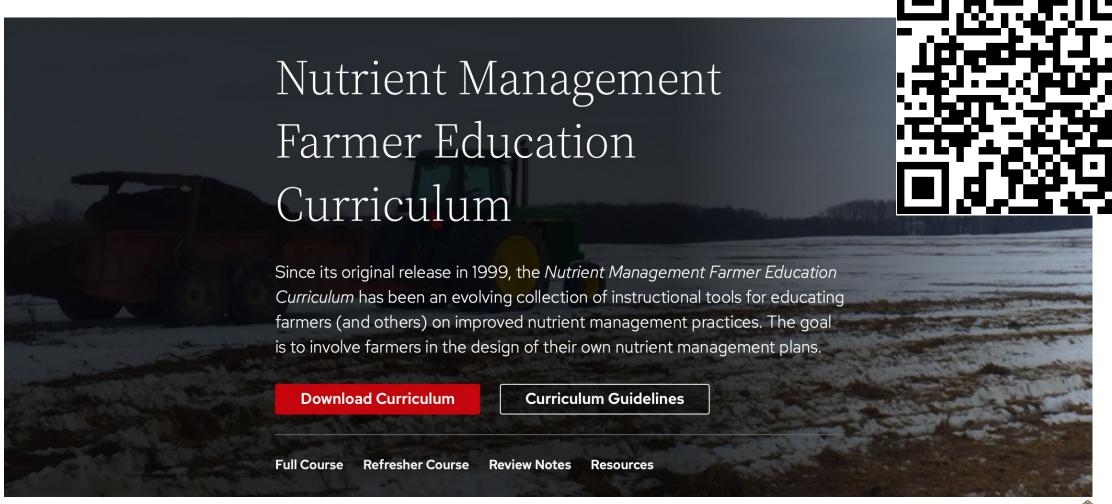
- ✓ Manure and other organic amendments may not be spread within 1,000 ft unless treated to remove pathogens.
- ✓ Commercial nitrogen fertilizer is prohibited in the late summer or fall except on fall seeded crops or in blends with other fertilizers, max. application rate is





Environmental Sciences

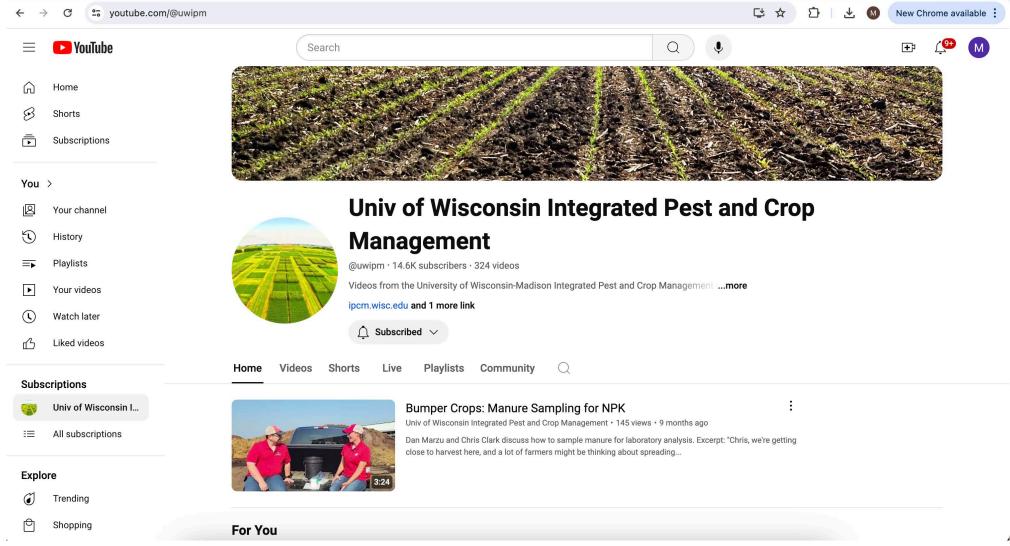
Nutrient Management Farmer Education Curriculum







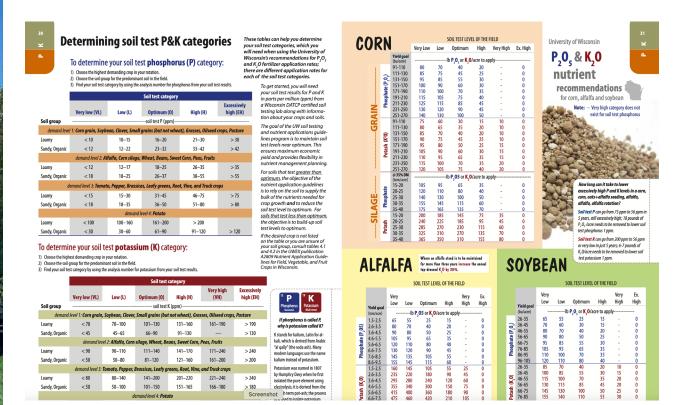
Bumper Crop Videos







FastFacts Welcome to the new **Nutrient Management Fast Facts magazine!** The Nutrient and Pest Management (NPM) Program has produced many stand alone publications to help learn the basics of what is NPM involved in writing and implementing a nutrient management plan. This new format combines many of these existing publications with new materials to provide a comprehensive reference guide! REGIONAL Chris Clark, Northeast NUTRIENT MANAGEMENT 715-850-2888, clark3@wisc.edu Michael Geissinger, Northwest Fast Facts magazine 608-640-0650, michael.geissinger@wisc.edu Dan Marzu, Northcentral 608-381-6702, dan.marzu@wisc.edu Jordan Kampa, Southeast **NUTRIENT MANAGEMENT** 414-399-0373, jordan.kampa@wisc.edu Mgmt What is a farm nutrient management plan? Landon Baumgartner, Southwest Benefits of a nutrient management plan 608-228-5125, landon.baumgartner@wisc.edu Nutrient management on pastures What is the Wisconsin Phosphorus Index? **UW-MADISON CAMPUS** Tolerable soil loss scenarios Daniel H. Smith, Program Manager 608-219-5170, dhsmith@wisc.edu SOILS Soils Soil testing basics This publication is available from the Soil sampling for SnapPlus and DATCP certified labs NPM Program. 12 Soil pH Contact us at: 13 Crop Nutrients 101 npm@extension.wisc.edu **NITROGEN** website (ipcm.wisc.edu) Nitrogen Nitrogen cycle for general cropping systems University of Wisconsin nitrogen guidelines for corn Nitrogen credits for alfalfa and soybean University of Wisconsin nitrogen guidelines for wheat Soil nitrate tests for corn PHOSPHORUS AND POTASSIUM Phosphorus cycle for general cropping systems Potassium cycle for general cropping systems Determining soil test P & K categories University of Wisconsin P & K nutrient recommendations MANURE State funding for staff resources and printing was Manure Credit what you spread provided by Department of Agriculture, Trade and Consumer Protection (DATCP). How to determine 1st year manure nutrient credits Additional funding for printing was provided by the







Wisconsin Certified Crop Advisor (CCA) Board.

University of Wisconsin-Madison, Division of

Extension and the College of Agricultural and Life

Sciences. An equal opportunity action employer,

University of Wisconsin-Madison provides equal

opportunities in employment and programming,

including Title IX requirements.

6 Fertilizer anaylsis and conversions

Sampling manure for analysis

How to determine application rate

Know how much you haul Manure load weight worksheet

36 Planting and harvest information





UNIVERSITY OF WISCONSIN-MADISON

2026 Virtual Nutrient Management Training March 13, 2026

2026 VIRTUAL NUTRIENT MANAGEMENT TRAINING FOR FARMERS

Learn how to write your own nutrient management plan!

> March 13 10 a.m. – 3 p.m. Live via Zoom Free

The Nutrient and Pest Management Program within the University of Wisconsin–Madison Division of Extension and the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP) are offering a virtual training for farmers interested in writing their own nutrient management plans.

This training provides the basics of nutrient management and an introduction to SnapPlus. It will take place on March 13, 2026, from 10 a.m. – 3 p.m. online via Zoom.









 ${\bf Scan\ QR\ code\ or\ visit\ go.wisc.edu/OnlineNMTraining\ to\ register.}$

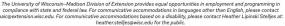
Questions?	Contact F	an Smith	dhsmith@wisc	eduor	(608)	219-5	170
Questions:	Contact L	Jan Jiniui.	unsimul@wisc	.euu oi	(000)	213-3	170

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C	10:00 - 10:15	Why Nutrient Management?
S	10:15 - 10:30	Soil Sampling
C	10:30 - 10:45	Soil Test Interpretation
	10:45 - 11:00	Soil pH and Liming
Н	11:00 - 11:15	Break
	11:15 - 11:35	Manure and Legume Crediting
Ε	11:35 - 12:05	Nitrogen Management
	12:05 - 12:40	Lunch Break
D	12:40 - 1:10	Phosphorus Management
	1:10 - 1:25	Soil Test P and Water Quality Implicatio
U	1:25 - 1:40	Potassium Management
	1:40 - 2:00	Manure Application Precautions
	2:00 - 2:10	Break
Е	2:10 - 2:25	Soil Conservation
	2:25 - 3:00	SnapPlus Introduction









Questions?

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