APM Industry Meeting

January 27th, 2021

Carroll, Madi, Emily, Michelle and Ali

How Zoom will work

- All participants will be muted
- If you have a question, use the "raise hand" feature
  - Should be in the bottom corner under participants list
- During Q&A time meeting hosts will go to each participant in the order they raised their hands and unmute them so they can speak

Session 1 – 9-10:30

- Welcome
- Current Projects
- 2021 Permitting Updates/Reminders
- 2020 Industry Feedback Response
- Rule Updates
- Question Time

Welcome

Carroll Schaal

Current Work

Madi Johansen

Annual Report

- Effort led by Emily Hjalmarson and Elizabeth Tanner
  - Create the first report showcasing what APM activities occurred during 2019
    - Combine data visualization and narration
  - Goal: Release annually as a public resource once all Treatment Records are entered and checked

Statewide Permit Totals - 2019

Statewide Permits

1990 Total

Permit Type
- Chemical Non-Private
- Chemical Private
- Mechanical (New)
- Mechanical (Renewal)

n = 33, 1.7%
n = 189, 9.5%
n = 608, 30.6%
n = 1160, 58.3%

▶ Permit site locations across the state mapped using coordinates provided in permit documents.

▶ Mechanical locations (not currently tracked in SWIMS) assigned using the WBIC centroid or manually.

▶ Permits spanning multiple waterbodies, large areas, and counties were assigned placeholder coordinates to best capture location.
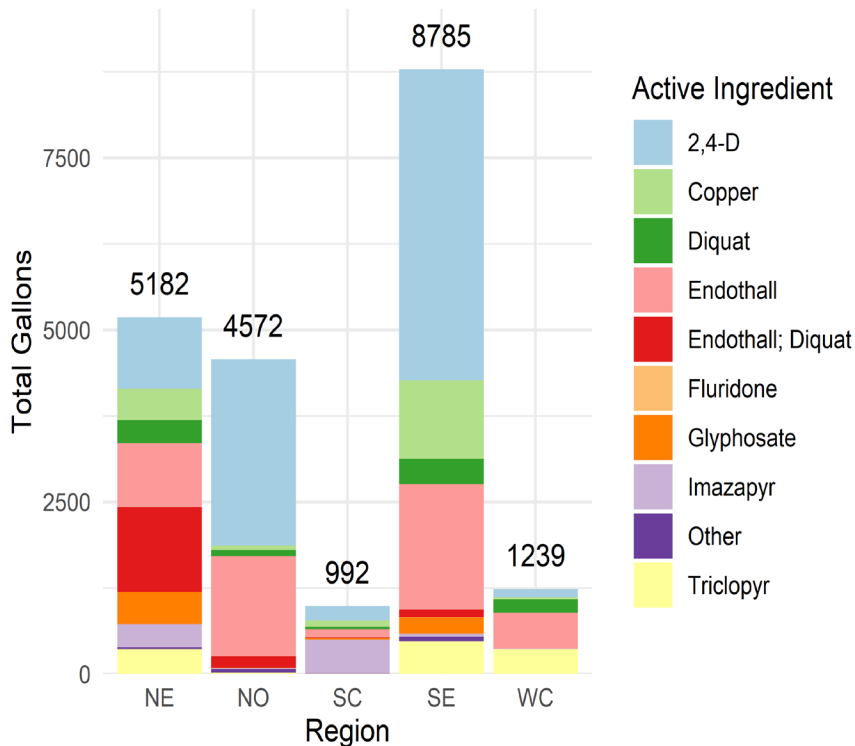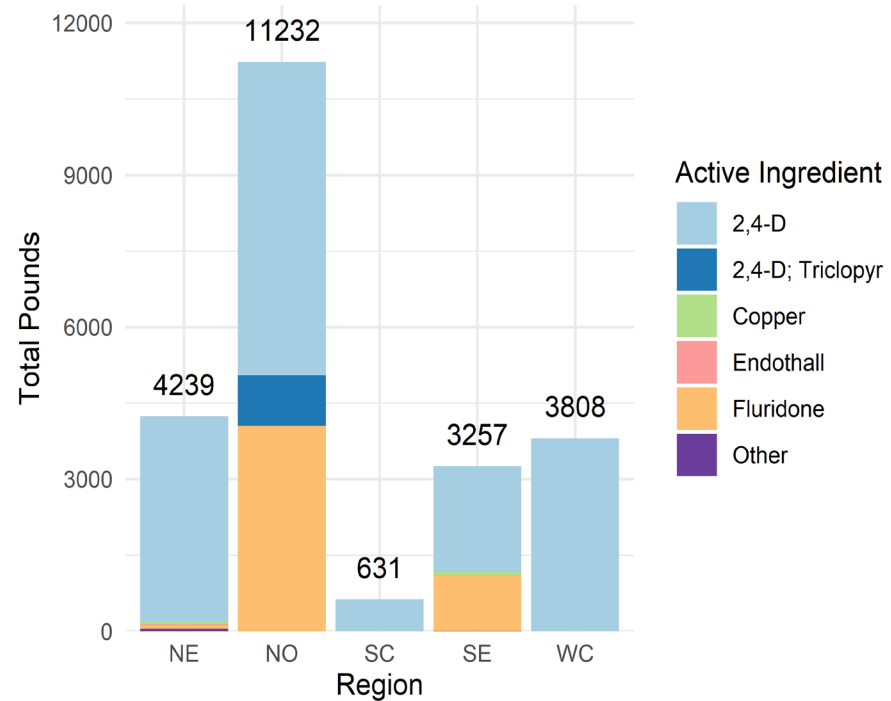

Permit Type
- Chemical Private
- Chemical Non-Private
- Mechanical (Renewal)
- Mechanical (New)
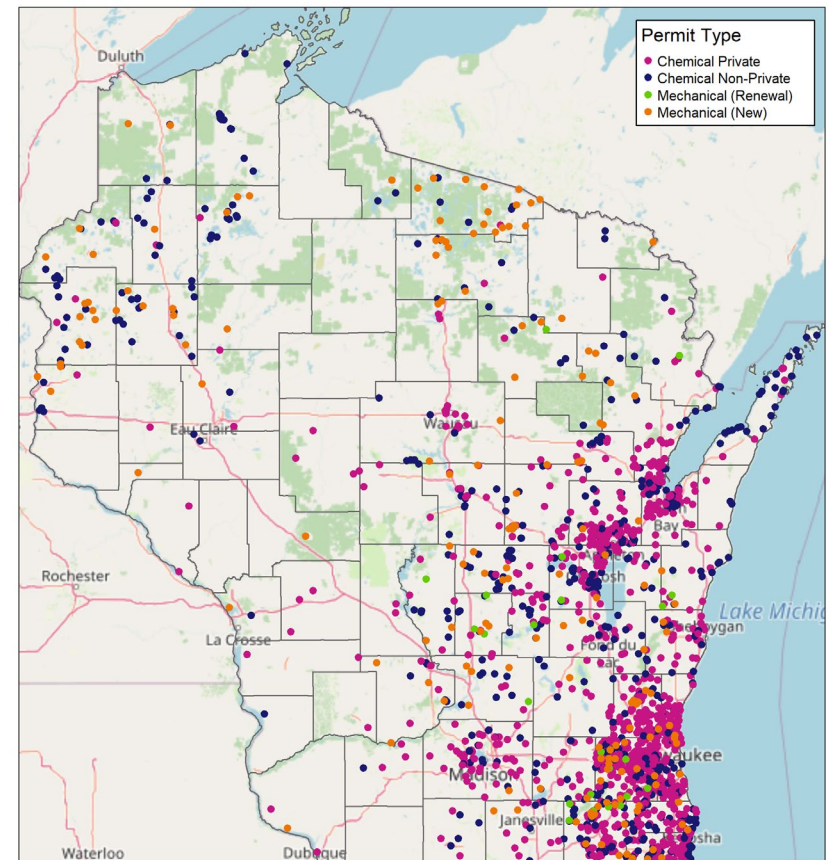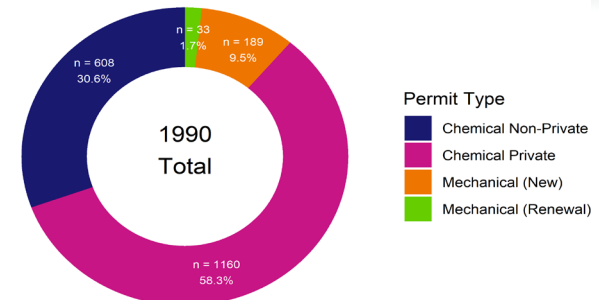
Non-Private Herbicide Use – Gallons/Pounds of Product

20770 Gallons
23168 Pounds

Non-Private Liquid Herbicide Use

Active Ingredient: 2,4-D, Copper, Diquat, Endothall, Endothall; Diquat, Fluridone, Glyphosate, Imazapyr, Other, Triclopyr

Non-Private Granular Herbicide Use

Active Ingredient: 2,4-D, 2,4-D; Triclopyr, Copper, Endothall, Fluridone, Other

Private Pond Herbicide Use – Gallons/Pounds of Product

8861 Gallons
6510 Pounds

Private Pond Liquid Herbicide Use

Private Pond Granular Herbicide Use
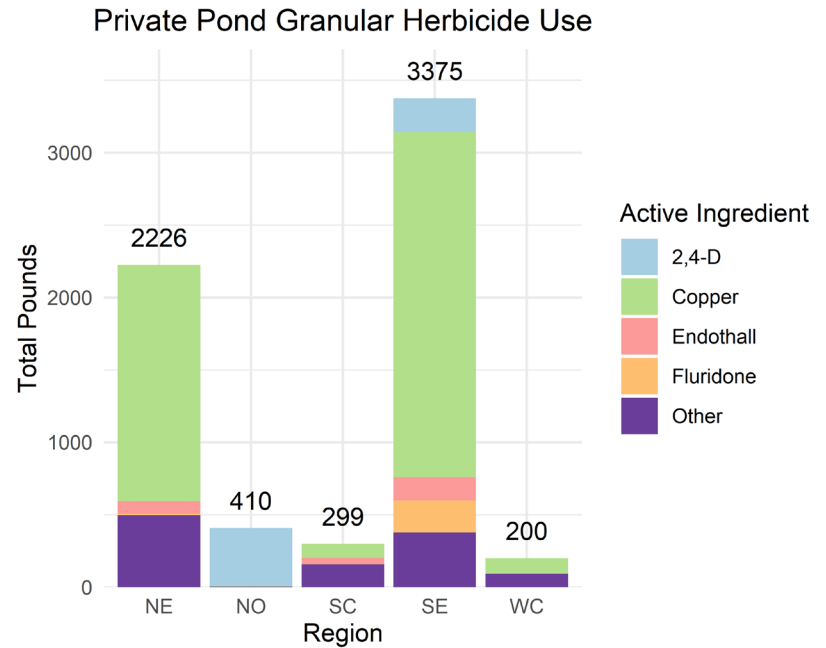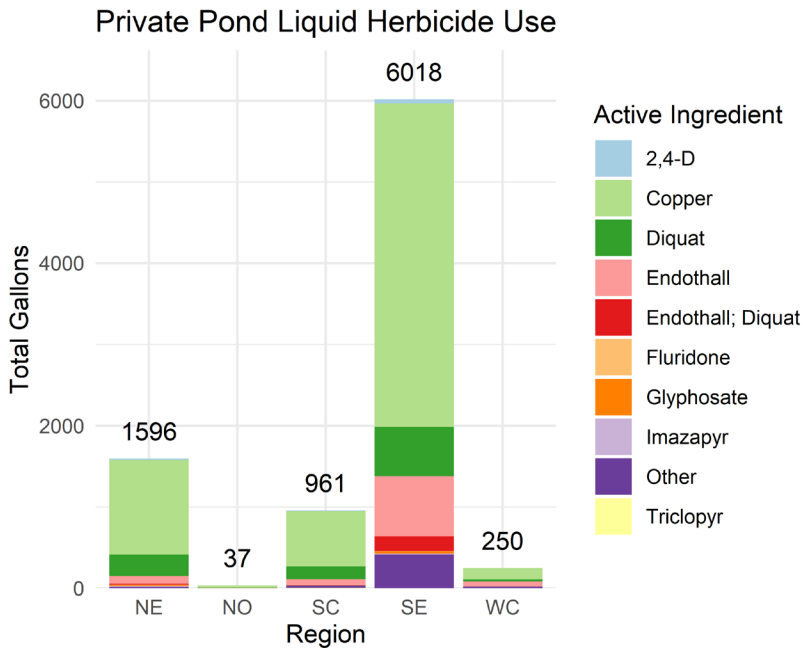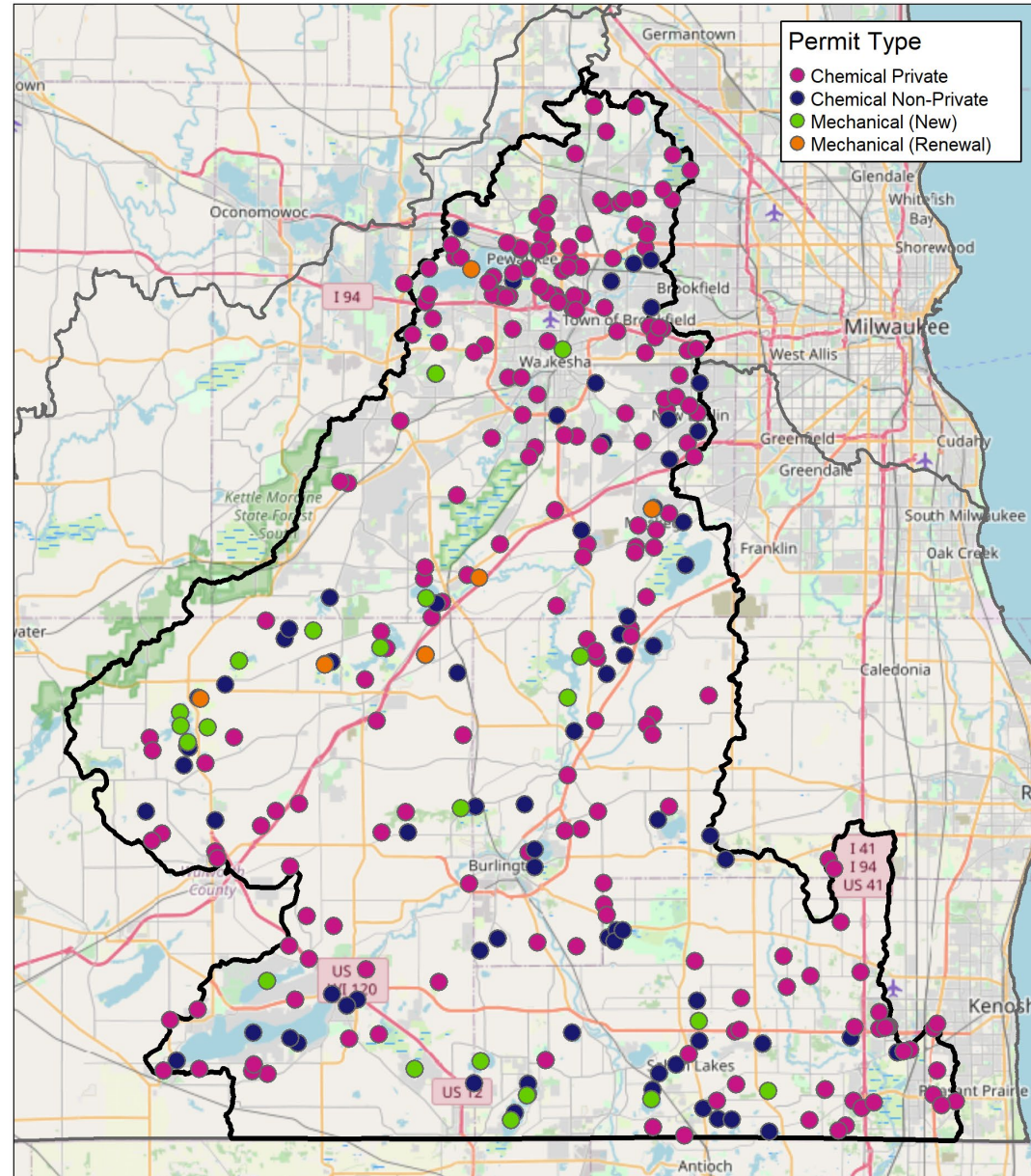
Summaries by Watershed Management Unit – Most Permits
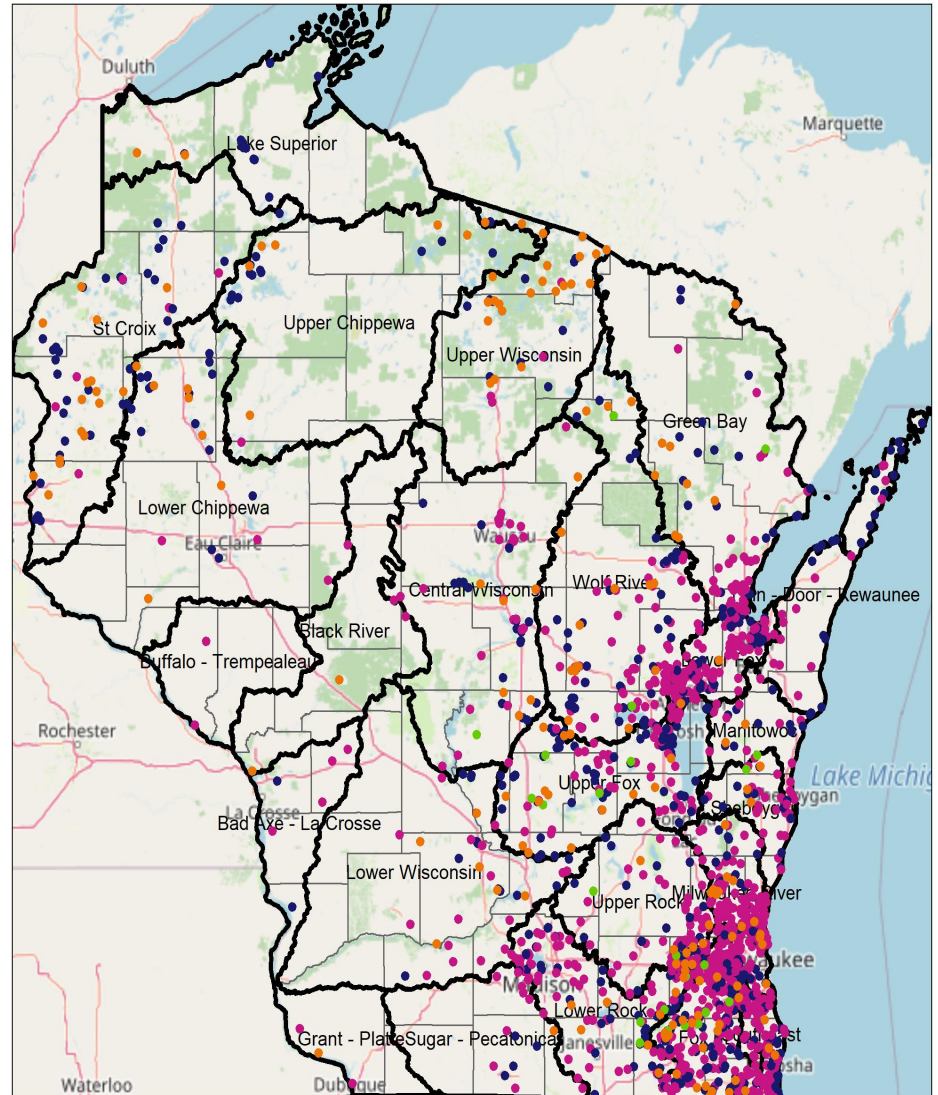
Fox River (IL) – 339 Permits

Updated Reporting Forms

DASH and Mechanical Harvesting

Slow and steady progress with forms team, database managers

Updated Guidance

- The APM program is reviewing current starry stonewort guidance
- An updated version of guidance may be sent out for public review in the next few months
- Will send email to all when the guidance is out
- No further details at this time

Cross-Program Work

- Work with WPDES team to create new non-pesticidal GP
- Effort led by Trevor Moen – wastewater engineer, APM program is providing input where appropriate
- No specific date for completion at this time, questions should go to Trevor

New Permit Forms

- Wetland management
  - Department aware current form geared towards lake management
  - Unlikely to be finished during 2021
  - Will keep partners up to speed as we go forward

2021 Reminders

All ePermitting

- Officially moved to all ePermitting in 2021
  - TR's may still be submitted via paper
    - Goal: move away from this as well
- Discuss details in Session 2

Intake and Review

- CO and regional staff work together to review permits
  - Elizabeth (Liz) Rockow will complete intake for non-private permits
    - Out to correct regional staff from there
  - Emily will complete intake and review for ponds

QAQC

A member of the public should be able to answer this question when looking at a permit

"What was permitted on X waterbody? How many acres will be managed? What species are to be treated? What chemicals or equipment will be used?"

QAQC

- Specificity in permits for non-private waters
  - Clear and concise herbicide list
  - Clearly delineated treatment areas
  - Public notice requirements met, when appropriate
- These are not new requirements

Non-private ponds

- Issue arose during permit review of private ponds in 2020
  - Program priority to assess private pond permits in detail to confirm accuracy
- With urban development, some ponds are not considered "private" under existing NR 107 rule.
- Some waterbodies required to do public notice due to the way the ponds are classified

Non-private ponds

Close this loop

Department is aware of industry concerns and opinions on this issue

The requirements will not change until such time as NR 107 is updated

Treatment Records

- Just finished getting all 2020 TR's received into the database
- Now checking for completeness, correctness and timeliness of record submissions
  - As a reminder, "no treatments" due by October 1of year issued
- DNR send the records on to DATCP for review if label compliance a factor

Partnership Opportunities

- ProcellaCOR

- Starry stonewort

- Whole lake treatments

Priorities for the department, we encourage cooperative learning efforts

Permit Issuance

- Permits should be issued within 10-15 business days
  - Unless placed on hold
- Lack of planning not our emergency
  - Please submit at least 15 business days prior to when trying to treat
- If haven't heard by the 15th business day, check in with the biologist

Follow Up to 2020 Industry Feedback

Madi Johansen

Communication

Most disagreements, questions and crossed-wires can be solved with a simple phone call or email.

Partnerships

- Treatment designs, new techniques, efficacy and non-target questions
  - It's in the best interests of our natural resources and waterbody partners to collaborate
  - Collect data, discuss results, learn and make better decisions together
  - Want to try something new or different? Set up a time to talk it through

Integrated Pest Management

- IPM Guidebook is available to use
  - IPM is a formal requirement in control grants - surface water grant program
  - Encouraged in APM, the program wishes to move towards IPM decision-making processes over time.

Decision Consistency

- The APM program is always working to improve the processes and procedures for permit decision-making
  - Not all waterbodies are alike
  - Regional differences can be driven by stakeholder involvement and history
  - Consistency for the sake of consistency does not lead to responsible resource management
  - Program decisions take time
  - If you have questions, reach out

Department's Role

- Department mandated to protect native aquatic plant communities and consider management efficacy
  - Efficacy = magnitude of target impacts
  - Longevity = duration of target and/or non-target impacts
  - Selectivity = magnitude of non-target impacts

Native Plants

- All management activities have risk of non-target effects
  - Selectivity (magnitude of non-target impacts) is part of treatment efficacy
    - Over time
    - Across plant populations
  - A specific species can be an indicator depending on sensitivity
  - Important to consider long term, multi-year impacts of management

Cost-Benefit of Management

- All management decisions should weigh the cost of management against the cost of the ecological/recreational impacts of a target species.

- When this balance is not met, or the ecological cost of repeated management outweighs the seasonal or ecological effects of the target species, then costs may likely exceed the benefits

Subjectivity of Success

- Success can be subjective to the perspective of the individual/stakeholder
  - Lake groups
  - Applicators
  - Water users
  - DNR
- It's complicated, all stakeholders should work together to set the parameters of success for a waterbody

Small-scale efficacy

- Small-scale treatment efficacy is dependent upon several site-specific conditions.
  - Wind, wave action, water depth and flow, size of treatment area and location on waterbody, water chemistry, temperature, microbial activity, water clarity, sun exposure

Small-scale efficacy

- Small-scale treatment efficacy can also be dependent upon herbicide choice
  - Fast acting contact herbicides are more likely to achieve adequate concentration and exposure times.
  - Certain systemic herbicides are often not an effective choice for small-scale treatments

Small-Scale Cont.

- Most management activities have a scale and time when they are appropriate
- Small-scale herbicide efficacy can be highly variable, for every "success" there are other "failures"
  - The program looks at overall trends in the consistency of outcomes when making program-wide decisions
  - Particularly for long-term AIS population control

Small-Scale Treatments

- Not a prohibited activity in the state
  - If treatment design likely to achieve adequate CET to meet the goals of management considering waterbody specific conditions

Monitoring

- P/I Surveys
  - Long-term population trends
  - Statistically comparable across systems and time
  - Threshold where sub-PI isn't large enough to be statistically relevant
    - DASH, hand pulling, in some instances
- Meander and other visual surveys
  - Have value in some instances
  - Cannot compare, tough to incorporate in analysis

Monitoring

- There are no plans to modify the P/I Survey at this time

- Lakeshore habitat protocol does include presence/absence of floating and emergent plants on a parcel by parcel basis

DASH

- Dept has a team working to look at DASH evaluation
  - Work in progress, next few years
  - Determine effective monitoring protocol that's scale appropriate
    - Field test options if necessary
  - Implement in field to look at efficacy

Evaluation of Activities

- Fall treatments
  - Still learning
  - Department encourages continued partnership
    - If there's a lake you feel would be appropriate, reach out before sending a permit

SSW

- FAQ, research factsheet, statement of efforts and permitting guidance released spring 2020

- Updates to research in Session 3

- Updated permitting guidance out for public review next few weeks

- Encourage all partners to continue cooperating on research to learn more about the species

Rapid Response

- A rapid response to a new introduction is possible within current APM and AIS Programs
  - Containment and prevention through CBCW is a key component to rapid response
    - Effective use of time and resources

Rapid Response

Do industry partners have a specific, actionable change to the way rapid response should work?

Blue Green Algae

Treatment of a surface water that is experiencing a blue-green algae bloom with an herbicide or algaecide may kill the blue-green algae, but any toxin(s) contained in the cells will be released at once, resulting in a slug of toxin(s) in the water. So while the bloom may no longer be visible, toxin(s) may be present for some period of time following treatment.

It is best to stay out of a water experiencing a bloom and wait for the bloom to dissipate on its own.

Rule Updates

APM Rule Development

- Scope Statement approved by NRB late May 2020
- Internal APM and cross program policy discussions spring to fall 2020
- Drafting White Papers - Goals
  - Internally
    - Opportunity for staff to provide extensive feedback on policy proposals
  - Externally
    - Easily Digestible proposals to share with public for feedback
    - Encourage early engagement in rule development process
    - Transparency

White Papers

1. Permit processing
2. Monitoring and evaluation
3. Treatment scale and timing
4. Aquatic Habitat Protection
5. Introduced Species

7. Planning
8. Harvesting
9. Emergent Species Management
10. Private Ponds

Set by APM Study Group

Early Public Input

Topic	Date and Time
White Paper Meeting 1 - Permit Processing, Treatment Timing and Scale, Monitoring and Evaluation	November 5th, 2020 4-6:30 PM
White Paper Meeting 2 - Planning, Invasive Species Management, Native Plant Protections,	November 12th, 2020 4-6:30 PM
White Paper Meeting 3 - Mechanical Harvesting, Private Ponds, Emergent Species Management	November 19th, 2020 4-6:30 PM
APM program staff will review all written and verbal comments received prior to January 15, 2021 on the policy proposals within the white papers. Written comments may be submitted to Madi Johansen via email: madison.johansen@wisconsin.gov, or mail: Wisconsin DNR - Attn Madi Johansen, PO Box 7185, Madison, WI 53707-7185.	
Public Meeting - A Discussion on Public Notification and Public Meeting Requirements	Winter 2021
Public Meeting - First Draft of NR 107 for Review	Spring 2021
Economic Impact Analysis	Summer 2021
Public Hearing	Winter 2021-2022.

Complete

Where we are now

- Compiling, organizing and considering all comments and questions received
  - Special thanks to those present today who submitted feedback to the department
- Begin drafting rule language

Broad Rule Development Timeline

Topic	Date and Time
White Paper Meeting 1 - Permit Processing, Treatment Timing and Scale, Monitoring and Evaluation	November 5th, 2020 4-6:30 PM
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Economic Impact Analysis	Summer 2021
Public Hearing	Winter 2021-2022.

TBD

How to get involved

- Sign up for GovDelivery
- Keep up to date on public meetings and input timelines
- Ask questions if unsure
  - Madison.Johansen@Wisconsin.gov

Questions?

Please use the, "raise hand" feature

50 min break

See you at 11

Session 2 – 11-12:00

- ePermitting updates this year
- Future updates to consider
- Current IT projects
- Question Time

ePermitting Updates 2021

Emily Hjalmarson

Reminders for 2021

- Permit applications must be submitted electronically

  - Also preferred for treatment records

- In Applicant or Pond Owner section, ensure correct contact information for permittee is provided (not your own)

- Ensure both permit and cover letter are in possession.

  - https://permits.dnr.wi.gov/water/SitePages/Permit%20Search.aspx

Autopopulation from Previous Permits

- Previous year's permit # and Business Certification #
- Should turn green and give message when successful
- Feature is optional
- Removed section from top of final permit PDF to reduce confusion with seeing an old permit number

Autopopulation from Previous Permits

- Do this as a first step
  - Using this feature after draft is saved has issues
- Both fields are case-sensitive
  - Good: NE-2020-12-3456
  - Bad: ne-2020-12-3456 (lower case letters)
- Data is only as good as what was entered
  - Check previous permit document to verify
  - Email if you find an issue

Autopopulation from Previous Permits – Expanded

- All Applicant and Applicator fields
  - Certification #s added
- Waterbody Information – improved accuracy given QAQC of 2020 data
  - Section, Township, Range, and County added
- <u>Please check for errors or out of date information</u>

Treatment Record – "No Treatment" Option

- Can now select "No Treatment" option without filling out any other fields.
- Permit information will display to ensure you are submitting for the correct one.

WAMS Account Information

- Can verify your email address is correct. Also there is a link to update it

Other Form Fixes/Updates

- Added herbicides and units
- Updated instruction language
- Clarified signature language
- Allowed bypass of non-required tabs on treatment records for faster submission
- Added fields to autopopulate on treatment records

Future ePermitting Updates

Future Updates – How the Process Works

- SharePoint (ePermitting) team sets schedule and decides what is feasible based on resource availability (budget, time, etc.)

- Essentially a year behind

- Example Timeline
  - Feb 2020 – proposed updates for 2021 submitted
  - Sep - Nov 2020 – IT contractor began work
  - Dec 2020 – Testing of updates (internal, external) with some feedback incorporated.
  - Jan 2021 – New updates are live
  - Early Feb 2021 – FY 22 proposed updates due

- Difficult to anticipate all update needs given early due date at start of permitting season

Future Updates in Consideration

- Expanding autopopulation for ponds on permits and treatment records to include target species, herbicide lists, acreage.
  - Might be technologically difficult to separate by permit type, TBD
- Checkboxes instead of drop-down for herbicides.
  - Difficult when list changes, since it must be hard-coded, TBD.
- Map feature to assist with entering location information

Future Updates in Consideration

- Items outside of our program's control (they affect all ePermitting users globally)
  - Signature process – might be possible to improve this for treatment records since they do not involve payments, but it is complicated.
  - Payment process – ePermitting IT staff are working on making improvements
  - WAMS ID – being able to verify your email yourself may alleviate issues.
  - Changes in document formats or naming

Future Updates in Consideration

- Improving Nonprivate form to better address waterbody differences.
  - Examples are wetlands and public ponds.
  - Unlikely to change until forms are updated again, which is not an immediate program priority.
    - But, it is on our to-do list

Issue Trackers

- For most problems, best to email DNRAPMProgram@Wisconsin.gov
  - Can potentially solve the problem without IT.
  - We know the "lingo" to best communicate the problem and can send issue trackers on your behalf.

Issue Trackers

- Detailed email including any #s
- Include screenshots
- Confirm you are using Chrome on computer
- Signature issues – confirm you checked Junk/Spam

Questions Throughout Year

DNRAPMProgram@Wisconsin.gov

Ongoing IT Projects

Madi Johansen

PI Database

- Publicly available PI Surveys in a database
- A public facing interface to extract data in a usable format with data visualization
  - Both are a work in progress, slow and steady
- Check with Michelle Nault or Michaela Kromrey in the interim

Query Tool

- Build a public facing portal to SWIMS
  - Search by waterbody, county
  - Search by year, month, date
  - Search by permit number
  - Search by herbicide, method
- May provide ways for businesses to streamline/modernize
- Allow quick access to public records

Query Tool

- Been on hold for several months
  - DOA determining best data visualization tool
- Once determined move forward as staff time and resources allow
  - Emily primary developer at this time

Treatment Record App

- Field submission app
  - Meet DATCP requirements
  - Meet varying approaches to reporting by company
  - Streamline reporting for both industry and department
  - Directly into dept. databases, so customers can pull in "real time" from there with query tool

Treatment Record App

- Work in Progress
  - Status update in the next few months
  - Few hang ups
    - Companies all do things differently, trying to capture processes of a majority
    - Ensuring any legal concerns of identity confirmation etc. are met
    - Staff time and resources

Questions?

Please use the, "raise hand" feature

Lunch Break

Check back in at **1 PM** for the final session