



Agenda First Quarter Meeting 2023
Wednesday, January 18th & 19th, 2022, 9:00 A.M. to Noon
Zoom Meeting
Attendees required to constitute a quorum for 2023: 15

Wednesday, January 18th, 2023

9:00 am **Welcome and Introductions**

33 attendees for all or part of the meeting:

Alyssa Bloss – MN DNR Natural Heritage Advisory Committee's Terrestrial Invasive Species Subcommittee. I also am a Conservation Specialist at Carlton Soil and Water Conservation District - part of my position manages our Cooperative Weed Management Area.
Andrew Dickhart – AIS coordinator Carver County
Angie Gupta – UMN Extension forestry
Ariana Richardson - Meeker County AIS
Bob Dunning – Stearns County, representing the Agricultural Inspector Association
Brian Martinson – AMC
Chelsey Blanke – UMN
Christina Basch – MnDOT roadside vegetation unit
Cori Mattke – MAISRC
Dane Huinker – Wildlife Forever
Doug Jensen – AIS prevention planner for MN DNR
Emilie Justen – MDA
Emily Dunlap – Invasive species supervisor at Three Rivers Park District
Jacob Grandia – Leech Lake Band of Ojibwe
Jim Calkins - MNLA
Jeffrey Flory – Invasive species specialist for 1854 Treaty Authority
Jen Burington – MN Dept of Agriculture, Outreach Coordinator with the Plant Protection Division
Jen Larson – USFS State and Private Forestry invasive plant specialist
John Downing – Director of MN Sea Grant
Kate Wyman-Grothem – USFWS prevention lead in AIS program for Midwest Region
Kelsey Taylor – Fond du Lac Band of Lake Sup Chippewa, invasive species coordinator
Laura Van Riper – MN DNR Terrestrial Invasive Species Coordinator in Ecological Water Resources Division
Maria Young – Invasive species technician for Wild Rivers Conservancy
Marian Shaffer –NPS St Croix National Scenic Riverway, aquatic biologist
Mark Gaikowski – USGS
Megan Weber – UMN Extension educator AIS
Paul Erdmann – MN BWSR ecological science conservationist
Rob Venette – USFS, Director of MITPPC
Roger Becker – UMN extension weed
Sascha Lodge – MN DNR Division of Forestry terrestrial invasive species program coordinator
Shawn Mazanec – Metropolitan Mosquito Control District
Tia Parks – Cook County agricultural inspector, CISMA coordinator
Zach Burnside – Wildlife Forever

9:10 am **Council Business**

- Approval of Meeting Minutes from 10/6/2022 (vote)
 - Approved unanimously via Zoom poll – 23/23
- Treasurer's Report submitted by Wildlife Forever, fiscal agent for MISAC (vote)
 - Since last meeting, no new revenue sources. Fiscal admin and web service fees charged.

- Current balance = \$15,011
- Question: New column, paid vs unpaid? Answer: It's an internal QuickBooks thing – you can ignore it, it's not outstanding bills or anything like that.
- Website management: Dane will submit the 2022 report for analytics, hopefully this week. Since the last quarter had 19 web edits for ~6 hours of staff time.
- Approved: 22 yes, 1 abstain
- 2023 Leadership – Ariana Richardson (Chair), Sascha Lodge (Co-Chair), Chelsey Blanke (Past Chair)

9:30 am

Updates & Discussion Topics

- UMISC 2022 Re-cap –Doug Jensen, Jen Burington (20 min)
 - Very successful conference; still finalizing budget. Partners will receive \$4k seed money back, plus estimated \$650 profit each.
 - 2024 planning: ExCom will meet to discuss soon.
 - Sessions were highly rated in survey. ¾ in person and ¼ virtual attendance. Met goals, supported organization's missions, high amount of knowledge gained, field trips rated highly. People are very likely to attend another UMISC in the future. Very successful conference, thanks to everyone who helped support it.

UMISC 2022 Re-cap

MISAC Meeting, January 18, 2023 Prepared by: Doug Jensen, Conf. Co-Chair



Overall: conference was successful on all levels!

Budget: Finalizing budget, each partner will receive their \$4,000 seed money plus \$650 profit.

2024 MOU and Admin Contracts: ExComm will meet to discuss soon. We will also discuss who wants to continue to participate on the ExComm for 2024.

Survey Outcomes:

Sessions: All ranked excellent to very good, except Words Matter and Community Engagement Stories which ranked good.

	2022	2020	2018
Attendance (2022: 2/3 in-person and 1/3 remote)	557	1003	730
States/provinces/countries	18/3/1 (Switz)	22/3/3	32/5/3
Attendee experience (excellent to good)	99%	99%	96%
Importance of networking	81%		95%
Useability of EventMobi	96%	100%	
Appearance of EventMobi space	94%	100%	
Downloaded EventMobi app	93%		
UMISC staff satisfaction	100% (4.3/5.0)	(same as 2022)	
KI Center as venue	97%		
Conference content (excellent to very good)	99%		
Goal met to strengthen management	99%	96%	90%
Supported organization's mission	96.5%	99%	97%
Likely will implement knowledge gained	97%	96%	95%
Field Trips: (74% response rate)			
Beyond Cherries (excellent to very good)	90%		
Go with the Flow	100%		
EAB to EFB	100%		
Planting for Pollinators and Phragmites (excellent to good, 33% somewhat good)	67%		
Native and exotic aquatic plants workshop	100%		
Japanese siltgrass workshop	100%		

Notes on Past Attendance: 62% attended previously

- Previous attendance by conference (some attrition but held market):
 - 2008=10%, 2010=21%, 2012=25%, 2014=36%, 2016=49%, 2018=67%, 2020=80%
- How likely to attend another UMISC: 89% (very likely to most likely)
 - Only 2 responses reflect somewhat dissatisfaction

2022 Top Sources: Employer or school (55%), Word of Mouth (19%) and UMISC email (13%), 3rd party newsletter and listserv (6%)

- For comparison, 2018 Top Sources: Word of Mouth (36%), Employer or School (35%), UMISC email (16%), UMISC website (10%) and 3rd party newsletter and listserv (<5%), social media (<1)

- Laura: Much lower profits than past years – why?
 - Doug: We were relatively surprised. Fewer people online than we expected, also didn't have the influx of late registrations that we've gotten in past years. We expect to change budgets and projections for next time; we adjusted things as we went this time too.
 - Megan W: Other conferences also had unexpected budget balances; post-pandemic new norms are still shaking out. There was a discussion in ExComm – if we had to choose between bringing in a bunch of money vs. a high quality conference where people could learn and network – our goal was to not lose money and have a really good conference (secondary goal was hoping to make some money).
 - Laura: In the past, people have seen MISAC budget and asked why we don't spend it down – this is why, so we can float for a few years until things stabilize.
 - Doug: Duluth meeting – facility is cheaper and restructured menu so costs are cheaper. In Green Bay, AV was quite expensive, so that might be a cost savings in Duluth as well.
 - Jeffrey Flory: Was inflation a factor in the budget gap?
 - Doug: Many costs were locked in earlier (like menu), but AV costs were high.
 - Rob: With respect to registration, from different states, was MN participation down because it was in Green Bay?
 - Doug: I would say it was down a little bit, but I don't have the numbers in front of me. But it was made up by more people from WI. After meeting, Doug tracked down totals (inperson/online) for 2022: MN=155 (89/66), WI=216 (170/46), MI=66 (43/23). Participation from MN/WI=60%, typically that's been 70%.
 - Rob: For years there's been discussion re: moving conference around the region, whether participation numbers reflect that's a good idea or if we should go back to holding it on the MN-WI border.
 - Christina: Seemed to be a lot of participation from Michigan. Has there been talk of including them as co-organization for sponsorship?
 - Doug: Some discussion, but that's as far as we've gotten. They've grown their programs. But we'd lose significant participation from MN/WI if hosted there.
 - Looking forward to hosting in 2024 in Duluth!
- Updates from committees (5 min)
 - DEI Committee – Ariana Richardson
 - Discussed history of the committee charter – the need for the committee arose in 2020 for providing support for UMISC DEI sessions/speakers; also discussed providing additional letter of support for 2024 UMISC. Ariana will

- Maria can join the committee to plan, Kelsey as well (but going on maternity leave), Marian, Katie, Cori Mattke, Jen Burington
- Marian just asked Katie Sickmann and they're in for sometime in 2023.
- Laura: Field trips anytime during the calendar year.

Spring 2022 MISAC Field Trip Ideas

- Canoe tour of the St. Louis River Area of Concern, wild rice restoration and AIS management
- Decontamination process for spearing and netting with the Fond du Lac Band of Lake Superior Chippewa*
- U.S. CBP Port of International Falls*
- U.S. CBP inspections and facility tour at MSP airport*
- Wastewater treatment facility using or transitioning from using invasive *Phragmites*
- Sites, terrestrial and aquatic, undergoing restoration or adaptive management
 - Demonstrations of physical (e.g., DASH), biocontrol (e.g., purple loosestrife), and chemical control (e.g., herbicide treatment plants, Cu zebra mussels)
 - Site with jumping worms
 - Site with invasive *Phragmites**
 - Common carp control*
 - Include a service aspect (e.g., garlic mustard pull, biocontrol weevil harvesting)
- Joint "meet and greet" meeting of MISAC, the DNR AIS advisory committee, and the DNR Commissioner*

1

Field Trip Considerations

- Hybrid or regional events would make the trip easier to attend.
- Locations that are not too remote or rugged will help prevent exclusion of invitees with mobility concerns.

10:05 am **Break**

10:20 am **Updates & Discussion Topics (continued)**

- 2023 MISAC Calendar – Sascha Lodge (20 Minutes)
 - Sascha solicited suggestions for 2024 calendar topics and recorded them in a separate document. She will send out a survey to all members to vote on topics that will close next week and then the editors will select a well-balanced mix of topics for the calendar and reach out to potential authors.
 - Email Sascha.lodge@state.mn.us if you want copies of the current (2023) calendar – she has extras.
- State Plan Implementation Evaluation– Chelsey Blanke (30 Minutes) [session was recorded if anyone wants to listen to it]
 - Kicking off this evaluation process. Hope to end up with nice state of the state of IS report at the end of this whole process. Elements, strategies, actions and implementation tables are the important things to pay attention to as part of this evaluation. Priorities for action.

- Part 1: survey of partner organizations statewide, including rating how all of us are doing on addressing each action and identify actions that organizations are currently implementing.
- Part 2: formation of element committees (one for each of the four elements) that goes through all the actions in the plan and rate how we're all doing. That committee will come up with final rating.
- Part 3: priorities for action summaries – evaluation involves identifying content experts who draft a brief summary.
- All content will be drafted into summary report for posting on website and sharing with partners.

You are viewing Chelsey Blanke's screen   View Options 

SUGGESTED APPROACH

Determine Overall Coordinator

- Distribute survey to partners
- Coordinate with and support Element Committee leads
- Compile drafts into report

Determine Element Committees

- Random assignment
- Committee Members: review actions, meet once
- Committee Chairs: review actions, lead meeting, draft summary

Identify and Contact Content Experts

- To draft "Priorities for Action" progress summaries

2023

State Plan Implementation
Evaluation Process Kickoff

3

- Chelsey volunteered to coordinate evaluation. [Thank you Chelsey!]
- Suggesting randomly assign all MISAC members to one of the four committees. All hands on deck, but process not overly burdensome (hopefully).

SUGGESTED EVALUATION TIMELINE

Task	Responsible Parties	Deadline
Distribute survey to partner organizations	Overall coordinator	2/3/23
Request drafts from experts related to "Priorities for Action"	Overall coordinator	2/3/23
Element committee members (all MISAC members) review and rate respective plan "actions"	MISAC/Element committee members	2/10/23
Element committees meet and come to agreement on ratings for respective plan "strategies"	MISAC/Element committee members	2/24/23
All draft content submitted by Element Committee chairs and authors for "Priorities for Action" sections	Committee chairs & content authors	3/10/23
Evaluation report compiled for review	Overall coordinator	3/24/23
Review by MISAC membership	MISAC members	4/7/23
Report revision	Overall coordinator	4/28/23
Vote for approval to post and distribute	MISAC members	5/5/23
Post report to website and notify partner organizations	Overall coordinator	5/12/23

2023

State Plan Implementation
Evaluation Process Kickoff

4

- Some concerns raised by membership about time commitments and fast upcoming deadlines. Concerns about providing input when we may not know everything that's going on across the state.

- Chelsey soliciting element committee leads:

DETERMINE ELEMENT COMMITTEE LEADS

1. Prevention
 2. Early Detection, Response and Containment
 3. Management of Invasive Species
 4. Leadership and Coordination
- *Process recommends no more than one working day.*

- Angie G: good job putting in a process for evaluating the plan. Intrigued about the timeframe definition. But feeling over-committed. Maybe push things back to revisit this at the April meeting to see if people are ready to commit.
- Chelsey: Will summarize this meeting and email it out and start the process a bit, but also try to move it forward later in the year.
- Sascha, Ariana, and Jen B. all volunteered to potentially chair element committees.

11:10 am **Member updates**

- Chelsey Blanke: Now at UMN as a researcher with Dan Larkin. Assisting w/coordinating control of invasive phragmites with Julia Bohnen. Working w/DNR and local partners for statewide control program, accompanied by research projects – looking for hybridization between native and invasive, also alternatives for wastewater treatment facilities who use invasive phragmites. Also helping w/extension's online course in ecological restoration, potential expansion. Assisting with research projects, including looking at conservation reserve program lands and wildlife.
- Alyssa Bloss: Joining on behalf of DNR Natural Heritage Advisory Committee. Recently created TIS subcommittee, was invited to join MISAC meetings because looking forward to hearing tomorrow's speaker's talk; looking for more funds for TIS work.
- Drew Dickhart: AIS coord for Carver Co. Trying to wrap up planning stages for 2022 AIS prevention and management program. Main challenge from last year into this year is since COVID, seasonal staff is really hard to recruit. Every year 10%+ drop in applicants. Talking to local stakeholders and program partners, think we'll cut down hours for watercraft inspectors and shifting resources to other AIS areas. Drew would like to see more resources to carp management or phragmites/loosestrife management projects.
- Angie Gupta: UMN extension forester. Eli Sagor (new supervisor) has encouraged strategic planning/marketing around participatory science projects – TIPS: Terrestrial Invasive Species Participatory Science. Forest Pest First Detectors will be back in pre-pandemic format of online content and one-day in-person workshop in three/four locations. Working with MDA on spotted lanternfly project for 5 southeastern counties – find SLF and look at 5 plants that can be host (tree of heaven, round leaf bittersweet, black walnut, riverbank grape, butternut). Participatory science project on garlic mustard and aphids. Another on find and report mock strawberry. Working with Breanna Wheeler to do EmpowerU sponsored by DNR Nat Heritage Committee.
- Bob Dunning: Stearns County Ag Insp. The Agriculture Inspectors Association is going to again seek funding for unfunded mandate, contracted with AMC to bolster efforts (set on House side, searching for more Senate support). Would like to ask MISAC again for update letter of support (letter can be same, with updated bill number and date). **Bob will send Ariana new draft**, Ariana will email out and MISAC will vote.
- Christina Basch: MnDOT; Commissioner of Agriculture did approve all recommendations made by Noxious Weed Advisory Committee. MDA is making changes on webpage with new species and changes. MnDOT Noxious Weed Book is in final review, pdf will be ready in late Jan/early Feb.
- Cori Mattke: Associate Director at MAISRC. Annual RFP is open through March 1 (<https://maisrc.umn.edu/maisrc-researcher/rfp>). Also launched new projects from previous year's RFP – [6 new and 3 continuing projects](#). She will forward an email with new project descriptions. Next

phase/continuing work - developing volunteer surveillance eDNA, evaluate CO2 and sound combo for bigheaded carp deterrent, further work on low-dose copper for zebra mussels.

- Doug Jensen: Working with Tina Fitzgerald and Adam Doll on off-season workshops with counties and LGUs. Have received all county aid reports on previous year activities; will be compiling for annual report. Participating with Great Lakes Panel on OIT ad-hoc committee, and education committee, and policy coordination committee – back in 2014 Great Lakes Panel recommended to state fish and wildlife to move from diploid to triploid grass carp, but there was a question on how much outreach there's been on this so now there's an index for what's going on. New national recreational boating survey and results mirror what we've seen in Minnesota in other surveys. We are hoping to hire someone to be the new "Chelsey" in MN DNR to address organisms in trade.
- Emily Dunlap: Three Rivers Park District. Round leaf bittersweet survey season, it's been a snowy winter slowing surveys. Big thank you to RLB name change folks – excited for more inclusive, accurate name.
- Jacob Grandia: DASH driver assisted survey work for starry stonewort. Purchased a drone to do winter studying of starry stonewort. Monitoring and treating invasive species in orchards and pollinator gardens.
- Jim Calkins: Minnesota Nursery and Landscape Association. Just finished up with Northern Green (education and trade show conference) last week. Had presentation on invasive species update including Noxious Weed List updates, including burning bush.
- Jen Larson: USFS state and private forestry. In region 9 (20 states, MN to Missouri, Maine, Maryland), there are 3 field offices including St. Paul, located on St. Paul UMN campus. Provide technical and financial assistance to states and state partners in MN, Missouri, to Michigan, to Indiana footprint. Four entomologists, three plant pathologists, and now invasive plant person (Jen). Started four months ago and meeting with groups like MISAC in each state to learn how everyone handles IS. Now have Bipartisan Infrastructure Law funding available.
- Jen Burington: MDA. We will be having annual reports from entire division coming out in February. We will be doing a bunch of hiring for the summer – about 40 spongy moth seasonals, hire two ag pathways inspectors for the summer, also two nursery inspectors (full time year round permanent). USDA just awarded the farm bill funding for a couple of surveys. Palmer amaranth ads going out. New counties have been added to EAB quarantines.
- John Downing: director of MN Sea Grant. Enhancing habitat and diversity in invasive cattail dominated shorelines, experimental work with outreach component. Very interested in potential pressures to import bait fishes because of rarity of golden shiner in the state, so a lot of work going on in MN on increasing golden shiner bait production – new strategies to increase in state production and grow them up rapidly to reduce likelihood of other bait fish introductions. Carp and Carbon – contrast lakes with and without common carp to see how they impact greenhouse gas emissions, determine climate change and economic benefits of carp removal. Also have fair number of materials available for distribution – watch cards, etc. Get in touch if you want some for free. Recruiting a new staff member but slowly. RFP came out recently and within that trying to generate proposals on determining economic benefit on preventing invasive species introductions. Also assessment of effectiveness of current IS management laws and enforcement. Also has smaller <\$10K grants for fast response projects on AIS.
- Kate Wyman-Grothem: US Fish and Wildlife Service. Prevention and risk assessment – in the midst of season for drafting and publishing species risk screening reports (ERSSs). This year, list of species including some that may be at risk of movement into upper Mississippi basin. Horizon scanning for future aquatic species in upper Mississippi basin – will share more as we get results.
- Kelsey Taylor: Creation of indigenous conservation corp crew. Been having hard time getting seasonal staff involved and getting youth involved in outdoor and harvest activities. Conservation corp approached a year ago to collaborate. Tailoring to needs at FDL and hope to start later this year. Will spend chunks of time with each of the resource management departments – opportunity to get more exposure and experience and not just grunt work. Have had a few interested applicants, but still recruiting for a crew leader. Getting ready for field season. Been doing spongy moth control and surveillance this winter – have found and scraped off some egg masses.

- Laura Van Riper: MN DNR. The DNR proposed adding additional species to the DNR's Prohibited Invasive Species List. The DNR Rulemaking comment period ended December 9, 2022. Comments are being reviewed by DNR leadership. See this webpage for the species list: <https://www.dnr.state.mn.us/invasives/invasive-species-program-2022-prohibited-invasive-species-rulemaking.html> The Minnesota Department of Agriculture's Noxious Weed Advisory Committee chose the species listed below to be assessed in 2023 and 2024. If you see these plants growing in natural areas, please report the location into www.eddmaps.org. 1. Asian copperleaf, *Acalypha australis* 2. hardy kiwi, *Actinidia arguta* 3. creeping meadow foxtail, *Alopecurus arundinaceus* 4. Canada thistle, *Cirsium arvense* 5. Russian olive, *Elaeagnus angustifolia* 6. autumn olive, *Elaeagnus umbellata* 7. queen of the meadow, *Filipendula ulmaria* 8. yellow archangel, *Lamium galeobdolon*, *Lamiastrum glaeobdolon* 9. rough potato, *Metaplexis japonica* 10. stiltgrass, eulalia, *Microstegium vimineum* 11. butterfly dock, *Petasites hybridus* 12. sweet coltsfoot, *Petasites japonicus* 13. small leaf bramble, *Rubus parvifolius* 14. fast-growing hybrid willow, goldencurls, Austree, *Salix matsudana x alba* 15. white crack willow, hybrid crack willow, *Salix x rubens* 16. false spirea, *Sorbaria sorbifolia* 17. European mountain ash, *Sorbus aucuparia hybrids* & cult, 18. periwinkle, *Vinca minor*. Would be great to get more reports of these species to be used in the risk assessments.
- Maria Young: Wild Rivers Conservancy. Launching galerucella beetle raising citizen science program (LCCMR grant funding). Putting on a right of way invasive species workshop with Chisago County, ID and management of common IS in the county, main audience roadside workers.
- Marian Shaffer: Completed purple loosestrife monitoring for the length of Namekagon and St. Croix. In 2023 will be large scale effort to control all these populations. Completed rusty crayfish monitoring in Snake and Kettle Rivers. Wanted to ask group – does anyone have ideas for control or management of rusty crayfish in the region? Annual adult zebra mussel density and distribution monitoring – high increase in numbers. Annual zebra mussel veliger tows at lakes – found some new populations and some higher populations, want to enhance monitoring. Upcoming zebra mussel forum – Feb 2 virtual (Zebra Mussel Forum (virtual, Teams) will be held on Feb. 2 9AM-3PM. If you would to attend, please reach out to Colton Sorenson, Polk County AIS, colton.sorensen@polkcountywi.gov) – residents, lake association members, professionals, how to control ZM spread throughout the watershed. Lab also screened samples for spiny water flea – negative. Annual ZM dry docked boat counts – use as proxy for density and distribution sampling, record-breaking increase in numbers. Submitted proposal for fish telemetry project on tracking invasive carp in lower river. Terrestrial counterpart Mike Rhodes – new restoration project near Wild Mountain using prescribed fire for oak savanna, Prairie Falls treating buckthorn and other treatments. Buckthorn work at Arcola.
- Megan Weber: Registration open for AIS management 101 course for non-professionals. Detectors core courses will open in March (two workshops in Hennepin Co), virtual, one in Park Rapids, and one in Itasca County, plus maybe South Dakota. Hoping some people want to be speakers at upcoming volunteer/extension conference at MN Landscape Arboretum. AIS Management101 Info: z.umn.edu/AISManagement101Reg. if interested in sharing on a natural resources topics with Extension natural resources volunteers and other nature lovers, we're looking for approx. 1hr long sessions at the Landscape Arboretum this May -- there's a form on this page to put info about your talk in: <https://gatheringpartners.umn.edu/>
- Paul Erdman: BWSR. Hurry up and wait mode with the legislature – waiting to see if we get more funding for CWMAs. Updated native vegetation establishment and enhancement guidelines. Also continuing to update state seed mixes – recently completed update for wetland and pollinator seed mixes. Native Veg Est Guidelines: <https://bwsr.state.mn.us/node/8806> State Seed Mix Updates: <https://bwsr.state.mn.us/seed-mixes>
- Rob Venette: MITPPC. Two big updates – just this morning RFP opened, pre-proposals due in April and priority list of species is unchanged from last year. Like MAISRC, we're hoping to launch some projects this month – ten from last year waiting with LCCMR staff. Just reinvigorated MITPPC newsletter. Spending a lot

of time at the capitol letting them know about IS and why they should be concerned.

<https://mitppc.umn.edu/about/apply-funding>

- Roger Becker: Still working on garlic mustard biocontrol, and hopefully will get a new petition submitted in a month or two. Another petition has been in for a long time, efforts are still ongoing. Knotweed work is continuing, including on seed production and seed viability – pathway of concern. Canada thistle, there's been scuttle on flurpyro\auxifen, working on work on that with Mark Renz in Wisconsin.
- Sascha Lodge: DNR Forestry rolled out new database for tracking work, including mobile reporting of invasive plants. Hoping for more EDDMapS reports in the future.
- Ariana Richardson: Inspection season schedules for 2023, and doing 2022 project evaluations of tool stations. Pretty basic back boards with tools to help folks clean drain dry boats with messaging – wound up being pretty successful but didn't have a great way of tracking use. Only 2-3 tools went missing. Will present on that at coordinator workshop for county staff. Looking into options for alternate funding for conservation AIS projects in county lakes.
- Shawn Mazanec: MMCD. In process of hiring new director. Continue to capture zika virus vector mosquito species.
- Jeffrey Flory: with 1854 Treaty Authority Lots of different projects happening, but too many to mention here. Yellow iris populations are starting to explode in Duluth - St. Louis River Estuary. Trying target that, but we are not able to treat the patches/infestations that are growing in the water.

12:00 NOON **Adjourn**

Thursday, January 19th, 2023

9:00 am **Welcome and Introductions**

43 attendees for all or part of the meeting:

Alyssa Bloss

Andrew Dickhart

Angie Gupta

Ariana Richardson

Bob Dunning

Breanna Wheeler – DNR Natural Heritage Advisory Committee

Caitlin Nagorka – NPS St. Croix National Scenic Riverway

Chelsey Blanke

Christina Basch

Cori Mattke

Dane Huinker

Davis Harder

Doug Jensen

Doug Johnson – California Invasive Plant Council (guest speaker)

Emily Dunlap

Ingrid Schneider – UMN (guest speaker)

Jacob Grandia

Jake Anderson – The Nature Conservancy

Jeffrey Flory

Jeffrey Kalin – NRCS

Jen Burington

Jen Larson

Jim Calkins

John Downing

Kate Wyman-Grothem

Kelly Pennington – MN DNR Invasive species prevention
Kelsey Taylor
Krishna Woerheide – Lake Superior Chippewa
Laura Van Riper
Maggie Barnick – MDA
Maria Young
Marian Shaffer
Mark Gaikowski – USGS
Matt Santo – invasives specialist with 1854 Treaty Authority (AIS)
Megan Weber
Monika Chandler – MDA noxious and invasive weed program
Nate Quadhamer – Lake County SWCD
Paul Erdmann
Rob Venette
Roger Becker
Sascha Lodge
Shawn Mazanec
Zach Burnside

9:10 am

Engagement Discussion

Impacts of terrestrial invasive species on people's experiences in the outdoors:

Ingrid Schneider, Ph.D. Forest Resources, University of Minnesota

- Short answer: people respond to invasive species management with concern and questions, sometimes they leave; some evidence that if they know more they are more likely to accept, and they want action.
- Compared visitor responses to photos showing varying management responses to EAB management, also varied social factors (number of people, dogs, etc.).
 - Percent of visitors who would displace ranged, forest condition was second most important factor – people don't like dead trees and planted trees (planted trees and tubes create a lot of questions)
- Colorado state park campers negatively reacted to mountain pine beetle impacted landscapes
 - Moderate or drastic impacts to quality of campsite, overall aesthetics, recreation
- What lead to displacement with MPB impacts? Another photo choice study, varying forest foreground/mid/background, visitors, dogs, signs about bikes
 - 15-68% of visitors would not return in response to different scenarios
 - Forest foreground was most important
- Change is inevitable, but how much change is acceptable?
- Series of acceptance surveys
 - One MN State Park survey in 2014 of EAB management – do nothing through complete harvest, in use areas and natural areas; 5 of the 8 were acceptable, but more so in use areas than in natural areas
 - State Park survey in 2021 – 4 main approaches with simple text descriptions; 3 of the 4 were acceptable (do nothing was not)
- Explored diverse perspectives (BIPOC) on IS management, online state park survey in 2021
- Action is required, most actions have been accepted, language is a possible influence, need a diverse sample
 - People want information, when they get information often they will be more accepting of the management being done (or not done)

- Augmented reality research: What Really Works? Testing Augmented and Virtual Reality Messaging in Terrestrial Invasive Species Management Communications to Impact Visitor Preferences and Deter Visitor Displacement. Environmental Management. <https://rdcu.be/c3zup>
- Take-home message: Do something about invasive species. Explain what you're doing. Use plain language.

9:55 am

Break

10:10 am

Engagement Discussion

Securing Funding for Terrestrial Invasive Species Management:

Doug Johnson, Executive Director, California Invasive Plant Council (Cal IPC)

- Cal IPC is a private non-profit in CA, similar to Midwest Invasive Plant Network (MIPN) locally; was all-volunteer now has 7 staff (MIPN has 1); active board with many subcommittees; original goals: annual conference, publish quarterly newsletter, weed list; mostly grant-driven from state, federal agencies, private foundations, funding from conference sponsorships, have ~600 members and working to get donations from them
- Recently helped get \$10 million from state general fund for weed management areas – goes to state food and ag department out to weed management areas
- CA ag department regulates weeds, but mostly focuses on agricultural weeds, so Cal IPC tries to fill the niche into other invasive plants
- What has worked?
 - Being ready for windows of opportunity. \$10m sounds like a lot, but there was a \$100 Billion surplus recently, so it's a lot but it's also budget dust. It came about because spent many years educating legislative offices about what are weeds, hired paid/pro-bono lobbying firm in Sacramento to be eyes and ears on how things are working in the legislature (grassroots lobby days bringing land managers in) – been very helpful in understanding the nuances of budget-building
- Cal Weed Mapper tool, used for prioritizing: <https://www.cal-ipc.org/resources/calweedmapper/>
- Recommends an “education day” at the legislature for legislative staff, or hold a hearing if there are a couple of legislators who are into invasives, or hold a conference/summit and invite legislators
- Take-home message: Position yourself for windows of opportunity and do whatever you can when they present themselves.

11:10 am

2023 Planning

- Goal review (5 min)
 - Reviewed 2023 goals that were proposed at last meeting
 - Discussion around adding a goal to explore advocacy, engagement, to seek ways to get more consistent funding for invasive species.
 - Some concerns about limitations to participation by feds/state folks related to lobbying
 - EmpowerU, will be offering a TIS course this spring. Still working on the details: <https://extension.umn.edu/courses-and-events/empoweru-advocating-invasive-species-management>
 - Voted to add goal, “Explore opportunities for seeking more funding for invasive species.” 27 yes, 4 abstain (31 total votes)
- Engagement discussion topics (15 min)
 - Brainstormed additional engagement discussion topics

Terrestrial topics

Presentation on pesticide use, specifically glyphosate, public perspectives, non-target impacts, etc. – no presenter suggested-
Stink Bugs -?

Aquatic topics

The ecology of environmental DNA – no presenter suggested
Adapting climate modeling for aquatic invasive species (looking at water vs. air temp, etc.) – USGS?
Great Lakes AIS Landing Blitz – no presenter suggested

Terrestrial and aquatic

Research at the USGS Upper Midwest Environmental Sciences Center – Mark Gaikowski, etc.
Speakers from Legislative-Citizen Commission on Minnesota Resources and their considerations related to invasive species –
Megan may have suggested speakers
MSP International Airport customs/import pathway – no presenter suggested, MDA Essam Dabaan from MISAC?
Developing a database of nonnative species occurrences – Jennifer Lamb
MEP – Mn Environmental Partnership-

- MDA has pesticide presenters (Jen Burington can get names)
- Jacob Grandia suggested biocontrols as a topic
- Christina: The UMISC presentation from the Corteva rep on red light exposure and weed suppression was interesting.
- Kate Wyman-Grothem: Ceci Weibert from the Great Lakes Commission has given a few talks at national/international conferences on the Great Lakes AIS Landing Blitz; she may be willing to give that presentation here
- Doug Jensen: There are many potential speakers on eDNA at federal, state and university levels. It is a quickly evolving field, perhaps we could invite those who are providing that federal leadership?
 - Adam Sepulveda with USGS is a good contact for eDNA (Drew suggested)
 - Jeffrey Flory: There has been recent research on using eDNA in the air to detect terrestrial species by two separate efforts in Europe:
<https://peerj.com/articles/11030/>
<https://www.sciencedirect.com/science/article/pii/S0960982221016900> They focused on detecting endangered species, but this could also be used to detect invasive species.
- MSP airport/customs import pathway: John Vryens with University of Minnesota Extension Global Initiatives could help contact Customs and Border Patrol for tour)
- Organisms in Trade committee engaging law enforcement with AIS specialists, communication disconnects – Francine MacDonald (Ontario) and Greg Hitzroth (Illinois/Indiana Sea Grant); suggested by Doug
- Megan Weber: Maybe something on language of aquatic invasive species? Potential speakers could be Brett Shaw/Tim Campbell from UW Extension and El Lower at GLANSIS
- Mark Gaikowski: USGS-UMESC is collaborating w FWS to implement eDNA assays at ports of entry to detect AIS in imports. Jon Amberg or Steve Spear could speak on that issue. Both could also speak on broader application of eDNA assays to IS and cryptic native species. Ryan Burner or Richie Erickson at USGS-UMESC could speak about the climate change issue.
- Laura Van Riper: Looked at our calendar brainstorm list. What about community science updates, new community science projects, and what is working well for keeping people engaged.
- Matt Santo: This might be too specific as a presentation for this group, but something we are interested in is conducting some hybrid cattail removal on a wild rice lake. Generally, (and, specifically because it is a wild rice waterbody) our band members are cautious about using chemical control strategies. As such, if anyone has experience with mechanical removal of invasive cattail (successful or not), I would be eager to connect and learn about your efforts! msanto@1854treatyauthority.org

- Shawn Mazanec: Capitol Region Watershed District in 2022 killed off curlyleaf pondweed (which over took almost all native plants) and transplanted native plants from a Washington County Lake to Como Lake - interesting work.
- Maria Young: Potentially something on rusty crayfish management and control.

11:30 am **Updates from members**

- Monika Chandler: Shared updates to the Noxious Weed List.

Changes to the Minnesota Noxious Weed List effective 01/01/2023

- **Additions to the Prohibited Eradicate designation**
 - Johnsongrass, *Sorghum halepense*
 - Pale swallow-wort, *Cynanchum rossicum*
 - Red hailstone/ goldencreeper, *Thladiantha dubia*
- **Addition to the Restricted designation**
 - Amur silvergrass, *Miscanthus sacchariflorus*
 - Lesser celandine, *Ficaria verna*
 - Saltcedar, *Tamarix ramoissima*
- **Additions to the Specially Regulated Plant designation**
 - Amur corktree, *Phellodendron amurense*
Only sales of named male cultivars permitted. Sales of all other *Phellodendron amurense* are prohibited. All existing planted and escaped fruit producing trees must be controlled, by tree removal or other means, such that no seed is disseminated.
 - Callery pear, *Pyrus calleryana*
Three-year production phase-out period, after which sale of this species will be prohibited and the species will be designated as Restricted in 2026.
 - Tatarian maple, *Acer tataricum*
Sellers shall affix a label that advises “Tatarian maple should only be planted in areas where the seedlings will be controlled or eradicated by mowing or other means. Tatarian maple seed is wind dispersed so trees should not be planted closer than 100 yards from natural areas”.
- **Changes in designation for species already listed** – Change from Prohibited Eradicate to Prohibited Control for the following species.
 - Meadow knapweed, *Centaurea x moncktonii*
 - Poison hemlock, *Conium maculatum*
 - Round leaf bittersweet (formerly oriental bittersweet), *Celastrus orbiculatus*

Species evaluated without changes to the list

- **No change in status** – The recommendation was for yellow starthistle (*Centaurea solstitialis*) and giant hogweed (*Heracleum mantegazzianum*) to remain listed as Prohibited Eradicate and for black locust (*Robinia pseudoacacia*) to remain listed as Restricted.
- **Do not list** – Baby’s breath (*Gypsophila paniculata*), Siberian elm (*Ulmus pumila*), castor bean (*Ricinus communis*), garden valerian (*Valeriana officinalis*), honeyberry (*Lonicera caerulea*), Japanese tree lilac (*Syringa reticulata*), and kudzu (*Ulmus pumila*) were evaluated.
- Matt Santo: This summer will do general surveillance. Will work with NRRI on MAISRC project funded on rusty crayfish management/trapping. Also planning cattail control and looking for advice if you have it.
 - Doug Jensen: Matt - Concerning cattail control, contact Amy Schrank, Water Resources Center/MN Sea Grant, aschrank@umn.edu <https://seagrant.umn.edu/programs/healthy-coastal-ecosystems-program/invasive-cattail-dominated-shorelines>

- Jake Anderson: Finishing last year's data compiling from field season and reporting. Planning for coming season. Have openings for seasonal positions.
- Dane Huinker: Wildlife Forever. Introducing Zach Burnside, new invasive species coordinator. Elliot (former WF) was recently elected to MN State Legislature. Zach will be doing outreach/education through Clean Drain Dry. Dane will be stepping down from his role on March 1 (moving more into private work on invasives).
 - More info on Elliott: <https://www.elliottengen.com/> and formerly Invasive Species Program Coordinator at Wildlife Forever <https://www.wildlifeever.org/home/about/our-staff-and-board/>
- Jacob Grandia: Wanted to let people know that we are also looking for seasonal workers for a number of different jobs please give my email to anyone interested jacob.grandia@llojibwe.net
- Mark Gaikowski: Year three of tagging fish at lock and dam 19. Evaluating bioacoustics fish fence. Presenting mussel research: <https://invasivemusselcollaborative.net/event/webinar-recent-imc-tools-and-accomplishments-2/>

Ariana: Feel free to share any job postings with the MISAC google group. Send emails to: minnesota-invasive-species-advisory-councils@googlegroups.com

12:00 NOON **Adjourn**

E-mail Address for Group Between Meetings

minnesota-invasive-species-advisory-councils@googlegroups.com

MISAC Committees

Website

- Ariana Richardson, Chair
- Kelsey Taylor, Doug Jensen

DEI

- Ariana Richardson, Chair
- Kate Wyman-Grothem, Kate Hagsten, Katie Sickmann, Jennifer Burington, Andrew Dickhart, Val Cervenka, Kelsey Taylor

UMISC 2024

- Program committees
 - Terrestrial:
 - Aquatic: Doug Jensen
 - Either aquatic or terrestrial:
 - UMISC field trip: Doug Jensen
- Media committee Doug Jensen

Carol Mortensen Award

- TBD in late 2023

- 2022 Committee Members: Laura Van Riper, Bob Dunning, Emily Dunlap, Sascha Lodge, Ariana Richardson

MISAC Bylaws Revision

- TBD in late 2024, next revision due in 2025