

Indiana Invasive Species Council Public Meeting Minutes

Tuesday, July 25, 2017 from 10:00 AM to 3:00 PM

Indiana State Board of Animal Health

Discovery Hall, Suite 100

State Fairgrounds, 1202 East 38th Street, Indianapolis, IN, 46205-2898

1. Welcome, roll call and introductions: – IISC chairman Heather Reynolds

Sandy Norman, BOAH staff and Council member, welcomed and oriented participants to the BOAH offices

Council members present:

- Heather Reynolds, Associate Professor, Indiana University, hreynol@indiana.edu (IISC chair)
- Megan Abraham, State Plant Regulatory Official, State Entomologist, and Division Director, IDNR Division of Entomology and Plant Pathology, Department of Natural Resources, MAbraham@dnr.IN.gov
- Eric Fischer, Aquatic Invasive Species Coordinator, IDNR, Division of Fish and Wildlife, efischer@dnr.in.gov
- Philip Gramelspacher, representing Indiana Forestry and Woodland Owners Association, pgramelspacher@insightbb.com (appointment expired at the end of June 2017)
- Matthew Kraushar, Indiana Department of Transportation, mkraushar@indot.in.gov
- Kristopher Krouse, Executive Director, Shirley Heinze Land Trust, kkrouse@heinzetrust.org
- Sandra Norman, representing Indiana State Board of Animal Health, snorman@boah.in.gov
- Mike Warner, Certified Forester, ArborTerra, mwarner@arboterra.com
- Steve Yaninek, Professor, Dept. of Entomology, Purdue University, representing the Dean, College of Agriculture, Purdue University, yaninek@purdue.edu

Council members not present:

- Jeff Cummings, Indiana State Department of Agriculture, jecummins@isda.in.gov
- Rick Haggard, Executive Director, Indiana Nursery and Landscape Association, haggard.rick@att.net

Other attendees:

- Lynn Dennis, Director of Government Relations, Indiana Chapter of The Nature Conservancy, ldennis@tnc.org
- Songlin Fei, Associate Professor, Dept. Forestry and Natural Resources, Purdue University, sfei@purdue.edu
- Chris Gonso, IDNR Forestry, Owen County, cgonso@dnr.in.gov
- Phil Marshall, Forest Health Specialist, Indiana Department of Natural Resources, Division of Forestry and Division of Entomology and Plant Pathology, pmarshall@dnr.in.gov
- Cliff Sadof, Professor, Dept. of Entomology, Purdue University, csadof@purdue.edu
- Dawn Slack, Southern Indiana Land Steward, The Nature Conservancy,

dawn.slack@tnc.org

- Carl Vogelwede, Wildlife Biologist, USDA, APHIS, cavoglew@purdue.edu

2. Adopt 5 May 2017 agenda & approve 5 May 2017 minutes.

- Motion to approve 25 July 2017 agenda (see **Appendix I**) and 5 May 2017 minutes by Steve Yaninek, 2nd by Mike Warner. Motion passed.

3. Old business:

- Council appointments update (Heather Reynolds) – made recommendation based on Council recommendation to governor’s office
 - Clarified that Phil Gramelspacher’s appointment expired at the end June. Discovered that the Council currently has the two industry positions already filled with the appointments of Mike Warner and Rick Haggard, so no new industry rep is needed. Heather thanked Phil for his long and valued service on behalf of the Council. Phil asked to remain on the Council’s email distribution list.
 - The Council is still down one position for land trusts/conservation/parks. Heather contacted Linda Broadfoot, the new director of Indy Parks and Recreation, about her interest in serving if appointed to the Council, and she has agreed.
 - **Action item:** Heather Reynolds will reach out to the governor’s office regarding the appointment of vacant land trusts/conservation/parks position on the Council.
- Executive Director funding, next steps (Lynn Dennis, Mary McConnell)
 - no new update
 - **Action item** – Lynn Dennis will meet with John Baugh about next steps.
- Letter to governor in support of Terrestrial Plant Rule (Jeff Cummins)
 - **Action item** – Heather Reynolds will forward draft letter (see **Appendix II**) to governor’s office through Chris Smith of DNR. Megan Abraham will bring the letter to DNR.
- Framework for Purdue Extension Statewide Invasive Species Surveillance (Heather Reynolds, Steve Yaninek)
 - Objective is to better engage Purdue Extension as an invasive species partner with state agencies in early detection and public outreach. Steve’s role could help fill some of the gaps due to missing IISC Executive Director position.
 - Letter of support from the Council send by Heather to Stephen Cameron, head of the Department of Entomology in June and forwarded to Purdue Extension staff for feedback. Will submit a revised proposal to administration at the beginning of the fall semester.
 - Megan mentioned plans by Gail Ruhl to prepare a Farm Bill proposal to train educators and secure new microscopes for the training, and asked about the relationship to this proposal.
 - **Action item:** Steve Yaninek to contact Gail Ruhl to learn more about her plans and how this fits with this new proposal.
- Combined OISC-DNR DEPP emergency rule-making authority (Jeff Cummins) – no update
 - Motivated by the fact that neither DNR nor OISC have emergency rule-making authority (one of few agencies who do not). Can only make temporary rules.
 - **Action item:** Megan Abraham will follow up with Jeff Cummins for Nov.

4. New business:

- Mute Swans in Indiana – Carl Voglewede, Wildlife Biologist, USDA APHIS Wildlife Exercises, (765) 494-6220
 - currently doing surveys in northern half of state – over 200 lakes and > 1000 birds.
 - For more information:
 - Nuisance Wildlife - www.in.gov/dnr/fishwild/2351.htm
 - Learn about mute swans - http://www.in.gov/dnr/fishwild/files/mute_swan_3.pdf
 - Questions/comments:
 - Dawn Slack – brood size? 4-6, but state record last year was 11! Some people become attached emotionally to individual swans, which is one reason DNR has struggled and not put more effort beyond a webpage. Chris added that USDA doesn't have the data needed to answer some of the management questions that are raised.
 - Phil Marshall – when you say remove, what does that involve? Different levels of removal including eggs, eggs and adults, adults.
 - Phil Gramelspacher – why do you need to be permitted to remove Mute Swans which are not native?
 - Dawn Slack – it has to do with the definition of wildlife and invasive species in the law, which is confusing.
 - Chris: Mute Swans are not federally protected (protection removed, delisted, in 2004), but do have state protection. There is a procedure for requesting a permit to remove swans.
 - Phil: current approach will not impact problem unless public is allowed to manage directly without permits. Why doesn't DNR make the necessary changes?
 - Lynn Dennis – DNR addressed similar issues in the past and received severe pushback, so they are not likely to pursue just any issue for just any reason.
 - Mike Warner - has anyone ever been prosecuted for taking Mute Swans without a permit? Not to anyone's knowledge.
 - Heather Reynolds – how do you get these swans in the first place, since you are not allowed to have them as pets. Chris - internet and illegal pet trade.
 - Sandy Norman – needs more education to teach people what to do.
 - Heather Reynolds – issue regarding getting the word out dovetails with ideas from Steve Yaninek later in the agenda
 - Steve Yaninek – when do we let a species go? Carl – probably needs more outreach with the public to make the issue clear; some people still think these swans are native; some associations have been able to manage these swans aggressively and successfully.
 - Chris Gonso – Mute Swan eggs are being sold online in Michigan, so how does this impact the population in Michigan or elsewhere? Carl could not answer this question.
- National Forest Ecosystem Web-based Invasion Map – Songlin Fei, Assoc. Prof., Purdue

- Collaborates with USDA Forest Service, NC State Univ and Purdue faculty
- Synopsis – looking at long-term data on plant invasions to learn about important invader patterns and processes, e.g., ability to propagate vegetatively; invasive species richness and prevalence (from FIA – Forest Inventory and Analysis - data)
 - Modeling Invasion Dynamics Across Scales (MIDAS): Spatiotemporal scales and considering drivers and characteristics of the recipient system.
 - Web tool: National Forest Ecosystem Web-based Invasion Map – based on FIA database, so requires forest surveys to populate data.
 - Research website: <http://web.ics.purdue.edu/~sfei/midas-data-products.php>
- Questions:
 - Songlin Fei – are these maps useful?
 - Phil Marshall– could link IISC website for public outreach; add common names to facilitate use
 - Heather Reynolds – could help IISC and agencies to set priorities
 - Megan Abraham – maps limited by presence/absence information, but still useful; would like current prevalence data; knows that EAB is present in every county.
 - Songlin – can provide maps with fine grain resolution if data are available; plants more doable, but still challenging with 6000 acre plots - easier to do with plant distributions than with insect distributions.
 - Steve Yaninek – like maps to present data and make case; would like dynamic real-time mapping.
 - Cliff Sadof – would be useful to add information about defoliation, or proportion of dead host plants, other data related to invasion impact.
- Invasive species communication plan - Cliff Sadof
 - Presented an early draft proposal being developed with Kenny Wilson in the AgComm department in College of Agriculture at Purdue University (see **Appendix III**).
 - Objectives are to increase public awareness and increase reportings of invasive species.
 - Idea is to roll out in January with all new messages for trade show meetings where input/suggestions will be requested, then again in February for IISC conference, then on a regular basis with messages added routinely after that.
 - Phil Marshall - keep in mind the invasive species that correspond to the season when outreach messages are being delivered.
 - **Action item:** propose a list of 6-10 poster species (not top ten species) to use as a focus for the proposed outreach campaign - Heather Reynolds
- Invasive Plants Advisory Committee – Dawn Slack
 - IISC Biannual Conference on “Grassroots Networking and Resources to Manage Invasive Species in Indiana” in Danville 4-H Conference Center, Hendricks County Fairground, Danville, IN on February 15, 2018 (see working group minutes in **Appendix IV**)
 - Reviewed proposed agenda (see **Appendix V**)
 - Target audience – county weed management boards and county invasive species management boards, Purdue Extension Educators and some DNR

- staff; ballpark audience about 80 people.
- Main focus of the meeting is to help county boards to network with relevance agencies and groups in the state. Industry is not a target of this meeting.
 - Expect to have a packet of information to distribute at the meeting
 - Discussion:
 - Mark Warner – putting together a sponsorship package with an appropriate fundraising goal.
 - Songlin Fei – depending on audience, can always apply for grants. Think of meeting objectives, then design questions for working lunch around these questions.
 - Steve Yaninek – reminded members that the Council has an account at Purdue with a balance of about \$5,000.
 - Steve Yaninek - What message are we delivering, and what do we want participants to take away from the meeting? Consider limiting talks to 15 mins + 5 mins Q&A; also get participants more engaged in the program; where do we learn from them in the current program? Consider a working lunch by allocating more time, but also give specific assignments; and get a “Save the Date” message out ASAP.
 - Heather Reynolds – proposed speed round may help to engage participants
 - Dawn Slack – who follows-up on the issues raised by the participants? The Council? Others? Cooperative Weed Management Associations (CWMAs) want solutions and resources. How to make this happen in a short 6-hour meeting?
 - Heather Reynolds – encourage presenters to pose questions for discussion in their presentations (or Heather could do this in her overview at the beginning of the meeting); participants can share problems and solutions. Heather can provide a synopsis of the discussions, issues and recommendations at the end of the meeting.
 - Dawn - Participants will want solutions and resources to address issues.
 - Heather - Council can generate questions for CWMAs at the November Council meeting.
 - **Action item:** Add generating questions for CWMAs to agenda for November Council meeting – Heather Reynolds.
 - Chris Gonso – Owen county interested in establishing a CWMA, so it would be nice if people from the county can come to the meeting and learn what it would take to get this done.
 - Phil Marshall – maybe do this like the plant board does for new members – plant board 101! Could be done at lunch. Do we need a second day?
 - Matt Kraushar – get and give feedback to participants. Do we need a one day program tied to a specific species?
 - Heather Reynolds – that could be down the road, after establishing contacts through this networking meeting
 - Dawn Stack – How does the Council help? Whose job is it to address the issues raised at the meeting?
 - Matt Kraushar – review the information generated from the meeting and see if it fits into Council purview.
 - Heather Reynolds – could help Council set priorities for coming

- year; also solicit answers to questions the Council has for participants.
- Dawn Slack – meeting agenda is still very much a draft and subject to change; attendees include CWMAs, Extension specialists and educators, DNR regulatory personnel, nature preserves, land holding agencies, Soil Water Conservation Districts (SWCDs).
 - Phil Marshall – consider using the morning to present information, working lunch to raise issues and the afternoon for group discussions; can split groups according to interests and needs.
 - Steve Yaninek - consider making the meeting longer if we need the time to get the work done.
 - Heather Reynolds – prefers a shorter meeting.
 - Phil Gramelspacher – reminded us this will be in February.
 - IISC website
 - Dawn Slack and Heather Reynolds thought Cliff Sadof was leading a revision of the IISC website
 - Not the case according to Cliff.
 - Dawn – IISC website needs a new look and a new/better url; who do I talk to?
 - **Action item:** contact Steve Yaninek for updates and upgrades needed for IISC website, which is being managed at Purdue by Entomology with the help of Ben Prickel; likewise, for new url - Indiana Invasive Species.org
 - SICIM update regarding CWMA
 - cooperative agreement with USDA National Resource Conservation Service (NRCS); several upcoming meetings; would like a rep from Council on Southern Indiana Cooperative Invasive Management (SICIM) board; Mark Warner volunteered to represent Council at last meeting.
 - Aquatic Invasive Advisory Committee – Eric Fischer
 - IDNR revising 11-year old IN Aquatic Invasive Species Management Plan, which is used to identify priorities and create work plans (last year received over \$600,000 in federal grants for this work); Asian Carp, hydrilla other species will be more prominent, as will new rules. Plan will be submitted to feds (National Invasive Species Task Force) for review.
 - Still working to eradicate hydrilla in Manitou lake near Rochester using herbicides; will be subject of scientific paper that describes approach
 - Asian carp – silver carp found 9 miles from Lake Michigan in Illinois (this is many miles past the electric barrier in Indiana); first inland reservoir (Turtle Creek SW of Terra Haute) with Asian Carp with intake from Wabash for power plant management; working on bait collecting restrictions in Asian Carp tailwaters.
 - Emerging Invasive Species Issues and Update – Megan Abraham
 - Farm Bill time – expect \$100K in proposals with CAPS (Larry Bledsoe), invasive communication plan (Cliff Sadof), nursery survey, Thousand Cankers Disease survey, firewood survey.
 - Gypsy moth spray program (with *Bacillus thuringensis*) continuing at Purdue University and other northern locations.
 - Thousand cankers disease/walnut twig beetle meeting in Lafayette in June.
 - Consensus on what is needed for survey.
 - Looks like pest is not as bad as once thought. Indiana has fungus and

- beetle, but not the disease.
 - Working on getting Indiana delisted as an infested state.
 - EAB biological control release – releasing four different parasitoid species as biological control agents.
 - Hemlock woolly adelgid surveys in north and southwestern Indiana. Still not found in Indiana.
 - Gypsy moth eradication program continues with federal funding. If county falls behind in survey and treatment, they move behind the line where establishment has been declared and risk quarantine.
 - Infestation on Purdue campus appears to be eradicated.
 - Kudzu management program will continue in August in southern Indiana.
 - Boxwood blight nursery survey will continue this summer. Nothing found yet.
 - Reviewing trace-forward reports in late summer of an Asian thrips found on Hosta imported to a distributor in Michigan that had shipped plants to many locations including Indiana. Survey and education program for nursery owners will begin in 2017 for this new potential pest thrips species.
- Emerging Invasive Species Issues and Update – Dawn Slack
 - Running bamboo new find.
 - Yellow iris (*Iris pseudacorus*) came in on ReportIN; posted on listserv and received many positive responses from around the state. Possible it was used in landscape bioswales. Dawn will be making follow-up surveys.
 - Great willow herb (*Epilobium hirsutum*) another new find reported through ReportIN. Considered a high to moderate invasive species. Obligate wetland species. All three locations are being actively treated. Can take up to 5 years to eradicate due to underwater rhizomes.
 - Also, wineberry (*Rubus phoenicolasius*) and other plant species have been report on ReportIN.
 - Purple loosestrife (*Lythrum salicaria*) is visible along the road in Harrison County
 - Appears to be spreading in recent years;
 - State law prohibits its selling and transportation, but landowners are not required to do anything if infested
 - DNR still has permit to release biocontrol agent (*Galerucella* spp. beetle herbivore); importing beetles from neighboring states are exempt from permit requirements.
- Updates from Working Groups
 - Tactical Plan (Heather Reynolds)
 - 2018 IISC meeting dates (Feb 1, May 2, July 25, Nov 7 are proposed, all Wednesdays)
 - Agency Listserv – work with Purdue Entomology to create and update lists
 - **Action item:** Heather Reynolds to work with Steve Yaninek to get IISC listservs managed by Purdue Entomology updated as needed.
 - Discuss Strategies for Addressing Tactical Plan Sections
 - Council needs actions on:
 - Sec.4.(6) Invasive Species Policies & Procedures
 - Sec.4.(7) Performance Measures Review
 - Sec.4.(9) Apply for Grants

- Sec.4.(10) Provide Grants for Education or Management of Invasive Species
- Phil Marshall – where does IDEM fit in this plan?
- Steve Yaninek suggested reaching out to agency reps on the Council for suggestions on Sec.4.(6) and Sec.4.(7), while an ad hoc committee could address Sec.4.(9) and Sec.4.(10)
 - Heather Reynold's sense is that we are max'd out on committees and no one will have time to do this work.
 - Do we continue to hold off on this duty until an executive director position is funded?
 - Phil Gramelspacher – is it practical for the Council to ask for feedback from state agencies to address our Tactical Plan? Which state agencies are we talking about? Maybe we can ask them to come every year to make a presentation? Not sure it is fair for us to review their performance measures, but they could update us on their performances.
 - Eric Fischer– Council members wear two hats – one for the Council and one for the agency. I can review work and policies through both perspectives. Performance measures established and required by federal government to qualify for federal support.
 - Heather– can the Council take action to remove Sec.4.(6) and Sec.4.(7) from its purview?
 - Note from Steve Yaninek: we may ignore these sections, but they are still in the legislation as Council responsibilities.
 - Megan Abraham – a possible solution could be for the Council to have broad knowledge about agency's relevant invasive species activities; most legislation for invasive species are with DNR; not sure IDEM or Veterinary Services has much in the way of invasive species authority or mandates.
 - Heather – so IDEM is the only relevant agency that is missing from the Council representation; maybe we need to invite them to present from time to time?
 - Megan – not sure IDEM has much at stake with what is being addressed by the Council.
 - Steve – idea of Council since its inception it to help with communication between agencies.
 - Eric – Council is already doing some of this, for example Sec 4.(6) and work of IPAC
 - Heather – perhaps we are already addressing most of these sections in ways that are appropriate given our limited capacity
 - Mike Warner – agree with Heather, and suggested we might want to reach out to other agencies, state and federal, not regularly represented on the Council for some input,

- i.e., NCRS, USFS
- Phil M. – consider inviting state parks from DNR; support from Council important when requesting for federal support.
 - Lynn Dennis – communications between agencies has not always been the bests, so anything the Council can do to help them do their jobs better could be helpful; might help by communicating with appropriators.
 - Phil M. – help divisions and agencies to find opportunities for synergies to help get the work done in more effective and efficient manner.
 - Steve – propose looking at how the Council can help agencies and partners address their invasive species issues; needs to be positive and proactive, not punitive or judgmental.
 - Sec.4.(9) Apply for Grants
 - Heather – we need an executive director to do this.
 - Steve – where do we need attention? Biannual conference. Public outreach? Other?
 - Phil M. – invasive plant work in forests could be a target; US Senate has a bill on forest health that could help support block grants to states and competitive grants for research.
 - Matt Kraushar – seems like Executive Director position is linchpin in this regard, so what do we need to do to get this funded?
 - Lynn – attempts to put request as part of Purdue request to legislature not successful, so maybe need input and push from state agencies;
 - Phil G. – maybe we can go back to legislature and say we cannot do what has been outlined in the legislation without support.
 - Heather – working group or Executive Director position to get some of the work done (Lynn Dennis working groups can include outside individuals/groups, e.g., Indiana Conservation Alliance).
 - Phil G. – where would Executive Director position be based?
 - Lynn – Purdue Agriculture is secretary of Council.
 - Heather - need to move forward on Executive Director position request; who will take the lead?
 - Steve – this is where Lynn Dennis and John Baugh have helped us in the past on this issue.
 - Lynn – will meet with John Baugh and would be willing to discuss this issue.
 - Steve – request for Executive Director position has

come about because the Council has not been able to do the work required by the legislation with volunteers and no budget.

- Lynn – original task force had an Executive Director position as the second recommendation after establishing Council
 - Phil M. – at the time, we could not do both recommendations because of the economic situation, so left money off the initial request.
 - Phil G. – natural progression to request support after some time to go the next step to fund the Executive Director position.
 - Heather – we need to remove the working groups for Sec. 4(9) and (10) from the Tactical Plan because they don't work. Agreed?
 - **Action item:** Investigate whether leadership in state agencies represented on the Council might work together with Purdue leadership as another approach in soliciting support for an IISC Executive Director – Lynn Dennis, John Baugh and Phil Marshall.
 - Sec.4.(10) Provide Grants for Education or Management of Invasive Species
 - Legislators want agencies to request money for things. Perhaps BOAH, INDOT and DNR request, with Purdue, the Executive Director position. Lynn will talk to John about this in a few weeks. This might be a new tactic. IISC has mandate through code to do various things.
 - **Action item:** Change tactical plan to remove working group references – Heather Reynolds and Tactical Plan working group.
 - Communications and website (Larry Bledsoe)
 - Larry not present
 - M. Kraushar – not aware of any feedback
 - **Action item:** Steve Yaninek and Larry Bledsoe to follow-up with Purdue Entomology web manager (Ben Prickel) on IISC website analytics.
 - Education and Outreach – Mike Warner
 - No new feedback
5. Updates or announcements from the Council and public
- IN Invasive Species Annual Report - Steve Yaninek
 - Asked for feedback about interest and value in having some kind of annual report on invasive species in Indiana from the Council.
 - Idea is simple media friendly synopsis about the status of invasive species in the state each year for the general public. DNR does a great job compiling their information which is considerable, but they don't cover all taxa, and probably provide too much detail for the public. Other programs do the same – Indiana CAPS, Purdue Plant Diagnostic Laboratory, the Nature Conservancy, etc.

- Council could release an annual report in the form of a press release, perhaps each spring, to raise the visibility of invasive species in the state and let the citizens know what is going on.
 - Could be part of a Communications Strategy that is coordinated with the Purdue Communication Plan.
 - Combine with our website revitalization and make a new website button to feature a few new things each quarter – we might make these decisions at each quarterly meeting.
- Heather Reynolds – maybe something less burdensome than a report, but a website. We might also think about a digest of the resources/alerts etc. that IISC considered each year.
 - Steve – could be a dynamic reporting tool, like FaceBook posts, where timely info is posted as available.
 - Heather – could be our revitalized website where each quarter new announcements are posted; maybe quarterly email that is very visual; need a template
 - ?Matt Kraushar - Could be part of the Communication Plan proposed by Cliff Sadof. Who would do quarterly email report?
 - Steve – every Council member and their affiliation have important and interesting invasive species news and information they may like to share with a wider audience. Might be more than a website, or email, but an entire series of media depending on the message and the audience.
- Kris Krouse – need to figure out how to deliver messages from the Council to a broader audience; a newsletter is old fashion; what is the best way to get member’s reports to Council audiences. If we had a good template and messaging schedule, then each member/partner of the Council could be assigned a topic/issue to provide content.
- Steve – need to be flexible; will follow-up on this idea and how it might synergize with other communication strategies.
- **Action item:** Explore opportunities to develop regular reports on invasive species from content provided by Council members and partners. The objective would be to highlight the work of the Council for our stakeholders and the public – Steve Yaninek

6. Next meeting: November 3, 2017

- IISC chair will confirm availability of BOAH office for next meeting
- **Action item:** Send agenda items to IISC chair

7. Next steps/action items:

- Reach out to the governor’s office regarding the appointment of vacant landtrusts/conservation/parks position on the Council – Heather Reynolds
- Lynn Dennis will meet with John Baugh about next steps for funding the proposed Executive Director position – Lynn Dennis
- Forward IISC letter to governor in support of Terrestrial Plant Rule – Heather Reynolds and Megan Abraham
- Contact Gail Ruhl to learn more about her plans to request Farm Bill funding to train Extension educators and buy new microscopes for the training; specifically, how this might fit with this new Extension Invasive Species Program proposal to Purdue

University – Steve Yaninek

- Follow-up with Jeff Cummins regarding combined OISC-DNR DEPP emergency rule-making authority for November IISC meeting –Megan Abraham
- Solicit the input from Council members and partners for their 6-10 most unwanted invasive species as possible “Post children species” for social media communication campaign – Heather Reynolds will coordinate feedback and send results to Cliff Sadof.
- Add generating questions for CWMAAs to agenda for November Council meeting – Heather Reynolds.
- Revise IISC website to reflect format proposed by the Invasive Plants Advisory Committee, and change the domain name to “Indiana Invasive Species” – Dawn Slack to send format and proposed URL name to Steve Yaninek for follow-up
- Update IISC listservs by working with Purdue Entomology where the listservs are managed – Heather Reynolds and Larry Bledsoe
- Investigate whether leadership in state agencies represented on the Council might work together with leadership at Purdue as another approach in soliciting support for an IISC Executive Director. – Lynn Dennis, John Baugh and Phil Marshall
- Change tactical plans to remove references to working groups – Heather Reynolds and Tactical Plan working group
- Follow-up with Purdue Entomology web manager (Ben Prickel) regarding web analytics for IISC website – Steve Yaninek and Larry Bledsoe
- Explore opportunities to develop a regular report from content provided by Council members and partners to highlight the work of the Council for our stakeholders and the public– Steve Yaninek
- Add item to agenda for next IISC meeting - develop IISC questions for CWMAAs at upcoming biannual conference – Heather Reynolds
- Send agenda items for next IISC meeting in November - IISC chair (Heather Reynolds)

Motion to adjourn by Steve Yaninek, 2nd by Kris Krouse

2:45 PM – Meeting adjourn

Appendix I**Indiana Invasive Species Council Public Meeting****AGENDA**

Tuesday, July 25, 2017 from 10:00 AM to 3:00 PM

Indiana State Board of Animal Health

Discovery Hall, Suite 100

State Fairgrounds, 1202 East 38th Street, Indianapolis, IN, 46205-2898

10:00 AM

1. Welcome, roll call and introductions: – IISC chairman Heather Reynolds
2. Adopt agenda & approve May 5, 2017 minutes
3. Old business:
 - Council appointments update (Heather Reynolds)
 - Executive Director funding, next steps (Lynn Dennis, Mary McConnell)
 - Letter to governor in support of Terrestrial Plant Rule (Jeff Cummins)
 - Framework for Purdue Extension Statewide Invasive Species Surveillance (Heather Reynolds, Steve Yaninek)
 - Combined OISC-DNR DEPP emergency rule-making authority (Jeff Cummins)
4. New business:
 - Mute Swans in Indiana – Carl Voglewede, Wildlife Biologist, USDA, APHIS
 - National Forest Ecosystem Web-based Invasion Map – Songlin Fei, Assoc. Prof., Purdue
 - Invasive Plants Advisory Committee
 - IPAC update (Spring Conference, website, new invasive plants, IPSAWG, IISC council member appointment to SICIM steering committee) – Dawn Slack, see Appendix I
 - Aquatic Invasive Advisory Committee
 - Emerging Invasive Species Issues and Update – Megan Abraham
 - Updates from Working Groups
 - Tactical Plan (Heather Reynolds)
 - 2018 IISC meeting dates (Feb 1, May 2, July 25, Nov 7 are proposed, all Wednesdays)
 - Agency Listserv
 - Discuss Strategies for Addressing Tactical Plan Sections

- Sec.4.(6) Invasive Species Policies & Procedures
 - Sec.4.(7) Performance Measures Review
 - Sec.4.(9) Apply for Grants
 - Sec.4.(10) Provide Grants for Education or Management of Invasive Species
 - Communications and website (Larry Bledsoe)
 - Website analytics
 - Education and Outreach – Mike Warner
5. Updates or announcements from the Council and public
6. Next meeting date: November 3, 2017
7. Next steps/action items

3:00 PM – Adjourn

Draft

Appendix II



Governor Eric J. Holcomb
200 W. Washington Street
Indianapolis, IN 46204
Room 206

August 1, 2017

Dear Governor Holcomb,

I am writing on behalf of the Indiana Invasive Species Council (IISC) to express our support for the Indiana Department of Natural Resources (DNR) proposed rule to remove highly invasive terrestrial plants from trade. We urge your office, in conjunction with the Indiana Office of Management and Budget, to grant DNR's exemption request to Regulatory Moratorium Executive Order 13-03 so that the proposed rule can enter the rule-making process. We understand the need to closely examine any state rule or regulation that could impact families, farms, or small businesses. However, failure to adopt this rule could negatively impact exactly those constituencies.

The IISC was established by the state legislature in 2009 (IC 15-16-10) to enhance the ability of government agencies to detect, prevent, monitor, and manage new and long established invasions, as well as increase public awareness about these growing threats. The threats posed by invasive terrestrial plants are real: they crowd out crops and woodlands; cause land values to drop; degrade trails and waterways as well as forests, wetlands and other wildlife habitat; can be poisonous to people and livestock; and are increasingly expensive for farmers, foresters and other private landowners to manage. In 2012, the Indiana Invasive Plant Advisory Committee, a group established to support the work of the IISC, found that land owners and managers spent \$5.85 million to manage invasive plants on their land in that year alone.

As with any rule, the Governor has final approval authority. Here, we are simply seeking a grant of exemption for DNR's rule under the regulatory moratorium, so that the agency may move forward with a proposed rule and the public will be able to engage in the rulemaking process.

Sincerely,

A handwritten signature in cursive script that reads "Heather Reynolds".

Heather Reynolds
Chair, Indiana Invasive Species Council

Appendix III

**Invasive Species
Communication Plan
January 2018 – October 2018**

Draft

Section I. Strategy Overview

Communication Objectives

1. Increase public awareness of invasive species
2. Increase reporting of invasive species

Target Audiences

Review attached personas.

Desired Action

1. Learn about the threat of invasive species and how to recognize key Indiana invasives
2. Download app to report invasive species
3. Subscribe to invasive species newsletter list or social media communication channels

Success Metrics

- Quiz submissions
 - Once the user completes the Learn section of the website, prompt the user to take a quiz to test their knowledge and allow them to share their results with a friend. Quizzes can include one to recognize species (an "invasives IQ" a plant this versus this quiz (invasives versus preferred ornamentals), and so on.
- Quiz shares
- Agreement submissions
 - Once the user completes the Report section of the website, prompt the user to share a graphic on social media, pledging to help eradicate invasive species in Indiana.
- Graphic shares
- General website traffic

Section II. Communication Platforms

Communication Channels, Target Audience & Message Frequency

1. **Website Articles**
 - New article once a week
2. **News Releases**
 - Identify current issues throughout campaign
 - Schedule experts to write news release focusing the solution on invasive species website
3. **Email Marketing**
 - Gather emails through subscription on website and those who sign agreement
 - E-newsletter once a month about invasive species topics identified by the IISC
 - Periodic email blasts around campaign progress, goals, success, important news
4. **State and National Parks**
 - Flyers
 - Partnerships with existing materials and programs that points visitors to campaign website
 - Organize child-friendly materials when targeting nature centers
5. **Facebook**
 - One post per day developed by social media specialist with message curated by IISC
 - Periodic promoted posts for excellent resources or important messages regarding campaign goals/CTAs
 - **Target audience**
 - i. 65+ actives
6. **Twitter**
 - Multiple tweets each week that follow similar messaging as Facebook that are developed by social media specialist; in addition, increase activity by retweeting relevant info and articles.
 - **Target audiences:**

i. Younger actives

7. Instagram

- Post images of identified invasives, how-tos to mitigate invasives, gardening advice for planting native plants

Section III. Messaging

A. Article Topics

- What are invasive species?
- What problems do invasive species cause? Why are invasive species a problem? And why should I care?
- What is an example of an invasive species?
- What types of invasive species are there? (land, aquatic, etc.)
- How do I identify ___ as an invasive species?
- What do I do when I identify an invasive species on my trail/in my garden/walking on my path, etc.?
- How did invasive species (both general and specific) get here?
- What are the most dangerous/common/interesting/etc. invasive species?

B. Daily/Weekly Messaging Topics for Social Media

Social media specialist will create “sound bites” from articles above and share across social media. Every new article can be the source/inspiration for 3-6 different social media messages. As much as possible, also include links back to articles on the website. Cooperation between the experts and our social media specialist is key to developing this section and for the campaign’s success.

C. Key Dates

2018

January

- Roll out campaign at related January trade shows, such as:

- Green Expo
- Indiana Arborists
- Tailor materials for trade shows
- “Soft” rollout of new website and social media campaign leading into Invasive Species Week

February

- IISC Conference
 - Increase communication activity in all channels around the conference: sharing research news and important topics from the conference.
 - February 15, 2018
 - Days leading up to build interest
 - Possibilities: Live tweeting, share topics discussed, introduce VIPs to public
- Indiana Invasive Species Week
 - February 27-March 3
 - Partner Organizations
 - Need to be identified
 - Week-long media promotion to introduce campaign to public with several posts per day driving audience to campaign website to learn and identify. Encourage participation in success metrics:
 - Share quiz results with friends on social media
 - Share agreement image with friends on social media

April

- Earth Day
 - April 22, 2018
 - Week before event
 - Day of event
 - Partner Organizations
 - Need to be identified
 - Why eradicating invasive species is good for the earth. How are invasive species hurting our planet? Drive it to a personal level with National and State parks, hiking, camping, and gardening.
 - Drive signing agreement and sharing with friends on social media
- National Park Week
 - April 21-24
 - Week of event

- Partner Organizations
 - Need to be identified
- Gardening Season Begins
 - Identify gardening invasives and market to gardeners

May

- Love a Tree Day
 - May 16th
 - Day of event
 - Target invasive species that affect trees
- Memorial Day Weekend
 - Friday to Monday of weekend
 - General outdoors campaign, camping, hiking

June

- Trails Day
 - June 2, 2018
 - Increase social media activity to ensure that hikers know what species to look for and how to recognize them.
 - Day of event
 - Hiking segment
 - Partner Organizations
 - Need to be identified

August

- Water Quality and Forest Protection Month
 - Weekly
 - Partner Organizations
 - Need to be identified
 - Aquatic and woodland invasives
 - Hikers and campers

September

- Campaign ends

Appendix IV

Indiana Invasive Species Council Conference Subcommittee Mtg

June 23, 2017; 0930-1100AM

Present: Megan Abraham, Cliff Sadof, Liz Jackson, Mike Warner, Dawn Slack (notes)

Agenda: – Finalize date, meal, venue, speakers and roles and responsibilities for event

Conference goal: – focus on grassroots efforts – provide forum for networking and promotion of IN resources available for invasive species management. “Resources for Managing Invasive Pests – We’ve Found it, Now What Do We Do? “

Target Audience: - CWMAs / CISMAs, Universities & Educational Facilities, Extension offices & Master Gardeners, Horticulture / Nursery & Landscape Architectural Associations, Turf Association, Flower Growers Association, DNR, etc.

Conference Logistics: -

Date: February 15, 2017

Venue: Danville 4-H Conference Center

Conference Time: 0915 – 1500 hours (doors will open at 0845 for registration)

Registration – \$25 per person

Purdue Conferencing will handle online registration

Lunch – catered sandwiches on platters w/ chips, pasta salad, cookie and water to drink (nothing like carbs!) w/ video playing in background of invasive species / native ecosystems

Six speaking sessions

Save the Date: Send in August

We are working on sponsorship packages (We already have a few organizations on board)

Conference:

We will begin the day with a brief overview of the Council and its roles, an invasive species status, as well as the importance of our grassroots efforts to manage invasive species to have an impact on biodiversity.

Guidelines for Presentations (25 minutes plus 5 for questions):

Invasive species presentations will

1. choose a relevant species to Indiana that can utilize citizen assistance and get citizens motivated to help b/c the species has a significant impact relatable to citizens,
2. Discuss management techniques (successes and / or unsuccessful attempts to control and why)
3. Show how citizens can help move the needle in a positive direction toward biodiversity

Tools/Resource Presentations will:

1. Demonstrate the power of citizen choices, why citizen assistance is valuable and how they can help via the tool presented

Speed Round or Ignite talks by CWMAs/CISMAs will:

1. Each group will have ~ 5-10 minutes (times will be determined once we know the number of participants) to discuss an event or species they have been managing. Their time should be used to motivate, as well as share resources / management tips

Megan will review the status of the terrestrial plant rule
 Someone from SICIM will provide status and information about the “Cooperative Agreement “
 between SICIM and NRCS

We will end the day with a plug for a renovated website (I hope), a new invasive species campaign, and of course with an emphasis on intensive and cohesive grassroots efforts that fit well with regional and national effort - after all we shouldn't tackle invasive species alone – one way or another we are connecting our local choices and efforts across the nation and around the world. Conservation/restoration and connecting people does not happen without addressing invasive species!

Tasks:

Dawn will put together an agenda, a list of resources that people can take with them, request bios from all speakers, a “Save the Date” announcement, and a slide presentation to play during lunch, as well as before the meeting begins.

Mike will develop a sponsorship package

Megan will contact folks at Danville 4-H Conference Center to discuss insurance issues and any other issues related to using the facility

Liz will check on providing large coffee pot and other items needed for a cold morning

Cliff will check with Purdue about an account for registration and finalize setting up registration with Purdue Conferences

The caterer will be It's All About Thyme. She will provide three different sandwiches (Turkey, roast beef and veggie), chips, cookies and pasta salad along with bottled water. Lunch will be presented on trays, not in individual boxes. I will monitor lunch.

End of Meeting

Final thoughts - I would really like to have a couple of door prizes, such as boot scrubbers, ... or whatever else you think would be good to give ...

I would like to have a table with EEAI information, pamphlets about specific species, etc. (I already have all of this, as well as landscaping with natives, etc.) – EEAI really needs to be part of the speed round.

Appendix V



2018 Biannual Indiana Invasive Species Council Meeting Agenda

Date: 15 February, 2018

Time: 8:45AM -3:00PM

Location: Danville 4-H Conference Center, Danville, IN

Coordinator: Dawn Slack, dawn.slack@tnc.org

Meeting Title: Grassroots Networking and Resources to Manage Invasive Species in Indiana

Date: February 15, 2018, 8:45AM - 3PM

8:45 - Registration

9:15 - Opening Remarks and Overview of IISC & Status of Invasive species - Heather Reynolds

10:00 - Aquatic Updates: Yellow Iris??? – Eric Fischer

10:35 – Emerald Ash Borer – Cliff Sadof

11:05 – Break

11:15 – Terrestrial Plant Rule Update – Megan Abraham

11:45 – Lunch (Prepared by “It’s All About Thyme”)

12:45 – Grow Native – Ellen Jacquart

1:15 – EDDMaps/Report IN– Cliff Sadof

1:45 - CWMA/CISMA & EEAI Ignite Round

2:15 – SICIM Cooperative Agreement Update – Steve Cotter

2:30 –Website & New Terrestrial Plants to Watch– Dawn Slack (place holder)

2:45 – Closing Remarks – Heather Reynolds

3:00 – Meeting Adjourn



Indiana Invasive Species Council Vision – Improve the way invasive species are addressed in Indiana.



Invasive Species Management Resources

Links:

IISC Website:

MIPN Website:

CWMA/CISMA:

SICIM

BCNWP

MC-IRIS

Native Alternatives:

INPAWS

Grow Native

Consultants:

EcoLogic