



4-COUNTY Cooperative Weed Management Area

4-County CWMA Mapping & Data Committee Meeting

Wednesday, April 8th, 2020, 8:30am-9:50am

Attendees: Hannah Spencer (WMSWCD), Jeffrey Lee (Metro/JCWC), Jon Wagner (EMSWCD), Lin Kyan (USFS), Lindsey Wise (PSU), Justin Cooley (CSWCD), Lucas Nipp (EMSWCD), Michelle Delepine (WMSWCD), Reilly Newman (Coast ForkWC), Tyler Pedersen (TSWCD), Colin MacLaren (PGE), Rob Hamrick (Metro), Tommy Albo (Metro), Alex Stauch (Mosaic Ecology), Andrea Berkley (Metro), Courtney Gattuso (CSWCD)

8:30 Convene/Welcome **Tyler Pedersen**

8:32 Introductions **All**

8:37 Review Poll Together Survey Results **Tyler Pedersen and Jeffrey Lee**

- Jeffrey and Tyler give a summary of the Poll Together Survey Results.
- Rob Hamrick is announced as the prize winner! Jon Wagner made an awesome caricature of Rob slaying English ivy, and the group LOVES it.
- Most respondents work in Multnomah County, and the majority work for some kind of special district, job titles with Program Coordinator or Manager.
 - These demographics provide helpful information of the respondents.
 - This is a great starting point for bringing meaningful discussions for improving standardized data collection, sharing of data and resources across groups, and making sure that we're covering all of the partners' needs (including project or grant reporting and treatment monitoring).
- Limiting factors for respondents to achieving their work in data analysis and integration were ranked in the following priority based on a weighted average score:
 - 1. Limited staff capacity or insufficient funding
 - 2. Lack of a standardized data collection template
 - 3. Gaps in data quantity/quality
 - 4. Lack of infrastructure (technology, software)
 - 5. Lack of knowledge/training in data management
 - 6. Lack of support for this work from supervisors.
- Respondents' use of weed-related data were ranked:
 - 1. Surveying and inventorying invasive plants on properties
 - 2. Tracking infestations to facilitate management

- 3. Informing prioritization of prevention, survey, and management efforts
- 4. Monitoring treatment efficacy
- The respondents' most used data collection platforms are ArcGIS Collector and Survey 123 for ArcGIS.
- When asked if they are satisfied with their mapping and data collection platform, ratings were split between "yes" (41%) and "no" (38%).
 - But only 3% of respondents selected "don't have a data platform."
 - Of those respondents who answered "yes," most are using ArcCollector and Survey 123 as their data collection platform.
 - Of those respondents who answered "no," more were using iNaturalist, and to a lesser extent, ArcCollector, Fulcrum and iMapInvasives for their platforms.
- Over 90% of respondents are interested and willing to contribute data to the CWMA for regional weed coordination and management!
 - This will allow us to analyze the data to improve coordination of management of weeds across county lines.
 - WHIPPET (Weed Heuristics: Invasive Population Prioritization for Eradication Tool), based in CA from Cal-Invasive Plant Council, is used to determine highest priority weed infestations.
 - This tool provides a strong option for analyzing a regional dataset with multiple priority weeds and partners and could be applicable to future analysis efforts of a collective dataset by the CWMA's Mapping and Data Committee.
 - Currently in use by Clackamas WeedWise (<https://weedwise.conservationdistrict.org/wp-content/uploads/sites/2/2018/01/CRISP-Management-Plan-FINAL.pdf>).
- The respondents' most used regional invasive species database for data sharing is iMapInvasives 3.0, second was not sending data to a platform.
 - Most folks are familiar with Oregon Invasives Species Hotline and least familiar with EDDMapS.
 - It would be useful to run in-person or remote platform demos for training iniMapInvasives or EDDMapS at the next field day or committee meeting. We can show them how to collect and report data using the various apps.

9:07 Discuss New/Priority Weed Reporting Prizes & Google Doc form

Jeffrey Lee

- iNaturalist Project update: Two more submissions of oblong spurge (since March 11th general meeting)!
- Data sharing contest
 - Goal: to integrate data from partners into a shared regional weed mapping and inventory system.
 - Phase 1: foster a trusted data sharing environment for all partners.
 - Phase 2: promote high quality standardized data collection and sharing.

- Data sharing entry form
 - Jeffrey created an entry form for people to upload their weed related data through a simplified Google form: <https://bit.ly/cwmadatasharing2020>. He walked through screenshots of the form to get input on how the questions and format can be improved.
 - Suggestion: Location privacy is set up currently as all or nothing, but that's not always the case. It would be helpful for submissions to all people to select the observations they'd like to share, and the ones they'd like to keep private.
 - For those interested in participating, the contest form will be due the week of our August (8/10) and October (10/12) general meetings.
 - Prizes will be awarded at each meeting to the participant with the greatest number of "Priority Weed" reports, greatest number of "Call for Observation Reports," greatest number of Total Reports, Best Selfie with a Weed Photo, and Most Detailed Data Collector.
 - Once the form is finalized, Jeffrey will email out to the CWMA listserv.

9:22 Discuss Priority Weed Map updates and Map Box vs. ArcGIS Online (AGOL) Tyler Pedersen, Lindsey Wise

- Current map is displayed on MapBox, not a lot of familiarity within the group.
- Lindsey has compiled even more data and created a map in ArcGIS, and cleaned up the old dataset.
- Need to figure out if we stay with MapBox or we transition to AGOL, seems like most people are familiar with ESRI products so AGOL might be the most feasible option.
- Survey 123 is integrated with AGOL, so it would be possible for people to add existing observation to the layer. May need an ArcGIS Online or ArcCollector account to do this...?
- Courtney, Tyler and Lindsey will have further discussions about where the Priority Map will be housed, Lindsey currently using PSU AGOL account, may get pricey.

9:32 Discuss Standardized data collection template and Working Group Tyler Pedersen, All

- CWMA Data Collection Standards doc created in 2016 by Jeff Lesh. Establishes minimum data standards (based on NAISMA and iMapInvasives data requirements) that will serve the collective good with minimal additional effort for partners. It's intended to be compatible with most existing invasive species inventories.
- Standards strike a balance between user friendliness and the collection of data essential at every scale of invasive species management. The limited number of data fields is not intended to discourage partners from collection additional data/data fields.
- Current standards cover invasive plant observations. Future updates may include survey and treatment data.
- Next steps for creating a Standardized Data Collection Template:
 - 1. Determine baseline data fields for survey and treatment data for updated protocol

- 2. Partners will share the data fields most useful to their projects via online survey or phone/in-person meetings
- 3. Convene a Working Group meeting to review and discuss compiled data field lists and select those most important to the collective group (please consider joining – we want you to be a part of the process!)
- 4. An alternative to #2 is we could circulate examples of current platforms and data collection templates within the Committees and Working Group and then vote on one that best fits every partners’ needs.
- NAISMA recently created a data standards doc (2018)—may serve as a good reference for our work.
- Tyler asked if anyone was interested in being a part of the Working Group.
 - Lindsey Wise, Jon Wagner, Lucas Nipp and Rob Hamrick volunteered to be on the working group.
 - Tyler plans to follow up with them before the July meeting to discuss next steps and will send an email out on the General and Mapping and Data listservs to see if anyone else is interested in being a part of the Working Group.

9:45 Invasive Species Mapping Tutorial Opportunities -NAISMA webinars in April Jeffrey Lee

- Lots of mapping and data learning opportunities! Jeffrey shows the group a list of upcoming mapping tutorials and webinars:
 - **NAISMA Webinars in April:** <https://www.naisma.org/programs/professional-development/webinars/#earth-month>
 - **April 22** (11am-12pm PST): EDDMapS 2020: Integrated Platform and Program for Tracking Invasive Species Management in North America
 - **April 29** (11am-12pm PST): Eyes in the Sky: Leveraging New Remote Sensing Technologies to Detect Invasion at a Distance See 2020 Webinar Schedule
 - **Missouri Botanical Garden's Webinar on Using Museum & Herbarium Specimen Data in Ecology, Evolution, and Conservation - April 9** (11am-12:30pm PST): <http://www.earthskysea.org/register-now-webinar-on-using-herbarium-specimen-data-in-ecology-evolution-and-conservation/>
 - **Free online GIS courses by Esri Academy, Penn State, MIT, Hong Kong Poly, Trinity College (during COVID-19 lockdown):** <https://geoawesomeness.com/free-online-gis-courses-geospatial-skills/>
 - **Free access to online data education course catalogs for students impacted by school closures:** Coursera (<https://www.coursera.org/coronavirus>) and DataCamp (<https://www.datacamp.com/community/blog/academic>)
 - **To share with your public health departments:** To help public health agencies and other organizations jump-start their response to COVID-19, Esri is providing the ArcGIS Hub Coronavirus Response template at no cost through a complimentary six-month subscription of ArcGIS Online with ArcGIS Hub Basic. <https://www.esri.com/en-us/disaster-response/request-assistance>

- Will get posted to the listserv and the website – stay tuned!

9:50 End

Next Mapping & Data Committee Meeting

July 8th, 2020; 8:30-9:50am

East Multnomah SWCD Conference Room, 5211 N Williams Ave, Portland, OR 97217