



# Issues & Trends

March 16, 2021

BOTW Updates  
& RRSM Survey Highlights

# Zoom

- No video, please.
- Mute your line.
- Questions?
  - Raise hand or use chat feature.
- Technical problems?
  - [Zoom.us](https://zoom.us) for help.



Today's presenters:

Danielle Wincentzen

Data Services Specialist

Jesse Papez

GIS Specialist



# Jodie Peotter

Brownfields, Outreach and Policy  
Section Chief



# Welcome to 2021 Issues & Trends

Schedule at:

[dnr.wisconsin.gov/topic/Brownfields/Training.html](http://dnr.wisconsin.gov/topic/Brownfields/Training.html)

Stay updated at the RR Report:

[https://public.govdelivery.com/accounts/WIDNR/subscriber/new?topic\\_id=WIDNR\\_567](https://public.govdelivery.com/accounts/WIDNR/subscriber/new?topic_id=WIDNR_567)



Today's recording and  
previous webinars at:

[dnr.wisconsin.gov/topic/Brownfields/  
TrainingLibrary.html](http://dnr.wisconsin.gov/topic/Brownfields/TrainingLibrary.html)



**Reminder** - Public input remains open through  
March 24, 2021 for RR-606 *Guidance on the Case  
Closure Process and Continuing Obligations: Wis. Admin.  
Code chs. NR 725 to 727.*

*Submit comment at:*

[https://dnr.wisconsin.gov/topic/brownfields  
/publicnotices.html](https://dnr.wisconsin.gov/topic/brownfields/publicnotices.html)



**Reminder** - NR 700 Technical Focus Group  
listening session on Thursday, March 18, 2021.

See the Group's web page for Zoom link and agenda:

[https://dnr.wisconsin.gov/topic/Brownfields  
/FocusGroup.html](https://dnr.wisconsin.gov/topic/Brownfields/FocusGroup.html)





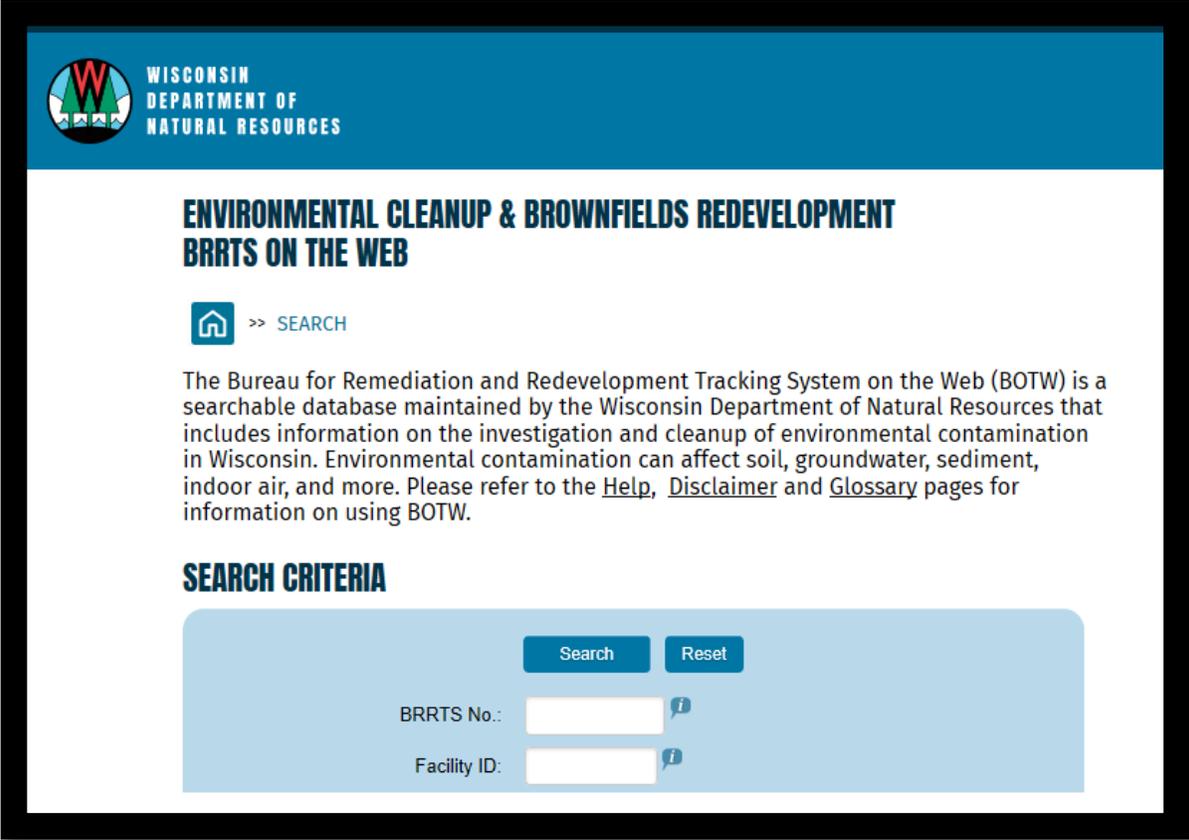
# BRRTS on the Web (BOTW) Updates

# BRRTS on the Web (BOTW) Updates 2021

- Improved look consistent with new DNR pages
- Mouseover descriptions
- Consolidated search page (no more tabs)
- Site characteristic checkbox search options
- Search by DNR project Manager for open sites
- Ability to choose sort order on search results
- Document display improvements – mouseover size



# Improved look consistent with new DNR pages



 WISCONSIN DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL CLEANUP & BROWNFIELDS REDEVELOPMENT BRRTS ON THE WEB

 >> SEARCH

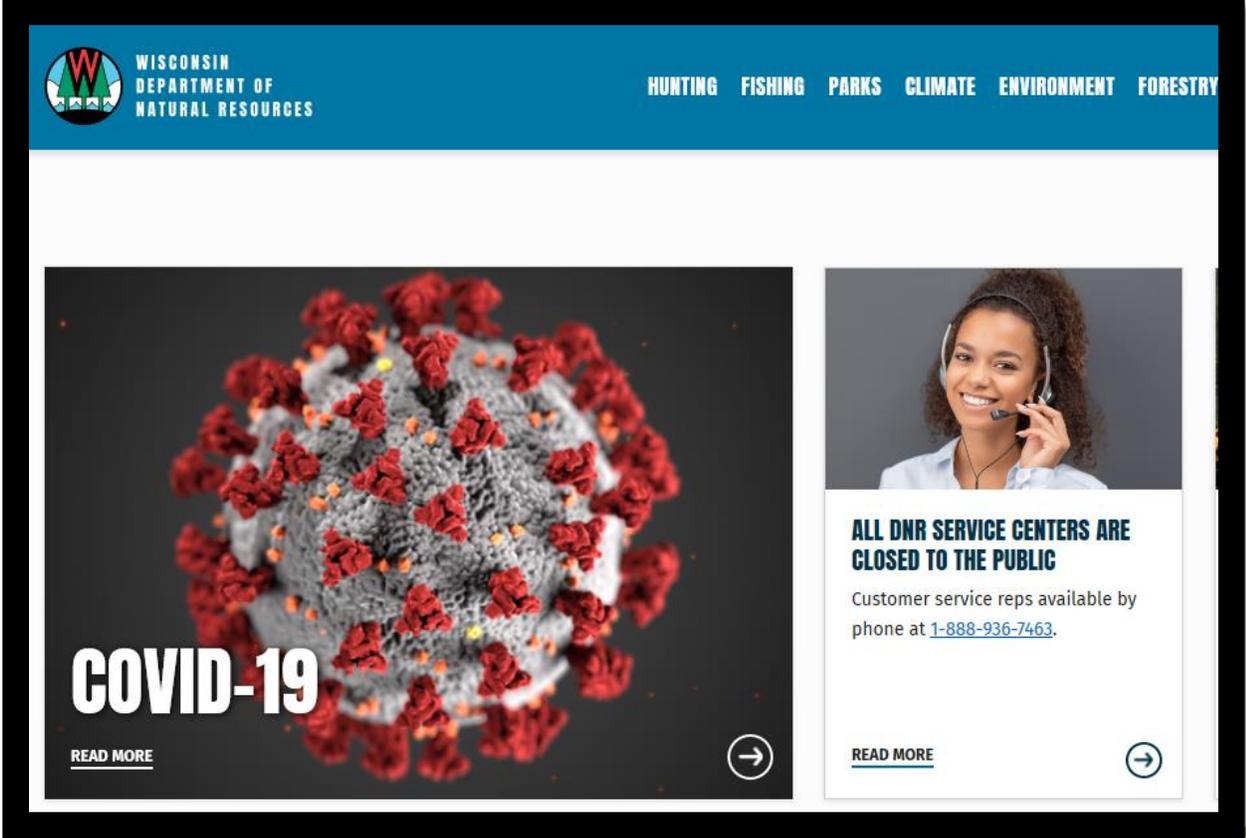
The Bureau for Remediation and Redevelopment Tracking System on the Web (BOTW) is a searchable database maintained by the Wisconsin Department of Natural Resources that includes information on the investigation and cleanup of environmental contamination in Wisconsin. Environmental contamination can affect soil, groundwater, sediment, indoor air, and more. Please refer to the [Help](#), [Disclaimer](#) and [Glossary](#) pages for information on using BOTW.

### SEARCH CRITERIA

Search    Reset

BRRTS No.:

Facility ID:



 WISCONSIN DEPARTMENT OF NATURAL RESOURCES

HUNTING   FISHING   PARKS   CLIMATE   ENVIRONMENT   FORESTRY

## COVID-19

[READ MORE](#)

### ALL DNR SERVICE CENTERS ARE CLOSED TO THE PUBLIC

Customer service reps available by phone at [1-888-936-7463](tel:1-888-936-7463).

[READ MORE](#)



# Mouseover descriptions and urls

The Bureau for Remediation and Redevelopment Tracking System on the Web (BOTW) is a searchable database maintained by the Wisconsin Department of Natural Resources that includes information on the investigation and cleanup of environmental contamination in Wisconsin. Environmental contamination can affect soil, groundwater, sediment, indoor air, and more. Please refer to the [Help](#), [Disclaimer](#) and [Glossary](#) pages for information on using BOTW.



## SEARCH CRITERIA

BRRTS No.:  

Facility ID:  

PECFA No.:  

Activity or Location Name:  

Searches both the name of the Activity and the Location/Facility as contains within.



# Improved support pages and information

## ENVIRONMENTAL CLEANUP & BROWNFIELDS REDEVELOPMENT BRRTS ON THE WEB



>> SEARCH

The Bureau for Remediation and Redevelopment Tracking System on the Web (BOTW) is a searchable database maintained by the Wisconsin Department of Natural Resources that includes information on the investigation and cleanup of environmental contamination in Wisconsin. Environmental contamination can affect soil, groundwater, sediment, indoor air, and more. Please refer to the [Help](#), [Disclaimer](#) and [Glossary](#) pages for information on using BOTW.



# Improved bulk download file access

## BULK DATA DOWNLOAD

A copy of all of the records in the BRRTS on the Web database is available in the zip file below, which contains multiple tab-delimited text files. Additional information can be found in a "read me" file contained within the zip file. This file is updated on a regular basis. Click on the Zip file image to download.

Update Date	Name	Size(MB)	File
03/02/2021 09:23	wdnr-brrts-data.zip	45.9	

BRRTS data comes from various sources, both internal and external to DNR. There may be omissions and errors in the data and delays in updating new information.



# Additional real-time downloads for data access

## LIENS/NOTICES OF CONTAMINATION

The list below contains Liens and Notice of Contamination records currently in our Wisconsin DNR BRRTS database. You may export this list in Excel, CSV, or XML formats at the bottom of the page. Please refer to the BOTW Glossary for definitions of Liens and Notices of Contamination.

424 items found, displaying 1 to 30.

[First/Prev] [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#) [Next/Last]

Region	County	FID	Facility Name	Address	City	Parcel No(s)	Status	Category	Description	Co
NE	Brown	405080280	NESS SERVICE CENTER	704 FOURTEENTH AVE	GREEN BAY	3-585, 3-583	APPLIED	PIFF LIEN	PECFA and PIFF Lien TOTAL amount is \$10727.67.	PI or fil 10 as #2 Do 28 re
NE	Brown	405080280	NESS SERVICE CENTER	704 FOURTEENTH AVE	GREEN BAY		APPLIED	PECFA LIEN	PECFA and PIFF Lien TOTAL amount is \$10727.67	PE or fil 02



# Consolidated search page

BRRTS No.:  *i*

Facility ID:  *i*

PECFA No.:  *i*

Activity or Location Name:  *i*

Address:  *i*

Municipality:  *i*

County:  *i*

DNR Region:  *i*

Activity Type:  *i*

Activity Status:  *i*



# Site characteristic checkbox search options

Start Date:   

End Date:   

DNR Project Manager:  

<input type="checkbox"/> Affected Another Property	<input type="checkbox"/> Sediment Contamination
<input type="checkbox"/> Continuing Obligations	<input type="checkbox"/> Superfund
<input type="checkbox"/> Dry Cleaner	<input type="checkbox"/> Superfund NPL
<input type="checkbox"/> On RR Sites Map	<input type="checkbox"/> WI DOT Site
<input type="checkbox"/> PECFA Eligible	



# Search by DNR project Manager - open sites

Start Date:   ⓘ

End Date:   ⓘ

DNR Project Manager:  ⓘ

- Ackerman, Jeff
- Ales, Stephen
- Alessi, Timothy
- Alles, Andy



# Sort search result options

Affected Another Property       Sediment Contamination

Continuing Obligations       Superfund

Dry Cleaner       Superfund NPL

On RR Sites Map       WI DOT Site

PECFA Eligible

Sort Results:  Descending

- by BRRTS No.
- by Activity Name
- by Activity Type
- by Activity Status
- by Start Date
- by End Date
- by Address
- by Municipality
- by County
- by Region



# Viewing Results

## SEARCH RESULTS: 51 ACTIVITIES FOUND

HELP    DOWNLOAD			
Searched for: Name Contains <b>ELEVEN</b> , Sorted by <b>Address</b>			
Records 1 to 30 - Page 1 of 2			
<a href="#">Search Again</a>   <a href="#">Next Page</a>			
BRRTS No. & Activity Name (Click to open Activity Details) Address, Municipality, County, Region	Type	Status	Juris
<b>09-41-580024 FORMER 7-ELEVEN #35835</b> 11216 W BLUEMOUND RD, MILWAUKEE MILWAUKEE SE	NAR		DNR
<b>03-30-560610 7-ELEVEN STORE #35842</b> 1150 GREEN BAY RD, SOMERS KENOSHA SE	LUST	CLOSED	DNR
<b>03-05-001506 CITGO SERVICE (FORMER)</b> 1180 E MASON ST, GREEN BAY BROWN NE	LUST	CLOSED	DNR
<b>03-41-003644 QUIK MART #30509</b> 1227 W OKLAHOMA AVE, MILWAUKEE MILWAUKEE SE	LUST	CLOSED	DNR
<b>09-41-580020 AA PETROLEUM</b> 1227 W OKLAHOMA AVE, MILWAUKEE	NAR		DNR
<b>03-13-576259 7 ELEVEN CONVENIENCE STORE</b> 1401 REGENT ST, MADISON DANE SC	LUST	CLOSED	DNR

Note: Hyphen vs none

Searches Activity or Location Name

### ACTIVITY DETAILS

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## 09-41-580020 AA PETROLEUM

Status	Activity Type
NAR	NO RR ACTION REQUIRED
Location Name	Co
<b>7-ELEVEN #30509</b>	MIL
Address	Mur



# Download Results Reminder

## ENVIRONMENTAL CLEANUP & BROWNFIELDS REDEVELOPMENT BRRTS ON THE WEB

 >> [SEARCH](#) >> [RESULTS](#)

The results of your search below may not represent a complete list of all Locations and Activities in the State of Wisconsin with environmental contamination. There are locations that DNR has some information but no confirmation of a discharge to the environment. These potentially contaminated sites do not appear on BRRTS on the Web until contamination has been confirmed. In addition, the DNR may be unaware of contamination at some properties.

### SEARCH RESULTS: **206 ACTIVITIES FOUND**

HELP <b>DOWNLOAD</b>					
Searched for: BRRTS No Contains 0303, Sorted by BRRTS No.					
Records 1 to 30 - Page 1 of 7					
<a href="#">Search Again</a>   <a href="#">Next Page</a>					
BRRTS No. & Activity Name <i>(Click to open Activity Details)</i> Address, Municipality, County, Region	Type	Status	<u>Juris</u>	Start Date	End Date
<b>02-16-270303 BELKNAP YARD - AOC #5</b> 310 N 19TH ST, SUPERIOR DOUGLAS NO	ERP	CLOSED	DNR	2001-04-05	2010-02-22
<b>02-16-560303 TRI STATE SUPPLY - LOT 1</b> 216 BELKNAP ST, SUPERIOR DOUGLAS NO	ERP	CLOSED	DNR	2013-01-18	2014-01-09



# Viewing Activity Details

## ACTIVITY DETAILS

LIEN OR DEED AFFIDAVIT/NOTICE EXISTS ON PROPERTY			
The State has placed a lien or deed affidavit/notice at this site associated with environmental cleanup obligations and/or costs. Click on the Location Name below to view information related to the lien or deed affidavit/notice.			
<b>03-44-120756 FIVE FLAGS</b>			
Status	Activity Type	Jurisdiction	
<b>CLOSED</b>	<b>LUST</b>	<b>DNR RR</b>	
Location Name		County	DNR Region
<b><u>FIVE FLAGS</u></b> ← <a href="#">url to Location/Facility Information</a>		<b>ONEIDA</b>	<b>NORTHERN</b>
Address		Municipality	
<b>1875 N STEVENS ST</b>		<b>RHINELANDER</b>	



# Viewing Location Details

Liens or Deed Affidavit/Notices				
Type	Status	Date Applied	Date Satisfied	
PIFF Lien	Applied	2017-08-01		
Description: TANK REMOVAL LIEN				
Parcel ID(s):				
Documents				
Click Name to Download				
<p>&gt; Records related to the site are documents that were available at the time the scanned paper or electronic file was uploaded. Records withheld by the department due to confidentiality, attorney-client privilege, and other sensitive records, as well as lab data, may not be included. Additional records associated with the site may or may not be accessible through an open records request through DNR or another state agency.</p>				
Category	Name	Type		
Lien Document	<a href="#">20170921 Recorded lien.pdf</a>			
		Certain documents applied to the property		
RR Activities at this Location				
Click BRRTS No. and Name to View Details				
BRRTS No. & Activity Name	Type	Status	Start Date	End Date
<a href="#">03-44-120756 FIVE FLAGS</a>	LUST	CLOSED	1997-04-10	1999-05-18
<a href="#">07-44-553314 FIVE FLAGS</a>	GENERAL PROPERTY	GEN PROP		
<a href="#">09-44-582483 FIVE FLAGS FAMILY RESTAURANT</a>	NO RR ACTION REQUIRED	NAR	2015-09-14	2018-10-29



# Document display improvements

Site Files				
<p>The document(s) below contain permanent records available at the time the paper file for this Activity was scanned and uploaded. The paper file may have been divided into multiple scanned documents because of size. Records withheld by the department due to confidentiality, attorney-client privilege, lab data, and other sensitive documents, are not included. Additional records associated with this Activity may, or may not, be available through an open records request.</p>				
Name				File
0209576282_SITE_FILE.PDF <b>Site files moved to the top</b>				
17 Actions and 3 Documents			Count of actions and documents	
<p>Records related to the site are documents that were available at the time the scanned paper or electronic file was uploaded. Records withheld by the department due to confidentiality, attorney-client privilege, and other sensitive records, as well as lab data, may not be included. Additional records associated with the site may or may not be accessible through an open records request through DNR or another state agency (see Jurisdiction above).</p>				
Date	Code	Name	File	Comment
2015-10-26	1	<a href="#">Notification of Hazardous Substance Discharge</a>		
2015-11-17	7	<a href="#">Environmental Consultant Hired</a>		SHORT ELLIOT HENDRICKSON INC, CHIPPEWA FALLS
2016-01-06	195	<a href="#">Semi-Annual/PECFA Cost Reporting (NR700) Requirement Met</a>		Period: 7/1/2015 - 12/31/2015
2016-07-14	195	<a href="#">Semi-Annual/PECFA Cost Reporting (NR700) Requirement Met</a>		<b>Documents and actions in one clear table</b>
2016-08-08	97	<a href="#">Technical Assistance Request Received (fee)</a>		



# Additional document information

Document “exceptions” are now visible

2020-04-09	80	<u>Closure Not Recommended</u>		ADMINISTRATIVE DETERMINATION PROVIDED TO RP ON CONFERENCE CALL
			Document Could Not be Located ADMINISTRATIVE DENIAL - NO LETTER SENT	



# Mouseover document size prior to download

2021-01-27	195	<u>Semi-Annual/PECFA Cost Reporting (NR700) Requirement Met</u>		Period: 7/1/2020 - 1
2021-01-30	710	<u>Database Fee Paid for Soil Continuing Obligation(s)</u>		
2021-01-30	700	<u>Database Fee Paid for Groundwater Continuing Obligation(s)</u>		
2021-01-30	779	<u>Case Closure Review Fee Received</u>		
2021-02-02	84	<u>Remaining Actions Needed</u>		MONITORING WEL
2021-02-05	79	<u>Case Closure Review Request Received</u>		AUTO-ENTERED
2021-02-15	-	Document Not Linked to Action		PARKING LOT
2021-02-15	-	Document Not Linked to Action		PARKING LOT 2

Closure Category  
 20210202\_84\_Remaining\_Actions\_Ltr.pdf  
 93.0 KB



# Questions?

Danielle Wincentsen

715-563-0849

[danielle.wincentsen@wisconsin.gov](mailto:danielle.wincentsen@wisconsin.gov)

[BOTW](#)



THANK YOU!

# RR Sites Map (RRSM) Survey Results and Recent Updates



# RRSM Presentation Outline

- **Survey Background**
- **Survey Results/Findings**
- **Recent Updates to RRSM**

# The RRSM Survey

- Purpose: For DNR to gain a clearer understanding of who uses RRSM and how they use it
- Determine what users would like to see and how we can improve the tool
- Open for approximately 1 year (will remain open as a feedback tool)
- 72 responses provided useful insight



# Survey Questions (abbreviated)

- How do you use RR Sites Map?
- What is your Industry?
- What is your job title?
- How frequently do you use RRSMap?
- How do you get to RRSMap?
- What tasks do you do with RRSMap?
- Rate how frequently selected tools are used (11 options provided)
- Rate your satisfaction with the same tools
- What other GIS-related tools do you use?
- Do you feel there is room for improvement in RRSMap?
- In what ways could RRSMap be improved (open ended)?
- Other comments/feedback

WHO are the users?

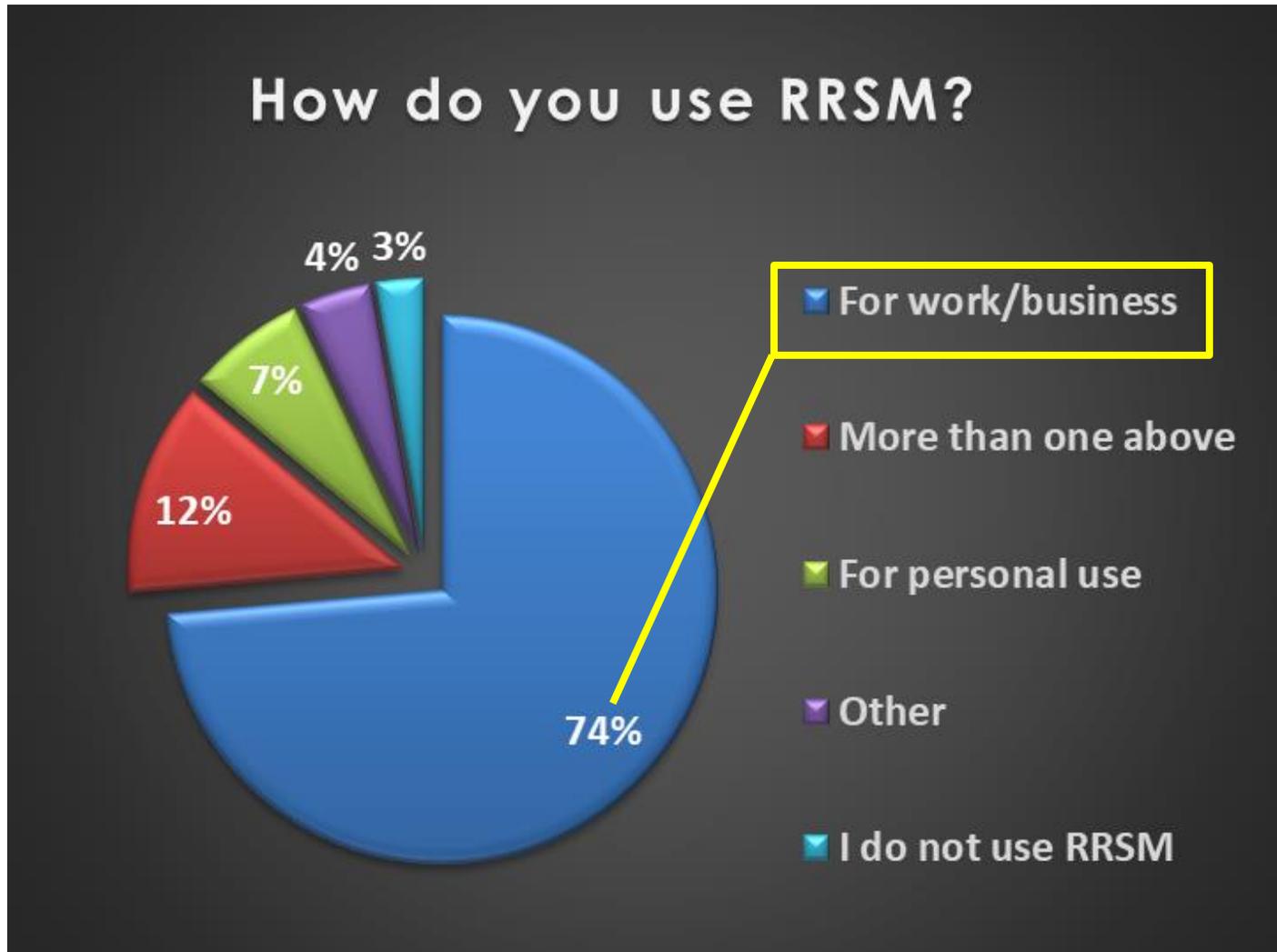
WHAT are they doing?

HOW do they do that?

User Feedback



# Survey Responses

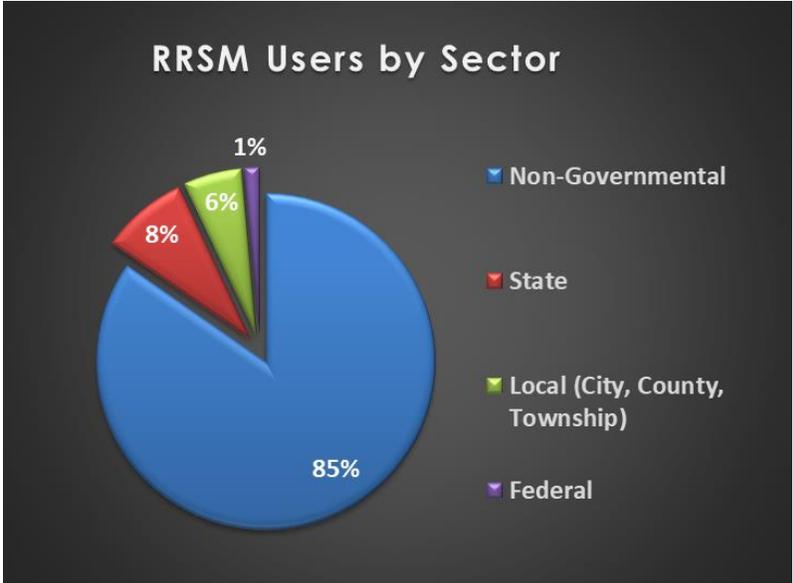
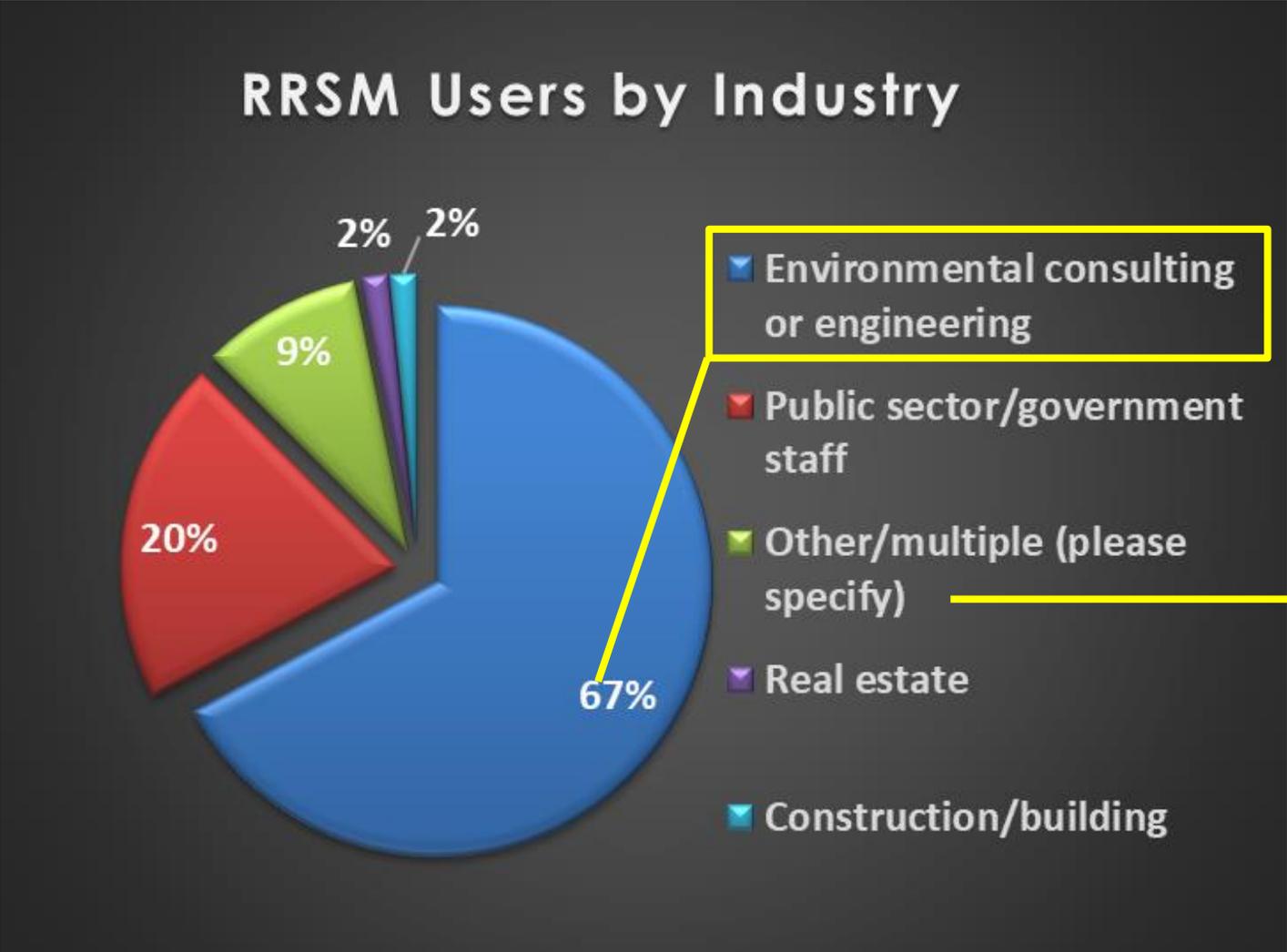


## Observation:

- Most users are using RRSM for professional purposes



# Survey Responses

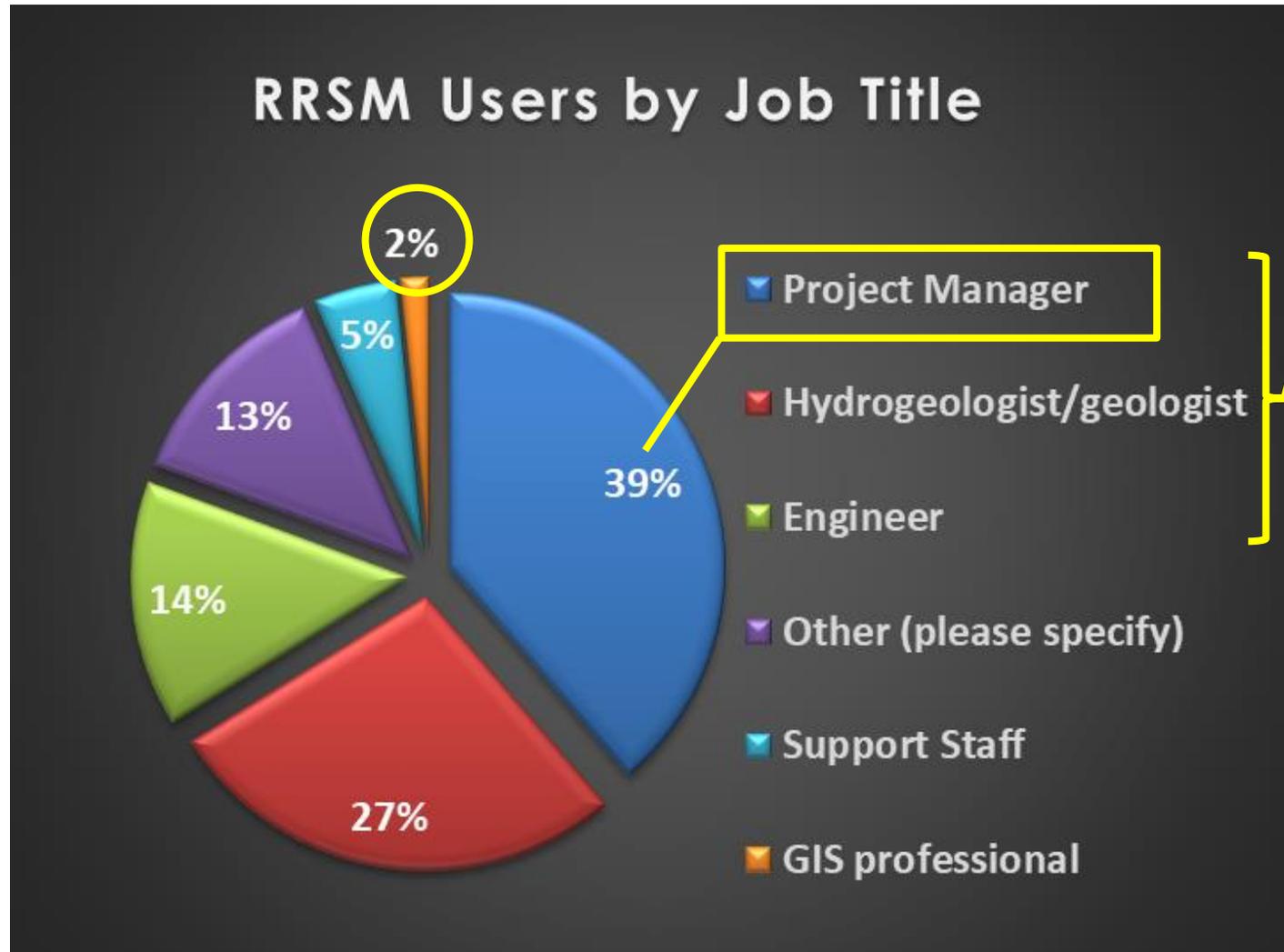


## Observations:

- Most responding users are consultants
- “Other” categories include:
  - Agriculture
  - Utility
  - Property Owner



# Survey Responses

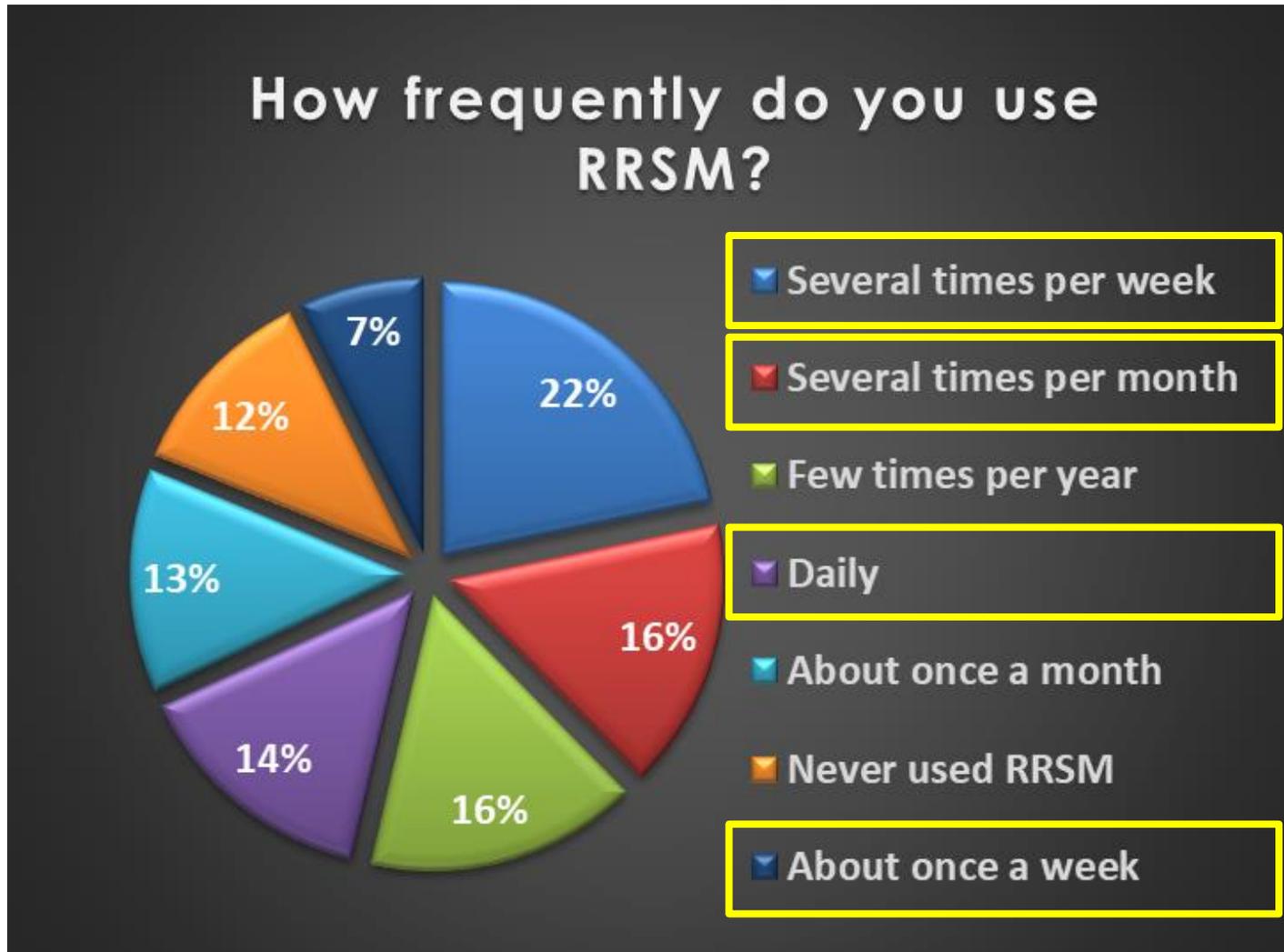


## Observations:

- More diverse by title, but most common are titles found in consulting
- Many PMs are using RRSU themselves
- Very few GIS staff use RRSU (or participated in survey): n=1 (1.6%)
- “Others” include:
  - Planner
  - Scientist
  - Appraiser
  - Elected Official



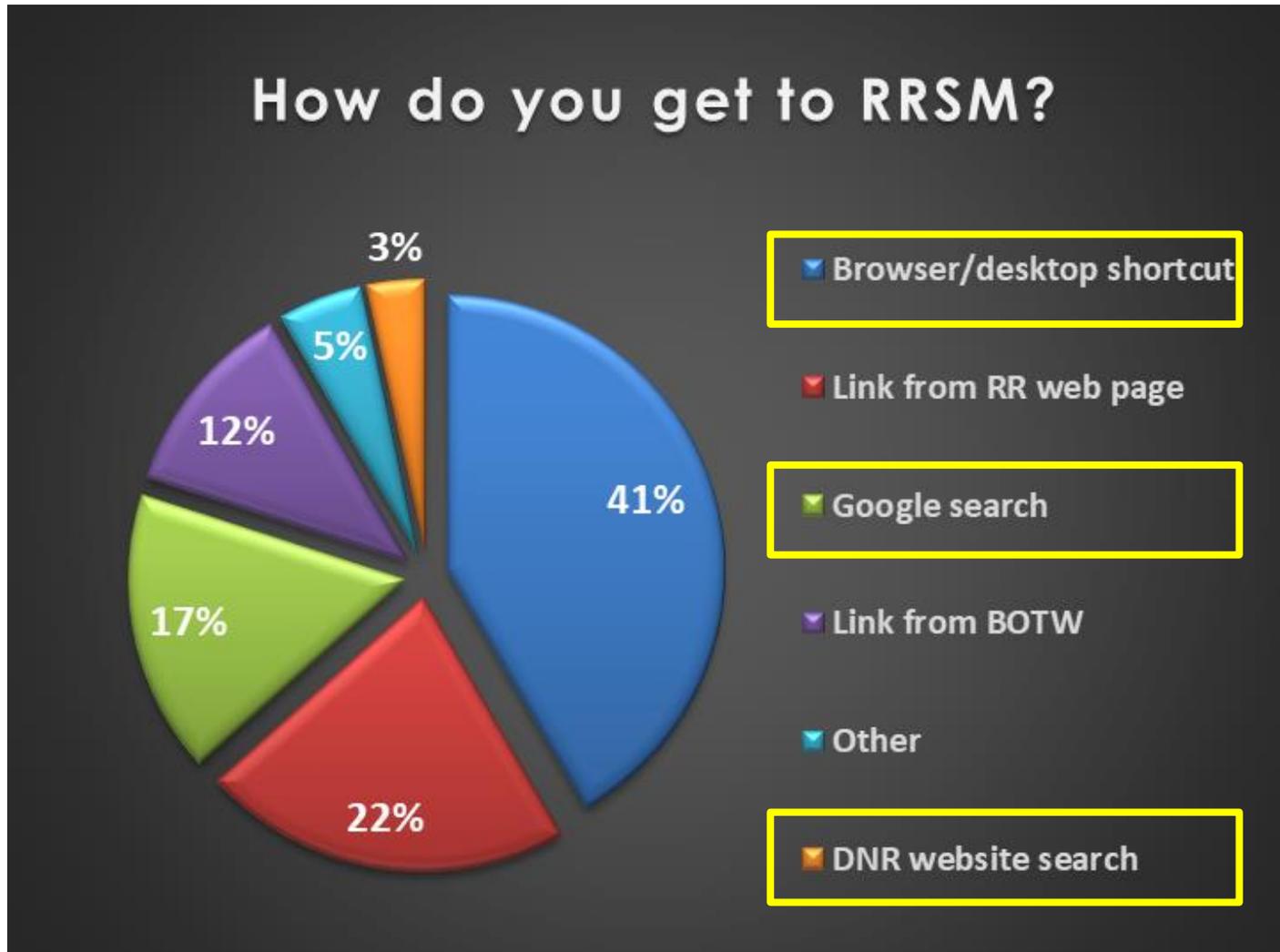
# Survey Responses



## Observations:

- Very evenly divided by frequency
- No strong correlations between frequency and title or industry
  - similar profiles between frequent users (weekly or more) and infrequent users (monthly or less)
- ~50% use RRSM several times a month or more

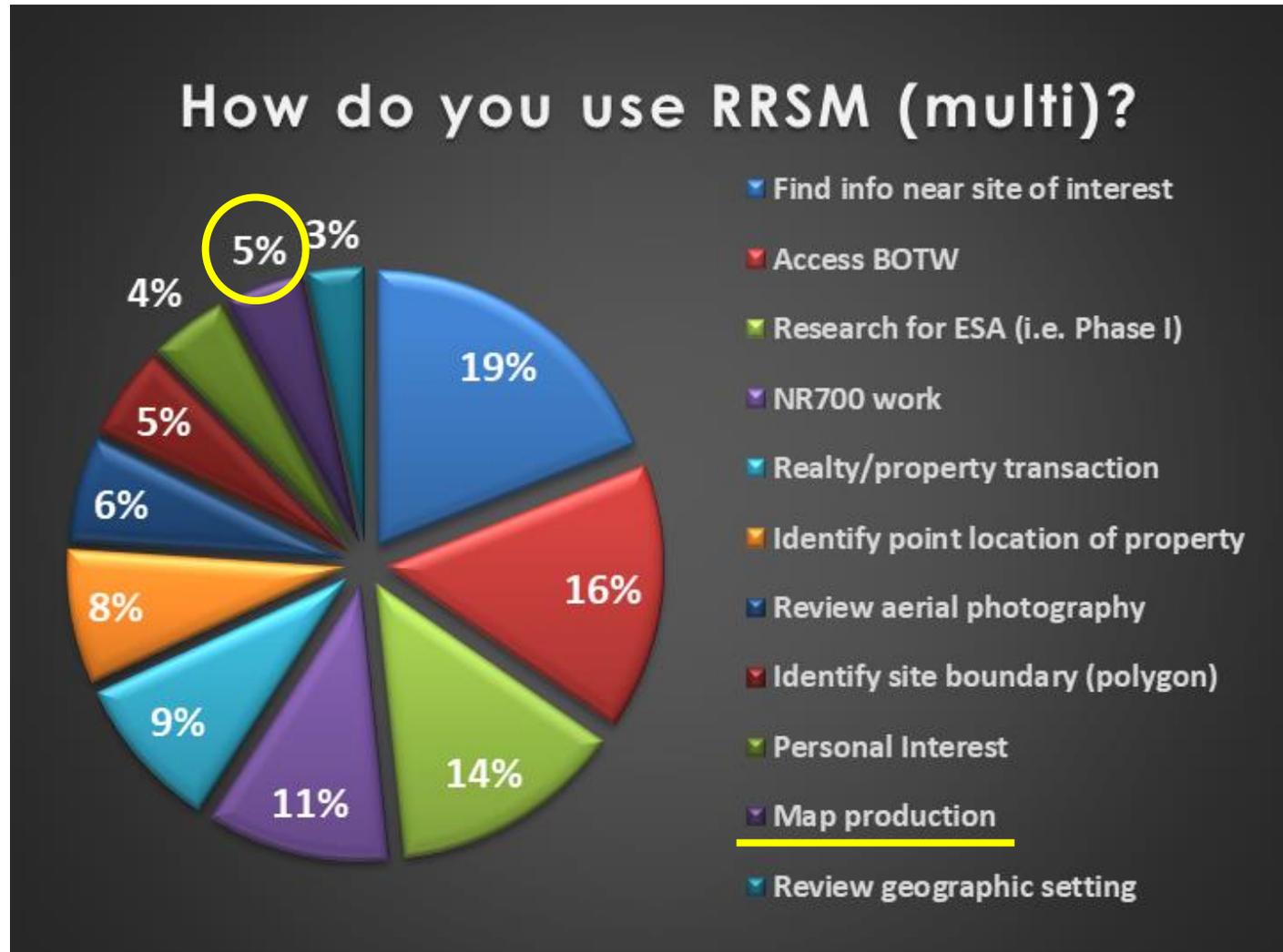
# Survey Responses



## Observations:

- Many different access methods
- About 1/2 are using indirect method (search based, link from RR webpage)
- Daily users are using direct access methods
- **Possible improvement to Google search ranking**

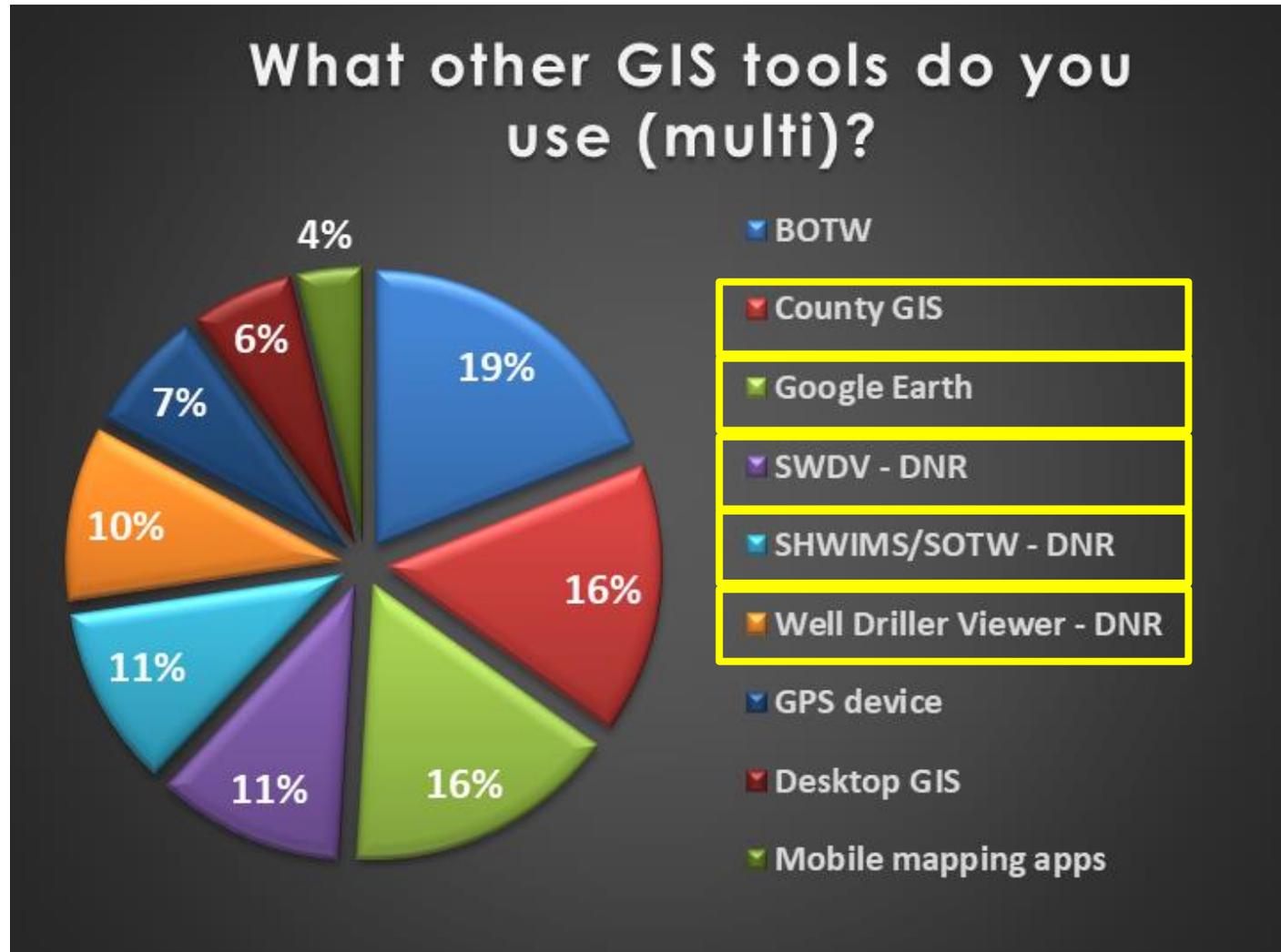
# Survey Responses



## Observations:

- Multiple choice: AVG: 3.8 picks per respondent
- All 11 suggested uses were represented
- “Others” included:
  - Review ROW (DOT)
  - Review for well siting/drilling
  - ID brownfields
  - Real estate appraisal
- Users perform a lot of different tasks to support
- Map production was surprisingly underutilized.

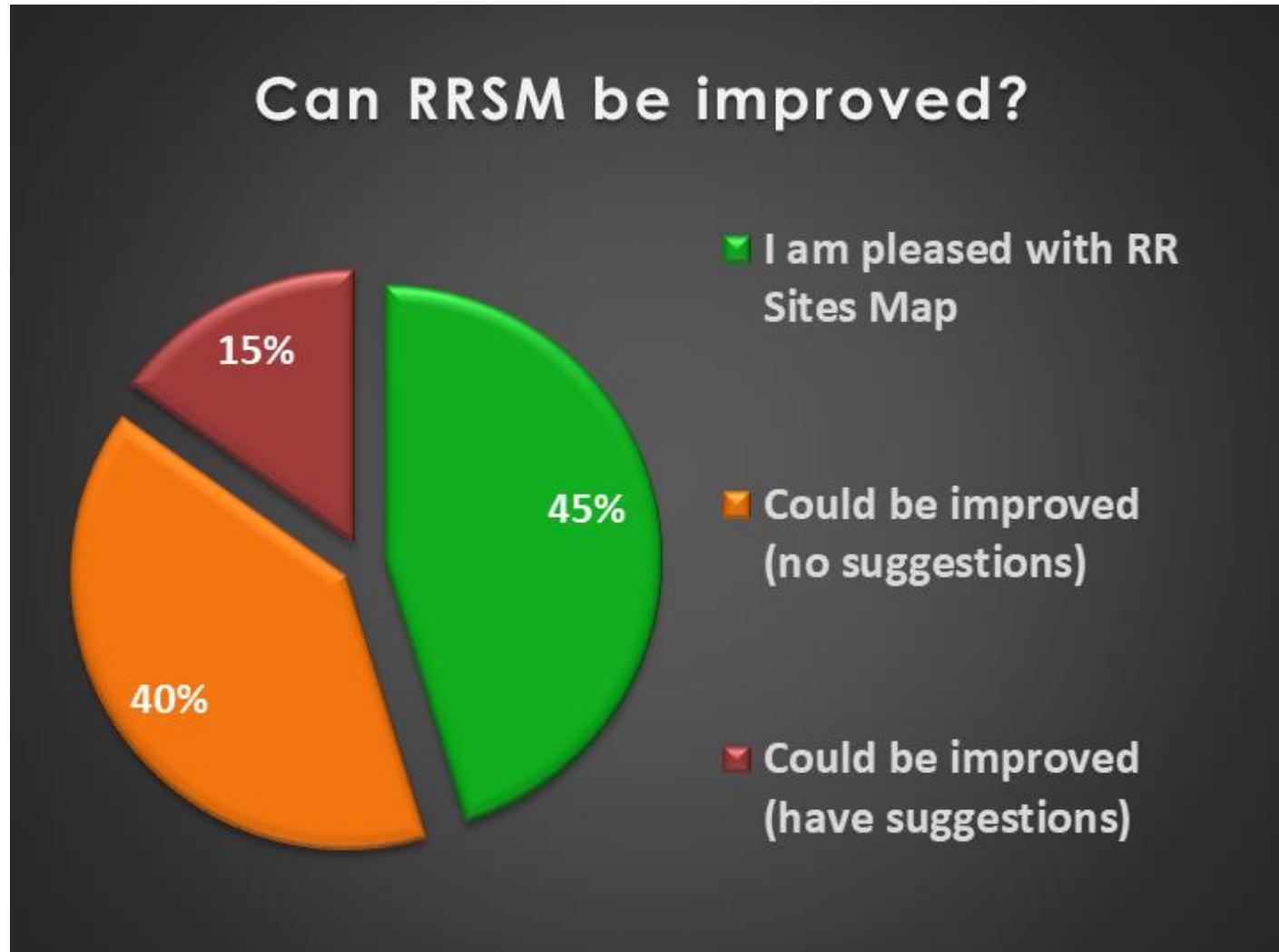
# Survey Responses



## Observations:

- Multiple choice: AVG: 3.7 picks per respondent
- All 9 suggested uses were represented
- “Others” included:
  - Wells/well construction
- A lot of non-RR tools needed to do the job, more consolidation of necessary information into RRSM might help.
- Lots of interest in wells (hi cap, private)

# Survey Responses



## Observations:

- Nearly ½ are pleased
- Very few felt strongly enough to voice specific issues/ideas
- **Overall positive survey response!** (considering this question and tool satisfaction ratings)



# Survey Responses – specific tools

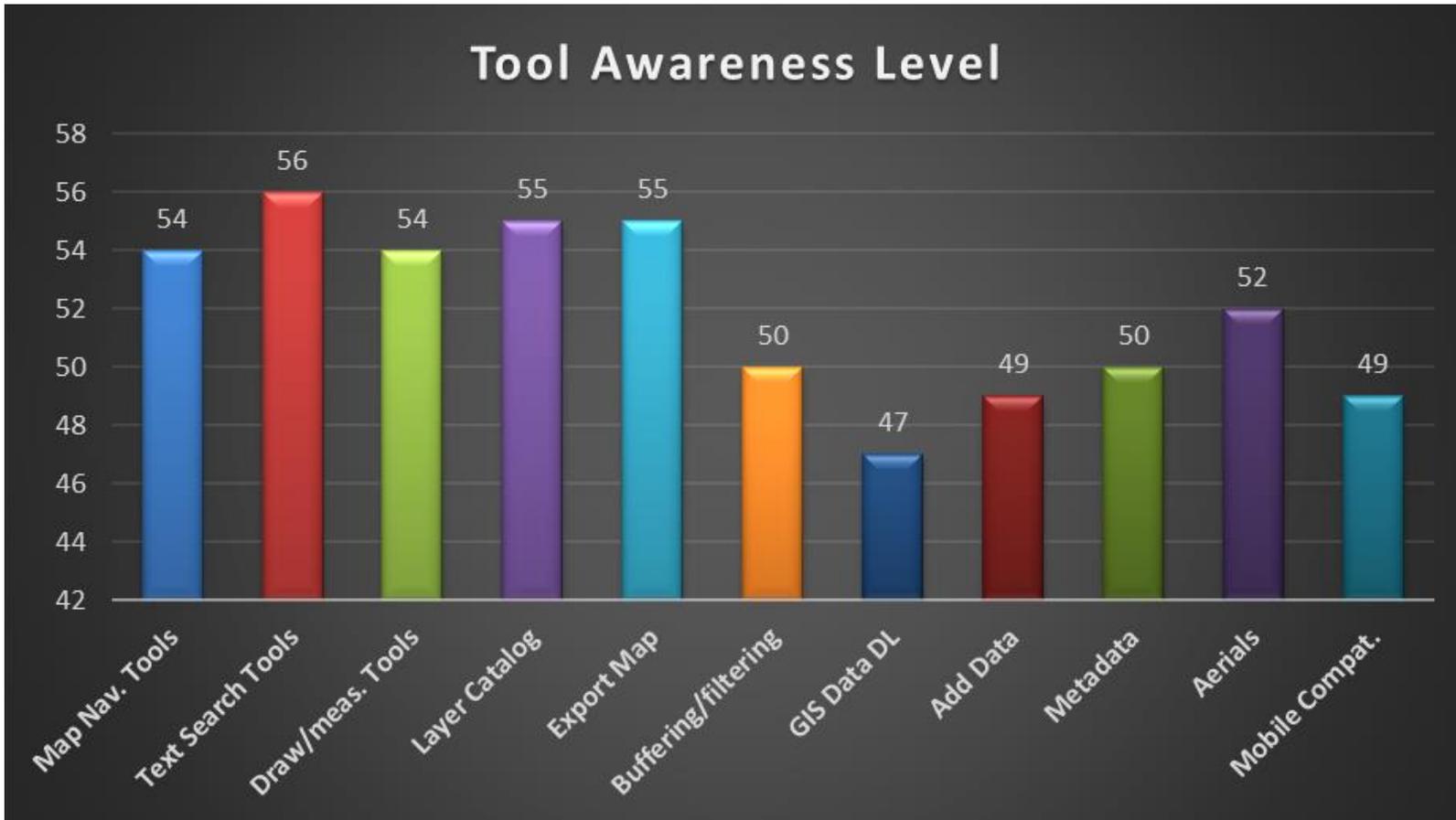


## Observations:

- Shows frequency of use:
  - Never used/unaware = 0
  - Rarely use = 1
  - Occasionally = 2
  - Frequently = 3
- Inverse focuses on least used tools (need to determine why)
  - Unaware, lack of need, too complex?



# Survey Responses – specific tools



## Observations:

- Count of any rating other than “unaware”
- Strong correlation between use and awareness
- Inverse shows focus on tools lacking awareness (future training opportunity)



# Survey Responses – specific tools

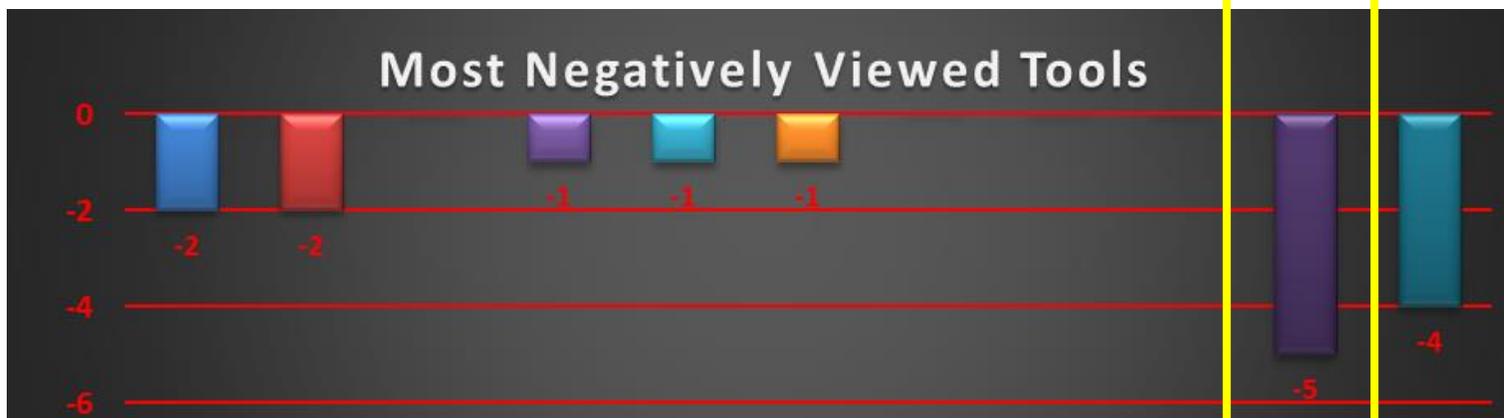
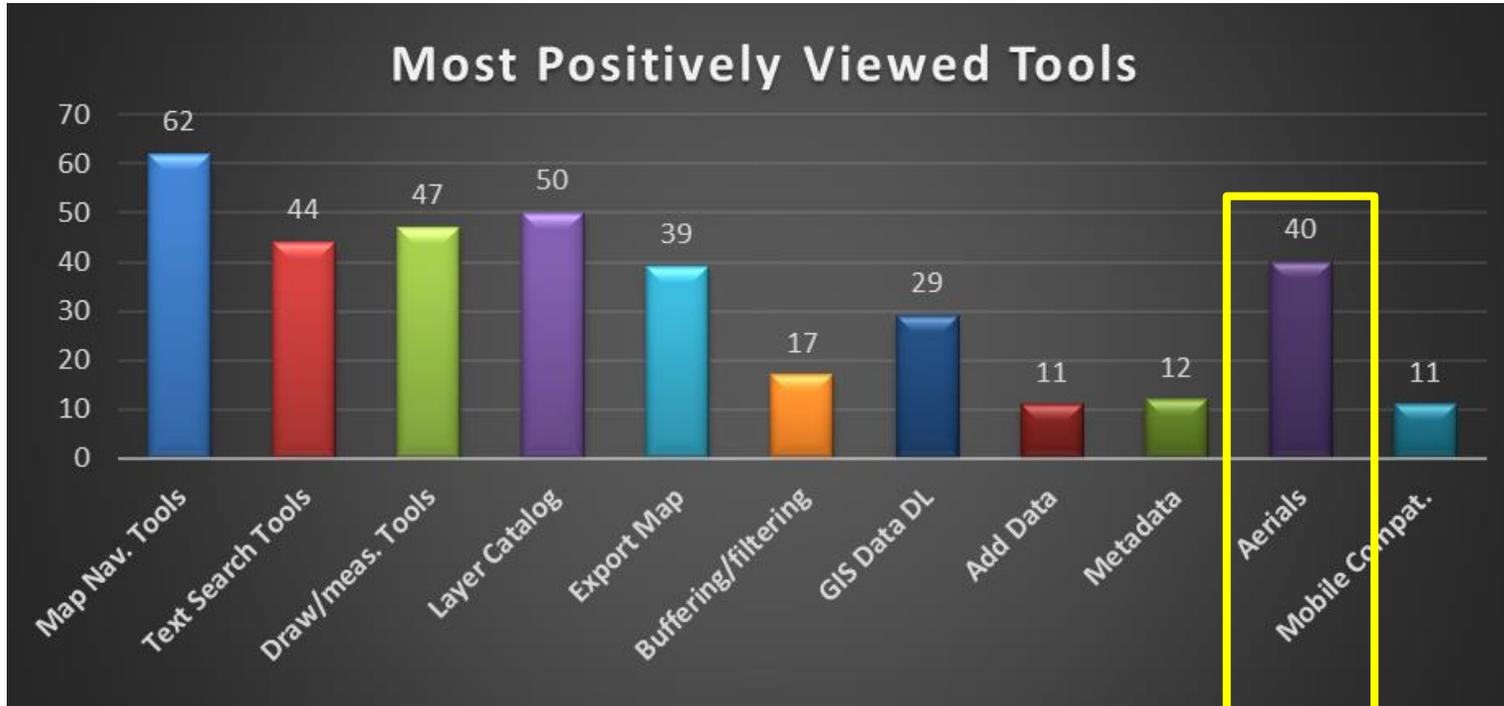


## Observations:

- Shows frequency of use:
  - Very satisfied = 2
  - Satisfied = 1
  - Neutral/no comment = 0
  - Dissatisfied = **-1**
  - Very Dissatisfied = **-2**
- All have net positive satisfaction



# Survey Responses – specific tools



## Observations:

- Shows frequency of use:
  - Very satisfied = 2
  - Satisfied = 1
  - Neutral/no comment = 0
  - Dissatisfied = **-1**
  - Very Dissatisfied = **-2**
- Positive View shows sum of only positive rankings (total score 362)
- Negative View shows sum of only negative rankings (total score of **-16**)
  - Filtering out the “Wisconsin nice”
- Aerial Photography is most divisive (also highly used)



# Selected Open-Ended Feedback

## *Add more documents to BRRTS files*

- Ongoing focus in the Program

## *Add workflows that reflect the mapping requirements on NR700*

- Great idea! May need improved method to buffer site and print map(s)

## *Add all sites from BRRTS to RRSM*

- This is a Program goal. Currently working on NAR sites, developing new process for mapping spills. Will be included in RRSM.



# Selected Open-Ended Feedback (cont.)

*More air photos, older air photos, newer air photos, counties have better aerials*

- More WROC imagery coming in (2018-2020), will be loaded as it's available and processed
- Added CIR imagery (2009-2019)
- The problem with old imagery and maps in GIS is... lacking Geography
- New updates (next slides)

*There are errors on RRSM or BOTW, what do I do? For now:*

- Contact your DNR PM, or look for contact at bottom of BOTW page, or
- Email [DNRRRBRRTSFEEDBACK@wisconsin.gov](mailto:DNRRRBRRTSFEEDBACK@wisconsin.gov), or me [jesse.papez@Wisconsin.gov](mailto:jesse.papez@Wisconsin.gov) (can get you to the right contact)



# Survey Key Findings

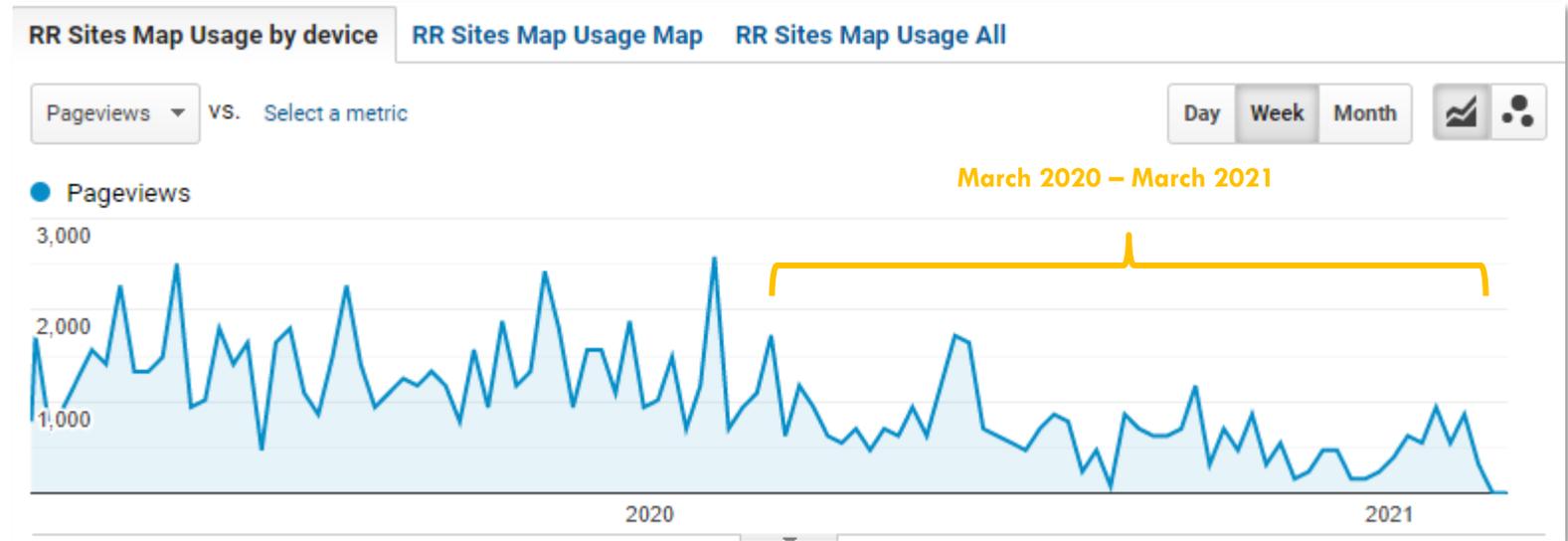
- ❑ ***One the whole:***
  - RRSM is viewed positively
- ❑ ***The most used tools are also the most familiar and positively viewed***
- ❑ ***People are interested in aerial photography!***
  - Both newer and older
- ❑ ***Additional outreach and training may help some of the less familiar/utilized tools:***
  - Map production
  - Buffering/filtering
  - Adding external data
  - GIS Open Data Portal
  - Metadata
- ❑ ***There are many other GIS-type tools utilized in users' workflows***
  - RRSM is not a total one-stop shop



# Google Analytics

## Some recent usage drop-off

- Anticipate return to average use, will keep survey open as tool for feedback



## Device Category Stats:

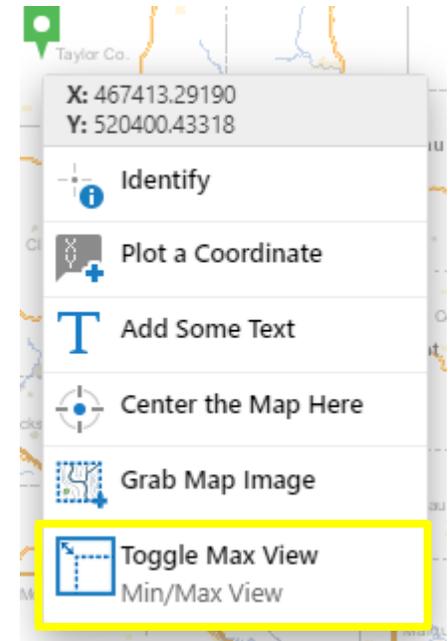
- 96%+ pageviews are desktop
- Demand for mobile seems low, based on survey and analytics

Device Category ?	Pageviews ? ↓	Users ?
	105,389 % of Total: 0.09% (116,757,338)	13,144 % of Total: 0.07% (19,133,315)
1. desktop	101,242 (96.07%)	11,814 (88.83%)
2. mobile	3,286 (3.12%)	1,017 (7.65%)
3. tablet	861 (0.82%)	469 (3.53%)



# RRSM Recent Updates (DEMOS)

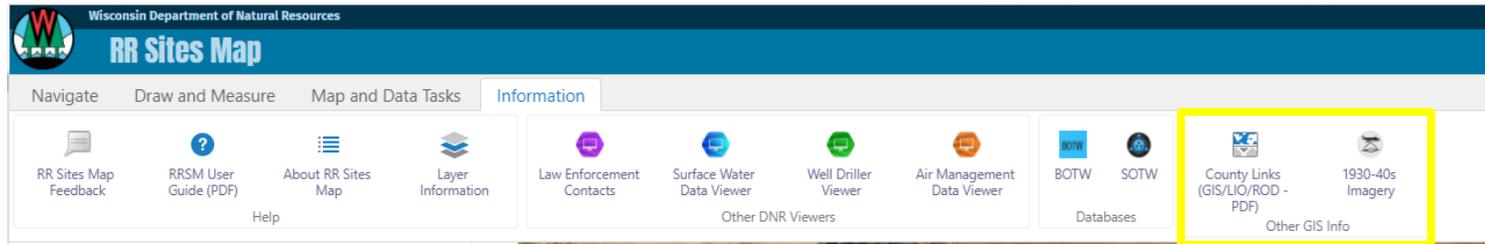
- **Maximize the map view (based on past feedback for more mapping space)**
  - Right click RRSM, look for “Toggle Max View”
- **Air photos, auto-on in beyond 1:10,000 (but not fully saturated)**
  - Demo usage, added CIR



# RRSM Recent Updates (DEMOS)

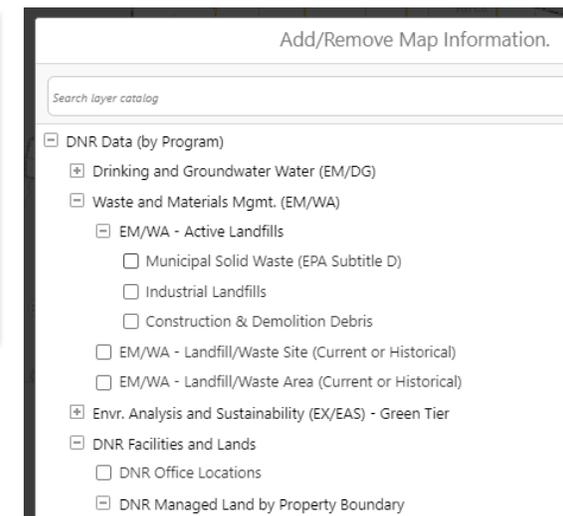
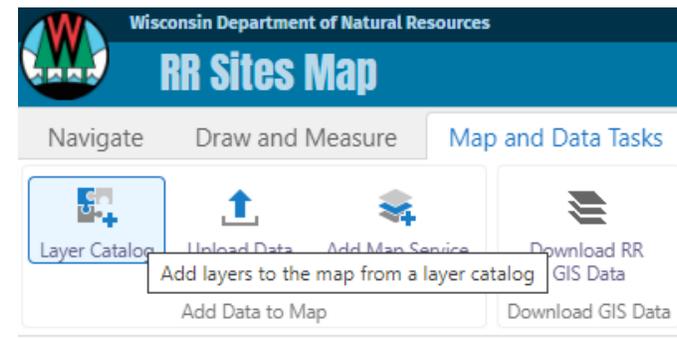
## □ New tools in Information tab

- Reference to county contacts (GIS/LIO/ROD) – WLIP
- Jump to Wisconsin Historic Aerial Imagery Finder (WHAIF) – SCO



## □ New content in the Layer Catalog

- DNR Managed Lands
- Active Landfills



# Questions?

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BRRTS/RRSM corrections or ideas (always welcome!!!):

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THANK YOU!

# Issues & Trends

April 20, 2021

Acute Risks Associated with TCE

Register at:

<https://dnr.wisconsin.gov/topic/Brownfields/Training.html>

