

Protecting the beauty and biodiversity of Sonoma Valley

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Agreement Number: NSDI CAP G12AC20129

Project title: Metadata Training and Support for Conservation Practitioners

Final Report

Organization: Sonoma Ecology Center, Mailing address: PO Box 1486, Eldridge, CA 95431; Street Address: 20 East Spain Street, Sonoma CA 95476; www.sonomaecologycenter.org

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<u>Collaborating Organizations:</u> California Conservation Commons, North Bay Climate Adaption Initiative, California Landscape Conservation Cooperative, California Resources Agency CERES Program.

Executive Summary:

Sonoma Ecology Center has provided FGDC metadata training and support to North Bay Climate Adaption Initiative (NBCAI), California Landscape Conservation Cooperative (CALCC), and North Bay GIS User Group partners and facilitated sharing of their data and metadata through the California Conservation Commons.

An online survey on metadata training needs and interests was begun in October 2012. The targeted audiences were GIS professionals in northern California and the climate change community in the San Francisco Bay area. However, numerous responses were received from across the contiguous US. SEC analyzed responses received for inputs on refining our metadata training offerings.

With the recent increased focus on the incorporation of climate research into conservation practice, and the rapidly changing and highly technical nature of climate change data products, it is critical that spatial data is shared effectively and is thoroughly documented. The NBCAI and CA-LCC partners are committed to sharing their climate and conservation data through the California Conservations Commons websites: the San Francisco Bay Area Conservation Commons (SF Commons, http://sfcommons.org) and the CA-LCC California Climate Commons (http://sfcommons.org). Our trainings focused on FGDC metadata creation and data sharing through the California Climate Commons to serve these communities.



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Project Narrative:

To best meet the goals of metadata training and outreach assistance for conservation scientists in Northern California, we decided to tackle the issues using a multi-thread approach. We first needed to take the pulse of our constituents in the conservation community to focus the efforts of our trainings. A survey and online forum were distributed to determine what training needs of our community were. Second, we looked at what datasets were already being shared and how best to provide metadata efficiently and completely for large datasets with multiple variables. Third, we refined our training materials and provided a use-case scenario that exemplified how to best use the FGDC CSDGM for creating spatial metadata.

Due to staffing changes and illness, the project team experienced a few hurdles in the beginning. Ultimately though, the original team was able to come together again in a slightly extended timeframe to complete the trainings and metadata outreach. Given the expanded timeframe and new developments in the software tools and documentation, we were able to form much of the instruction around Esri's ArcCatalog 10.2 platform. We were delighted to learn that some of the third-party tools and functionality used to create metadata for our earlier use-case scenario were finally integrated into the Esri suite, thus allowing for streamlined metadata creation.

Project Step 1. Publishing plans to deliver metadata training and asking for input on metadata needs and interests thru an online survey and an online forum.

In October 2012 we announced publishing plans at a monthly meeting of the local GIS Users' forum, hosted by the County of Sonoma GIS Department. Paper copies of the online survey were made available at that meeting, and we received a number of responses from attendees then. Plans for the upcoming online forum were also announced at that time to the San Francisco Bay Area climate change community.

By Dec 11, 2012, a total of 85 individuals had responded. A summary of these responses is included as **Attachment A**. The detailed responses are also included as **Attachment B**. This level of response is heartening. Metadata survey results and online forum responses were compiled and analyzed to determine the format and focus topics of our metadata trainings. Through the results we came to several major conclusions:

- 1. A series of short webinars are popular choice for training method.
- 2. There was limited interest in a single all day training session.
- 3. The majority of respondents use the FGDC CSDGM content standard.
- 4. Most respondents would like more training in ESRI ArcCatalog10.x and the FGDC metadata editor add-in for ArcCatalog 10.x.



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5. Respondents have had difficulty transitioning to the ArcCatalog 10.0 and 10.1 incarnations of the metadata editor.

Project Step 2. Metadata creation and data sharing support and resources.

Key contributors of climate data were identified and metadata development support was provided for the CA-LCC and USGS Climate Scientists.

Metadata records were written for the California Basin Characterization Model, created by Alan and Lorraine Flint (USGS). This is a collection of over 19,000 datasets, 14 climate variables, covering 5 climate scenarios (1 historical and 4 future) and 180 years (90 years historical and 90 years future). 14 metadata records were written, one for each climate variable, representing over 1,300 datasets. A review group of 'end user' scientists reviewed work products. The final product contains project specific content on processes used to calculate/model each variable as well as overview of the BCM process and summary of all variables.

Project Step 3. Providing training workshops on metadata creation, data management and data sharing practices using the FGDC standards and the Conservation Commons.

Three training sessions were provided in webinar and live presentation format. Using the results of our survey, we developed a metadata training series that focused on FGDC CSDGM and Esri 10.x toolsets. The trainings also covered background and history of the CSDGM, available resources and references, additional training materials, as well as the importance of metadata to users and data managers both within and outside of organizations.

Training and Outreach Assistance:

A. Webinar and Workshop Training Series

Guided by the results of our survey and online forum, training materials were developed, assembled and refined to reflect the needs of the conservation community. Likewise, our training plans were modified to accommodate as many audience members as possible. To that end we developed two ninety-minute online webinar sessions and one live three-hour workshop training session. The first webinar session entitled Metadata and the Data Life Cycle was presented by Deanne DiPietro on January 23, 2014. The second webinar session, Writing and Managing Metadata in ESRI Arc Environment was presented by Deanne DiPietro, Alex Young, and Bryan Sesser on February 27, 2014. The workshop session was presented at the North Bay GIS User Group meeting on February 26, 2014 by Deanne DiPietro, Alex Young, and Bryan Sesser. The workshop session covered material presented at both of the webinars.



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In querying metadata users and creators, we found that many expressed frustration with the lack of documentation and the need for outside resources with the changes to ArcCatalog metadata editor in recent years. Fortunately, Esri ArcCatalog 10.2 was released prior to the scheduling of the trainings as the newest release comes with the most complete metadata help documentation since the release of version 10.x. Our trainings presented practical-use demonstrations and a wealth of resources for expanded learning opportunities.

The workshop training and webinar series combined were attended by over 40 people from a wide range of government and non-government organizations including: CA-LCC, Campo EPA, City of Petaluma GIS, City of Santa Rosa, ECON, Esri, Marin County Public Works, NBCAI, NOAA Fisheries, Ocean Spaces, Point Blue Conservation Science, Santa Rosa Junior College, Sonoma County Ag. Commission, Sonoma County GIS, Sonoma County Health, Sonoma County Planning, Sonoma County Water Agency, Sonoma Ecology Center, Sonoma Land Trust, Sonoma State University, US Fish and Wildlife Service, and US Geological Survey.

The training sessions were given in a lecture format with PowerPoint slides before a live audience and again with the slides broadcast by webinar. The webinar and workshop were promoted through the CA-LCC newsletter, Sonoma Ecology Center and FGDC websites, as well as email list-serves including The North Bay GIS User Group, Bay Area Ecosystems Climate Change Consortium (BAECCC) and CA-LCC.

An evaluation survey was provided to attendees of the training sessions and summary results can be found in Attachment C of this report. The survey was distributed through the listserve for the North Bay GIS User Group and a reminder email was sent to encourage responses. Despite our efforts, we had very few responses to the survey. Immediate feedback regarding the live training session was overwhelmingly positive and our impressions of the series overall were that they were well received. We have concluded that in the future a survey form should be distributed in person following the training session rather than online.

B. Outreach Assistance:

Metadata creation assistance focused on the California Basis Characterization Model (Flint, 2010). This is a keystone collection for the CA-LCC. A collection of this size and complexity posed challenges in organization and information represented in final metadata.

BCM metadata Abstract

The California Basin Characterization Model (BCM) dataset provides historical and projected climate and hydrologic surfaces for the region that encompasses the state of California and all the streams that flow into it at a 270 meter resolution. The historical data is based on 4 kilometer



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PRISM data, and the projected climate surfaces are based on the A2 and B1 scenarios of the PCM and GFDL GCMs. The BCM approach uses a regional water balance model based on high resolution downscaled precipitation and temperature as well as elevation, geology, and soils to produce surfaces for a wide range of variables. These variables include maximum temperature, minimum temperature, precipitation, potential evapotranspiration, runoff, recharge, climatic water deficit, actual evapotranspiration, sublimation, soil water storage, snowfall, snowpack, snowmelt, and excess water. Data is distributed as 30-year monthly summaries and 30-year water year summaries, with month-by-month data for each year available by special request.

The paper "Development and Application of Downscaled Hydroclimatic Predictor Variables for Use in Climate Vulnerability and Assessment Studies" (available at http://climate.calcommons.org/bib/development-and-application-downscaled-hydroclimatic-predictor-variables-use-climate) describes the Basin Characterization Model (BCM), a mapbased, mechanistic model used to process the hydrological variables. Three historic and three future time periods of 30 years (1911–1940, 1941–1970, 1971–2000, 2010–2039, 2040–2069, and 2070–2099) were developed that summarize 180 years of monthly historic and future climate values.

Status of Metadata Service:

Metadata, in both compliant and non-compliant FGDC form, is now being served, along with numerous other services, on the following websites. The California Climate Commons site (http://climate.calcommons.org) is preparing to host FGDC compliant metadata as it is created and becomes available.

- The two sites supporting the California Climate Commons (http://climate.calcommons.org) and (http://sfcommons.org).
- The North Bay Climate Adaption Initiative (http://northbayclimate.org).
- The California Landscape Conservation Cooperative (http://californialcc.org/).
- California BCM (A. Flint, L. Flint, 2010) (http://climate.calcommons.org/dataset/10)

Completing metadata for the California BCM, to the satisfaction of reviewers and accommodating the complexity of a collection of this size, was quite laborious. The result is 14 variable focused metadata records each of which is distributed with the over 1,300 individual datasets for that variable.



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Next Steps:

Metadata resources and information are available on the California Climate Commons website's metadata page http://climate.calcommons.org/article/metadata-training-2014 and are listed with links below. In addition, the metadata discussion forum will continue to be monitored and questions addressed as they arise. http://climate.calcommons.org/forums/metadata-discussion

The Sonoma Ecology Center, the CA-LCC and the California Climate Commons team will continue to provide metadata instruction, resources, and guidance to climate change scientists as data becomes available and is shared throughout the community. The resources listed below are available on the Climate Commons website.

FGDC Metadata Training Webinars and Additional Resources Subjects:

- metadata
- data sharing

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Metadata Discussion Forum
Recommended Resources for Getting Started with Metadata
Training Series Description

Metadata Discussion Forum

Ask your questions on the <u>Climate Commons online forum on metadata</u> and we will help you get answers from the experts.

Recommended Resources for Getting Started with Metadata

Help for Getting Started

- The FGDC CSDGM Specification
- The FGDC's "Why bother with Metadata?", especially see Lynda Wayne's "Institutionalize Metadata Before It Institutionalizes You" for help establishing best practices in your organization.

Tools

• <u>USGS Online Metadata Editor</u>



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- EPA Metadata Editor
- FGDC Geospatial Metadata Tools
- Metadata tools overview matrix

Helpful Guidance and Examples

- "Writing Good Metadata" from Marine Metadata Interoperability. Also has other useful materials that are nicely presented.
- Example metadata records: CSDGM and ISO format (XML)
- FGDC webinar: All about the ISO standard and help with adopting it
- How to Register Data on the Geoplatform/Data.gov Catalog
- Metadata Best Practices (from the FGDC)
- NSGIC Metadata Primer
- NSDI Training Resources

Training Series Description

With the increased focus on the incorporation of climate research into conservation and planning practice, and the rapidly changing and highly technical nature of climate change data products, it is critical that spatial data is shared effectively and is thoroughly documented. This two-part training will focus on FGDC metadata creation and data sharing to serve the research, conservation, and planning communities in their effort to support "climate-smart" conservation and planning.

These two 1.5 hour webinars offered by <u>Sonoma Ecology Center</u> in partnership with the <u>CA LCC</u> are intended to provide just the right amount of information to get an organization confidently on-track with this important element of data management. You spoke and we listened! We used the results of a <u>survey</u> to develop the curriculum.

Webinar #1: "Metadata and the Data Life Cycle" Wednesday January 23, 2014, 1:00--2:30 PST

This session will introduce spatial metadata, its uses and benefits in and outside of an organization, and its role in supporting the application of science in climate-smart planning. We will touch on the national and international standards, the options for sharing your geospatial data and its metadata, and how to decide what is right for your organization with respect to these choices. We'll take the case of the CA LCC as an example of best practices for researchers and agencies.

Instructor: Deanne DiPietro

Webinar #2: "Writing and Managing Metadata in ESRI Arc Environment" February 27, 1:00-2:30 PST



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This session will introduce the FGDC's Content Standard for Geospatial Metadata, look briefly at the array of useful tools for creating metadata, then demonstrate the creation of a metadata record using ESRI's 10.2 Arc Catalog. We will use data from a USGS climate model called the Basin Characterization Model to show how metadata for climate change data can be made using templating and drawing upon source materials. We will show the importance of well-filled-out metadata, talk about why it is needed to support research and planning, and touch upon ways to share your own metadata.

Instructors: Alex Young and Bryan Sesser

Recording of both the webinars: Stream recording | Download recording

Feedback on Cooperative Agreements Program:

What are the CAP Program strengths and weaknesses?

The CAP Program and the FGDC as a whole excel at providing a wealth of information and resources for metadata creation, cataloging, and distribution. The CAP Grant Program gives organizations a chance to take those resources and distill them down to what is pertinent to specific user groups. One of the challenges facing users is that there is so much data available with so many variables; from multiple standards to a vast number of tools, it can be overwhelming to just begin the process of understanding digital metadata creation.

Where did it make a difference?

We found the website to be extremely helpful in providing reference and training materials. Also, FGDC staff were quite helpful in pointing us to specific references and providing feedback.

Was the assistance you received sufficient or effective?

We found FGDC staff to be flexible and helpful at all stages of the project.

What would you recommend that the FGDC do differently?

The FGDC has done a great job of making resources accessible to users. I would recommend that they continue to get the word out in small, easy-to-digest pieces as to not overwhelm new users. The move to a new metadata editor in ArcMap 10.0 had the perceived effect of making an onerous task more difficult as many users had become accustomed to the previous metadata editor and not a lot of time was afforded for learning the new format. The documentation and functionality of the editor in 10.2 is quite improved and FGDC can take advantage of this by continuing to provide training assistance through the CAP Grant Program.

Are there factors that are missing or are there additional needs that should be considered?



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We found that many users are more comfortable with the CSDGM metadata standard than the ISO standard. There are many comparison charts etc. listing the advantages of ISO over CSDGM however it seems that CSDGM will still be supported for the foreseeable future. It seems that ISO is still evolving and it isn't clear when the shift will prove practical and advantageous for organizations that work domestically and do not necessarily share data internationally. Concise materials outlining the timeframe for merging of the standards may be helpful for organizations trying to decide when to make the shift from CSDGM to ISO.

Are there program management concerns that need to be addressed, such as the time frame?

Due to scheduling and staffing issues, we required a contract extension and scope modification through the course of the project. FGDC was able to accommodate both requests and helped us to provide successful training sessions as well as provide invaluable support to the USGS BCM Climate Change Project in terms of metadata creation and dissemination.

If you were to do the project again, what would you do differently?

Having been awarded previous CAP Training Grants we were confident in our ability to train others in the tools we had used for many years. Likewise, we had planned to rely on materials and knowledge from our earlier trainings. We found out quite quickly that the changes in ArcMap metadata editor and limited documentation posed a new set of challenges. In querying our community we found that we were not alone, as many others found the new format challenging. We had to find our way through the new tools and become comfortable in them before being able to train others. That said, we were able to use a number of resources available through the FGDC website and staff members to build a solid foundation from which to train others. We found that many users are still intimidated by and reluctant to begin using the new format tools. This grant provided us a great opportunity to show how to develop metadata practice in everyday data creation.

In the future we feel that it would be helpful to cast the net wider to a broader audience for survey input and promote our trainings through more outlets to increase our exposure.



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Index of Attachments

Attachment A. Metadata Survey Response Summary

Attachment B. Metadata Survey Response Detail.

Attachment C. Survey Results for Live Metadata Workshop Session,

North Bay GIS User Group. February 26, 2014.

Attachment A. Metadata Survey Response Summary

Metadata Training Workshop Survey



1. Name	
	Response Count
	85
answered question	85
skipped question	0
2. Organization or Industry	
	Response Count
	85
answered question	85
skipped question	0
3. Email (so that we may contact you about upcoming metadata trainings)	
	Response Count
	85
answered question	85
skipped question	0

4. Does your organization create or intend to create formal standards-based metadata for documents and datasets you produce?

	Response Percent	Response Count
Yes	85.1%	57
No	14.9%	10
	Other (please specify)	24
	answered question	67
	skipped question	18

5. If Yes, which standard do you use?

	Response Percent	Response Count
The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	95.7%	44
ISO 19139, Geographic Information – Metadata – Implementation Specification.	13.0%	6
The North American Profile of ISO 19115:2003 (NAP).	6.5%	3
	answered question	46
	skipped question	39

6. How is metadata created and edited in your organization?

	Response Percent	Response Count
Each user creates their own metadata	80.9%	55
A designated user maintains all metadata	19.1%	13
	Other (please specify)	15
	answered question	68
	skipped question	17

7. Does your organization use metadata templates?

	Response Percent	Response Count
Yes	56.5%	39
No	43.5%	30
	Other (please specify)	16
	answered question	69
	skipped question	16

8. What tools were used to create your current metadata?

	Response Percent	Response Count
ArcCatalog metadata editor 10.x	69.4%	43
FGDC metadata editor add-in for ArcCatalog 10.x	29.0%	18
ArcCatalog metadata editor 9.x	38.7%	24
ArcCatalog metadata editor 8.x or earlier	8.1%	5
Other commercial or open-source metadata editor	14.5%	9

62	answered question	
23	skinned guestion	

(please specify)

19

9. Which tools are you interested in using in using now or in the future

	Response Percent	Response Count
ArcCatalog metadata editor 10.x	80.3%	57
FGDC metadata editor add-in for ArcCatalog 10.x	60.6%	43
ArcCatalog metadata editor 9.x	18.3%	13
Other commercial metadata editor	9.9%	7
Other open-source metadata editor	26.8%	19
	(please specify)	17

answered question	71
skipped question	14

10. If you are using or interested in Open Source metadata editors, which one(s) in particular? (or are you mostly interested in learning enough to decide?)

	Count
	31
answered question	31
skipped question	54

Response

11. What are the major issues you face in creating and maintaining metadata?

	Response Percent	Response Count
Not sure how to go about it/don't know the tools	68.0%	51
Never get around to it until the funding runs out	20.0%	15
Not motivating until later when someone wants the data	50.7%	38
Not prioritized by my organization's management	42.7%	32
	Other (please specify)	22
	answered question	75
	skipped question	10

12. Rate your interest (1-5) in an in-person one-day metadata workshop to be held on a weekday in early 2013. (1 being little or no interest, 5 being very interested).

1	2	3	4	5	Rating Average	Rating Count
16.7% (14)	14.3% (12)	23.8% (20)	13.1% (11)	32.1% (27)	3.30	84
				answered	d question	84
				skipped	d question	1

13. Rate your interest (1-5) in a series of one hour online webinars on specific Metadata issues and tools (1 being little or no interest, 5 being very interested).

1	2	3	4	5	Rating Average	Rating Count
1.2% (1)	4.8% (4)	10.7% (9)	21.4% (18)	61.9% (52)	4.38	84
				answered	d question	84
				skipped	I question	1

14. Is there anything specific that you have difficulty with or would like to see addressed in a metadata training workshop?

Res	ponse
Co	ount

36

36	answered question	
49	skipped question	

2 /	Megan Sayles Alex Daniels	Dec 26, 2012 4:00 PM
	Alex Daniels	
3 L		Dec 21, 2012 6:53 AM
	auren Kahal	Dec 17, 2012 8:19 AM
4 F	Pat Lineback	Dec 13, 2012 1:38 PM
5 k	Katherine Stevenson	Dec 13, 2012 10:34 AM
6 .	lacquelyn Hancock	Dec 13, 2012 6:50 AM
7 \$	Steve Holzman	Dec 12, 2012 7:11 PM
8 /	Anne Reis	Dec 11, 2012 11:22 AM
9 k	Karen Hussey	Dec 11, 2012 9:58 AM
10 [Dennis Saville	Dec 5, 2012 7:43 AM
11 N	Marshall Strong	Dec 5, 2012 7:29 AM
12	Nathaniel J. Stricker	Dec 5, 2012 5:07 AM
13 (Glenn Palmgren	Dec 4, 2012 9:32 PM
14 ł	Ken Ostermiller	Dec 4, 2012 3:24 PM
15	Ferri Martincic	Dec 4, 2012 2:03 PM
16 (Gareth Rowell	Dec 4, 2012 1:05 PM
17 F	Rob Sparks	Dec 4, 2012 12:59 PM
18 (Greg Gallaugher	Dec 4, 2012 12:54 PM
19 ł	Ken Duren	Dec 4, 2012 12:52 PM
20 (Chris White	Dec 4, 2012 12:43 PM
21 E	Ethan Duke	Dec 4, 2012 12:30 PM
22 ł	Kristin Hall	Dec 4, 2012 12:23 PM
23 k	Karen Cleveland	Dec 4, 2012 12:18 PM
24	Jennifer Baldy	Dec 4, 2012 11:47 AM
25	Josee Rousseau	Dec 4, 2012 11:46 AM
26 I	Mark Shieldcastle	Dec 4, 2012 11:45 AM
27 ł	Katie Koch	Dec 4, 2012 11:28 AM

Page 1	, Q1. Name	
28	Josh Scullen	Nov 21, 2012 2:35 PM
29	Leo	Nov 14, 2012 10:16 AM
30	Lydia Bailey	Nov 9, 2012 7:43 AM
31	Aneth Wight	Nov 8, 2012 3:14 PM
32	Anna Deck	Nov 7, 2012 9:41 PM
33	Matt Ferner	Nov 7, 2012 4:19 PM
34	Allison Fuller	Nov 7, 2012 10:22 AM
35	Michelle Jensen	Nov 6, 2012 12:00 PM
36	Jackie Hancock	Nov 6, 2012 8:44 AM
37	Helen Thomas	Nov 2, 2012 4:06 PM
38	Corey Shake	Nov 2, 2012 10:21 AM
39	Javier del Castillo	Nov 2, 2012 10:17 AM
40	Ivette Loredo	Nov 2, 2012 9:32 AM
41	David Hoy	Nov 2, 2012 9:28 AM
42	chris caris	Nov 2, 2012 7:16 AM
43	Christine Southwick	Nov 1, 2012 2:07 PM
44	Kendra Maty	Nov 1, 2012 1:57 PM
45	Nick	Nov 1, 2012 1:17 PM
46	Liz Cruz	Nov 1, 2012 1:13 PM
47	Jennifer McBroom	Nov 1, 2012 11:39 AM
48	Aimee Rockhill	Nov 1, 2012 10:23 AM
49	Nora Rojek	Nov 1, 2012 9:43 AM
50	Andrea Wuenschel	Nov 1, 2012 9:27 AM
51	emily wittman	Nov 1, 2012 8:58 AM
52	Christine M. Stalling	Nov 1, 2012 8:14 AM
53	Erin Boyle	Nov 1, 2012 8:13 AM
54	Kristine Evans	Nov 1, 2012 7:43 AM

55 Kaylene Keller Oct 31, 2012 2 56 Nick Van Lanen Oct 31, 2012 1 57 Kevin Petrik Oct 31, 2012 1 58 Kristin Sesser Oct 31, 2012 1 59 Khara Strum Oct 31, 2012 12 60 Lisa Duarte Oct 31, 2012 12 61 Mark Dettling Oct 31, 2012 12 62 Joel C Oct 31, 2012 12 63 Ingrid Hogle Oct 31, 2012 12	:54 PM :45 PM
57 Kevin Petrik Oct 31, 2012 1 58 Kristin Sesser Oct 31, 2012 1 59 Khara Strum Oct 31, 2012 12 60 Lisa Duarte Oct 31, 2012 12 61 Mark Dettling Oct 31, 2012 12 62 Joel C Oct 31, 2012 12	:45 PM
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63 Ingrid Hogle Oct 31, 2012 11	2:18 PM
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64 Karen Lee Oct 31, 2012 10	D:55 AM
65 Libby Mojica Oct 31, 2012 9	:32 AM
66 Wolfgang Grunberg Oct 31, 2012 9	:29 AM
67 Michael Norelli Oct 31, 2012 9	:20 AM
68 Marie Pitts Oct 31, 2012 9	:17 AM
69 Paul Hardwick Oct 31, 2012 8	:36 AM
70 John Neill Oct 31, 2012 8	:24 AM
71 Eric Bergey Oct 31, 2012 8	:09 AM
72 Marie Buell Oct 31, 2012 7	:45 AM
73 Linda Margullis Oct 31, 2012 7	:45 AM
74 Kylan Frye Oct 31, 2012 7	:30 AM
75 Thomas Laxson Oct 31, 2012 7	:04 AM
76 Courtney Ellerbusch Oct 31, 2012 6	:46 AM
77 Laura Quattrini Oct 31, 2012 6	
78 Amal Ajmi Oct 30, 2012 4	:24 AM
79 Deanne DiPietro and Dennis Jongsomjit Oct 30, 2012 3	
80 Courtney Ellerbusch Oct 4, 2012 3:	:19 PM
81 Darcy Reinier Oct 4, 2012 3:	:19 PM :08 PM

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82	Michael Hansen	Oct 4, 2012 3:37 PM	
83	George Rimer	Oct 4, 2012 3:34 PM	
84	Liz Lotz	Oct 4, 2012 3:28 PM	
85	Alex Young	Oct 4, 2012 3:11 PM	

Page 1,	Q2. Organization or Industry	
1	US Marine Corp	Dec 26, 2012 4:00 PM
2	Playa Lakes Joint Venture	Dec 21, 2012 6:53 AM
3	Fort Hunter Liggett - DPW Environmental	Dec 17, 2012 8:19 AM
4	US Fish and Wildlife Service	Dec 13, 2012 1:38 PM
5	Public Works Department	Dec 13, 2012 10:34 AM
6	Contract wildlife biologist Army Reserves	Dec 13, 2012 6:50 AM
7	USFWS	Dec 12, 2012 7:11 PM
8	Urban Ecology Center, not-for-profit environmental education and community center	Dec 11, 2012 11:22 AM
9	Klamath Bird Observatory	Dec 11, 2012 9:58 AM
10	Bureau of Land Management, Wyoming State Office	Dec 5, 2012 7:43 AM
11	State of Michigan, Department of Natural Resources, Wildlife Division	Dec 5, 2012 7:29 AM
12	Ohio DNR, Div. of Wildlife	Dec 5, 2012 5:07 AM
13	Michigan DNR	Dec 4, 2012 9:32 PM
14	volunteer with eBird	Dec 4, 2012 3:24 PM
15	Cleveland Museum of Natural History volunteer. CMNH owns and regularly surveys over 5,000 acres	Dec 4, 2012 2:03 PM
16	Heartland I&M Network, National Park Service	Dec 4, 2012 1:05 PM
17	Rocky Mountain Bird Observatory	Dec 4, 2012 12:59 PM
18	Environmental Consulting	Dec 4, 2012 12:54 PM
19	Ohio Division of Wildife	Dec 4, 2012 12:52 PM
20	Rocky Mountain Bird Observatory	Dec 4, 2012 12:43 PM
21	Missouri River Bird Observatory	Dec 4, 2012 12:30 PM
22	Audubon Society	Dec 4, 2012 12:23 PM
23	Michigan Department of Natural Resources	Dec 4, 2012 12:18 PM
24	Kalamazoo Nature Center	Dec 4, 2012 11:47 AM
25	Humboldt Bay and Klamath Bird Observatories	Dec 4, 2012 11:46 AM
26	Black Swamp Bird Observatory	Dec 4, 2012 11:45 AM

Page 1,	Q2. Organization or Industry	
27	Midwest Coordinated Bird Monitoring Partnership and USFWS	Dec 4, 2012 11:28 AM
28	San Francisco Bay Bird Observatory	Nov 21, 2012 2:35 PM
29	Salas	Nov 14, 2012 10:16 AM
30	Montana Fish, Wildlife & Parks	Nov 9, 2012 7:43 AM
31	National Park Service (federal gov't)	Nov 8, 2012 3:14 PM
32	San Francisco Bay National Estuarine Research Reserve	Nov 7, 2012 9:41 PM
33	SF Bay National Estuarine Research Reserve	Nov 7, 2012 4:19 PM
34	US Fish and Wildlife Service - Common Murre Restoration Project	Nov 7, 2012 10:22 AM
35	Pepperwood Preserve	Nov 6, 2012 12:00 PM
36	US Army Reserve contract wildlife biologist	Nov 6, 2012 8:44 AM
37	National Park Service	Nov 2, 2012 4:06 PM
38	U.S. Fish and Wildlife Service, Humboldt State University	Nov 2, 2012 10:21 AM
39	San Francisco Bay Conservation & Development Commission	Nov 2, 2012 10:17 AM
40	U.S. Fish and Wildlife Service	Nov 2, 2012 9:32 AM
41	USFWS	Nov 2, 2012 9:28 AM
42	usfws- fed govt.	Nov 2, 2012 7:16 AM
43	Puget Sound Bird Observatory	Nov 1, 2012 2:07 PM
44	USFWS - NWRS	Nov 1, 2012 1:57 PM
45	CEMAR	Nov 1, 2012 1:17 PM
46	U.S. Fish & Wildlife Service	Nov 1, 2012 1:13 PM
47	Invasive Spartina Project	Nov 1, 2012 11:39 AM
48	USFWS	Nov 1, 2012 10:23 AM
49	U.S. Fish and Wildlife Service	Nov 1, 2012 9:43 AM
50	Puget Sound Bird Observatory	Nov 1, 2012 9:27 AM
51	kino bay center for cultural & ecological studies	Nov 1, 2012 8:58 AM
52	US Forest Service	Nov 1, 2012 8:14 AM
53	U.S. Fish & Wildlife Service	Nov 1, 2012 8:13 AM

Page 1	, Q2. Organization or Industry	
54	USFWS	Nov 1, 2012 7:43 AM
55	USFWS	Oct 31, 2012 2:25 PM
56	Rocky Mountain Bird Observatory	Oct 31, 2012 1:54 PM
57	Ducks Unlimited	Oct 31, 2012 1:45 PM
58	PRBO Conservation Science	Oct 31, 2012 1:01 PM
59	PRBO Conservation Science	Oct 31, 2012 12:52 PM
60	USGS Gap Analysis Program - University of Idaho	Oct 31, 2012 12:41 PM
61	PRBO Conservation Science	Oct 31, 2012 12:31 PM
62	Pepperwood Preserve	Oct 31, 2012 12:18 PM
63	SF Estuary Invasive Spartina Project	Oct 31, 2012 11:59 AM
64	US Forest Service, Rocky Mnt Regional Office	Oct 31, 2012 10:55 AM
65	Center for Conservation Biology	Oct 31, 2012 9:32 AM
66	Arizona Game and Fish Department	Oct 31, 2012 9:29 AM
67	Golden Gate National Parks Conservancy	Oct 31, 2012 9:20 AM
68	Center for Conservation Biology (College of William and Mary and Virginia Commonwealth University)	Oct 31, 2012 9:17 AM
69	Sequoia Kings Canyon National Parks	Oct 31, 2012 8:36 AM
70	Utah Division of Wildlife Resources	Oct 31, 2012 8:24 AM
71	US Fish and Wildlife	Oct 31, 2012 8:09 AM
72	The Watershed Research and Training Center	Oct 31, 2012 7:45 AM
73	US Fish and Wildlife Service	Oct 31, 2012 7:45 AM
74	HawkWatch International	Oct 31, 2012 7:30 AM
75	University of Idaho	Oct 31, 2012 7:04 AM
76	Sonoma County Water Agency	Oct 31, 2012 6:46 AM
77	Rocky Mountain Bird Observatory	Oct 31, 2012 6:24 AM
78	ERM	Oct 30, 2012 4:19 PM
79	PRBO Conservation Science	Oct 30, 2012 3:08 PM
80	Sonoma County Cater Agency	Oct 4, 2012 3:50 PM

Page 1, Q2. Organization or Industry			
81	Sonoma County PRMD	Oct 4, 2012 3:40 PM	
82	County of Sonoma	Oct 4, 2012 3:37 PM	
83	Sonoma State University	Oct 4, 2012 3:34 PM	
84	Marin County Flood Control and Water Conservation District	Oct 4, 2012 3:28 PM	
85	Sonoma Ecology Center	Oct 4, 2012 3:11 PM	

Page 1,	Q3. Email (so that we may contact you about upcoming metadata trainings)	
1	megan.sayles@usmc.mil	Dec 26, 2012 4:00 PM
2	alex.daniels@pljv.org	Dec 21, 2012 6:53 AM
3	lauren.l.kahal.ctr@mail.mil	Dec 17, 2012 8:19 AM
4	pat_lineback@fws.gov	Dec 13, 2012 1:38 PM
5	katherine.stevenson@navy.mil	Dec 13, 2012 10:34 AM
6	jacquelyn.j.hancock.ctr@mail.mil	Dec 13, 2012 6:50 AM
7	steve_holzman@fws.gov	Dec 12, 2012 7:11 PM
8	areis@urbanecologycenter.org	Dec 11, 2012 11:22 AM
9	kfh@klamathbird.org	Dec 11, 2012 9:58 AM
10	dsaville@blm.gov	Dec 5, 2012 7:43 AM
11	strongm@michigan.gov	Dec 5, 2012 7:29 AM
12	Nathan.Stricker@dnr.state.oh.us	Dec 5, 2012 5:07 AM
13	palmgreng@michigan.gov	Dec 4, 2012 9:32 PM
14	ostermik@gmail.com	Dec 4, 2012 3:24 PM
15	Naturenut@wowway.com	Dec 4, 2012 2:03 PM
16	gareth_rowell@nps.gov	Dec 4, 2012 1:05 PM
17	rob.sparks@rmbo.org	Dec 4, 2012 12:59 PM
18	greg.gallaugher@lsa-assoc.com	Dec 4, 2012 12:54 PM
19	kenneth.duren@dnr.state.oh.us	Dec 4, 2012 12:52 PM
20	chris.white@rmbo.org	Dec 4, 2012 12:43 PM
21	ethan.duke@mrbo.org	Dec 4, 2012 12:30 PM
22	khall@audubon.org	Dec 4, 2012 12:23 PM
23	clevelandk1@michigan.gov	Dec 4, 2012 12:18 PM
24	jbaldy@naturecenter.org	Dec 4, 2012 11:47 AM
25	jsr@klamathbird.org	Dec 4, 2012 11:46 AM
26	markshieldcastle@bsbo.org	Dec 4, 2012 11:45 AM
27	katie_koch@fws.gov	Dec 4, 2012 11:28 AM

age 1	, Q3. Email (so that we may contact you about upcoming metadata train	nings)
28	jscullen@sfbbo.org	Nov 21, 2012 2:35 PM
29	lsalas@prbo.org	Nov 14, 2012 10:16 AI
30	lbailey@mt.gov	Nov 9, 2012 7:43 AM
31	aneth_wight@nps.gov	Nov 8, 2012 3:14 PM
32	akdeck@gmail.com	Nov 7, 2012 9:41 PM
33	mferner@sfsu.edu	Nov 7, 2012 4:19 PM
34	arf17@humboldt.edu	Nov 7, 2012 10:22 AM
35	mjensen@pepperwoodpreserve.org	Nov 6, 2012 12:00 PM
36	jacquelyn.j.hancock.ctr@mail.mil	Nov 6, 2012 8:44 AM
37	helen_thomas@nps.gov	Nov 2, 2012 4:06 PM
38	corey.s.shake@gmail.com	Nov 2, 2012 10:21 Al
39	javierd@bcdc.ca.gov	Nov 2, 2012 10:17 Al
40	ivette_loredo@fws.gov	Nov 2, 2012 9:32 AN
41	david_hoy@fws.gov	Nov 2, 2012 9:28 AN
42	christopher_caris@fws.gov	Nov 2, 2012 7:16 AN
43	clsouthwick@q.com	Nov 1, 2012 2:07 PM
44	kendra_maty@fws.gov	Nov 1, 2012 1:57 PN
45	reseburg@cemar.org	Nov 1, 2012 1:17 PN
46	liz_cruz@fws.gov	Nov 1, 2012 1:13 PM
47	jtmcbroom@spartina.org	Nov 1, 2012 11:39 Al
48	aimee_rockhill@fws.gov	Nov 1, 2012 10:23 Al
49	nora_rojek@fws.gov	Nov 1, 2012 9:43 AN
50	chyroptera@yahoo.com	Nov 1, 2012 9:27 AN
51	ecwittman@gmail.com	Nov 1, 2012 8:58 AN
52	cstalling@fs.fed.us	Nov 1, 2012 8:14 AN
53	erin_boyle@fws.gov	Nov 1, 2012 8:13 AM
54	kristine_evans@fws.gov	Nov 1, 2012 7:43 AN

60 Iduarte@uidaho.edu Oct 31, 2012 12:41 PM 61 mdettling@prbo.org Oct 31, 2012 12:31 PM 62 jcervantes@pepperwoodpreserve.org Oct 31, 2012 12:18 PM 63 ibhogle@spartina.org Oct 31, 2012 11:59 AM	Page 1, Q3. Email (so that we may contact you about upcoming metadata trainings)		
57 kpetrik@ducks.org Oct 31, 2012 1:45 PM 58 ksesser@prbo.org Oct 31, 2012 1:01 PM 59 kstrum@prbo.org Oct 31, 2012 12:52 PM 60 Iduarte@uidaho.edu Oct 31, 2012 12:41 PM 61 mdettling@prbo.org Oct 31, 2012 12:31 PM 62 jcervantes@pepperwoodpreserve.org Oct 31, 2012 12:18 PM 63 ibhogle@spartina.org Oct 31, 2012 11:59 AM 64 karenlee@fs.fed.us Oct 31, 2012 10:55 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:29 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:29 AM 68 mipitts@wm.edu Oct 31, 2012 9:20 AM 69 paul_hardwick@nps.gov Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:24 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 7:35 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:34 AM 73 linda_margullis@fws.gov Oc	55	Kaylene_Keller@fws.gov	Oct 31, 2012 2:25 PM
58 ksesser@prbo.org Oct 31, 2012 1:01 PM 59 kstrum@prbo.org Oct 31, 2012 12:52 PM 60 Iduarte@uidaho.edu Oct 31, 2012 12:41 PM 61 mdettling@prbo.org Oct 31, 2012 12:31 PM 62 jcervantes@pepperwoodpreserve.org Oct 31, 2012 12:18 PM 63 ibhogle@spartina.org Oct 31, 2012 11:59 AM 64 karenlee@fs.fed.us Oct 31, 2012 9:32 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:29 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:20 AM 68 mipitts@wm.edu Oct 31, 2012 9:20 AM 69 paul_hardwick@nps.gov Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:24 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 7:45 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:30 AM 74 kfrye@hawkwatch.org O	56	nick.vanlanen@rmbo.org	Oct 31, 2012 1:54 PM
59 kstrum@prbo.org Oct 31, 2012 12:52 PM 60 Iduarte@uidaho.edu Oct 31, 2012 12:41 PM 61 mdettling@prbo.org Oct 31, 2012 12:31 PM 62 jcervantes@pepperwoodpreserve.org Oct 31, 2012 12:18 PM 63 ibhogle@spartina.org Oct 31, 2012 11:59 AM 64 karenlee@fs.fed.us Oct 31, 2012 9:32 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:29 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:20 AM 68 mlpitts@wm.edu Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:34 AM 71 eric_bergey@fws.gov Oct 31, 2012 8:09 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 6:46 AM 76 celler@scwa.ca.gov Oc	57	kpetrik@ducks.org	Oct 31, 2012 1:45 PM
60 Iduarte@uidaho.edu Oct 31, 2012 12:41 PM 61 mdettling@prbo.org Oct 31, 2012 12:31 PM 62 jcervantes@pepperwoodpreserve.org Oct 31, 2012 12:18 PM 63 ibhogle@spartina.org Oct 31, 2012 11:59 AM 64 karenlee@fs.fed.us Oct 31, 2012 9:32 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:20 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:20 AM 68 mlpitts@wm.edu Oct 31, 2012 9:20 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@tws.gov Oct 31, 2012 7:45 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:45 AM 75 tlaxson@uidaho.edu Oct 31, 2012 6:46 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com O	58	ksesser@prbo.org	Oct 31, 2012 1:01 PM
61 mdettling@prbo.org Oct 31, 2012 12:31 PM 62 jcervantes@pepperwoodpreserve.org Oct 31, 2012 12:18 PM 63 ibhogle@spartina.org Oct 31, 2012 11:59 AM 64 karenlee@fs.fed.us Oct 31, 2012 9:32 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:29 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:20 AM 68 mlpitts@wm.edu Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@ftws.gov Oct 31, 2012 8:09 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@ftws.gov Oct 31, 2012 7:30 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:30 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:24 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com	59	kstrum@prbo.org	Oct 31, 2012 12:52 PM
62 jcervantes@pepperwoodpreserve.org Oct 31, 2012 12:18 PM 63 ibhogle@spartina.org Oct 31, 2012 11:59 AM 64 karenlee@fs.fed.us Oct 31, 2012 10:55 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:29 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:20 AM 68 mlpitts@wm.edu Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 8:09 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@g	60	lduarte@uidaho.edu	Oct 31, 2012 12:41 PM
63 ibhogle@spartina.org Oct 31, 2012 11:59 AM 64 karenlee@fs.fed.us Oct 31, 2012 10:55 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:29 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:20 AM 68 mlpitts@wm.edu Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 8:09 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:45 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 4, 2012 3:50 PM	61	mdettling@prbo.org	Oct 31, 2012 12:31 PM
64 karenlee@fs.fed.us Oct 31, 2012 10:55 AM 65 ekmojica@wm.edu Oct 31, 2012 9:32 AM 66 wgrunberg@azgfd.gov Oct 31, 2012 9:29 AM 67 mnorelli@parksconservancy.org Oct 31, 2012 9:20 AM 68 mlpitts@wm.edu Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 8:24 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:50 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	62	jcervantes@pepperwoodpreserve.org	Oct 31, 2012 12:18 PM
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68 mlpitts@wm.edu Oct 31, 2012 9:17 AM 69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 8:09 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	66	wgrunberg@azgfd.gov	Oct 31, 2012 9:29 AM
69 paul_hardwick@nps.gov Oct 31, 2012 8:36 AM 70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 7:45 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	67	mnorelli@parksconservancy.org	Oct 31, 2012 9:20 AM
70 johnneill@utah.gov Oct 31, 2012 8:24 AM 71 eric_bergey@fws.gov Oct 31, 2012 7:45 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	68	mlpitts@wm.edu	Oct 31, 2012 9:17 AM
71 eric_bergey@fws.gov Oct 31, 2012 8:09 AM 72 marie@thewatershedcenter.com Oct 31, 2012 7:45 AM 73 linda_margullis@fws.gov Oct 31, 2012 7:45 AM 74 kfrye@hawkwatch.org Oct 31, 2012 7:30 AM 75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	69	paul_hardwick@nps.gov	Oct 31, 2012 8:36 AM
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75 tlaxson@uidaho.edu Oct 31, 2012 7:04 AM 76 celler@scwa.ca.gov Oct 31, 2012 6:46 AM 77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	73	linda_margullis@fws.gov	Oct 31, 2012 7:45 AM
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77 laura.quattrini@rmbo.org Oct 31, 2012 6:24 AM 78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	75	tlaxson@uidaho.edu	Oct 31, 2012 7:04 AM
78 amal.ajmi@erm.com Oct 30, 2012 4:19 PM 79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	76	celler@scwa.ca.gov	Oct 31, 2012 6:46 AM
79 ddipietro@prbo.org djongsomjit@gmail.com Oct 30, 2012 3:08 PM 80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	77	laura.quattrini@rmbo.org	Oct 31, 2012 6:24 AM
80 celler@scwa.ca.gov Oct 4, 2012 3:50 PM	78	amal.ajmi@erm.com	Oct 30, 2012 4:19 PM
<u> </u>	79	ddipietro@prbo.org djongsomjit@gmail.com	Oct 30, 2012 3:08 PM
81 dreinier@aol.com Oct 4, 2012 3:40 PM	80	celler@scwa.ca.gov	Oct 4, 2012 3:50 PM
	81	dreinier@aol.com	Oct 4, 2012 3:40 PM

Page 1, Q3. Email (so that we may contact you about upcoming metadata trainings)				
82	mhansen@sonoma-county.org	Oct 4, 2012 3:37 PM		
83	george.rimer@gmail.com	Oct 4, 2012 3:34 PM		
84	llotz@marincounty.org	Oct 4, 2012 3:28 PM		
85	alex@sonomaecologycenter.org	Oct 4, 2012 3:11 PM		

Page 1, Q4. Does your organization create or intend to create formal standards-based metadata for documents and datasets you produce? 1 Unknown Dec 13, 2012 10:34 AM 2 Unsure at this time Dec 5, 2012 5:07 AM 3 I don't know Dec 4, 2012 3:24 PM 4 maybe, for key properties. What is metadata? Dec 4, 2012 2:03 PM 5 Dec 4, 2012 12:54 PM Depends on project and client requirements. 6 We are interested in created metadata and would like to learn more. Dec 4, 2012 12:43 PM 7 intend to create Dec 4, 2012 12:23 PM 8 State government standards require metadata to be created for publicly Dec 4, 2012 12:18 PM distributed GIS data layers/shapefiles 9 Maybe our own standard, probably compliant with FGDC Nov 14, 2012 10:16 AM 10 Uncertain, need more training Nov 6, 2012 12:00 PM 11 Not yet, but would like to Nov 1, 2012 2:07 PM 12 low level of compliance Nov 1, 2012 1:13 PM Sometimes 13 Nov 1, 2012 11:39 AM 14 We would like to. Nov 1, 2012 10:23 AM 15 Not sure Nov 1, 2012 9:27 AM 16 Don't know. Oct 31, 2012 1:01 PM 17 I do not know Oct 31, 2012 12:52 PM 18 Initially for GIS products; later for other data Oct 31, 2012 9:29 AM 19 Only for layers that are published externally, but we also need a simpler internal Oct 31, 2012 9:20 AM standard 20 Not familiar with the standards but others in organization may know. Oct 31, 2012 8:24 AM 21 My position does not. The Science Department may - I will forward this email to Oct 31, 2012 6:24 AM them. 22 always for resource data, sporadically for project data Oct 4, 2012 3:50 PM 23 Mostly yes for publishing research grade data Oct 4, 2012 3:34 PM 24 not currently formalized, but may want to in the future Oct 4, 2012 3:28 PM

Page 1,	Q6. How is metadata created and edited in your organization?	
1	We do both depending on the situation	Dec 11, 2012 9:58 AM
2	Combination of user created and Data Steward created	Dec 5, 2012 7:43 AM
3	typically designated & trained person (me) works with user when appropriate, otherwise I generate the geospatial related metadata for our office products	Dec 5, 2012 7:29 AM
4	I don't know	Dec 4, 2012 3:24 PM
5	GIS staff in the Wildlife Division have a leadership role in generating metadata for GIS data layers (little/no formal metadata is generated on many/most other data sets), individual staff who provide data are expected to also provide sufficient information to GIS staff for them to generate metadata	Dec 4, 2012 12:18 PM
6	We have not created these standards yet	Nov 7, 2012 10:22 AM
7	We're in the process of determining who should maintain our metadata.	Nov 6, 2012 12:00 PM
8	Our data manager and GIS specialist work with other staff to maintain our metadata.	Nov 2, 2012 4:06 PM
9	if at all	Nov 1, 2012 1:13 PM
10	Much of the refuge-level spatial data contains no metadata	Nov 1, 2012 7:43 AM
11	Would like to move toward a single person doing it but that is a long way off.	Oct 31, 2012 2:25 PM
12	We currently do not have metadata files	Oct 31, 2012 1:54 PM
13	I don't know	Oct 31, 2012 8:24 AM
14	Most of our data does not have metadata, and we are not consistant	Oct 31, 2012 7:45 AM
15	Informal currently	Oct 4, 2012 3:28 PM

Page 1,	Page 1, Q7. Does your organization use metadata templates?		
1	we're starting to create templates but need more umfph to get going on it	Dec 13, 2012 1:38 PM	
2	Sort of Sometimes	Dec 4, 2012 9:32 PM	
3	I don't know	Dec 4, 2012 3:24 PM	
4	I don't know what a metadata template is	Dec 4, 2012 12:18 PM	
5	ESRI	Dec 4, 2012 11:47 AM	
6	I think so	Nov 2, 2012 7:16 AM	
7	Sometimes	Nov 1, 2012 11:39 AM	
8	Not sure	Nov 1, 2012 7:43 AM	
9	We plan to	Oct 31, 2012 1:54 PM	
10	Don't know	Oct 31, 2012 1:01 PM	
11	I do not know	Oct 31, 2012 12:52 PM	
12	We want to use metadata templates for ArcCatalog and Geoportal Server	Oct 31, 2012 9:29 AM	
13	I don't know	Oct 31, 2012 8:24 AM	
14	I do but I don't know about the others	Oct 31, 2012 7:45 AM	
15	Standard ESRI with some custom agency info, dsiclaimer	Oct 4, 2012 3:50 PM	
16	basic, organization and contact info	Oct 4, 2012 3:28 PM	

Page 1	Q8. What tools were used to create your current metadata?	
1	EPA	Dec 13, 2012 1:38 PM
2	Combination of tools - mostly Arc based	Dec 5, 2012 7:43 AM
3	blank Word document with all the required blocks, seems easiest for many new to generating metadata	Dec 5, 2012 7:29 AM
4	I don't know	Dec 4, 2012 3:24 PM
5	eBird and excel files	Dec 4, 2012 2:03 PM
6	None	Dec 4, 2012 12:43 PM
7	Microsoft Word	Dec 4, 2012 12:18 PM
8	Simply answer meta data questions in word document	Dec 4, 2012 11:46 AM
9	Thus far, text documents	Nov 14, 2012 10:16 AM
10	NPS Metadata Tools Editor	Nov 8, 2012 3:14 PM
11	NPS-developed metadata tool	Nov 2, 2012 4:06 PM
12	not sure	Nov 2, 2012 10:21 AM
13	not sure	Nov 2, 2012 9:32 AM
14	I usually do not	Nov 2, 2012 7:16 AM
15	Microsoft Excel	Nov 1, 2012 9:27 AM
16	Metavist	Nov 1, 2012 8:14 AM
17	ESRI Geoportal Server	Oct 31, 2012 9:29 AM
18	XTools metadata viewer/editor, EPA Metadata Editor	Oct 31, 2012 9:20 AM
19	EPA Metadata Editor	Oct 31, 2012 8:36 AM

Page 1,	Q9. Which tools are you interested in using in using now or in the future	
1	EPA	Dec 13, 2012 1:38 PM
2	still want to use the Word document template, as it's proven itself because works for almost everyone if team creating metadata	Dec 5, 2012 7:29 AM
3	Unsure what would fit our needs	Dec 5, 2012 5:07 AM
4	I don't know	Dec 4, 2012 3:24 PM
5	any available	Dec 4, 2012 1:05 PM
6	I don't know the strengths or weaknesses of the tools listed. It would be beneficial to get a description of these tools so that an informed decision could be made.	Dec 4, 2012 12:18 PM
7	Maybe something we develop in-house	Nov 14, 2012 10:16 AM
8	Any tool or combination of tools that works.	Nov 2, 2012 4:06 PM
9	not sure, whatever is the minimum necessary and easiest to use	Nov 2, 2012 10:21 AM
10	BANDIT	Nov 1, 2012 2:07 PM
11	Not sure	Nov 1, 2012 9:27 AM
12	x-tools	Nov 1, 2012 7:43 AM
13	ESRI Geoportal Server	Oct 31, 2012 9:29 AM
14	EPA Metadata Editor	Oct 31, 2012 8:36 AM
15	EPA Metadata Editor	Oct 31, 2012 8:09 AM
16	Anything that is fast and easy to do	Oct 31, 2012 7:45 AM
17	10.1	Oct 4, 2012 3:50 PM

that it supports not only individuals but the office or program development of metadata 2 EPA Dec 12, 2012 7:11 P 3 Limited to federal approved sources Dec 5, 2012 7:43 Al 4 have seen these come and go in decades. I was involved with the first development and testing of FGDC metadata standard many years ago, and therefore experienced with all this. 5 Had never considered anything outside ArcGIS tools before, but I'm definitely open to new suggestions/ideas. 6 any available Dec 4, 2012 1:05 PP 7 Interested in learning enough to decide Dec 4, 2012 12:43 P 8 I am not familiar with any open source tools. More information would be beneficial. 9 Would like to learn more about the options. Dec 4, 2012 11:46 A 10 I would be interested in learning what open-source resources are available. Nov 21, 2012 2:35 P 11 Interested in learning more given the issues with Esri's metadata editors. Nov 9, 2012 7:43 Al 12 Whatever one works. Nov 8, 2012 3:14 PPI 13 interested in learning enough to decide Nov 7, 2012 4:19 PI 14 We are interested in learning enough to decide Nov 7, 2012 10:22 A 15 don't know Nov 6, 2012 8:44 Al 16 Mostly want to learn enough to decide. Nov 2, 2012 7:16 Al 18 mostly interested in learning enough to decide Nov 1, 2012 2:07 PPI 19 learning to decide Nov 1, 2012 11:39 A 10 I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. 21 Interested in learning enough to decide Nov 1, 2012 11:39 A 22 Not interested unless they were creating metadata for databases or non-spatial data.		Q10. If you are using or interested in Open Source metadata editors, which one(s) stly interested in learning enough to decide?)	in particular? (or are
Limited to federal approved sources Dec 5, 2012 7:43 AI A have seen these come and go in decades. I was involved with the first development and testing of FGDC metadata standard many years ago, and therefore experienced with all this. 5 Had never considered anything outside ArcGIS tools before, but I'm definitely open to new suggestions/ideas. 6 any available Dec 4, 2012 1:05 Pf 7 Interested in learning enough to decide Bec 4, 2012 12:18 P beneficial. 9 Would like to learn more about the options. 10 I would be interested in learning what open-source resources are available. Nov 21, 2012 2:35 Pf 11 Interested in learning more given the issues with Esri's metadata editors. Nov 9, 2012 7:43 AI Whatever one works. Nov 8, 2012 3:14 Pf 13 interested in learning enough to decide Nov 7, 2012 4:19 Pf We are interested in learning enough to decide Nov 7, 2012 10:22 A Mostly want to learn enough to decide. Nov 2, 2012 7:16 AI Mostly want to learning enough to decide Nov 1, 2012 2:07 Pf 19 learning to decide Nov 1, 2012 1:139 A to switch any time soon. 21 Interested in learning enough to decide Nov 1, 2012 1:139 A Nov 1, 2012 2:25 P Not interested in learning enough to decide Nov 1, 2012 2:25 P Not interested unless they were creating metadata for databases or non-spatial data.	1	that it supports not only individuals but the office or program development of	Dec 13, 2012 1:38 PM
have seen these come and go in decades. I was involved with the first development and testing of FGDC metadata standard many years ago, and therefore experienced with all this. 5 Had never considered anything outside ArcGIS tools before, but I'm definitely open to new suggestions/ideas. 6 any available Dec 4, 2012 1:05 PI Interested in learning enough to decide Dec 4, 2012 12:43 PI Interested in learning enough to decide Dec 4, 2012 12:43 PI Dec 4, 2012 12:18 PI Dec 4, 2012 12:23 PI Dec 4, 2012 2:35 PI Dec 4, 2012 2:35 PI Dec 4, 2012 2:35 PI Dec 4, 2012 2:25 PI Dec	2	EPA	Dec 12, 2012 7:11 PM
development and testing of FGDC metadata standard many years ago, and therefore experienced with all this. 5 Had never considered anything outside ArcGIS tools before, but I'm definitely open to new suggestions/ideas. 6 any available Dec 4, 2012 1:05 Pf Interested in learning enough to decide Dec 4, 2012 12:43 Pf Interested in learning enough to decide Dec 4, 2012 12:18 Pf Deneficial. 9 Would like to learn more about the options. Dec 4, 2012 11:46 Af Interested in learning more given the issues with Esri's metadata editors. Nov 21, 2012 2:35 Pf Interested in learning more given the issues with Esri's metadata editors. Nov 9, 2012 7:43 Af Interested in learning enough to decide Nov 7, 2012 4:19 Pf We are interested in learning enough to decide Nov 7, 2012 4:19 Pf Interested in learning enough to decide Nov 7, 2012 4:19 Pf Interested in learning enough to decide Nov 7, 2012 4:19 Pf Interested in learning enough to decide Nov 7, 2012 4:19 Pf Interested in learning enough to decide Nov 7, 2012 4:06 Pf Interested in learning enough to decide Nov 1, 2012 2:07 Pf Interested in learning enough to decide Nov 1, 2012 2:07 Pf Interested in learning enough to decide Nov 1, 2012 2:117 Pf Interested in learning enough to decide Nov 1, 2012 2:117 Pf Interested in learning enough to decide Nov 1, 2012 2:117 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interested in learning enough to decide Nov 1, 2012 2:25 Pf Interes	3	Limited to federal approved sources	Dec 5, 2012 7:43 AM
open to new suggestions/ideas. 6 any available Dec 4, 2012 1:05 PM 7 Interested in learning enough to decide Dec 4, 2012 12:43 P 8 I am not familiar with any open source tools. More information would be beneficial. 9 Would like to learn more about the options. Dec 4, 2012 11:46 A 10 I would be interested in learning what open-source resources are available. Nov 21, 2012 2:35 P 11 Interested in learning more given the issues with Esri's metadata editors. Nov 9, 2012 7:43 AM 12 Whatever one works. Nov 8, 2012 3:14 PM 13 interested in learning enough to decide Nov 7, 2012 4:19 PM 14 We are interested in learning enough to decide Nov 7, 2012 10:22 A 15 don't know Nov 6, 2012 8:44 AM 16 Mostly want to learn enough to decide. Nov 2, 2012 7:16 AM 18 mostly interested in learning enough to decide Nov 1, 2012 2:07 PM 19 learning to decide Nov 1, 2012 2:07 PM 20 I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. 21 Interested in learning enough to decide Nov 1, 2012 9:43 AM 22 Not interested unless they were creating metadata for databases or non-spatial data. Oct 31, 2012 2:25 P	4	development and testing of FGDC metadata standard many years ago, and	Dec 5, 2012 7:29 AM
Therested in learning enough to decide I am not familiar with any open source tools. More information would be beneficial. Would like to learn more about the options. Dec 4, 2012 12:18 P Dec 4, 2012 11:46 A I would be interested in learning what open-source resources are available. Nov 21, 2012 2:35 P Interested in learning more given the issues with Esri's metadata editors. Nov 9, 2012 7:43 Af Whatever one works. Nov 8, 2012 3:14 Pf We are interested in learning enough to decide Nov 7, 2012 4:19 Pf We are interested in learning enough to decide Nov 6, 2012 8:44 Af Mostly want to learn enough to decide. Nov 2, 2012 7:16 Af mostly interested in learning enough to decide Nov 1, 2012 2:07 Pf learning to decide Nov 1, 2012 1:17 Pf Nov 1, 2012 1:139 A to switch any time soon. Interested in learning enough to decide Nov 1, 2012 1:39 A Nov 1, 2012 2:25 Pf Not interested unless they were creating metadata for databases or non-spatial data.	5		Dec 4, 2012 9:32 PM
8 I am not familiar with any open source tools. More information would be beneficial. 9 Would like to learn more about the options. 10 I would be interested in learning what open-source resources are available. 11 Interested in learning more given the issues with Esri's metadata editors. 12 Whatever one works. 13 Interested in learning enough to decide 14 We are interested in learning enough to decide 15 don't know 16 Mostly want to learn enough to decide. 17 yes 18 mostly interested in learning enough to decide 19 learning to decide 10 Nov 1, 2012 2:7:16 Al 18 mostly interested in learning enough to decide 19 learning to decide 10 Nov 1, 2012 2:7 Pl 20 I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. 21 Interested in learning enough to decide 22 Not interested unless they were creating metadata for databases or non-spatial data. 25 Oct 31, 2012 2:25 Pl 26 Data interested in learning enough to decide 27 Oct 31, 2012 2:25 Pl 28 Data interested in learning enough to decide 28 Nov 1, 2012 2:25 Pl 29 Data interested in learning enough to decide 30 Oct 31, 2012 2:25 Pl 31 Data interested in learning enough to decide 30 Oct 31, 2012 2:25 Pl 31 Data interested in learning enough to decide 31 Oct 31, 2012 2:25 Pl 32 Data interested in learning enough to decide 32 Not interested unless they were creating metadata for databases or non-spatial data.	6	any available	Dec 4, 2012 1:05 PM
beneficial. 9 Would like to learn more about the options. 10 I would be interested in learning what open-source resources are available. 11 Interested in learning more given the issues with Esri's metadata editors. 12 Whatever one works. 13 Interested in learning enough to decide 14 We are interested in learning enough to decide 15 don't know 16 Mostly want to learn enough to decide. 17 yes 18 mostly interested in learning enough to decide 19 learning to decide 10 Nov 1, 2012 2:07 Pf 19 learning to decide 10 Nov 1, 2012 1:17 Pf 20 I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. 21 Interested in learning enough to decide Nov 1, 2012 9:43 Af 22 Not interested unless they were creating metadata for databases or non-spatial data. Oct 31, 2012 2:25 P	7	Interested in learning enough to decide	Dec 4, 2012 12:43 PM
I would be interested in learning what open-source resources are available. Nov 21, 2012 2:35 P Interested in learning more given the issues with Esri's metadata editors. Nov 9, 2012 7:43 Af Whatever one works. Nov 8, 2012 3:14 Pf interested in learning enough to decide Nov 7, 2012 4:19 Pf We are interested in learning enough to decide Nov 6, 2012 8:44 Af Mostly want to learn enough to decide. Nov 2, 2012 4:06 Pf yes Nov 2, 2012 7:16 Af mostly interested in learning enough to decide Nov 1, 2012 2:07 Pf learning to decide Nov 1, 2012 1:17 Pf would be interested in learn more about Open Source, but don't have any plans to switch any time soon. Nov 1, 2012 9:43 Af Not interested unless they were creating metadata for databases or non-spatial data. Oct 31, 2012 2:25 Pf	8		Dec 4, 2012 12:18 PM
Interested in learning more given the issues with Esri's metadata editors. Nov 9, 2012 7:43 Al Whatever one works. Nov 8, 2012 3:14 Pl Nov 7, 2012 4:19 Pl We are interested in learning enough to decide Nov 7, 2012 10:22 Al Nov 6, 2012 8:44 Al Mostly want to learn enough to decide. Nov 2, 2012 4:06 Pl Nov 2, 2012 7:16 Al mostly interested in learning enough to decide Nov 1, 2012 2:07 Pl learning to decide Nov 1, 2012 1:17 Pl Nov 1, 2012 1:139 Al to switch any time soon. Interested unless they were creating metadata for databases or non-spatial data. Oct 31, 2012 2:25 Pl	9	Would like to learn more about the options.	Dec 4, 2012 11:46 AM
Whatever one works. Nov 8, 2012 3:14 Pf interested in learning enough to decide Nov 7, 2012 4:19 Pf We are interested in learning enough to decide Nov 7, 2012 10:22 A box 6, 2012 8:44 Af Mostly want to learn enough to decide Nov 2, 2012 4:06 Pf yes Nov 2, 2012 7:16 Af mostly interested in learning enough to decide Nov 1, 2012 2:07 Pf learning to decide Nov 1, 2012 1:17 Pf Nov 1, 2012 1:17 Pf I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. Interested in learning enough to decide Nov 1, 2012 9:43 Af Not interested unless they were creating metadata for databases or non-spatial data.	10	I would be interested in learning what open-source resources are available.	Nov 21, 2012 2:35 PM
interested in learning enough to decide Nov 7, 2012 4:19 Pf We are interested in learning enough to decide Nov 7, 2012 10:22 A box 6, 2012 8:44 Af Mostly want to learn enough to decide. Nov 2, 2012 4:06 Pf yes Nov 2, 2012 7:16 Af mostly interested in learning enough to decide Nov 1, 2012 2:07 Pf learning to decide Nov 1, 2012 1:17 Pf learning to decide Nov 1, 2012 1:39 Af to switch any time soon. Interested in learning enough to decide Nov 1, 2012 2:25 Pf Not interested unless they were creating metadata for databases or non-spatial data.	11	Interested in learning more given the issues with Esri's metadata editors.	Nov 9, 2012 7:43 AM
We are interested in learning enough to decide Nov 7, 2012 10:22 A 15 don't know Nov 6, 2012 8:44 Af 16 Mostly want to learn enough to decide. Nov 2, 2012 4:06 Pf 17 yes Nov 2, 2012 7:16 Af 18 mostly interested in learning enough to decide Nov 1, 2012 2:07 Pf 19 learning to decide Nov 1, 2012 1:17 Pf 20 I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. 21 Interested in learning enough to decide Nov 1, 2012 9:43 Af 22 Not interested unless they were creating metadata for databases or non-spatial data. Oct 31, 2012 2:25 Pf	12	Whatever one works.	Nov 8, 2012 3:14 PM
don't know Nov 6, 2012 8:44 Al Mostly want to learn enough to decide. Nov 2, 2012 4:06 Pl yes Nov 2, 2012 7:16 Al mostly interested in learning enough to decide Nov 1, 2012 2:07 Pl learning to decide Nov 1, 2012 1:17 Pl learning to decide Nov 1, 2012 1:17 Pl learning to decide Nov 1, 2012 1:139 Al to switch any time soon. Interested in learning enough to decide Nov 1, 2012 1:25 Pl Nov 1, 2012 2:25 Pl data.	13	interested in learning enough to decide	Nov 7, 2012 4:19 PM
Mostly want to learn enough to decide. Nov 2, 2012 4:06 Pf yes Nov 2, 2012 7:16 Af mostly interested in learning enough to decide Nov 1, 2012 2:07 Pf learning to decide Nov 1, 2012 1:17 Pf learning to decide Nov 1, 2012 1:17 Pf understand in learn more about Open Source, but don't have any plans to switch any time soon. Interested in learning enough to decide Nov 1, 2012 11:39 Af Nov 1, 2012 9:43 Af Nov 1, 2012 2:25 Pf Not interested unless they were creating metadata for databases or non-spatial data.	14	We are interested in learning enough to decide	Nov 7, 2012 10:22 AM
yes Nov 2, 2012 7:16 Al Nov 1, 2012 2:07 Pl learning to decide Nov 1, 2012 2:07 Pl learning to decide Nov 1, 2012 1:17 Pl learning to decide Nov 1, 2012 1:17 Pl learning to decide Nov 1, 2012 1:17 Pl learning to decide Nov 1, 2012 1:39 Al to switch any time soon. Interested in learning enough to decide Nov 1, 2012 9:43 Al Nov 1, 2012 9:43 Al Nov 1, 2012 2:25 Pl data.	15	don't know	Nov 6, 2012 8:44 AM
mostly interested in learning enough to decide Nov 1, 2012 2:07 Pf learning to decide Nov 1, 2012 1:17 Pf learning to decide Nov 1, 2012 1:17 Pf learning to decide Nov 1, 2012 1:139 Af learning enough to decide Nov 1, 2012 1:39 Af Nov 1, 2012 9:43 Af Nov 1, 2012 9:43 Af Nov 1, 2012 2:25 Pf learning enough to decide Nov 1, 2012 2:25 Pf learning enough to decide Nov 1, 2012 2:25 Pf learning to decide Nov 1, 2012 1:39 Af Oct 31, 2012 2:25 Pf learning to decide Nov 1, 2012 1:39 Af Oct 31, 2012 2:25 Pf learning to decide	16	Mostly want to learn enough to decide.	Nov 2, 2012 4:06 PM
19 learning to decide Nov 1, 2012 1:17 Pf 20 I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. 21 Interested in learning enough to decide Nov 1, 2012 9:43 Af 22 Not interested unless they were creating metadata for databases or non-spatial Oct 31, 2012 2:25 Pf data.	17	yes	Nov 2, 2012 7:16 AM
I would be interested in learn more about Open Source, but don't have any plans to switch any time soon. Nov 1, 2012 11:39 A Interested in learning enough to decide Nov 1, 2012 9:43 A Not interested unless they were creating metadata for databases or non-spatial data.	18	mostly interested in learning enough to decide	Nov 1, 2012 2:07 PM
to switch any time soon. 21 Interested in learning enough to decide Nov 1, 2012 9:43 Al 22 Not interested unless they were creating metadata for databases or non-spatial data. Oct 31, 2012 2:25 P	19	learning to decide	Nov 1, 2012 1:17 PM
Not interested unless they were creating metadata for databases or non-spatial Oct 31, 2012 2:25 P data.	20		Nov 1, 2012 11:39 AM
data.	21	Interested in learning enough to decide	Nov 1, 2012 9:43 AM
23 I am interested in learning about Open Source metadata editors but don't Oct 31, 2012 1:54 P	22	· · · · · · · · · · · · · · · · · · ·	Oct 31, 2012 2:25 PM
3 ,	23	I am interested in learning about Open Source metadata editors but don't	Oct 31, 2012 1:54 PM

Page 1, Q10. If you are using or interested in Open Source metadata editors, which one(s) in particular? (or are you mostly interested in learning enough to decide?)

	currently know anything about them.	
24	need more information about the strengths and weaknesses of other metadta editors	Oct 31, 2012 1:45 PM
25	would like to learn about them.	Oct 31, 2012 1:01 PM
26	Learning enough to decide	Oct 31, 2012 9:20 AM
27	EPA Metadata Editor - Not sure if this is considered open source, but it is free for download.	Oct 31, 2012 8:09 AM
28	I'm mostly interested in learning enough to know what I should be using for each project.	Oct 31, 2012 7:30 AM
29	1) There was one from the FWS, a plug-in to Arc Catalog that we tried and was nice; we will try to find the name of it. 2) Something that works on the Mac (haha, really!)	Oct 30, 2012 3:08 PM
30	interested in learning enough to decide	Oct 4, 2012 3:34 PM
31	Mostly interested in learning more	Oct 4, 2012 3:11 PM

Page 1,	Q11. What are the major issues you face in creating and maintaining metadata?	
1	It has been low priority in FWS but increasing importance. Need to have clean workflows that work for our non GIS folks who are authoring a ton of data but we don't have good effecient workflows to optimize their work.	Dec 13, 2012 1:38 PM
2	Lack of organizational control in data mgt and creation. Many different people are involved in data collection and creation of databases	Dec 5, 2012 7:43 AM
3	Importance of metadata is not well understood by supervisors and upper management, so time to create it is not always supported.	Dec 5, 2012 7:29 AM
4	Metadata hasn't been kept and most of the information is in the heads of the employees. Creating metadata will require tracking all this information down from each individual involved.	Dec 4, 2012 12:43 PM
5	It takes a lot of time to do correctly, and this has to compete with high priority or urgent issues in a reality where staff and budgets are declining.	Dec 4, 2012 12:18 PM
6	While I have templates to enter, I'm aware there is software for checking compliance to certain standards. We tried to install one, but some of the software needed to install it, made it turn out to be unreasonable. I'd like to know more about software to catch errors and help meet particular standards.	Dec 4, 2012 11:47 AM
7	Motivating others to provide it. Need to keep it ultra-simple	Nov 14, 2012 10:16 AM
8	Cross walking required elements in 9x to 10x.	Nov 9, 2012 7:43 AM
9	No individual is tasked with maintaining the metadata.	Nov 6, 2012 12:00 PM
10	Not everyone creates metadata	Nov 6, 2012 8:44 AM
11	Too many other higher priority tasks, and issues with tools all working together nicely and meeting NPS requirements.	Nov 2, 2012 4:06 PM
12	finding a decenmt editor	Nov 1, 2012 1:17 PM
13	Finding time to write metadata is a challenge. Having a template would help.	Nov 1, 2012 1:13 PM
14	Arc metadata editor lost functionality in 10.0. Patches may have improved this but I am not very familiar with them.	Oct 31, 2012 12:41 PM
15	Just looked up yesterday how to convert from ArcGIS 9.3.1 to 10.x metadata formats, and haven't gotten to it yet. Want all metadata to be in XML format so that folks not using ESRI products can still easily view our metadata associated with shared shapefiles, etc.	Oct 31, 2012 11:59 AM
16	Disconnect between ArcCatalog 10.x and FGDC metadata add-in, one does not populate the other.	Oct 31, 2012 10:55 AM
17	Metadata creation and maintenance is for many data and process owners too cumbersome or difficult. Did not find a metadata management solution that would work for GIS and non-GIS literate staff.	Oct 31, 2012 9:29 AM
18	Easy tools, though the EPA one goes a long way by saving your information	Oct 31, 2012 8:36 AM

Page 1	Q11. What are the major issues you face in creating and maintaining metadata?	
19	How to deal with many related layers that are nested or related to the same product, like model runs for lots of species. Apparently PRBO folks created a script for outputting a batch of XML files with slight differences in them have never seen a tool that does this but we would be interested in such a thing if it exists.	Oct 30, 2012 3:08 PM
20	Time constraints	Oct 4, 2012 3:40 PM
21	The amount of data to write metadata for	Oct 4, 2012 3:37 PM
22	Changes in ArcGIS10 have made older FGDC harder to use, not sure how to move forward	Oct 4, 2012 3:28 PM

	Q14. Is there anything specific that you have difficulty with or would like to see ac workshop?	ddressed in a metadata
1	I've had problems exporting and importing metadata in Arc that I would like to solve.	Dec 21, 2012 6:53 AM
2	Very interested in seeing this move ahead. I would like some help figuring out how to go beyond pushing buttons "plug and chug" with metadata and actually develop business workflows that will encourage more metadata development and compliance. Thanks for taking this on.	Dec 13, 2012 1:38 PM
3	We are developing an online data center that contains data from different owners and under different levels of public sharing. We need metadata that is queriable and available through online tools.	Dec 11, 2012 9:58 AM
4	Automated GPS data collection and downloading with metadata templates and data dictionaries.	Dec 5, 2012 7:43 AM
5	Interest in above two descriptions depends on the specific agenda; you didn't offer a refresher course session (could use that for others who I work with, but I am rather informed and aware of activities and tools for metadata authoring). I am interested in methods of authoring or crafting metadata within a team (both nearby and dispersed situations) who were involved in data development, or those who were involved in step-wise series of data genereation activities. Are there better methods to accomplish these steps? (I think my method worked but interested if there's other ideas). Thank you for this survey and you can add me to any mailing list or group of beta testers (if needed or offered). Feel free to email me to discuss any of this; email strongm@michigan.gov = Marshall Strong, Mapping and Geotechology Program Specialist, Wildlife Division, Department of Natural Resources (DNR), State of Michigan.	Dec 5, 2012 7:29 AM
6	What metadata components are actually required by FGDC and other standards?	Dec 4, 2012 9:32 PM
7	I'm looking for info, but this conversation is already over my head.	Dec 4, 2012 2:03 PM
8	Any new (last 2-3 years) developments in metadata	Dec 4, 2012 1:05 PM
9	Bird Monitoring metadata standards.	Dec 4, 2012 12:59 PM
10	creating the habit of meta data production as part of the process rather than an afterthought.	Dec 4, 2012 12:23 PM
11	While I'd love the in-person workshop, if it's in California it will not be reasonable for me to attend most likely (or much less likely anyway!)	Dec 4, 2012 11:47 AM
12	Metadata updating mechanisms, sharing with entity such as Avian Knowledge Network, etc.	Dec 4, 2012 11:46 AM
13	really interested in an interface for BMDE data.	Dec 4, 2012 11:45 AM
14	Organization-wide strategy for managing metadata.	Nov 21, 2012 2:35 PM
15	I think it is important to illustrate how metadata are used and why is this so important.	Nov 14, 2012 10:16 AM

	g workshop?	
16	Ways to automate populating required metadata elements that are the same for all metadata records.	Nov 9, 2012 7:43 A
17	How to adequately train volunteers to enter metadata using templates. We are very restricted in time.	Nov 6, 2012 12:00 F
18	no	Nov 6, 2012 8:44 A
19	different metadata data formats, & their manipulation. i.e. importing/exporting xml, htm, .txt .csv etc etc	Nov 2, 2012 10:17
20	I find current ESRI metadata platform extremly confusing and very daunting, if this could somehow be streamlined withonly the fields absolutely necessary then I would use it more. Also, find someway to auto populate redundant fields and maybe pick from a picklist those items that are used several times.	Nov 1, 2012 1:57 P
21	Not at all happy with Arc v10 metadata- is there a better tool? I struggle with what to write in abstract and description fields.	Nov 1, 2012 1:13 P
22	The internet in the interior is slow which makes it difficult (sometime not possible) to follow online webinars. It would be nice to have material/instructions (.pdf format?) that could easily be passed to others in the office that need to create metadata.	Nov 1, 2012 10:23 A
23	Although I would be interested in an in-person workshop, we are not likely to have funds to travel (thus I rated that interest low). Having webinars would be good way to inform lots of us that want to learn more about this but can't travel. As for topics to address - how does one deal with the daunting task of dealing with the huge number of historical files that have no metadata?	Nov 1, 2012 9:43 A
24	Contrast Arcmap 10.x with FGDC addin and other open source editors	Oct 31, 2012 1:45 F
25	I took a Creating and Maintaining Metadata course on ESRI's Virtual campus 5-6 years ago. A refresher and update is probably a good thing.	Oct 31, 2012 1:01 F
26	editing metadata in Arc10 in preparation to publish the next version of a particular database. Need to maintain most of the information from the previous version while saving changes specific to next version.	Oct 31, 2012 12:41
27	Explanation of metadata in ArcGIS 10.x and why ESRI made it so that the default view shows such limited metadata. (Argh!)	Oct 31, 2012 11:59
28	How can we pre-populate ISO 19115 metadata fields in ArcCatalog 10.1? How can we make metadata generation as easy (for data owners with little GIS skills) and as clean (using templates, automatic QA/QC, etc.) as possible?	Oct 31, 2012 9:29 A
29	Strange inconsistent and unfriendly implementations in ArcGIS products	Oct 31, 2012 9:20 A
30	Need to learn the basics first	Oct 31, 2012 8:24 A
31	How to streamline the process to make it quick and complete. Much like how the EPA tool works.	Oct 31, 2012 8:09 A

	Q14. Is there anything specific that you have difficulty with or would like to see ad workshop?	dressed in a metadata
32	spatial data organization techniques and best practices	Oct 31, 2012 7:45 AM
33	The bite-sized chunks of information offered in the webinars would be easier to digest than a whole-day thing. We would like a webinar on the basics, and would invite a bunch of people to that, and another one or two about specific tools would be for a smaller group here.	Oct 30, 2012 3:08 PM
34	setting up tools and planning for metadata at the project planning level	Oct 4, 2012 3:34 PM
35	how to import older FGDC metadata into ArcGIS10.1	Oct 4, 2012 3:28 PM
36	The metadata editor in ArcCatalog 10 is difficult to work with compared to 9.3. I'd like some instruction in the latest version	Oct 4, 2012 3:11 PM

Attachment B. Metadata Survey Response Detail

			_	Metadata Survey Responses Detail - 2/27/2013 Does your organization create or intend to create formal standards.														Which tools are you interested in using in using now or in the faure?							What are the major issues you face in creating and maintaining metadata?								
RespondentID	StartDate	Name	Organization or Endustry	mail (so that we may contact you about upcoming metadata trainings)	Does your organization create of based metadata for docume	or intend to create formal standards ents and datasets you produce?		If Yes, which standard do you use	9	How is metadata cr orga Each user creates	reated and edited in your anization?	Does your organiz templ	ation use metadata ates?		What	tools were used to o	create your current metac	idata?			Which tools are you	interested in using i	in using now or in the	future?		If you are using or interested in Open Source metadata editors which one(s) in particular? (or are you mostly interested in		What are the major issues you face	n creating and maintaini		Rate your interest (1-5) in an in-person one-day metadata workshop to be held on a weekday in early 2013. (1 being little or no	Rate your interest (1-5) in a series of one hour online webinars on specific Metadata issues and tools (1 being little or no interest, 5 being very	is there anything specific that you have difficulty with or would like to see addressed in a metadata training workshop?
					YESINO	Other (please specify)	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	ISO 19139, Geographic Information - Metadata - Implementation Specification.	The North American Profile of ISO 19115:2003 (NAP).	, their own metadata /	Other (please specify)	YES/NO	Other (please specify)	ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	ArcCatalog metadat editor 9.x	a ArcCatalog metadata editor 8.x or earlier	Other commercial or open-source metadata editor	Other (please Arc specify)	editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	alog metadata Oth ditor 9.x me	her commercial Other commercial metadata editor m	ner open-source netadata editor	Other (please specify)	learning enough to decide?) - Open-Ended Response	Not sure how to go about it/don't know the tools	Never get around to it until the funding runs out later when some wants the dat	ntil Not prioritized by one organization's management	Other (please specify)	interest, 5 being very interested)	no interest, 5 being very interested)	
2402503477	12/26/2012 23:5	Megan Sayles	US Marine Corp	megan.sayles@usmc.mil	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			A designated user maintains all metadata		Yes				ArcCatalog metadat editor 9.x			Acc	rcCatalog metadata editor 10.x	ArcCatz ee	alog metadata sitor 9.x						Not motivating later when some wants the date.	ntil Not prioritized by one organization's management	my	4	2	
2399233189	12/21/2012 14:4	Alex Daniels	Playa Lakes Joint Venture	alex.daniels@ply.org	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			Each user creates their own metadata		Yes		ArcCatalog metadatz editor 10.x					Arc	cCatalog metadata	FGDC metadata editor add-in for ArcCatalog 10.x						Not sure how to go about it/don't know the tools				1	4	ve had problems exporting and importing metadata in Arc that I would like to solve.
2393084764	12/17/2012 16:1	Lauren Kahal 6	Fort Hunter Liggett - DPW Environmental	lauren.l.kahal.ctr@mail.mil	Yes					Each user creates their own metadata		No		ArcCatalog metadata editor 10.x					Arc	editor 10.x						ves it has to efficiently work	Not sure how to go about it/don't know the tools			It has been low priority in FWS but	5	5	
2388978330	12/13/2012 21:	Pat Lineback	US Fish and Wildlife Service	pat_lineback@fws.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	ISO 19139, Geographic Information - Metadata - Implementation Specification.		Each user creates their own metadata			we're starting to create templates but need more umfph to get going on it	ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x			Other commercial or open-source metadata editor	EPA Arc	ecCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x		Ott	ner open-source netadata editor	EPA 1	yes	5		Not prioritized by organization's management	increasing importance. Need to may have clean workflows that work for our non GIS folks who are authoring a ton of data but we don' have good effecient workflows to optimize their work.	5	5	Very interested in seeing this move ahead. I would like some help figuring out how tog beyond pushing buttons "plug and chug" with metadata and actually develop business workflows that will encourage more metadata development and compliance. Thanks for taking this on.
2388599903	12/13/2012 18:3	Katherine Stevenson	Public Works Department	katherine.stevenson@navy.mil		Unknown				Each user creates their own metadata		No				ArcCatalog metadat editor 9.x	a		Acc	rcCatalog metadata editor 10.x	ArcCatz ea	alog metadata ditor 9.x					Not sure how to go about it/don't know the tools		Not prioritized by organization's management	my	3	5	
2388122088	12/13/2012 14:4	Jacquelyn Hancock	Contract wildlife biologist Army Reserves	jacquelyn.j.hancock.ctr@mail.mil	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			Each user creates their own metadata		No		ArcCatalog metadatz editor 10.x						1	FGDC metadata editor add-in for ArcCatalog 10.x								Not prioritized by organization's management	my	4	5	
2387497131	12/12/2012 24	Steve Holzman	USFWS	steve_holzman@fws.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			Each user creates their own metadata		Yes		ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				Arc	aditor 10	FGDC metadata editor add-in for ArcCatalog 10.x					EPA		Not motivating later when some wants the dat	intil one a		3	3	
	12/13/2012 3.0		Urban Ecology Center, not-for-profit				The Federal Geographic Data Committee's (FGDC) Content			A designated user				ArcCatalog metadata					Arc	rcCatalog metadata	FGDC metadata							Not motivating	ntil Not prioritized by	ту		5	
2384901320	12/11/2012 19:2	Anne Reis	environmental education and community center	areis@urbanecologycenter.org	Yes		Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	4		A designated user maintains all metadata		Yes		ArcCatalog metadata editor 10.x						editor 10.x	editor add-in for ArcCatalog 10.x							later when some wants the dat	one organization's management		4	5	
2384722909	12/11/2012 17:5	Karen Hussey	Klamath Bird Observatory	kth@klamathbird.org	Yes					v	We do both depending on the situation	Yes				ArcCatalog metadat editor 9.x	a				ArcCata ea	olog metadata Oth	her commercial Otheradata editor m	ner open-source netadata editor			Not sure how to go about it/don't know the tools	Never get around to it until the funding runs out			2	4	We are developing an online data center that contains data from different owners and under different levels of public sharing. We need metadata that is queriable and available through online tools.
2375128750	12/5/2012 15:	Dennis Saville	Bureau of Land Management, Wyoming State Office	dsaville@bim.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			Co	ombination of user created and Data Steward created	Yes						c	combination of tools - Arc mostly Arc based	rcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	alog metadata Stor 9.x				Limited to federal approved sources	Not sure how to go about it/don't know the tools		Not prioritized by organization's management	Lack of organizational control in data mgt and creation. Many different people are involved in data collection and creation of databases	4	4	Automated GPS data collection and downloading with metadata templates and data dictionaries.
2375096254		Marshall Strong	State of Michigan, Department of Natural Resources, Wildlife Division	strongm@michigan.gov	Yes		The Federal Geographic Data Committee's (FCIDC) Content Standard for Digital Geographia metadata (CSDCM).	ISO 19139, Geographic Information - Metadata - Implementation Specification.	The North American Profile of ISO 19115-2003 (NAP).		hypically designated & trained person (me) works with user when appropriate, otherwise I energe the energether the products of the products of the products of the products of the products	Yes		ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	ArcCatalog metadat editor 9 x		Other commercial or dispensions of the commercial or dispension of the commercial or dispension of the commercial or dispension of t	blank Word courners with all the required blocks, Arc seems easiest for many new because the penerating metadata	ccCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x		Ott	st standard editor	Ill want to use the Word document semplate, as it's wen itself because orks for almost wenyone if team eating metadata	have seen these come and go is deceded. I was involved with the first development and testing or EGDC metabals suchaded many years ago, and therefore experienced with all this.			Not prioritized by organization's management	my beportance of metadata is not well understood by supervisors and upper management, so time to create it is not always supported.	4	4 2	interest in above two descriptions depends on the specific of
2374820444	12/5/2012 15:1	Nathaniel J. Stricker	Ohio DNR, Div. of Wildlife	Nathan.Stricker@dnr.state.oh.us		Unsure at this time						No												Un	sure what would fit our needs		Not sure how to go about it/don't know the tools	Not motivating later when some wants the date.	ntil Not prioritized by one organization's a management	my	2	5	
2374447425		Glenn Palmgren	Michigan DNR	palmgreng@michigan.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			Each user creates their own metadata		Yes	Sort of Sometimes			ArcCatalog metadat editor 9.x	a		Arc	rcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	alog metadata sitor 9.x				Had never considered anything outside ArcGIS tools before, bu I'm definitely open to new suggestions/ideas.	. N	Never get around to it Not motivating until the funding runs out wants the dat	ntil Not prioritized by one organization's management	my	4	5	What metadata components are actually required by FGDC and other standards?
2374035188	12/5/2012 5:3	Ken Ostermiller	volunteer with eBird	ostermik@gmail.com		I don't know					I don't know		I don't know						I don't know						I don't know		Not sure how to go about it/don't know the tools				1	5	
2373890904	12/4/2012 21:	Terri Martincic	Cleveland Museum of Natural History volunteer. CMNH owns and regularly surveys over 5,000 acres	Naturenut@wowway.com		maybe, for key properties. What is metadata?	t											e	Bird and excel files										Not prioritized by organization's management	my	1	3	Tim looking for info, but this conversation is already over my head.
2373761305	12/4/2012 20:5	Gareth Rowell	Heartland I&M Network, National Park Service	gareth_rowell@nps.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	ISO 19139, Geographic Information - Metadata - Implementation Specification.		A designated user maintains all metadata		Yes		ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	ArcCatalog metadat editor 9.x	a								any available	any available	Not sure how to go about it/don't know the tools				2	5	Any new (last 2-3 years) developments in metadata
2373747365	12/4/2012 20:0	Rob Sparks	Rocky Mountain Bird Observatory	rob.sparks@rmbo.org	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			A designated user maintains all metadata		Yes		ArcCatalog metadatz editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				Acc	rcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x						D.	Never get around to it until the funding runs out	Not prioritized by organization's management	my	5	5	Bird Monitoring metadata standards.
2373734018 2373729527	12/4/2012 20:5	Greg Gallaugher 50 Ken Duren	Consumg	greg gallaugher@fsa-assoc.com	Yes	Depends on project and client requirements.			The North American Profile of ISO 19115:2003 (NAP).			Yes		ArcCatalog metadata editor 10.x						rcCatalog metadata editor 10.x	FGDC metadata	alog metadata altor 9.x	Ott	ner open-source netadata editor			Not sure how to go about it/don't know the tools Not sure how to go		Not prioritized by organization's management	my	3	5	
23/3/29527	12/4/2012 20:4	Sen Duren	Ohio Division of Wildite	and revision reports state on us	140					their own metadata		NO								editor 10.x	editor add-in for ArcCatalog 10.x						about it/don't know the tools			Metadata hasn't been kept and		9	
2373709975	12/4/2012 27	Chris White	Rocky Mountain Bird Observatory	chris white@rmbo.org		We are interested in created metadata and would like to learn more.	,			Each user creates their own metadata		No							None				Ott	ner open-source netadata editor		Interested in learning enough to decide	Not sure how to go about it/don't know the tools	Not motivating later when some wants the dat	ntil one a	meat of the information is in the heads of the employees. Creating metadata will require tracking this information down from each individual involved.	5	2	
2373678276	12/4/2012 20:2	Ethan Duke	Missouri River Bird Observatory	ethan.duke@mrbo.org	No					Each user creates their own metadata		No		ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	ArcCatalog metadat editor 9.x			Acc	editor 10.x							Not sure how to go about it/don't know the tools		Not prioritized by organization's management	my	3	3	
2373662053	12/4/2012 20:	Kristin Hall	Audubon Society	khall@audubon.org		intend to create				Each user creates their own metadata		No							Arc	cCatalog metadata editor 10.x							Not sure how to go In about It/don't know the tools	Never get around to it Not motivating until the funding runs later when some out wants the dat	one		1	4	creating the habit of meta data production as part of the process rather than an afterthought.
2373651021		Karen Cleveland	Michigan Department of Natural Resources	develandik 1@michigan.gov	Yes	State government standards require metadata to be created for publicly distributed GIS data layers/shapefiles	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).			ger laye g d pro	IIS staff in the Wildlife Division have a leadership role in incerating metadate for GIS data yers (littlerino formal metadate perentated on emnylmost other data sets), individual staff who ovide data are expected to also ovide sufficient information to GIS staff for them to generate metadata		I don't know what a metadata template is						Microsoft Word					w to be di	I don't know the strengths or eaknesses of the its listed. It would beneficial to get a scription of these tools so that an informed decision could be made.	I am not familiar with any open source tools, More information would be beneficial.	Not sure how to go about itidon't know the tools	Not motivating later when some wants the dat	intili one	It takes a lot of time to do correctly and this has to compete with high priority or urgent issues in a reality where staff and budgets are declining.	5	5	
2373577614	12/4/2012 20:1	Jennifer Baldy	Kalamazoo Nature Center	jbaldy@naturecenter.org	Yes							Yes	ESRI	ArcCatalog metadatz editor 10.x		ArcCatalog metadat editor 9.x	3				FGDC metadata editor add-in for ArcCatalog 10.x						Not sure how to go about itidon't know the tools	Never get around to it Not motivating until the funding runs out wants the dat	ntil Not prioritized by organization's management	While I have templates to enter, I'm aware there is software for checking compliance to certain my standards. We tried to install one, but some of the software needed it install if made it turn out to be unreasonable. If all like to know more about software to catch error and help meet particular standards	2	5	While I'd love the in-person workshop, if it's in California it will not be reasonable for me to attend most likely (or much less likely anywayi)

							1	1												1							
2373575854	Josee Rousseau	Humboldt Bay and Klamath Bird Observatories	jsr@klamathbird.org	Yes				A designated user maintains all metadata		Yes						Simply answer meta FG data questions in ed word document Arc	DC metadata tor add-in for Catalog 10.x	Other open-sou metadata edite	Would like to learn the options	ne about Not sure how to g about tidon't kno the tools	o v				3	5	Metadata updating mechanisms, sharing with entity such as Avian Knowledge Network, etc.
2373572512	4/2012 19:40 Mark Shieldcastle	Black Swamp Bird Observatory	markshieldcastle@bsbo.org	Yes				A designated user maintains all		No										Not sure how to g about it/don't kno the tools	o v				3	5	really interested in an interface for BMDE data.
2373532858	Katle Koch	Midwest Coordinated Bird Monitoring	katie_koch@fws.gov	Yes				Each user creates												the tools			Not prioritized by my organization's		3	5	
124	4/2012 19:26	Bird Monitoring Partnership and USFWS						their own metadata											I would be interested	learning Not sure how to g	Never get around to	it Not motivating until	organization's management				
2353565051	Josh Scullen 1/2012 22:29	San Francisco Bay Bird Observatory	jscullen@sfbbo.org	No				Each user creates their own metadata		No						ArcCatalog metadata editor 10.x			what open-source re available.	arces are about it/don't kno the tools	v until the funding ru out	ns later when someone wants the data			4	4	Organization-wide strategy for managing metadata.
2341618740	Leo 4/2012 18:10	Salas	Isalas@prbo.org		Maybe our own standard, probably compliant with FGDC			Each user creates their own metadata		No					Other commercial or open-source metadata editor	Thus far, text documents		Other open-sou metadata edite	Maybe something we develop in-house		Never get around to until the funding ru out	it Not motivating until as later when someone wants the data	Not prioritized by my organization's management	Motivating others to provide it. Need to keep it ultra-simple	5	5	I think it is important to illustrate how metadata are used and why is this so important.
2333902404	Lydia Balley	Montana Fish, Wildlife & Parks	lballey@mt.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		Yes			ArcCatalog metada editor 9.x			ArcCatalog metadata editor 10.x FG	DC metadata tor add-lin for Catalog 10.x	Other open-sou metadata edit	Interested in learning the issues with Earli editors.	ore given setadata			c	ross walking required elements in 9x to 10x.	3	4	Ways to automate populating required metadata elements that are the same for all metadata records.
2332819705	9/2012 15:37 Aneth Wight	National Park Service (federal gov/t)	aneth_wight@nps.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		Yes	A	rcCatalog metadata editor 10.x FGDC meta editor 10.x	adata ArcCatalog metada editor 9.x	ta ArcCatalog metadata editor 8.x or earlier	Other commercial or open-source metalship officer	IPS Metadata Tools ArcCatalog metadata Editor editor 10.x arc	DC metadata tor add-in for Catalog 10.x		Whatever one v	Not sure how to g about iden't knot	Never get around to until the funding ru	it Not motivating until is later when someone wants the data			3	5	
2331198384	8/2012 22:46 Anna Deck	San Francisco Bay National Estuarine Research Reserve	akdeck@gmail.com	No		metadata (CSDGM).		Each user creates their own metadata		No										Not sure how to g about ti/don't kno the tools					3	5	
2330887982	Matt Ferner	SF Bay National Estuarine Research Reserve	mferner@sfsu.edu	Yes				A designated user maintains all metadata		Yes						ArcCatalog metadata editor 10.x Arc	DC metadata tor add-in for Catalog 10 v	Other open-sou metadata edite	ce interested in learning decide	nough to Not sure how to g about it/don't kno the tools					2	5	
2330197894	Allison Fuller	US Fish and Wildlife Service - Common Murre Restoration	arf17@humboldt.edu	Yes				meadata	We have not created these standards yet							ArcCatalog metadata editor 10.x FG		data Other commercial Other open-sou metadata editor metadata editor		earning Not sure how to g about it/don't kno the tools		o it ns			5	5	
2328382589	7/2012 18:16 Michelle Jensen	Project Pepperwood Preserve	mjensen@pepperwoodpreserve.org		Uncertain, need more training			di	We're in the process of etermining who should maintain our metadata.	No	А	rcCatalog metadata editor 10.x				FG	Catalog 10.x DC metadata tor add-in for Catalog 10.x	THE SAME SCALE SCA	anagn o ta	the tools	out	Not motivating until later when someone wants the data	Not prioritized by my organization's management	No individual is tasked with maintaining the metadata.	5	5	How to adequately train volunteers to enter metadata using templates. We are very restricted in time.
2327838006	5/2012 19:55 Jackie Hancock	US Army Reserve contract wildlife biologist	jacquelyn.j.hancock.ctr@mail.mil	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		No	A	rcCatalog metadata editor 10.x				FG	DC metadata for add-in for Catalog 10.x		don't know					Not everyone creates metadata	5	5	no
2322796448	Helen Thomas	National Park Service	helen_thomas@nps.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		8	Our data manager and GIS pecialist work with other staff to maintain our metadata.	Yes	А	rcCatalog metadata editor 10.x FGDC meta editor add-i	adata in for 10.x		Other commercial or open-source metadata editor	NPS-developed metadata tool			Any tool or combination of tools that works. Mostly want to learn decide.	nough to				Too many other higher priority tasks, and issues with tools all working together nicely and meeting NPS requirements.	3	4	
2322250787	2/2012 22:20 Corey Shake	U.S. Fish and Wildlife Service, Humboldt State University	corey.s.shake@gmail.com	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		Yes						not sure			not sure, whatever is the minimum necessary and easiest to use	Not sure how to g about It/don't kno the tools	o v				2	3	
2322242757	Javier del Castillo	San Francisco Bay Conservation & Development Commission	javierd@bcdc.ca.gov	No				A designated user maintains all metadata		Yes	А	rcCatalog metadata editor 10.x FGDC metadeditor add-l ArcCatalog	ArcCatalog metada in for 10.x	12		ed	DC metadata tor add-in for Catalog 10.x			Not sure how to g about it iden't kno the tools	Never get around to until the funding ru out	it Not motivating until als later when someone wants the data	Not prioritized by my organization's management		5	5	different metadata data formats, & their manipulation. i.e. importing/exporting xml, htm, 2xt .csv etc etc
2322146780	Ivette Loredo	U.S. Fish and Wildlife Service	ivette_loredo@fws.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		Yes						not sure ArcCatalog metadata ed	DC metadata tor add-in for Catalog 10.x			Not sure how to g about it/don't kno the tools	o v	Not motivating until later when someone wants the data			5	5	
2322138850	David Hoy 2/2012 17:26	USFWS	david_hoy@fws.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		No	А	rcCatalog metadata editor 10.x				ArcCatalog metadata editor 10.x Arc	DC metadata tor add-in for Catalog 10.x	Other commercial other open-sou metadata editor metadata editor	200			Not motivating until later when someone wants the data			5	5	
2321845932	chris caris 2/2012 15:13	usfws- fed govt.	christopher_caris@fws.gov	Yes				Each user creates their own metadata			I think so					I usually do not ArcCatalog metadata editor 10.x Arc	DC metadata tor add-in for Catalog 10.x		yes	Not sure how to g about it/don't kno the tools		Not motivating until later when someone wants the data			4	4	
2320756140	Christine Southwick	Puget Sound Bird Observatory	clsouthwick@q.com		Not yet, but would like to													Other open-sou metadata editr	DE BANDIT mostly interested in enough to de	Not sure how to g about it/don't kno the tools	v				2	4	
2320738857	Kendra Maty 1/2012 21:52	USFWS - NWRS	kendra_maty@tws.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		Yes	А	rcCatalog metadata editor 10.x				ArcCatalog metadata editor 10.x FG ed Arc	DC metadata for add-in for Catalog 10.x			Not sure how to g about it/don't kno the tools	o v	Not motivating until later when someone wants the data	Not prioritized by my organization's management		5	5	I find current ESRI metadata platform extremity confusing and very dourning, if this could somehow be streamlined withorely the falled abbolulely necessary then I would use a more. Also, find someway to sub popular excludant fields and maybe pick from a picklist those items that are used several times.
2320670426	Nick 1/2012 21:13	CEMAR	reseburg@cemar.org	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		A designated user maintains all metadata		No	А	rcCatalog metadata editor 10.x				FG ed Arc	DC metadata tor add-in for Catalog 10.x	Other open-sou metadata editi	tearning to de	Se .				finding a decenmt editor	5	4	
2320663856	Liz Cruz 1/2012 21:04	U.S. Fish & Wildlife Service	lz_cruz@fws.gov	Yes	low level of compliance	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata	if at all	Yes	А	rcCatalog metadata editor 10.x	ArcCatalog metada editor 9.x	ia		ArcCatalog metadata editor 10.x FG ed Arc	DC metadata tor add-in for Catalog 10.x			Not sure how to g about itidon't kno the tools	o v	Not motivating until later when someone wants the data	F	inding time to write metadata is a challenge. Having a template would help.	3	5	Not at all happy with Arc v10 metadata- is there a better tool? I struggle with what to write in abstract and description fields.
2320470191	Jennifer McBroom	Invasive Spartina Project	jtmcbroom@spartina.org		Sometimes			Each user creates their own metadata			Sometimes		ArcCatalog metada editor 9.x			ArcCatalog metadata editor 10.x	ArcCatalog metac editor 9.x	data	I would be interested more about Open S don't have any plan any time sor			Not motivating until later when someone wants the data	Not prioritized by my organization's management		2	4	
2320296831	Aimee Rockhill	USFWS	aimee_rockhili@fws.gov		We would like to.			Each user creates their own metadata		No	А	rcCatalog metadata editor 10.x				ArcCatalog metadata editor 10.x							Not prioritized by my organization's management		5	2	The internet in the interior is slow which makes it difficult (sometime not possible) to follow ordine webinars. It would be nice to have material/instructions, off format?) that could easily be passed to others in the office that need to create metadata.
2320206343	Nora Rojek 1/2012 17:35	U.S. Fish and Wildlife Service	nora_rojek@fws.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		No	А	rcCatalog metadata editor 10.x				ArcCatalog metadata editor 10 x	DC metadata for add-in for Catalog 10.x	Other open-sou metadata edit	ce Interested in learning decide	nough to Not sure how to g about it/don't kno the tools	o v	Not motivating until later when someone wants the data	Not prioritized by my organization's management		2	5	Although I would be interested in an in-person workshop, we are not likely to have funds to travel (thus I rated that interest to have the person of the per
2320169763	Andrea Wuenschel 1/2012 17:23	Puget Sound Bird Observatory	chyroptera@yahoo.com		Not sure			Each user creates their own metadata		Yes					Other commercial or open-source metadata editor	Microsoft Excel			Not sure	Not sure how to g about it/don't kno the tools	v	Not motivating until later when someone wants the data	Not prioritized by my organization's management		3	4	
2320105946	emily wittman	kino bay center for cultural & ecological studies	ecwittman@gmail.com	No				Each user creates their own metadata		No				ArcCatalog metadata editor 8.x or earlier		ArcCatalog metadata editor 10.x		Other commercial Other open-sou metadata editor metadata editor	200	Not sure how to g about it/don't kno the tools	v				5	5	
2320004425	Christine M. Stalling	US Forest Service	cstalling@fs.fed.us	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		A designated user maintains all metadata		Yes		FGDC meta editor add-l ArcCatalog	addata in for 10.x ArcCatalog metada editor 9.x		Other commercial or open-source metadata editor	Metavist ed Arc	DC metadata for add-in for Catalog 10.x			Not sure how to g about it/don't kno the tools					3	5	
2320000546	1/2012 16:11 Erin Boyle	U.S. Fish & Wildlife Service	erin_boyle@Aws.gov	Yes		The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		Each user creates their own metadata		No		FGDC meta editor add-i ArcCatalog	ndata in for 10.x			ArcCatalog metadata editor 10.x FG	DC metadata for add-in for Catalog 10.x			Not sure how to g about It/don't kno the tools	o v	Not motivating until later when someone wants the data	Not prioritized by my organization's management		5	3	
11/	1/2012 16:10																										

					The Federal Geographic Data																					
2319928156	11/1/2012 15:37	Kristine Evans USFWS	kristine_evans@fws.gov	Yes	Committee s (EDC) Content Standard for Digital Geospatial metadeta (CSDGM).	A design	gnated user ntains all da stadata da	th of the refuge-level spatial ata contains no metadata		Not sure ArcCatalog metad editor 10.x	ata				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	Other commer metadata edi	cial or	tools	Not sure how to guabout it/don't know the tools	w	Not motivating until later when someone wants the data	c prioritized by my organization's management	3	5	
2318865385	10/31/2012 22:20	Kaylene Keller USFWS	Kaylene_Keller@fws.gov	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	Each ut their ow	ser creates on metadata single	ould like to move toward a a person doing it but that is a long way off.	Yes	ArcCatalog metad editor 10.x	ista				ArcCatalog metadata editor 10.x				Not interested unless t creating metadata for d or non-spatial da	ry were abases		No	t prioritized by my organization's management	5	1	
2318821617		Nick Van Lanen Rocky Mountain B Observatory	rd nick: vanfanen@rmbo.org	Yes	The Federal Geographic Data Committee's (FGDC) Centent Standard for Digital Geospatial metadata (CSDGM).		W	Ve currently do not have metadata files	Yes	We plan to ArcCatalog metad editor 10.x	iata				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x			I am interested in learn Open Source metadat but don't currently know about them.	g about aditors Not sure how to gr about it/don't know the tools	o w	No	t prioritized by my organization's management	1	4	
2318806308	10/31/2012 21:38	Kevin Petrik Ducks Unlimited	kpetrik@ducks.org	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM)		ser creates in metadata		Yes	ArcCatalog metad editor 10.x	iata				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x		Other open-source metadata editor	need more information strengths and weakne other metadia edi	out the Not sure how to grees of about it/don't knowns the tools	o w	Not motivating until later when someone wants the data		1	5	Contrast Arcmap 10.x with FGIDC addin and other open source editors
2318733445	10/31/2012 20:53	Kristin Sesser PRBO Conservati Science	on ksesser@prbo.org		Don't know.	Each u their ow	ser creates on metadata			Don't know	А	rcCatalog metadata editor 9.x			ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	log metadata litor 9.x		would like to learn abo	: them.		Not motivating until later when someone wants the data	t prioritized by my organization's management	4	4	I took a Creating and Maintaining Metadata course on ESRI's Virtual compus 5-6 years ago. A refresher and update is probably a good thing.
2318717098	10/31/2012 20:50	Khara Strum PRBO Conservati Science	on kstrum@prbo.org		I do not know The Federal Geographic Data				1	I do not know										Not sure how to g about it/don't know the tools				3	5	
2318693561	10/31/2012 20:34	USGS Gap Analy Lisa Duarte Program - Univers of Idaho	is hy Iduarte@uidaho.edu	Yes	Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).		ser creates in metadata		Yes		FGDC metadata editor add-in for ArcCatalog 10.x					FGDC metadata editor add-in for ArcCatalog 10.x				Not sure how to gr about it/don't know the tools	w		Arc metadata editor lost functionality in 10.0. Patches ma have improved this but I am not very familiar with them.	1	5	editing metadata in Arc10 in preparation to publish the next version of a particular database. Need to maintain most of the information from the previous version while saving changes specific to next version.
2318673639	10/31/2012 20:27	Mark Dettling PRBO Conservati Science	on mdettling@prbo.org	No		Each u their ow	ser creates in metadata		No		A	cCatalog metadata editor 9.x			ArcCatalog metadata editor 10.x	ArcCatal edi	log metadata litor 9.x			Not sure how to go about it/don't know the tools	o Never get around to until the funding run out	it Not motivating until s later when someone wants the data		3	2	
2318646828	10/31/2012 20:15	Joel C Pepperwood Preserve	jcervantes@pepperwoodpreserve.org	Yes	The Federal Geographic Data Committee's (FSDC) Content Standard for Digital Geospatial metadata (CSDGM).	ISO 19139, Geographic Information - Metadata - ISO 19115-2003 (NAP). The North American Profile of ISO 19115-2003 (NAP).	ser creates in metadata		No	ArcCatalog metad editor 10.x	ista				ArcCatalog metadata editor 10.x					Not sure how to gr about it/don't know the tools	o w	Not motivating until No later when someone wants the data	organization's management	4	4	
2318605063	10/31/2012 19:56	Ingrid Hogle SF Estuary Invasi Spartina Projec	re ibhogle@spartina.org	Yes	The Federal Geographic Data Committee's (FCDC) Content Standard for Digital Geographia metadate (CSDOM).	A design and main ma	gnated user stains all stadata		Yes		А	rcCatalog metadata editor 9 x			ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				Not sure how to go about fildon't know the tools	o w	Not motivating until later when someone wants the data	Just looked up yesterday how to convent from Arcilla 9.3.1 to 10. metadata formats, and haven't gotten to it yet. Want all metadata to be in JMM. format so that folks not using ESP products can sall easily view our metadata associated with shared shapefile etc.	3	5	Explanation of metadata in ArcGIS 10 x and why ESRI made it so that the default view shows such limited metadata. (Arght)
2318459263	10/31/2012 18:51	US Forest Servic Karen Lee Rocky Mnt Region Office	t. al kareniee@fs.fed.us	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	ISO 19139, Geographic Information - Metadata - their own	ser creates in metadata		No	ArcCatalog metad editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				ArcCatalog metadata editor 10.x								Disconnect between ArcCatalog 10.x and FGDC metadata add-ir one does not populate the other	1	5	
2318265540	10/31/2012 17:30	Center for Conservation Bioli	gy ekmojica@wm.edu	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geoppatial metadata (CSDGM).	Each ut their ow	ser creates in metadata		No	ArcCatalog metad editor 10.x	iata				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x						Not motivating until later when someone wants the data		1	5	
2318257799	10/31/2012 16:57	Wolfgang Grunberg Arizona Game ar Fish Departmen	d : wgrunberg@azgfd.gov	Yes	Initially for GIS products; later for other data	ISO 19139, Geographic Information - Metadata - their own	ser creates in metadata		No meta for a	We want to use tadata templates ArcCatalog metad ArcCatalog and editor 10.x eportal Server	iata A	cCatalog metadata editor 9 x	Other commercial or open-source metadata editor	ESRI Geoportal Server	ArcCatalog metadata editor 10.x			Other open-source ESF metadata editor	Geoportal erver				Metadata creation and maintenance is for many data an process owners too cumbersom or difficult. Did not find a metada management solution that would work for GIS and non-GIS literat staff.	1	5	How can we pre-populate ISO 19115 metadata fields in ArcCatalog 10.17 How can we make metadata generation as easy (for data owners with little GIS skills) and as clean (using templates, automatic QA/DC, etc.) as possible?
2318235520	10/31/2012 17:16	Golden Gate Michael Norelli National Parks Conservancy	mnorefli@parksconservancy.org		Only for layers that are published externally, but we also need a sampler internal standard	Each ut their ow	ser creates in metadata		Yes	ArcCatalog metad editor 10.x	iata A	cCatalog metadata editor 9.x	Other commercial or open-source metadata editor	r XTools metadata viewer/editor, EPA Metadata Editor	ArcCatalog metadata editor 10.x				Learning enough to	Not sure how to graded about it/don't know the tools	o w	Not motivating until later when someone wants the data		5	5	Strange inconsistent and unfriendly implementations in ArcGIS products
2318230202	10/31/2012 16:01	Center for Conservation Bioli (College of Willia Marie Pitts and Mary and Virginia Commonweable University)	9) n mlpits@wm.edu	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	Each ut their ow	ser creates in metadata		Yes	ArcCatalog metad editor 10.x	iata					ArcCatal edi	log metadata litor 9.x			Not sure how to gr about it/don't know the tools	o w			5	3	
2318126877	10/31/2012 16:31	Paul Hardwick Sequola Kings Parks	paul_hardwick@nps.gov	Yes	The Federal Geographic Data Committee's (FGIC) Content Standard for Digital Geospatial metadata (CSDGM).	Each utheir ow	ser creates in metadata		Yes		FGDC metadata editor add-in for ArcCatalog 10.x			EPA Metadata Edito	ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x		EPA N	aadata Editor		Never get around to until the funding run out	it s	Easy tools, though the EPA one goes a long way by saving your information	2	4	
2318099317	10/31/2012 16:18	John Neill Utah Division of Wildlife Resource	s johnneil@utah.gov		Not familiar with the standards but others in organization may know.			I don't know	-	I don't know					ArcCatalog metadata editor 10.x					Not sure how to go about it/don't know the tools	o w			1	4	Need to learn the basics first
2318065294	10/31/2012 16/05	Eric Bergey US Fish and Wildl	fe eric_bergey@fws.gov	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	Each u their ow	ser creates in metadata		No	ArcCatalog metad editor 10.x	ata						Other commer metadata edit	cial EPA N	EPA Metadata Editor - tadata Editor if this is considered ope but it is free for down	source,		Not motivating until later when someone wants the data		4	3	How to streamline the process to make it quick and complete. Much like how the EPA tool works.
2318007413	10/31/2012 15:43	Marie Buell Research and Training Center	marie@thewatershedcenter.com	Yes		Each u their ow	ser creates in metadata		No		FGDC metadata editor add-in for ArcCatalog 10.x				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				Not sure how to go about it/don't know the tools	o w	No	t prioritized by my organization's management	5	5	
2318005971	10/31/2012 15:41	Linda Marguilis US Fish and Wildl Service	fo linda_margullis@fws.gov	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	Each u their ow	ser creates Mos m metadata m	st of our data does not have netadata, and we are not consistant	l do ab	but I don't know ArcCatalog metad bout the others editor 10.x	iata				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	log metadata itor 9.x	Anyth	g that is fast asy to do			No	t prioritized by my organization's management	5	5	spatial data organization techniques and best practices
2317970075	10/31/2012 15:29	Kylan Frye HawkWatch International	Mrye@hawkwatch.org	No		Each u their ow	ser creates on metadata		Yes	ArcCatalog metad editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x	log metadata Other commer metadata edil	cial Other open-source metadata editor	I'm mostly interested in enough to know what I : using for each pro	earning Not sure how to ground be about it/don't know to the tools	o w	Not motivating until later when someone wants the data		5	5	
2317907356	10/31/2012 15:02	Thomas Laxson University of Idah	o tlaxson@uidaho.edu	Yes	The Federal Geographic Data Committee's (FGICI) Content Standard for Digital Geospatial metadata (CSDGM).	Each u their ow	ser creates in metadata		No	ArcCatalog metad editor 10.x	ata				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				Not sure how to gr about it/don't know the tools	o w			1	5	
2317864978	10/31/2012 14:40	Courtney Ellerbusch Sonoma County Water Agency	celler@scwa.ca.gov	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	Each u their ox	ser creates in metadata		No	ArcCatalog metad editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x				ArcCatalog metadata editor 10.x	FGDC metadata editor add-in for ArcCatalog 10.x						Not motivating until later when someone wants the data		3	5	
2317816086 2316975124	10/31/2012 14:21 10/31/2012 0:18	Laura Quattrini Rocky Mountain B Observatory Amal Ajmi ERM	rd laura quattrini@rmbo.org amal ajmi@erm.com	No	My position does not. The Science Department may - I will forward this email to them.																			2	5	
2316880577	10/30/2012 22:46	Deanne DiPietro and PRBO Conservati Dennis Jongsomji Science	on ddipletro@prbo.org djongsomljk@gmail.com	Yes	The Federal Geographic Data Committee's (FCDC) Content Standard for Digall Geographi metactas (CSCGM)	Each un their ou	ser creates in metadata		Yes	ArcCatalog metad editor 10 x		rcCatalog metadata editor 9.x						Other open-source metadata editor	There was one from a plug-in to Arc Catalot the dand was nice, we find the name of it. 25 that works on the National Archive Mark of National Archive M	that we Not sure how to go about it/don't know mething			How to deal with many related thyses that are nested or related to the control of the control of the control of for tots of species, Apparently PRBD folks created a script for outguing a bast of XMI. files we sight differences in them. I have we would be interested in such in thing if it exists.	1 t	5	The bits-sized chursls of information offered in the webinary would be seater to digest than a white-day thing. We would propose the seater to digest than a white-day thing. We would people to that, and another once or two slots specific tools would be for a smaller group here.
2170117366	10/4/2012 23:40	Courtney Ellerbusch Sonoma Courts Cater Agency	cerergiscwa.ca.gov	Yes	always for resource data, sporadically for project data	their ow	ser creates in metadata			indard ESRI with the custom agency info, dsiclaimer ArcCatalog metad editor 10.x		nCatalog metadas. Am Catalog	rdata		ArcCatalog metadata editor 10.x				10.1		Never get around to until the funding run out	it Not motivating until later when someone wants the data		5	5	
2170106419	10/4/2012 23:37	Darcy Reinier Sonoma County PRMD	dreinier@aol.com	Yes	T		ser creates in metadata		Yes		A	editor 9.x editor 8.x or ear	fier		ArcCatalog metadata editor 10.x								Time constraints	5	5	
2170103716	10/4/2012 23:34	Michael Hansen County of Sonorr	a mhansen@sonoma-county.org	Yes	The Federal Geographic Data Committee's (FGDC) Content Standard for Digital Geospatial metadata (CSDGM).	A desig mai ma	gnated user ntains all stadata		Yes		A	cCatalog metadata editor 9.x			ArcCatalog metadata editor 10.x								The amount of data to write metadata for	3	3	

2170100776	George F 2 23:30	Rimer Sonoma Sta University	se george.rimen@gmail.com		Mostly yes for publishing research grade data	The Federal Geographic Data Committee's (FCICT) Content Standard for Digital Geospatial metadata (CSDGM).	Each user creates their own metadata		No	ArcCo	atalog metadata editor 10.x				ArcCatalog metadata editor 10.x		interested in learning enough to decide	Not sure how to go about it/don't know the tools	N la	ot motivating until ter when someone wants the data		2	3	setting up tools and planning for metadata at the project planning level
2170094059	Liz Lo 2 23:23	Marin County F Control and W Conservation D	ater llotz@marincounty.org	No	not currently formalized, but ma want to in the future	29	Each user creates their own metadata	Informal currently	Yes bar	asic, organization ArcCa and contact info	atalog metadata editor 10.x	ArcCai	atalog metadata ArcCatalog editor 9.x editor 8.x	g metadata or earlier	ArcCatalog metadata editor 10.x FGDC metadata editor add-in for ArcCatalog 10.x			Not sure how to go about it/don't know the tools		N	Not prioritized by my organization's Changes in ArcGIS10 have made older FGDC harder to use, not sure how to move forward	5	5	how to import older FGDC metadata into ArcGIS10.1
2169806744	Alex Yo	Sonoma Ecoli Center	99 alex@sonomaecologycenter.org	Yes		The Federal Casepyaphic Data Committee's (FDCI) Content Standard for Digital Conceptial metadata (CSDGM).	Each user creates their own metadata		Yes	ArcCi	iatalog metadata editor 10.x FGDC editor ArcCa	metadata add-in for stalog 10.x	atalog metadata ArcCatalog editor 9.x editor 8.x	g metadata or earlier	ArcCatalog metadata editor 10.x FGDC metadata editor add-in for ArcCatalog 10.x		Mostly interested in learning more	No ur	over get around to it Notifit the funding runs la	ot motivating until ser when someone wants the data		5	5	The metadata editor in ArcCatalog 10 is difficult to work with compared to 9.3. I'd like some instruction in the latest version

Attachment C.

Survey Results for Live Metadata Workshop Session North Bay GIS User Group February 26, 2014

Results for: Metadata Training Evaluation Record No: 1

The overall experience of the training is positive.

	1	2	3	4	5	Responses	Weighted Average
1 = Stongly Disagree, 5 = Strongly Agree	0 (0.00%)	0 (0.00%)	1 (20.00%)	2 (40.00%)	2 (40.00%)	5	4.20 / 5
							4.20 / 5

Since the workshop, my knowledge of the subject matter has improved.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	0 (0.00%)	0 (0.00%)	4 (80.00%)	1 (20.00%)	5	4.20 / 5
							4.20 / 5

The workshop has enabled me to apply the topic in my work.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	0 (0.00%)	2 (40.00%)	2 (40.00%)	1 (20.00%)	5	3.80 / 5
							3.80 / 5

I have been able to share the topic taught with colleagues.

	1	2	3	4	5	Responses	Weighted Average	
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	3 (60.00%)	1 (20.00%)	0 (0.00%)	1 (20.00%)	5	2.80 / 5	
							2.80 / 5	

1 of 4 5/21/2014 10:22 AM

The amount of information was appropriate for the time allowed.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	0 (0.00%)	0 (0.00%)	4 (80.00%)	1 (20.00%)	5	4.20 / 5
							4.20 / 5

The materials provided me useful information.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	1 (20.00%)	1 (20.00%)	2 (40.00%)	1 (20.00%)	5	3.60 / 5
							3.60 / 5

The pace and style of the workshop was effective.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	0 (0.00%)	2 (40.00%)	1 (20.00%)	2 (40.00%)	5	4.00 / 5
							4.00 / 5

The workshop content was challenging.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	1 (20.00%)	3 (60.00%)	0 (0.00%)	1 (20.00%)	5	3.20 / 5
							3.20 / 5

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Participation was encouraged.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	1 (20.00%)	3 (60.00%)	0 (0.00%)	1 (20.00%)	5	3.20 / 5
							3.20 / 5

The instructors responded to questions effectively.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	0 (0.00%)	0 (0.00%)	1 (20.00%)	4 (80.00%)	5	4.80 / 5
							4.80 / 5

The presenter(s) was knowledgeable about the subject.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	0 (0.00%)	0 (0.00%)	0 (0.00%)	5 (100.00%)	5	5.00 / 5
							5.00 / 5

The workshop met learning objectives.

	1	2	3	4	5	Responses	Weighted Average
1 = Strongly Disagree, 5 = Stongly Agree	0 (0.00%)	0 (0.00%)	2 (40.00%)	2 (40.00%)	1 (20.00%)	5	3.80 / 5
							3.80 / 5

What were the major strengths of the workshop? What was the most useful?

Examples in ArcGIS 10.2
Good overview of metadata and why it is important

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What aspects of the workshop could be improved and how?

more examples	
More practical how to demos of editing metadata	

Can the presentation, or resource slides, be improved and how?

No text answers to display.

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