PASDA Harrisburg

Wednesday, February 9, 2000

Agenda - PASDA Harrisburg -- 9 Feb 2000
2/9/00

9:00 AM **Introduction & Orientation**
Deane Williams

9:15 AM **Sign In (Categorizer)**
Please sign in with your
Name
Office and Location
Telephone
Email

9:30 AM **Background on PASDA**
Todd Bacastow

9:45 AM **Orientation: Clearinghouse as a System**

10:00 AM **Visioning (Categorizer)**
Please comment on the wording of the vision.

10:15 AM **Rank Vision Characteristics (Vote)**
Please rank order the following characteristics from highest to lowest.

10:30 AM **Critical Success Statements (Topic Commenter)**
Please comment on the critical success statements.

10:45 AM **Critical Success Statements Vote (Vote)**
Please rank order

11:00 AM **The Four Alternatives (Vote)**
Which implementation framework do you think makes the most sense for the Commonwealth?

11:15 AM **Four Alternatives (Categorizer)**
Provide at least two reasons to justify your preference. What steps might be taken to limit the costs and complexities associated with your selection? Please click on the appropriate bucket.

11:30 AM **Local Government Data -- PASDA Data Library (Categorizer)**
Is the PASDA data library complete without a comprehensive set of local government data, metadata, or links to local government web sites? Please list your thoughts.

11:45 AM **Local Government Data -- PASDA Data Holdings (Categorizer)**
Should PASDA data holdings include local government data if there are charges associated with local data? Please comment.

12:00 PM **Metadata (Topic Commenter)**
Please comment on metadata. Should metadata be centralized with the data distributed, or should both be distributed?

12:15 PM **Tutorial (Categorizer)**
Should the PASDA site provide tutorials and help? What topics should be offered to assist/educate?

12:30 PM **GIS Users Clearinghouse Awareness (Categorizer)**
What are some of the ways that PASDA can encourage GIS users to utilize services of the clearinghouse?

12:45 PM **Data Providers Data Submission (Categorizer)**
What are some of the ways that PASDA can encourage data providers to submit their data to the clearing house?

1:00 PM **Partnerships (Categorizer)**
What are some of the ways PASDA might establish partnerships with government, other universities, and the private sector as it
a. provides services to and develops relationships with data providers?
b. expands functional capabilities to the clearinghouse and the data?
c. provides services to and develops relationships with users?
d. expands marketing and outreach efforts?

1:15 PM **PASDA Luncheon Questionnaire (Survey)**
Please answer all the following questions to the best of your ability. Unless the question specifically says "CHOOSE ONLY ONE ANSWER," you may choose all, some, or none of

the selections.

1:30 PM **Critique (Survey)**

Sign In (Categorizer)

Participant Instructions

Please sign in with your
Name
Office and Location
Telephone
Email

Sign In (Categorizer)

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3. Todd Bacastow, Penn State, 814-863-0049, bacastow@gis.psu.edu
4. Ed Burke PEMA Harrisburg 717 651 2001 eburke@state.pa.us
5. Sean Gimbel, LORL PA House of Representatives, 223 South Office Building, 787-2079, sgimbel@legis.state.pa.us
6. Ty Richins, 310 Finance Building-Harrisburg, 717-705-6949, drichins@state.pa.us
7. Martin G. Popola PennDOT Cartography/GIS 787-3318 pamap@paonline.com
8. Peter van Rossum, Pa. Historical & Museum Comm., Box 106 State Museum Bldg, Harrisburg, 717-705-0544, pvanrossum@phmc.state.pa.us
9. Andrew C. Jones, IIMS Program Controls Supervisor, Pennsylvania State Police, 2629 Market Pl. HBG, PA 17110, 717-657-4178, ajones@psp.state.pa.us
10. Frank Hoover PA Game Commission 717-783-6778 fahoover @pgc.state.pa.us
11. Thomas G. Whitfield, DCNR - Bur of Topographic and Geologic Survey, P O Box 8453 Harrisburg PA, 717 783 7269, twhitfield@dcnr.state.pa.us
12. Kenwood E. Giffhorn 400 Market St. Office of Mgmt and Tech Svc, DEP, Harrisburg, PA 717-787-7116, giffhorn.kenwood@dep.state.pa.us
13. Jim Ruff, D.C.N.R. Forestry, RCSOB Harrisburg, 717-787-3444, JRuff@dcnr.state.pa.us
14. Matthew Lovallo, PGC- Spring Mills, 814-422-8525, mjlovallo@earthlink.net
15. kerry wilson Pa Dept.of community &economic development, forumbldg717-7207445 ,kerry_wilson@dced.state.pa.us
16. Damon P. Anderson, DCNR Bureau of Information Technology, 717-772-0281, danderson@dcnr.state.pa.us
17. Tracey Walrath, PASDA, (101 Land and Water Bldg, Penn State University, 814)865-9753, txw159@psu.edu
18. Ryan Baxter, PASDA, 141 Land & Water Bldg., Penn State Univ., University Park, 814-865-8791, reb186@psu.edu
19. Martin Gutowski, Penn State, Deasy GeoGraphics, 302 Walker, University Park, PA, 16802, 814.863.4562, gutowski@essc.psu.edu
20. Neil Kinsey, Governor's Center for Local Govt. Services, 325 Forum Building, Hbg. 17120, 717-720-7371, neil_kinsey@dced.state.pa.us
21. Todd R. Stell, DCNR, SE Regional Office, 215-569-1183, tstell@dcnr.state.pa.us

Visioning (Categorizer)

Participant Instructions

Please comment on the wording of the vision.

Visioning (Categorizer)

1. Should state this is geospatial data?
2. One system may not be able to serve the needs of such a universal "enterprise".
3. Use "collaboration" instead of "working closely."
4. Change "working closely" to partnering
5. Make explicit that is for Pennsylvania data
6. Consider replacing "enterprise-wide" with "web-enabled";even non-techncial users will understand the open and accessable nature of PASDA's data and services offerings
7. I believe the inclusion of the word "services" in the vision is very important.
8. * Delete "an enterprise-wide" and state The Pennsylvania Geospatial Data Clearinghouse is an offering of services and data, ...
9. How about "web-based public offering of services and data" rather than "enterprise-wide offering ..."
10. reverse 'data' and 'services' - which is your primary objective, to provide more data than services or more services than data.
11. phrase "building on a successful PASDA framework" is not clear to someone who

doesn't understand what the prior PASDA framework was
12. Clearinghouse is a one stop shopping location for commonwealth data.
13. The word services could possibly target what kind of services (and data), ie user friendly services, technical and non-technical services, etc
14. The vision should in some form state the purpose of PASDA
15. remove enterprise-wide and use statewide, use partners or partnership instead of working closely
16. "Government and other stakeholders" puts perhaps too much emphasis on government. Don't wnat to offend local and public users.
17. *clarify "succesfull PASDA framework "
18. Include comment that data is to be made freely available to any interested users.
19. the PGDC is an enterprise-wide offering of services and data building on a successful pasda framework and partnering with govt and other shareholders
20. Don't limit the vision to providing simply point, line, and polygon data - the clearinghouse can also serve up attribute data too.
21. Maybe an inclusion of purpose of the project - avoid data duplication, cost savings, etc.
22. PASDA serving as a catalyst to encourage stakeholder partnering.
23. is it important to say "building on a successful Pasda framework as a part of the vision statement?
24. "web-based" implies the data being in relational databases rather than downloadable files--that issue hasn't been decided
25. Not sure all readers will understand what encompasses an "enterprise."
26. give examples of "stakeholders"
27. "working with state and governments, private industry, students, and citizens of the Commonwealth"
28. The role of government should be minimized.
29. replace enterprise with web based.
30. "state and local governments" i missed local
31. Is it necessary to somehow describe who the "other stakeholders" are?
32. state and local governments
33. . . .PASDA framework and working colaboratively with federal, state, regional and local governments, the private sector and acade.mia
34. Should define who the "other stakeholders" are.

Rank Vision Characteristics (Vote)

Participant Instructions

Please rank order the following characteristics from highest to lowest.

Voting Results

Rank Order (Allow bypass)
Number of ballot items: 7
Total number of voters (N): 17

Rank Sum

96 1. Data accessibility
78 2. Quality standard metadata
73 3. Ease of use
71 4. Responsiveness to users
62 5. Responsiveness to data partners
59 6. Enhanced query and viewing functions and options
37 7. Effective online assistance and education

Number of Votes in Each Rating

	1	2	3	4	5	6	7	Mean	STD	n		
1. Data accessibility	6	5	3	1	1	1	0	2.35	1.50	17		
2. Quality standard metadata	2	5	2	3	3	1	1	3.41	1.77	17		
3. Ease of use	4	1	4	1	2	4	1	3.71	2.08	17		
4. Responsiveness to users	3	2	2	3	4	1	2	3.82	1.98	17		
5. Responsiveness to data partners	2	2	2	3	1	4	3	4.35	2.09	17		
6. Enhanced query and viewing functions and options	0	2	2	3	6	3	1	4.53	1.42	17		
7. Effective online assistance and education	0	0	2	3	0	3	9	5.82	1.55	17		

Group consensus (1.00 = most consensus):
0.25

Ballot Items in Original Order

1. **Ease of use**
2. **Data accessibility**
3. **Quality standard metadata**
4. **Enhanced query and viewing functions and options**
5. **Effective online assistance and education**
6. **Responsiveness to data partners**
7. **Responsiveness to users**

Critical Success Statements (Topic Commenter)

Participant Instructions

Please comment on the critical success statements.

1. The council is successfully guiding development, standardization and expansion of services without being overly restrictive.

Appropriate, but I'm not sure what "overly restrictive" means in this context.
OK as is
The clearinghouse derives its resources from the council and the Commonwealth. It will be successful based on satisfying council and Commonwealth requirements.
Development and standardization of what services?
ok
Some direction and leadership is essential to focus progress/success.
This approach should help the contiued success of the council
Who will watch and determine if the council was successful and give the appropriate feedback?
Not sure how well "guiding standardization" and "not being overly restrictive" fit together. At present, these two things seem almost mutually exclusive.
Either you have standardization or you don't -- there's no halfway point.
may want to add outreach, avoid overly restrictive wording
Standardization and data sharing is extremely important, being less restrictive facilitates data sharing. Very important
Standardization by itself is vague--there are several different ways to "standardize" in this arena.
Council should support a basline standard and a range of usable data sets.

2. High schools across Pennsylvania are active players using live data for classes.

what is"live" data?
I believe this is a good test of success, these are, after all the users of the future.
I question why high schools as a user group should be singled out.
Government agenices are actively using data for projects providing public service
Develop similar statements (or sub-statements to this one) for each major category of user.
Good idea but not sure there are many schools prepared to deal with this type of data. Also large files could be a hindrance
How about "real world examples" rather than live data
ok
Providing economic benefit to business user is more important to continue funding!
This is the single widest audience that can be reached by a clearinghouse. Every kid is in high school,many looking for careers in the future, its the best place to spark and keep interest in GIS. Plus, they can take the things they learned home to mom dad and everyone else. Outreach at its best
The ultimate sucess of GIS lies in the next generation.
add local governments,state agencies, universities,public libraries
It is important to reach this audieence if PA is to be competitve in the private sector during the next century.
the R.J Reynolds factor: get them wile they're young
I would expand this to include elementary schools(some initial training and projects have been successfully completed) and other types of training institutions.
I'm not sure how important the high school students are as a group. Do they really need current, accurate data provided by the clearinghouse in order to learn how to use GIS?

3. Users have access to data, marked with reliability and accuracy information.

This is probably the one critical factor; the availability of reliable data that can be verified upfront prior to use.
important because the data is of little value w/o being accompanied by reliability and accuraccy

information
who does the checking of the accuracy and reliability
This is key.
This definitely should be the case
Not all datasets will be of the same quality--for various reasons and some of them deliberate. It is important that the potential user knows what they are getting and have information to let them decide how useful it will be for them.
Essential.
The differences in the quality of data should be based on the use of the data. Regional planning requirements are much different than site specific requirements. Data quality can be varied, yet still useful
Does PASDA respond to reports of inaccuracy by users?
Important in that the data will not be used if it is suspect.
This is an absolute. Your project is only as good as your base data. Computers have the amazing ability to make bad data look good. Garbage in Gospel out.
quality of std data is critical
critically important
This is a very important factor, if it can be "pulled off". The reliability and accuracy factors go back to the creators of the data and the metadata that is provided.
Even if the users have simple access to the data, who will insure that the information provided is reliable and accurate?

4. Users have easy access to tutorials that explain and guide the use of data and analysis tools.

These would be on-line?
The availablity of tutorials is important but the factor that should be addressed is users confidence in their ability to use the clearinghouse and confidence is the data that they download.
yes
ok
It's more important that they understand how to use the clearinghouse services. Extensive GIS tutorials should be provided in a different venue.
Be careful. This can overwhelm your resources.
Perhaps this would help, but the primary users are entities that are aware of the data sources and analysis tools.
easy access to tutorial, guide to use of data is critical
basic tutorials only
Agree
Who will create these and when can the be online and operational?

5. Users have access to an extensive library of analytical tools that increase the utility of the data provided.

Too many tools takes all the responsibility off the end-user. The clearinghouse should assist them as far as accessing the data, what the user does with the data after that should be their own responsibility.
This seems to be shifting PASDA's focus from being a Data Clearinghouse to being an information clearinghouse.
These tools will also need to be very user friendly!
As a secondary success factor, to be sure, enhanced tools add to the value of services and data provided, but only to be met after the main success factors are achieved
user should have tools
I agree with comment #1 - tools are the responsibility of the user .
While this makes the data more usefull to the non-profesional, It should be secondary to the ask of preventing duplication in data creation.
Depends on the tools. Your GIS software should have all the tools you need, again, this can overwhelm your resources.
I do not see this as a primary purpose of the clearinghouse it should be considered as nice to provide time and funds available.
tools need to be easy to use, KISS
I think users need to do much of this on their own without the clearinghouse doing it for them.

6. Users can tailor the data, analysis, and reports to formats desired.

Let users worry about data formats -- if they want or need the data they will use it if it is financially sound
To me this is more an end-user issue. PASDA should make the data available, it's then up to the user to do something useful with it. I don't think PASDA should spend time holding the hand of anyone with a notion they want to make a neat map.

Users must be able to adjust the data to meet thier needs.
THis is the bigest in making the data accessable with out placing unneeded constraints on the data providers.
Agree, but again not all users have the expertise or tools to accomplish this easily
If they cannot, they may go elsewhere or not use the service at all
Fundamental to data access issues
ok
Flexibility is essential. Open system approach is assumed.
Keep it simple and limited!!! Users will ask for the world.
There is so much data available and so little time to work with it, it is critical to be able to tailor the data,etc., as needed
If this contributes to data sharing it is good but should not necessarily be a driving forces in clearinghouse development.
What format will have to be used to allow this and what will this do to PASDA resources?
Is this success factor worth it for what it could cost?

7. Other success factors

A growing list of new data sets.
Provides a measuarable cost savings to government and quasi-govenmental agencies.
Active agency participation in the council is an essential indicator
The Clearinghouse shows a monitary savings to the Commonwealth
Making it worthwhile for an individual consultant to make the data available to the public. How to do this is a big ?
getting local governments involved in process, especially at the county level
The clearinghouse contribution to the success and reduction of duplicated (monetary metrics) efforts on major commonwealth initiatives, programs, and projects should be noted.

8. A growing list of new data sets.

Add the words "and users"
Providers too.
Rivers Conservation Plans
Much like a library the collection (data sets) should be continually expanding

9. Provides a measuarable cost savings to government and quasi-govenmental agencies.

This was the basis for the establishment of PAGIC and was the one measure associated with the PRIME initiative. Bottomline does it save the taxpayers money, it was never invisioned as a feel good project.
Probably the prime means for justifying the service and lobbying state for an expanded role. Any way of trying to get user feedback to like Sargent's example to quantify this.
Why limit the cost savings to governmental users? Wouldn't we want all users to save? If business saves, might they also be willing to help finance the system, leadeing to a public-private partnership?
How is this measured.
Also for businesses
why businesses? are they contributing?
Saving taxpayer bucks is a definite good politically correct buzz word. Politicians like that.
This very impotant to encourAGING LOCAL OFFICIALS TO USE GIS.
THis is also a god process

10. Active agency participation in the council is an essential indicator

Originially invisioned as mandatory participation of agencies under the Governor's jurisdiction, however, for various reasons became voluntary under a gentlemen's agreement. This will continually test the viability and future of the council and the use of the clearinghouse.
Good one. It seems to me that the state and local governments will have the most data to serve up. They may also be the biggest users too. Whether they are coerced or cooperate, these folks need to participate.
Agreed, as entities become active users, they may also become active providers
Absolutely, but some need to be "pushed" to provide the data
Very important success factor. How can you insure that the agencies will participate?
the time is here and now lets keep our feet at the fire

11. The Clearinghouse shows a monetary savings to the Commonwealth

At least pay most of it's way.
hopefully by preventing redundancy in the data base
Sure, but another measure could be how much it helps private companies and non-profits in benefitting PA.
Solicit commentaries, point out that the more success stories PASDA can demonstrate the easier

it will be to justify it's existance and extend it's role in the future. Non-governmental savings important too.
Good factor. How can it be enforced?
how measured?
A monetary savings to TAXPAYERS
If this is of value to the private sector, they might be willing to become full partners. Imagine what Bill Gates could do in developing this product.

12. getting local governments involved in process, especially at the county level

They need to have an active role and should see a cost saving.
agree I don't think they should be excluded
they have the detailed data!
Yes. They have a lot to offer.
Non-profit organizations too
Agree
big differences in different regions of the state regarding sophistication
Local government is one of the keys -- both as provider and user
Strongly Agree. Be nice to have them included in the process.

Critical Success Statements Vote (Vote)

Participant Instructions

Please rank order

Voting Results

Rank Order (Allow bypass)
Number of ballot items: 6
Total number of voters (N): 0

Rank Sum

- 1. The council is successfully guiding development, standardization and expansion of services without being overly restrictive.
- 2. High schools across Pennsylvania are active players using live data for classes.
- 3. Users have access to data, marked with reliability and accuracy information.
- 4. Users have easy access to tutorials that explain and guide the use of data and analysis tools.
- 5. Users have access to an extensive library of analytical tools that increase the utility of the data provided.
- 6. Users can tailor the data, analysis, and reports to formats desired.

Number of Votes in Each Rating

	1	2	3	4	5	6	Mean	STD	n	
1. The council is successfully guiding development, standardiza	0	0	0	0	0	0	-	-	0	
2. High schools across Pennsylvania are active players using li	0	0	0	0	0	0	-	-	0	
3. Users have access to data, marked with reliability and accur	0	0	0	0	0	0	-	-	0	
4. Users have easy access to tutorials that explain and guide t	0	0	0	0	0	0	-	-	0	
5. Users have access to an extensive library of analytical tool	0	0	0	0	0	0	-	-	0	
6. Users can tailor the data, analysis, and reports to formats	0	0	0	0	0	0	-	-	0	

Group consensus (1.00 = most consensus):
0.00

Ballot Items in Original Order

1. The council is successfully guiding development, standardization and expansion of services without being overly restrictive.

2. High schools across Pennsylvania are active players using live data for classes.

3. Users have access to data, marked with reliability and accuracy information.

4. Users have easy access to tutorials that explain and guide the use of data and analysis tools.

5. Users have access to an extensive library of analytical tools that increase the utility of the data provided.

6. Users can tailor the data, analysis, and reports to formats desired.

The Four Alternatives (Vote)

Participant Instructions

Which implementation framework do you think makes the most sense for the Commonwealth?

Voting Results

Rank Order (Allow bypass)
Number of ballot items: 5
Total number of voters (N): 17

Rank Sum

74 1. Alternative Two
65 2. Alternative One
54 3. Current Environment
39 4. Alternative Three
23 5. Alternative Four

Number of Votes in Each Rating

	1	2	3	4	5	Mean	STD	n
1. Alternative Two	10	3	4	0	0	1.65	0.86	17
2. Alternative One	5	8	1	2	1	2.18	1.19	17
3. Current Environment	1	5	9	0	2	2.82	1.01	17
4. Alternative Three	1	1	2	11	2	3.71	0.99	17
5. Alternative Four	0	0	1	4	12	4.65	0.61	17

Group consensus (1.00 = most consensus):
0.58

Ballot Items in Original Order

1. Alternative One

seems to be the least expensive/frustra
Should serve data in provider format + single standard.

2. Alternative Two

3. Alternative Three

4. Alternative Four

5. Current Environment

Four Alternatives (Categorizer)

Participant Instructions

Provide at least two reasons to justify your preference. What steps might be taken to limit the costs and complexities associated with your selection? Please click on the appropriate bucket.

Alternative One

1. original data format should be provided as well
2. Reasonable compromise, given the current state of technology
3. cost savings while increasing the availability and quantity of data
4. By reducing data provider overhead will do most to encourage data submissions which in my view is the most critical function of a clearinghouse.
5. seems to be the least expensive/frustrating of all four ;
6. Already occurring for high priority/use data
7. no cost to providers creates more likely data inclusion
8. May still want to allow user to access the data in it's native format & projection (i.e. provide two copies, the original and the modified)
9. If data is not at least moderately easy to use, it won't be. Then why do all this?
10. users use data if it is economically feasaible
11. Agree with #8 -- offer data either in original or new format
12. Maybe try to provide links to companies that would be willing to data cleanup of alternative two for a fee. If the user doesn't want to get their hands dirty it will cost them but they've got the option.
13. Alt #1 would be my second choice and may be the most reasonable cost/benefit solution. Onus on the user, because it's free. Easy for the provider, so they will particapate.
14. Should keep the system as dynamic as possible
15. cost savings better than #2
16. single output format limits user's capability to use the data
17. what are you going to use as a standard ????????????

18. Single format & projection & reformatting by PASDA should insure more personalised data
19. data will be used if it is economically feasible to use it
20. no standard needed, or the standard is developed by the most used data. If you want the free data, you use the format that is available

Alternative Two

1. Allow technology to perform the complex tasks
This is what the user expects. Costs can be limited by focusing on a core data set and serve the remainder of available data without comment.
2. It is more efficient to do the conversion work in one place than in many.
3. Best of both worlds. Providers aren't burdened with responsibilities they may not be able to provide.
4. Ensure clearinghouse use
5. This was my choice because we are both a provider & user and do not have the time or resources to take on any additional duties/responsibilities.
6. We dont have the money or people to create enough data for our needs much less producing it for the rest of the world.
7. In general, this seems to be the direction GIS is heading.
8. This seems to be the easiest option(with technology in place) to implement that has the most minimal impact to the data provider and the data user. PASDA has a bunch of work to do, but I believe that they could hire staff to assist.
9. This will also give the data user what they want in a form they can use. They may not be able to handle a 'standard' data format of projection.
10. simple in, simple out ...gotta like that. concern:high cost
11. this option is the future of GIS data, but it may be difficult to implement now. However, this should only be performed on a core subset of the data layers. For other, less essential data sets, we could just serve them as we do now.
12. Too much effort spent on data that is not a priority based on usage
13. Eliminate the need for common extents to provide for unique data sets and those which may be only partially complete
14. #2 is the best choice, if the benefits are worth the costs. An ideal outcome is simple for data providers and users. In a budget squeeze, I believe a comprimise is to put the onus on the users, because the service is free. Keep it simple for the providers, or they may not participate at all.
15. more funding for PASDA
16. This alternative needs to be limited in scope. I would never expect PASDA to play around with every data set submitted.
17. Would be more likely to go to PASDA to obtain data that others are providing, if in fact it is easily obtained and ready to use without massive massaging!!!
18. Once the data is in the server its the server's format it would a very easy step to on-line interactive mapping for those who don't have GIS capabilities
19. I like the ease of use for\of both provider and user
20. The user will be able to quickly see a benefit of the use of use of a Clearinghouse.
21. If this option is not feasible, we should go to something like option 1 where we offer "flat files" but convert them on the server---again, this should be for the core data layers and not for all the data sets.
22. clearinghouse handles complex job of re-formatting data
23. Placing as little onus on the provider encourages more people to share data thus benifitting everyone by providing a larger resource.
24. Wouldn't users be willing to help pay for these additional costs if they still realize an ultimate savings?
25. Would be nice to have some thumbnails of what data will look like prior to downloading, also file sizes should be evident for all data residing on PASDA on the dowload screen and in the metadata.
26. Although it would be nearly impossible to set one data standard that would suit all GIS users' needs, this option may do the most to limit the troubles associated with setting an official data standard.
27. Best choice if we incorporate a user fee.

Alternative Three

1. Simple for user & moderate cost
2. Does not encourage cooperation/participation by new data providers due to costs
3. to costly for provider -- data set reduced

4. Simple for user & Moderate cost
5. Some providers may not have the capability of certain formats
6. less data for use by users

Alternative Four

1. Too restrictive on both ends
2. doesn't solve problems with compatibility because selected standard may not be used universally
3. low cost & moderate complexity for user
4. low cost to whom? only to PASDA
5. not good

Current Environment

1. cost less time and $ for provider and PASDA
2. does not create de facto standards
3. this system runs well for me, but there must be some measures taken to increase the amount of data provided in the future.
4. It works.
5. It keeps the data integrity intact as it is in the format provided by the creator
6. the biggets problem I have is getting organizations to freely give up data for inclusion on the site

Local Government Data -- PASDA Data Library (Categorizer)

Participant Instructions

Is the PASDA data library complete without a comprehensive set of local government data, metadata, or links to local government web sites? Please list your thoughts.

Local Government Data -- PASDA Data Library (Categorizer)

1. is a library ever complete?
2. Highly accurate local data is extremely desirable. PASDA can exist without it but it would be better with it.
3. Comprehensive coverage of the entire state would be the ideal, realizing that will never happen we should take what we can get from local government be it data sets, metadata, or both
4. it could be. It all depends on the mission and purpose of the PASDA site.
5. from an agency specific point of view , tax parcels are important to us
6. Our current needs do not require more accurate local gov. data, but that could change tomorrow
7. Wouldn't it be nice if....all of the data in the state was available at a high detail and quality.
8. Part of this answer depends again on who the ultimate users are. I will use PASDA only if you have the data I need. Who are the users and do they need local govt. data?
9. this is a goal rather than an absolute. I believe the data sets are important and PASDA should make them available whenever possible.
10. Possible carrot to local govts. supplying accurate local data is it can be used as basemap by state agencies to make their data more accurate, then local gov. could actually use the state agency data.
11. the state base level and USGS base level is 1:24K. Information at a higher level of accuracy is usually always better
12. The higher the resolution/accuracy the better the data. If "we" can get better data, then by all means we should..... and it should be among the highest of priorities.
13. We can't force local governments to participate, but it would be very nice to have their data at the clearinghouse. I know of instances where I could have used parcel data.
14. While it's not crucial to PASDA operations, if the local governments are willing to provide the data without charge, they should be able to. This will help attract people to the site and make them aware of the other data available.
15. No. local data is as necessary as state wide data. The idea of linking to local or even agency data for some frequently updated data sets should be further explored.
16. PASDA can encourage participation by local government by showcasing involvement by other municipalities
17. consultants usually deal with site specific issues. Data at a street and parcel level would be very useful to them
18. Sometimes local government is the only source of important data sets.
19. As an alternative to local governments providing the data, provide a link to them.
20. most of the entities I deal with are municipalities. They are all very protective of their

data.

21. Links to local government web sites should probably come from the Commonwealth website or the PAGIC website

Local Government Data -- PASDA Data Holdings (Categorizer)

Participant Instructions

Should PASDA data holdings include local government data if there are charges associated with local data? Please comment.

Local Government Data -- PASDA Data Holdings (Categorizer)

1. No direct payment by PASDA for data above minimal cost.

2. Only the metadata and possibly a link to the local government site.

3. Meta data should advertise the availibility for sale. PASDA should not become a data broker is sale of local data is required.

4. If you have to pay for it, I wouldn't bother with it.

5. List all data available, and provide a link for thos ethat want to buy the data

6. depends on the charges, but it still should be a priority.

7. I would be willing to barter, but I would not pay. Once you pay one entity, you will have to pay all the rest, plus all those before who gave freely will feel cheated.

8. PASDA should not pay for the data. PASDA should publish the metadata and users would make thier own deal.

9. Yes, absolutely...on a consignment basis. If no one wants to purchase the data it will become apparent that it is not as important as they think. And when they decide to allow access to the data for free it will already be available.

10. Yes, a long as the file card says there is a charge. This could be used as a bargaining chip if other local governments offer the same data for free.

11. PASDA should never pay for local data (barter maybe) - This would set a poor precedence.

12. If metadata of fee data is included, price must also be included.

13. To the extent it wouldn't encourage other folks to charge for their data, I fail to see why you can't have an index card saying so and so has this data for x dollars.

14. there is always someone looking for more detailed data

15. I would be willing to pay for previously developed data if the cost of generating is greater. I would go direct to the local government and not use PASDA as a middleman.

16. It would be nice if a study was published showing the cost of selling data compared to providing it for free.

17. In metadata of fee data, include list of prices for similar data sets in other counties (try to shame the pricey onest to drop their price)

Metadata (Topic Commenter)

Participant Instructions

Please comment on metadata. Should metadata be centralized with the data distributed, or should both be distributed?

1. Metadata should be centralized, but the data should be distributed.

Do whatever gets the most metadata available. If someone insists on maintaining their own, more power to them.

If the goal is provider-friendly, the hybrid model is best.

Only if the metadata centrally stored is kept up to date.

Under the current working relationships metadata and data should continue to be centralized.

Several models are available for decentralizing data at the state level, i.e., JNET. The issue is how do we handle all the participants outside of state government.

Centralized metadata is nice because it lends some stability and confidence to the data, which is comforting to me since there aren't too many GIS standards going on in PAn

Yes, centralized metadata seems more efficient to maintain, search and distribute. At least those data sets which are in a constant state of update should be distributed.

Whichever works the best for the majority, probably a mix of the 3.

If I can get my hands on it easily in a centralized location, I don't really need a copy of this information

will there be a problem with the quality of metadata if we decentralize this function?

2. Both data and metadata should be distributed.

At some time in the future as the cost of technology allows.

This would offer the most up to data data, but it is harder to police the metadata compliance when it is not centralized. It may also be slower in searching.

Only if all of the cooperators have adequate communications facilities and the capability of

maintaining both to an acceptable standard.
Following the concept of write once, read many and keep all information in the best place, this is the way to go.

3. Both data and metadata should be centralized

Probably the ideal but if don't exclude data just because provider won't submit to this model.
This would, in some cases, require excessive effort to maintain updates and transfer data.
This would offer the most control of the data nad metadata, but would have to keep up wit

Tutorial (Categorizer)

Participant Instructions

Should the PASDA site provide tutorials and help? What topics should be offered to assist/educate?

Topics to Assist & Educate Data Providers (Categorizer)

1. I don't think it is PASDAs job to educate the user or provider of data. I see them as a clearinghouse for data.
2. Yes. A basic kick start and a pointer to where you need to go is essential.
3. Only at the basic level. Tutorials should provide sufficient information to accomplish the task. On line help should address th
4. Tutorials should only address site-related issues (e.g., downloads, metadata, updates, etc...) they should not address vendor-specific topics.
5. YES - Would be nice to have some guidelines on what steps are necessary to convert from the major CADD formats and projections into other Major Formats /Projections.
6. Yes, provide tutorials & help. Where possible, provide links to other online sites with the info. For PASDA-unique issues, develop and provide the necessary tools.
7. This all depends. I need more of a feel for the nature and volume of questions posed to PASDA to give a real answer, but it seems that they are on target as it stands today.
8. help should be directed at the use of the PASDA site, and with issues related to the source of data
9. Would concentrate on FAQ to determine most common difficulties and allow for self help.
10. very basic ideas as to the kind of data available. If users need to know more link them to a user group/newsgroup where questions are answered by individuals who may have a common interest/level of knowledge (ie begginers group, advanced group, transportation group, military group).
11. I think PASDA should offer the basics of what data is available, how do you search the site, how do you create metadata but should not have to get into the nitty gritty of here's how you set up an Arcview project, add layers, convert a DEM, etc. I think for anything related to how do I do X with the data should be referred to their software vendor or maybe a set of useful hyperlinks. I'd like to first see PASDA concentrate on being a data clearinghouse, not spend too much valuable resources on educating users on the basics of GIS programs.
12. Yes on a very limited basis, ow to download data, a breif discussion on map overlay procedures and basic definitions such as projection, datum, and metadata. For the provider, how to submit data, where to get help creating metadata, and a quality control checklist.
13. Minimal how to's. Point users in the direction of on-line tutorials offered by GIS software providers first so they get the feel of the product, then offer direction from that point. ESRI, for example offers multiple tutorial sessions, some free, some not. PASDA should offer specific advice on specific problems, like removing black lines from the cropped DRGs.
14. We have not addressed who the end users are to be. If we answered that question, this question would be self-evident.
15. tutorials should cover only a basic level such as download and updates. as long as you maintain the FAQ and the help button , that should be sufficient
16. Yes, I think some tutorials/help should be offered. While I understand that we can't lead them by the hand in every aspect, we do need to provide some customer service. FAQ's are good for some things, but inadequate for others. While access to the data is most important, the clearinghouse is associated with state government. Consequently, we need to provide some help---either via phone or online.
17. Some help should be provided. Anything too lengthy would not be good. Use the KISS method.
18. Some type of warning lable is essential. User should be warned that the file is huge

and should not be downloaded unless on a ti. Could also comment on level of processing power/ work station power/and user level of training is required.
19. GIS programs will evolve and change over time. Does PASDA want to be responsible for training on all existing and future programs?

GIS Users Clearinghouse Awareness (Categorizer)

Participant Instructions

What are some of the ways that PASDA can encourage GIS users to utilize services of the clearinghouse? What are some other ways to make public users aware of PASDA?

GIS Users Clearinghouse Awareness (Categorizer)

1. Provide messages to internet GIS related news groups
2. Participate in association meetings, trade shows, etc.
3. Distribute a newsletter to be distributed to State Agencies
4. Post links on other mapping/GIS sites.
5. Advertise through partnerships with major vendors
6. offer links to popular web-sites
7. Put PASDA on the Commonwealth INtranet
8. Try to get other geographic data web sites to link to site
9. public outreach! I recommend to many of my contacts to use the data at the site, but they have not even heard of PASDA
10. Setup regional PASDA user groups to educate users
11. Attens trade shows and conventions -- set up demonstration rooms like this one.
12. Run a TV commercial during the next SUPER BOWL!!!
13. Send out messages to local gov. GIS organizations
14. Interface with local government associations, and other groups
15. pasda newsletter; links ; mailing to local govt, ; advertise
16. Educate university geography depts. about site's existance
17. add PASDA and lots of key words to many search engines
18. Showcase projects that have been completed using data retrieved from PASDA
19. Establish a PAGIC web site and discuss advantages of PASDA (this should be operational in the April/May timeframe.
20. internet links. emails. newsletters. dog and pony shows at conferences or government agency meetings.
21. If the goal is to have as many people using this as possible, then there has to be a greater knowledge of the existance of PASDA. How this can be accomplished? Word of mouth, some form of advertising, links from other site.
22. More publicity using PSA's to highlight services & benefits of using PSDA
23. periodic news releases
24. newsleter to all the states school systems
25. goodyear blimp
26. PAGIC needs to present capability to identified users. outreach/education
27. Provide link on PA state home page plus home pages for all stakholders
28. Encourage people who use PASDA data for meetings/presentations to credit PASDA as provider of data
29. Put a link on the commonwealth home page

Data Providers Data Submission (Categorizer)

Participant Instructions

What are some of the ways that PASDA can encourage data providers to submit their data to the clearing house?

Data Providers Data Submission (Categorizer)

1. Utilize user groups to push the idea.
2. Offer assistance, where necesary, to new providers --i.e., training
3. Provide some special privileges to providers not available to others
4. With Commonwealth agencies this is not an issue they are required to participate this issue is primarily oriented toward the local governments and private sector
5. Require (YIKES) state funded contractors to provide digital data in a compatible format for inclusion on the PASDA site.
6. Offer help creating metadata.
7. Employ regional PASDA extension agents
8. go through the local government outreach coordinators in state government and encourage local governments to provide data
9. Provide guidance in cleaning up/documenting data to providers

10. inform creators of data of the PASDA site.
11. Attend association meetings and convdentions. Place articles in their magazines.
12. Encourage business to use as a free source of advertising.
13. Streamline the MetaData issue...is (9)pages of MetaData really necessary for a DOQ????
14. Number 5 is required under the Memoradum of Agreement
15. Provide help with quality control issues.
16. Make the contribution concept a price for participation in PAGIC
17. Much easier said than done. This would entail a lot of hand-holding with sending metadata gurus in the field.
18. I like #5 -- state contractors should be brought into this -- the tax payers are paying for their info.
19. Follow up data private sector data requests with PASDA requests for data sharing
20. Sell the "you scratch my back and I'll scratch yours" idea.
21. newsletter explaining what pasda is and what they have to offer
22. Make the process of getting data on the site as painless as possible. If it costs them money to do it, it won't get done.
23. A data sharing cooperative agreement? ie. If I give you "our" orthophotos we flew for Snyder County 911 can you provide us with watershed information that would overlay on our DOQs?

Partnerships (Categorizer)

Participant Instructions

What are some of the ways PASDA might establish partnerships with government, other universities, and the private sector as it
a. provides services to and develops relationships with data providers?
b. expands functional capabilities to the clearinghouse and the data?
c. provides services to and develops relationships with users?
d. expands marketing and outreach efforts?

Partnerships (Categorizer)

1. I question if this is a function of the clearinghouse of the PAGIC.
2. NOTHING beats face to face discussion. Mush is lost over the phone or on email.
3. contact the geography departments of colleges and universities in the commonwealth
4. What services can you offer to a provider in exchange for gaining access to his data?
5. Public outreach, so they know you exist.
6. consider visiting agencies or providing a video on PASDA for distribution
7. Document the value added aspect of using the clearinghouse
8. Keep any agreements simple and short -- 15 page contracts will not sell
9. Problem with many of the PASDA datasets is that the data resolution is not good enough for local govts. PAGIC should consider getting highly accurate aerial photography basemap for all of PA and supplying for use as a basemap to those local govts. willing to share data.
10. PAGIC must work this as a priority.
11. Many local groups (like watershed groups) have ties of one sort or another to state agencies. Poll state agencies for leads.
12. It has to be value added. Who wants a partner that doesn't add value to the partnership?
13. No. 1 should be ..... clearinghouse OR of the PAGIC
14. There has to be a relationship where both sides benefit
15. contact professional organizations in the commonwealth and national organizations such as AAPG, GSA, etc
16. Provide a referral service to other providers with the intent of joining efforts to create mutually usable data. i.e. helping potential providers find partners in exchange for their posting their data on the PASDA site.
17. continue periodic meetings, establish users group, expand communications, ie. newsletters, highlight on PCN
18. While PaGIC right now is primarily state agencies, much of the data these other groups produce would be very useful to state agencies...and vice verse
19. Add functionality to PASDA that provides contact info on GIS people around the state. Hopefully increased interaction between contributing and non-contributing groups will foster greater data sharing.
20. It must be easy for the partner to participate.

21. To encouraging people to participate you need to show them it is in their interest to join the party. PASDA knows what they have, but the state government agencies in the council probably don't really "know" what they have. In this sense the individual agencies need to inventory their data.
22. Ideas for other groups/agencies/businesses: Borering states, utilities, survey companies.
23. ocntact consultants and ask them to contribute some of their value-added data back
24. provide advertising (links) to buisnesses contributing data
25. possibly have meetings /tours at participating agencies, institutions, and organizations to highlight how GIS is produced, manipulated, and used
26. Utilize associations such as the township supervisors association to reach their members.
27. Pass thru of data to PASDA should limit partner liability
28. advertise in trade publications
29. Establish excellent relationships with your first partners. Word of mouth is still the best advertising. If it becomes known that you are a good partner, others will want to join.
30. Continue to submit articles for publication in trade journals discussing the unique aspects of PASDA
31. consider making a video describing PASDA and GIS in PA for a wide distribution to schools, agencies, and organizations
32. Promote PASDA as an efficient way for partners to distribute their data.
33. We need to determine if we establish relationships with individual governmental entities of there assoc.

PASDA Luncheon Questionnaire (Survey)

Participant Instructions

Please answer all the following questions to the best of your ability. Unless the question specifically says "CHOOSE ONLY ONE ANSWER," you may choose all, some, or none of the selections.

Survey Results

1. Data holdings are organized in a Data Catalog by a variety of categories. Pick categories that you would be most likely to use.

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [5]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	5

B) Results Spread

Statistics

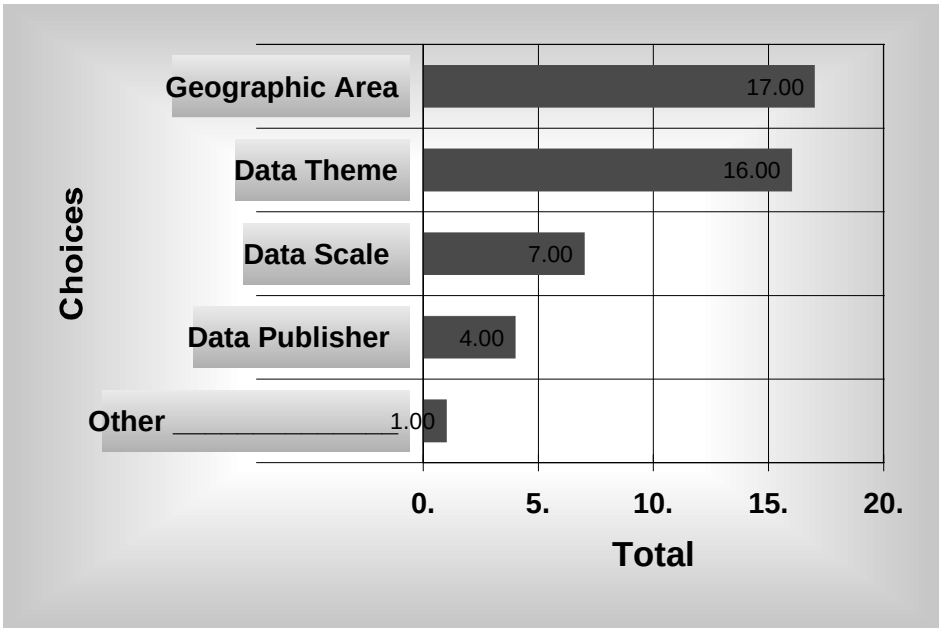
Total	5.00
N	17

Table Sorted By Total

C) Text Responses

1. HOW CURRENT THE DATA IS

Choices	**Total**
Geographic Area	17
Data Theme	16
Data Scale	7
Data Publisher	4
Other _____	1



Results Chart (1. Data holdings are organized in a Data Catalog by...)

2. If a Data Catalog is organized by Data Theme, what would make a logical set of top level

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [10]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	10

B) Results Spread

Statistics

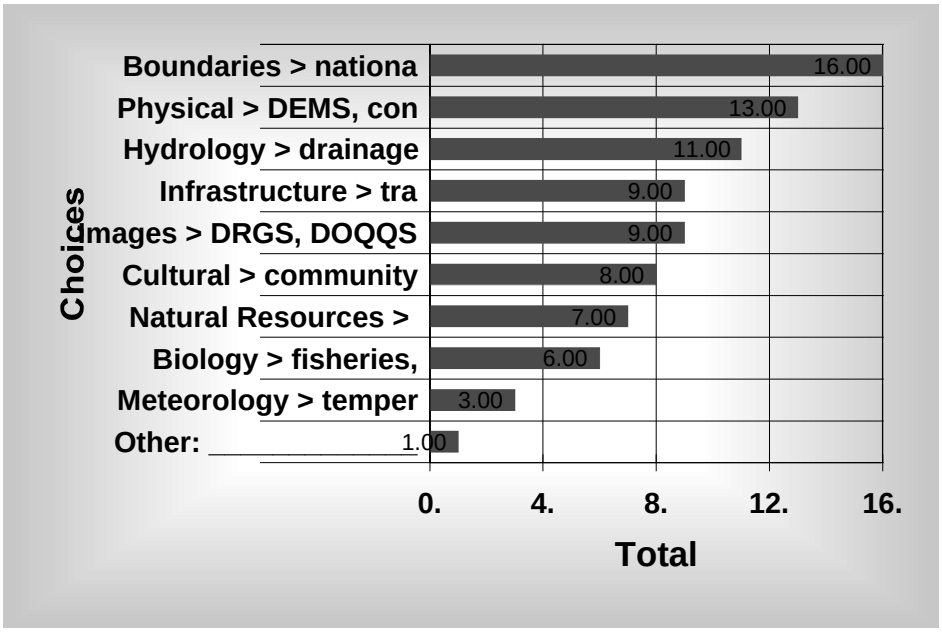
Total	10.00
N	17

Table Sorted By Total

C) Text Responses

1. Historic/Archival (old maps, census data, old municipality boundaries, etc.) . Probably not much data in this category yet.

Choices	**Total**
Boundaries > national, state, county, municipal, c	16
Physical > DEMS, contours, soils, geology, landfor	13
Hydrology > drainage, water quality, etc.	11
Infrastructure > transportation, utility, structur	9
Images > DRGS, DOQQS, etc.	9
Cultural > community facilities, recreation, land	8
Natural Resources > woodland, minerals, petroleum,	7
Biology > fisheries, wildlife, habitats, etc.	6
Meteorology > temperatures, winds, etc.	3
Other: _____	1



Results Chart (2. If a Data Catalog is organized by Data Theme,...)

3. Which of the following approaches are more intuitive and useful to define a location of interest for a map based search: (CHOOSE ONLY ONE ANSWER)

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Maximum Selections: [1]
Descriptions:	Choose only one answer.
Number of Choices:	3

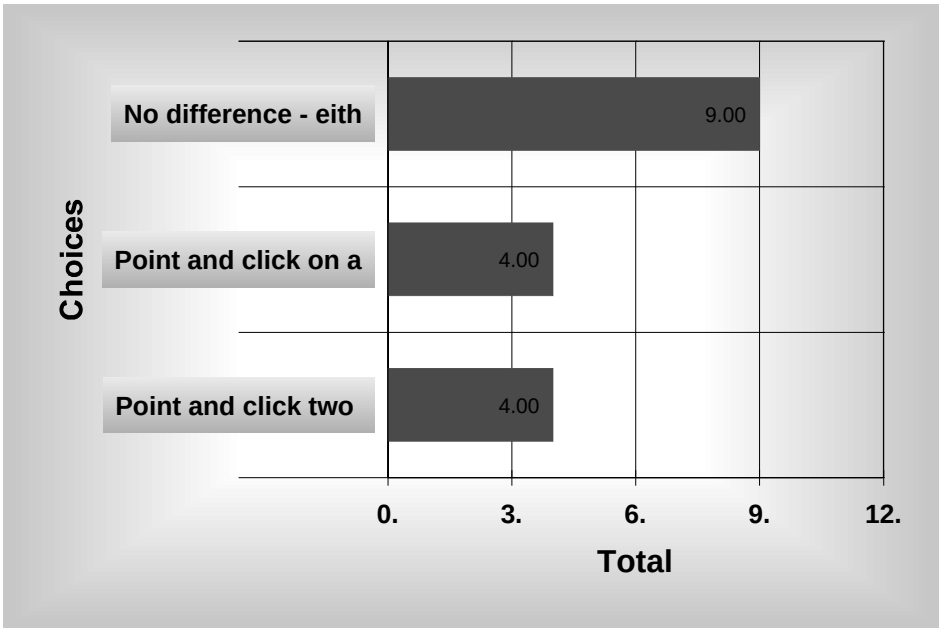
B) Results Spread

Statistics

Total	3.00
N	17

Table Sorted By Total

Choices	Total
No difference - either works equally well	9
Point and click on a predefined boundary such as C	4
Point and click two corners of a box to define the	4



Results Chart (3. Which of the following approaches are more...)

4. What are the most useful set of geographic boundaries for data searches:

A) Ballot

Method: Multiple Selection
Options: Allow Bypass
Enter Text for Last Choice
Maximum Selections: [4]
Descriptions: Choose all, some, or none of the selections.
Number of Choices: 4

B) Results Spread

Statistics

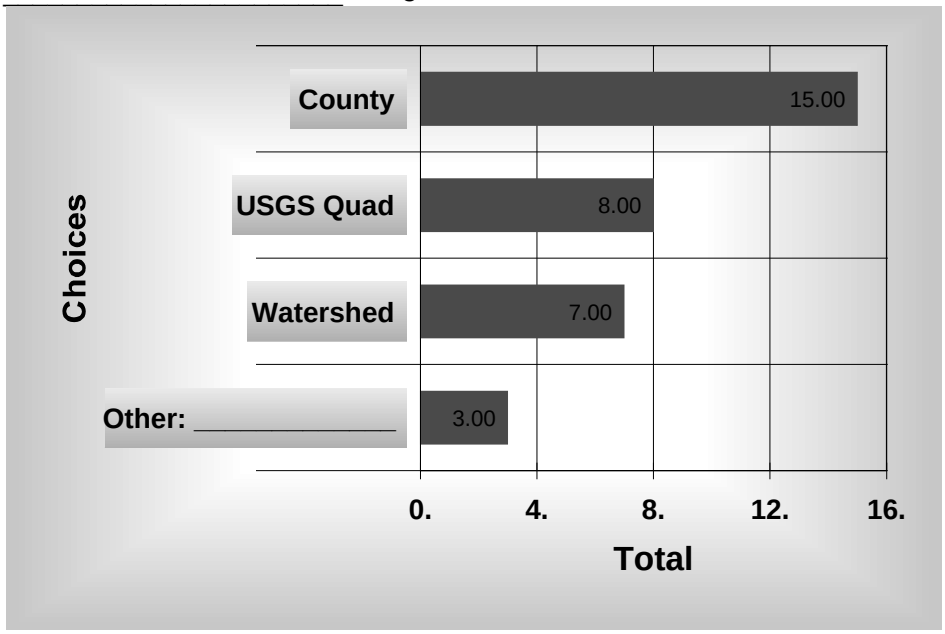
Total 4.00
N 17

Table Sorted By Total

C) Text Responses

1. municipality
2. point features - city/townname
3. Borough,Townshipnad City,etc.

Choices	**Total**
County	15
USGS Quad	8
Watershed	7
Other: _____	3



Results Chart (4. What are the most useful set of geographic...)

5. Which keyword search options do you find more intuitive and useful: (CHOOSE ONLY ONE ANSWER)

A) Ballot

Method: Multiple Selection
Options: Allow Bypass
Maximum Selections: [1]
Descriptions: Choose only one answer.
Number of Choices: 3

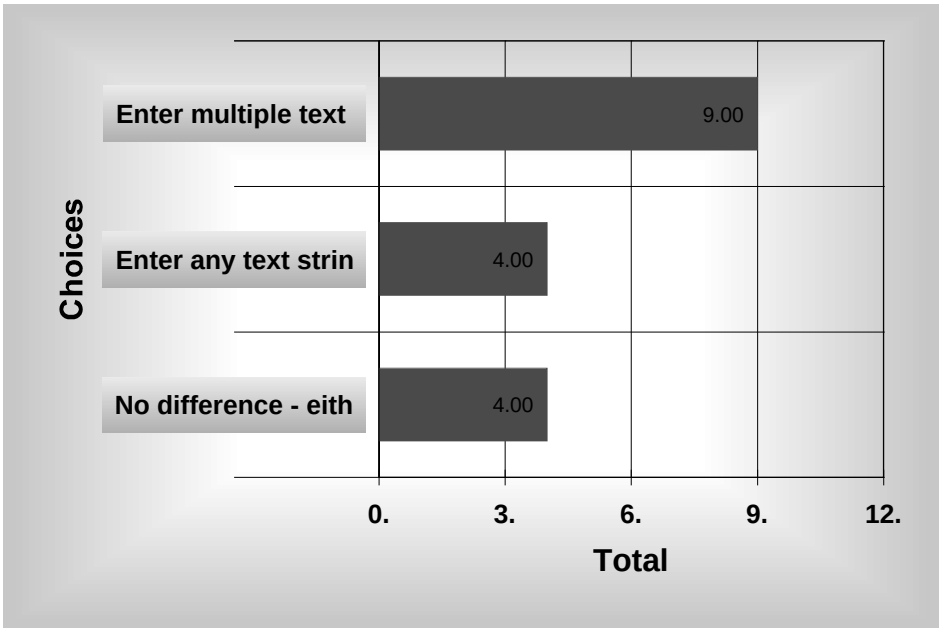
B) Results Spread

Statistics

Total 3.00
N 17

Table Sorted By Total

Choices	**Total**
Enter multiple text strings into a structured sear	9
Enter any text string into a search field and if t	4
No difference - either works equally well	4



Results Chart (5. Which keyword search options do you find more...)

6. What is the desired level of interactive mapping for a clearinghouse?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [6]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	6

B) Results Spread

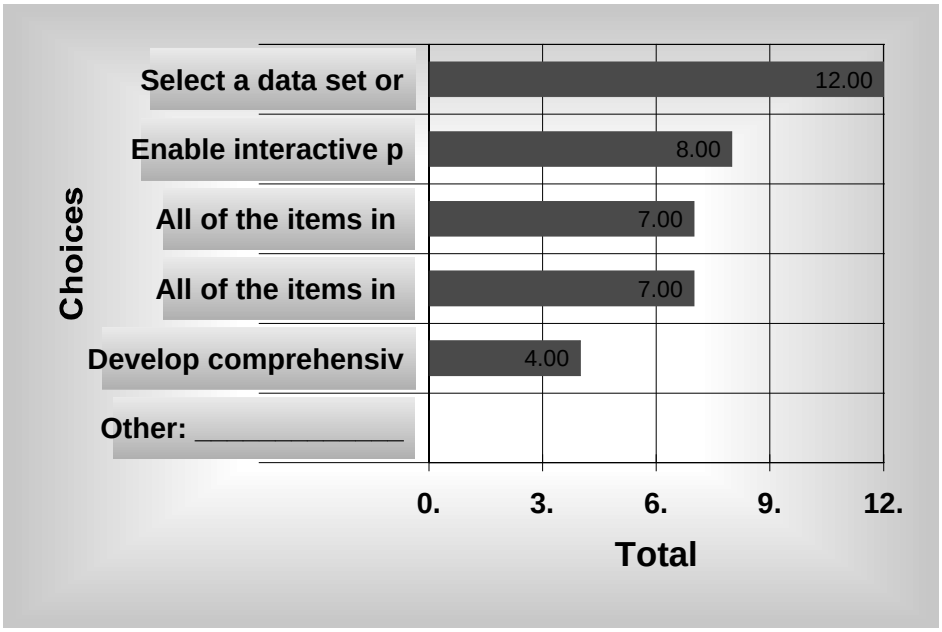
Statistics

Total	5.00
N	17

Table Sorted By Total

C) Text Responses

Choices	Total
Select a data set or series and view the extent of	12
Enable interactive previews of a user selected dat	8
All of the items in "b" plus point/click on map fe	7
All of the items in "c" plus thematic mapping of p	7
Develop comprehensive subject based interactive ma	4
Other: _____	0



Results Chart (6. What is the desired level of interactive mapping...)

7. What comprehensive subject based interactive mapping applications are the most relevant for the clearinghouse?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [4]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	4

B) Results Spread

Statistics

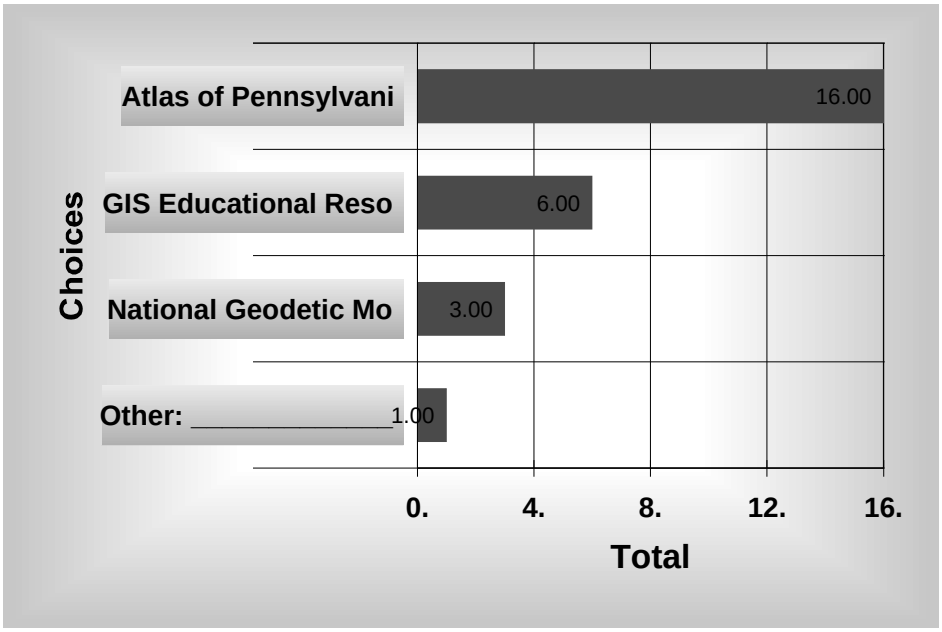
Total	4.00
N	17

Table Sorted By Total

C) Text Responses

1. Don't know

Choices	**Total**
Atlas of Pennsylvania (multiple themes: demographi	16
GIS Educational Resources in Pennsylvania	6
National Geodetic Monument Framework in Pennsylvan	3
Other: _____	1



Results Chart (7. What comprehensive subject based interactive...)

8. If you were able to download the data in any particular file format, which vector format would you most frequently choose?

A) Ballot

Method: Open-Ended
Options: Allow Bypass
Maximum Number of Characters: [9999]
Descriptions: Click in the box to enter text.

B) Text Responses

Total Number of Respondents (N): 17
Number of responses to this question (n): 12

1. Undetermined
2. Depends on the data and application
3. arc
4. arc/info or shapefile
5. Arc/Info export .e00
6. whatever is needed for situation
7. Microstation Design file format
8. .dgn
9. shapefiles
10. windows
11. shape file
12. Arcview shapefiles

9. If you were able to download the data in any particular file format, which image format would you most frequently choose?

A) Ballot

Method: Open-Ended
Options: Allow Bypass
Maximum Number of Characters: [9999]
Descriptions: Click in the box to enter text.

B) Text Responses

Total Number of Respondents (N): 17
Number of responses to this question (n): 11

1. Undetermined
2. Depends on the application
3. tif or gif
4. Geotiff
5. .e00
6. depends on situation
7. jpg
8. bil
9. windows
10. .tif or .bil

11. GeoTiff

10. If you were able to download the data in any particular projection, which would you choose?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [3]
Descriptions:	Choose some, all, or none of the selections.
Number of Choices:	3

B) Results Spread

Statistics

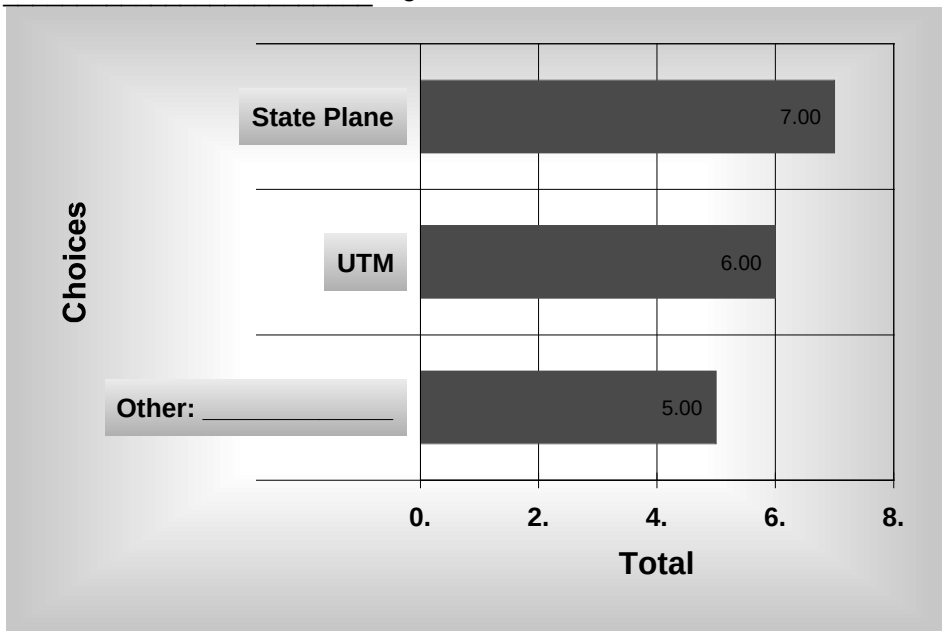
Total	3.00
N	17

Table Sorted By Total

C) Text Responses

1. Lambert
2. POLYCONIC
3. nad 83
4. albers
5. Geographic Lat/Long

Choices	**Total**
State Plane	7
UTM	6
Other: _____	5



Results Chart (10. If you were able to download the data in any...)

11. If you were able to download the data in any particular datum, which would you choose?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [3]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	3

B) Results Spread

Statistics

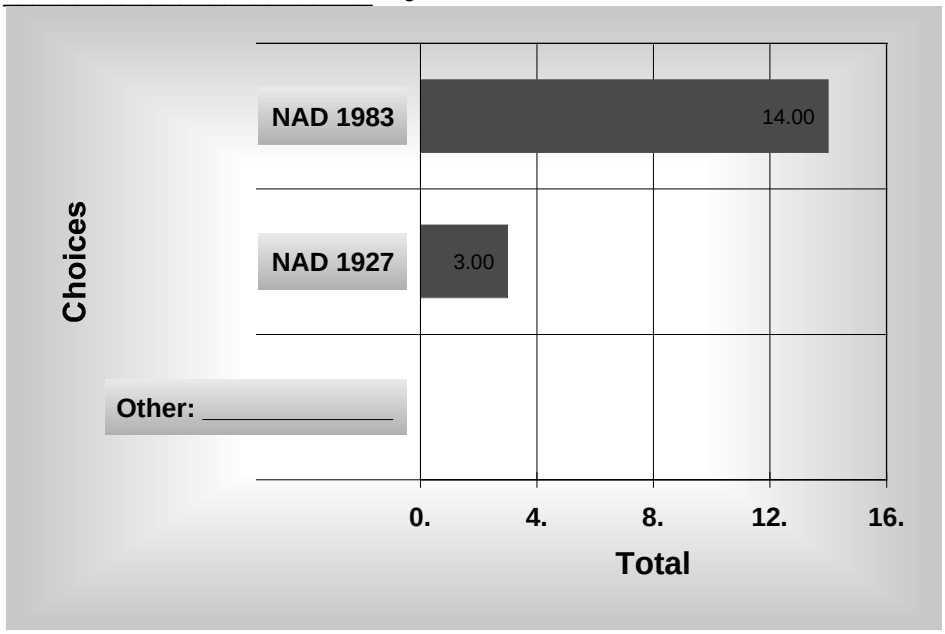
Total	2.00
N	17

Table Sorted By Total

C) Text Responses

Choices	**Total**
NAD 1983	14
NAD 1927	3

Other: _____ 0



Results Chart (11. If you were able to download the data in any...)

12. If you were able to download the data in any particular coordinate units, which would you choose?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [3]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	3

B) Results Spread

Statistics

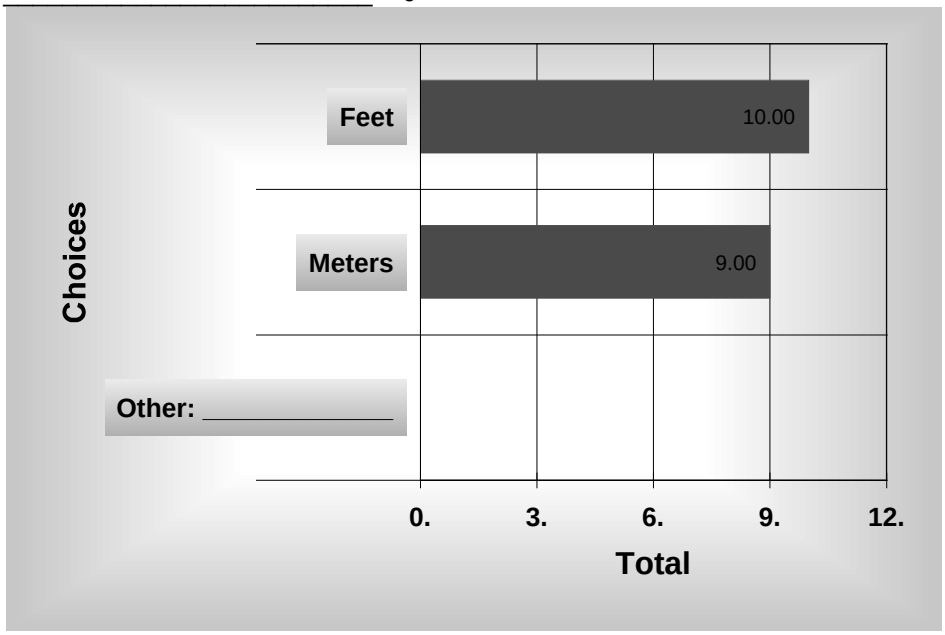
Total	2.00
N	17

Table Sorted By Total

C) Text Responses

Choices	Total
Feet	10
Meters	9

Other: _____ 0



Results Chart (12. If you were able to download the data in any...)

13. If you were able to specify the geographic area of choice to download the data which would you most frequently choose? (See next question to specify "other.")

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Enter Text for Last Choice Maximum Selections: [7]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	7

B) Results Spread

Statistics

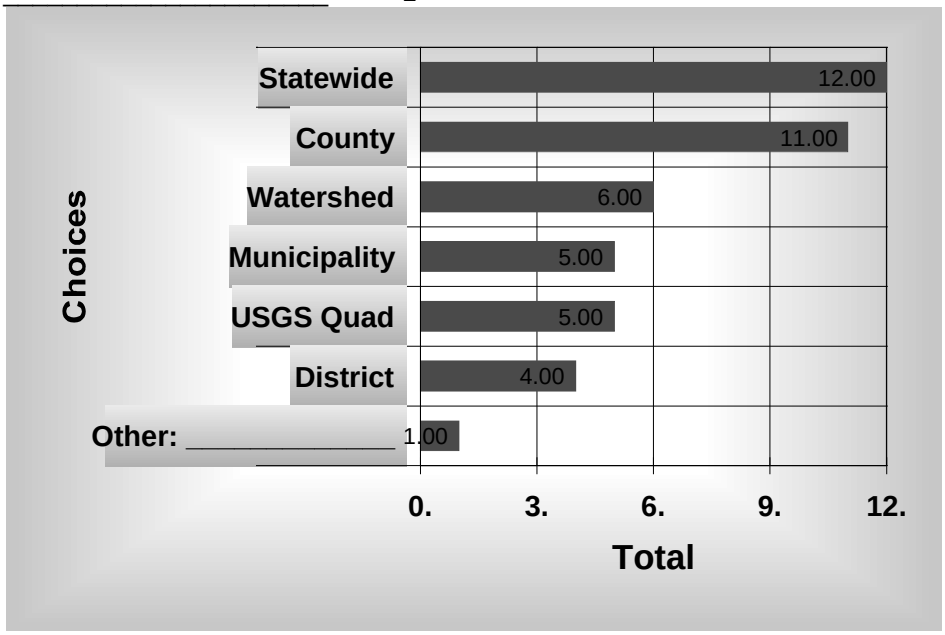
Total	7.00
N	17

Table Sorted By Total

C) Text Responses

1. Regional

Choices	**Total**
Statewide	12
County	11
Watershed	6
Municipality	5
USGS Quad	5
District	4
Other: _____	1



Results Chart (13. If you were able to specify the geographic area...)

14. In which format would you typically request your metadata file?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Maximum Selections: [1]
Descriptions:	Choose only one answer.
Number of Choices:	4

B) Results Spread

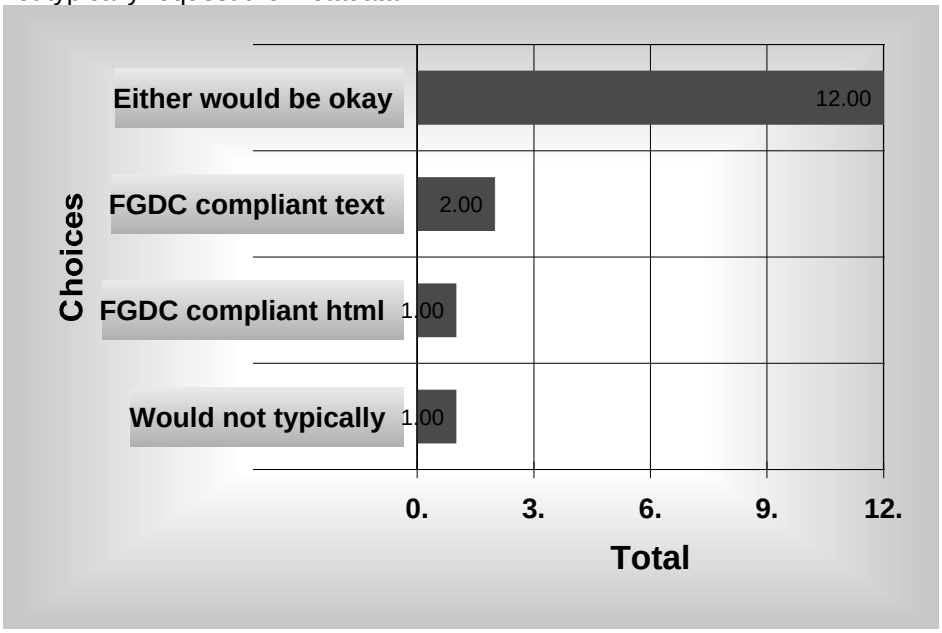
Statistics

Total	4.00
N	17

Table Sorted By Total

Choices	**Total**
Either would be okay	12
FGDC compliant text file	2
FGDC compliant html file	1

Would not typically request the metadata 1



Results Chart (14. In which format would you typically request your...)

15. Which of the following metadata support services should PASDA provide?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Maximum Selections: [5]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	5

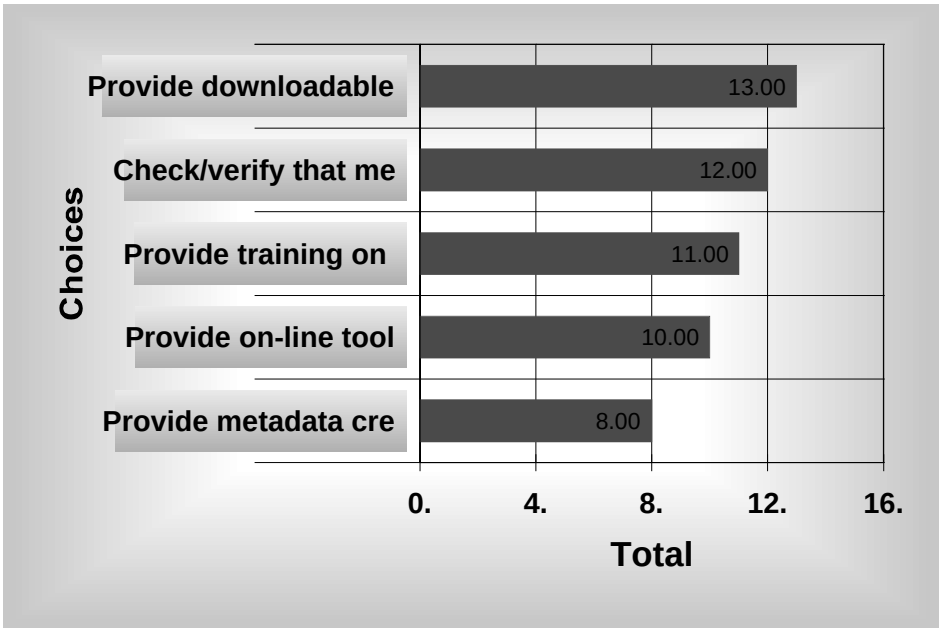
B) Results Spread

Statistics

Total	5.00
N	17

Table Sorted By Total

Choices	Total
Provide downloadable "shareware" tools and trainin	13
Check/verify that metadata that is provided confor	12
Provide training on the elements of the FGDC Stand	11
Provide on-line tools (web forms) for users to ent	10
Provide metadata creation services to assist users	8



Results Chart (15. Which of the following metadata support services...)

16. What is the maximum acceptable amount of download connection time to download data?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Maximum Selections: [5]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	5

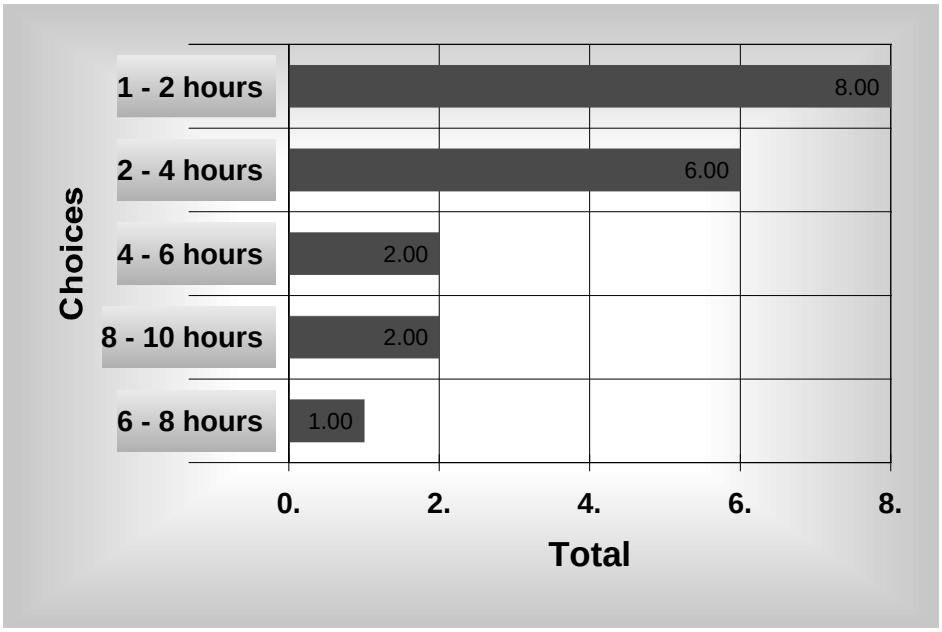
B) Results Spread

Statistics

Total	5.00
N	17

Table Sorted By Total

Choices	Total
1 - 2 hours	8
2 - 4 hours	6
4 - 6 hours	2
8 - 10 hours	2
6 - 8 hours	1



Results Chart (16. What is the maximum acceptable amount of download...)

17. Which of the following reflects your current connection to the Internet?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [9]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	9

B) Results Spread

Statistics

Total	7.00
N	17

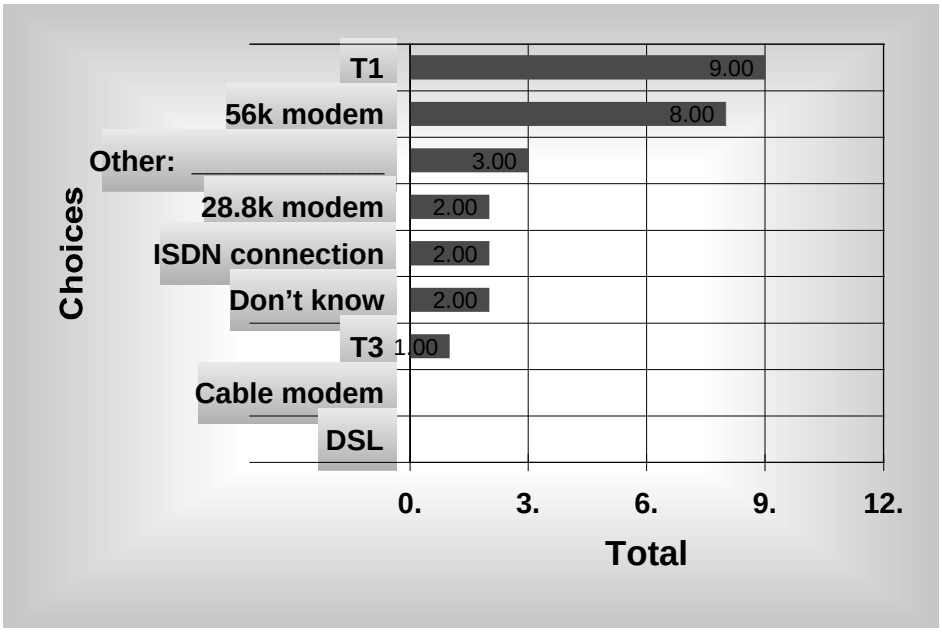
Table Sorted By Total

C) Text Responses

1. Varies by office. Inspector's home offices are typically 56kb while some district offices utilize a split T1 (256 kb). All regional offices work off a T1.
2. Fibre
3. Forest districts have 56k lines

Choices	Total
T1	9
56k modem	8
Other: _____	3
28.8k modem	2
ISDN connection	2

Don't know 2
T3 1
Cable modem 0
DSL 0



Results Chart (17. Which of the following reflects your current...)

18. If data set is too large to download, the clearinghouse should:

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [5]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	5

B) Results Spread

Statistics

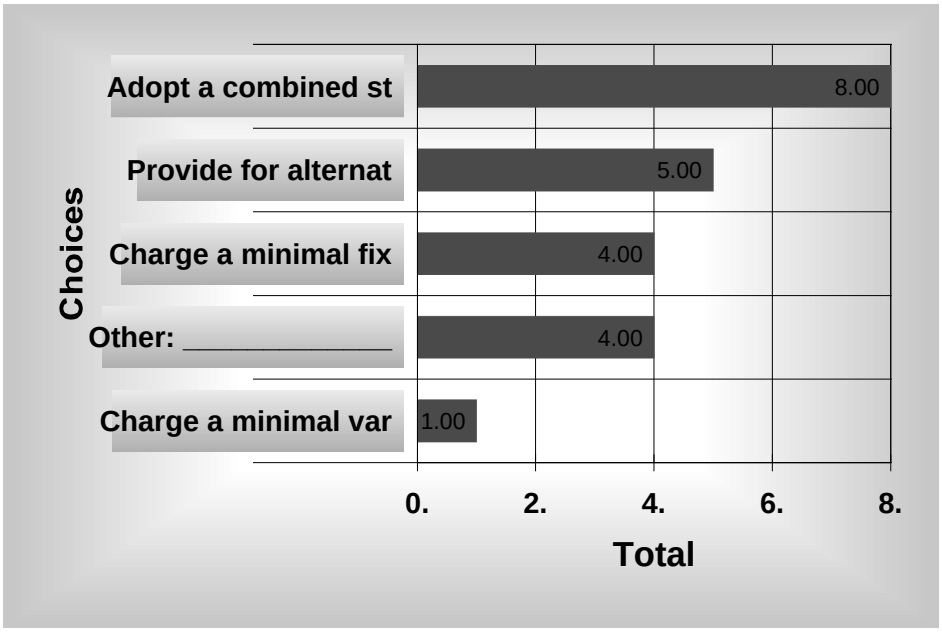
Total	5.00
N	17

Table Sorted By Total

C) Text Responses

1. Commonwealth users who are a member of the PAGIC should receive alternative downloads free and this should be factored into the annual clearinghouse funding.
2. Frequent users could pay a subscription fee for customized services -- either formating or CD
3. Provide "on the fly compression"
4. perhaps break the datafile into bitesize chunks that could be used

Choices	**Total**
Adopt a combined strategy of "b" and "c"	8
Provide for alternative method of data transfer fr	5
Charge a minimal fixed fee based on a standard set	4
Other: _____-	4
Charge a minimal variable fee based fully customiz	1



Results Chart (18. If data set is too large to download, the...)

19. If the data set is too large to download, the user should:

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [4]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	4

B) Results Spread

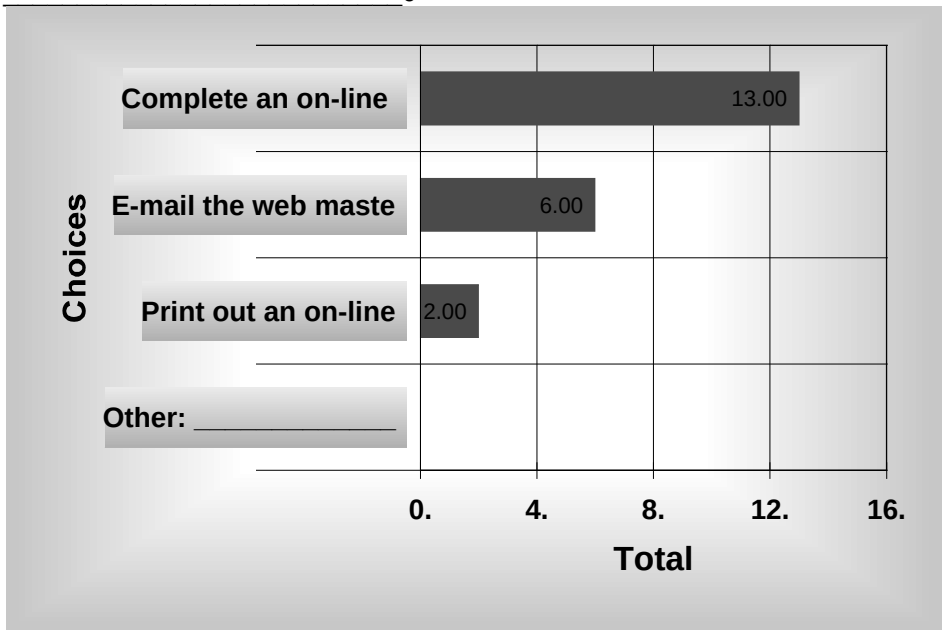
Statistics

Total	3.00
N	17

Table Sorted By Total

C) Text Responses

Choices	**Total**
Complete an on-line request form for alternative m	13
E-mail the web master with request for alternative	6
Print out an on-line data request form, completed	2
Other: _____	0



Results Chart (19. If the data set is too large to download, the...)

20. For data users, which of the following media should be considering the standard off-line method for data distribution?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Enter Text for Last Choice Maximum Selections: [4]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	4

B) Results Spread

Statistics

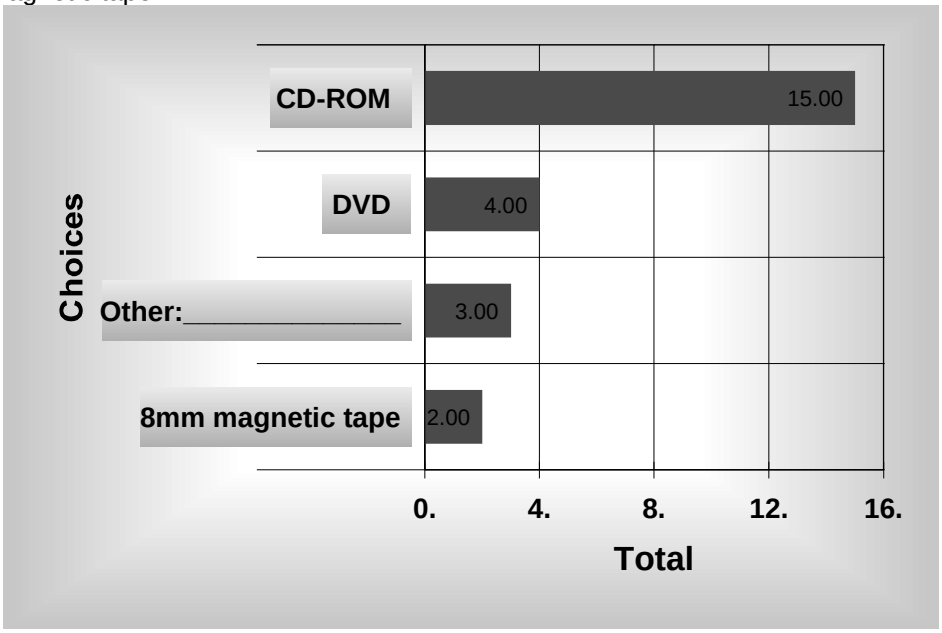
Total	4.00
N	17

Table Sorted By Total

C) Text Responses

1. Offer a choice, with appropriate fees for each.
2. DLT
3. Punch Cards

Choices	**Total**
CD-ROM	15
DVD	4
Other:_____	3
8mm magnetic tape	2



Results Chart (20. For data users, which of the following media...)

21. Whenever a data set is downloaded,

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Enter Text for Last Choice Maximum Selections: [3]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	3

B) Results Spread

Statistics

Total	3.00
N	17

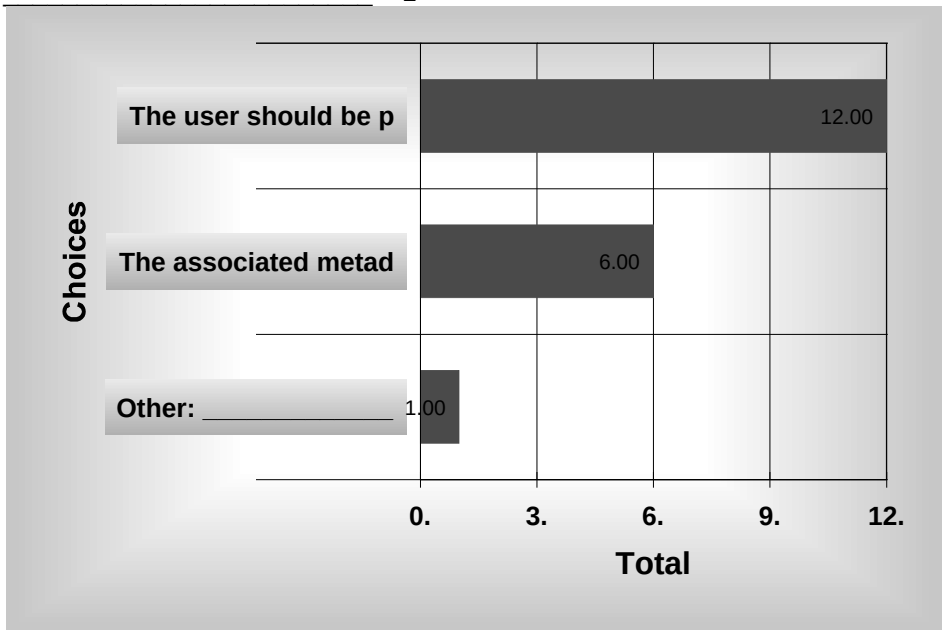
Table Sorted By Total

C) Text Responses

1. at the very least, the projection and datum should be included in the file name, more than anything else, I go to this part of the metadata (usually at the very bottom) it would be nice to know this much up front.

Choices	**Total**

The user should be prompted if they wish to have t	12
The associated metadata should automatically be do	6
Other: _____	1



Results Chart (21. Whenever a data set is downloaded,)

22. For data providers, which of the following should be considering the standard method for data transfer to PASDA?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Enter Text for Last Choice Maximum Selections: [5]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	5

B) Results Spread

Statistics

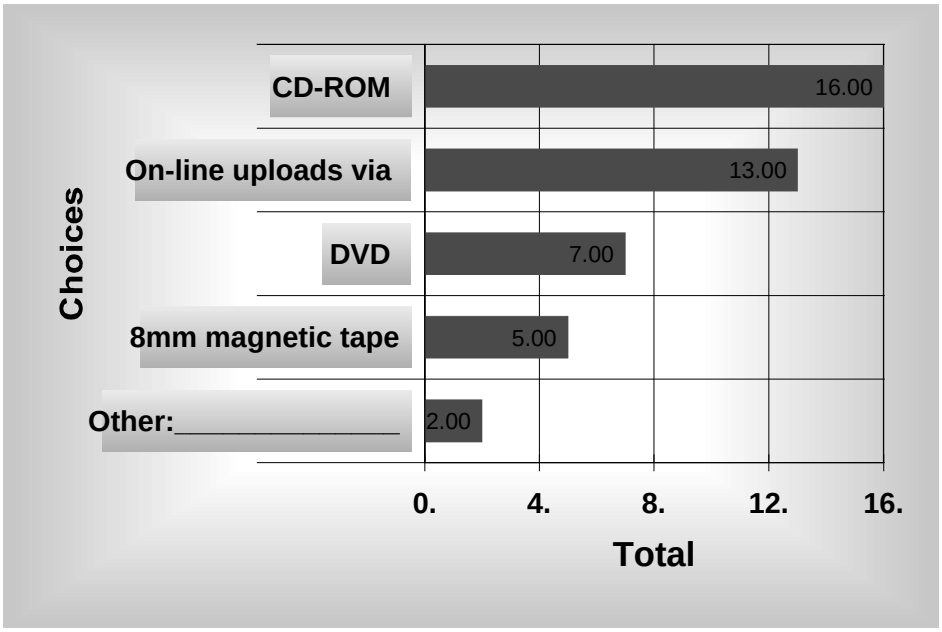
Total	5.00
N	17

Table Sorted By Total

C) Text Responses

1. You need to be "provider-friendly" -- make it easy for them.
2. DLT

Choices	**Total**
CD-ROM	16
On-line uploads via ftp	13
DVD	7
8mm magnetic tape	5
Other:_____	2



Results Chart (22. For data providers, which of the following should...)

23. What topics should be offered to assist/educate data providers?

A) Ballot

Method: Open-Ended
Options: Allow Bypass
Maximum Number of Characters: [9999]
Descriptions: Click in the box to enter text.

B) Text Responses

Total Number of Respondents (N): 17
Number of responses to this question (n): 13

1. Minimal information to accomplish uploads.
2. basic gis tutorial
3. Not sure, I'm not a data provider.
4. "Recommended" standards -- but still accept their preferred standard
5. Metadata creation, Transfer procedures, Quality control checklist
6. Examples of how the data could be used
7. UPDATE CYCLE / POLICY
METADATA CREATION
8. perhaps on-line tutorial
9. Table of projections used by each provider
10. An overview to agencies planning to become providers, but have limited experience and expertise.
11. basic data integrity
12. Metadata construction
13. import the data format into one another. perform site searches, & select asuitable map projection.

24. What topics should be offered to assist/educate data users?

A) Ballot

Method: Open-Ended
Options: Allow Bypass
Maximum Number of Characters: [9999]
Descriptions: Click in the box to enter text.

B) Text Responses

Total Number of Respondents (N): 17
Number of responses to this question (n): 14

1. Minimal information to accomplish download or request for off line data services
2. basic gis tutorial with hyper to advnced subjects
3. The tutorials that are available currently are quite good.
4. How to access the data
How to modify the data
How to get help
How to get customized service
5. links to self-help areas andtutorials

6. Download procedures, overlay procedures, use considerations
7. How their customers can use the data
8. JUST THE BASIC HOW TO DOs
9. Role of Pasda
10. FAQ's to reduce redundant questions; online resources (ie links to GIS educational sites and /or consulting services); a GIS primer and dictionary.
11. intro to GIS
12. little if any
13. Q: My data don't line up. A: Reproject
Q: How do I unzip? A: Are you sure you should be using these data?
Q: What's a Bil, TIFF, etc.
Q: How do I use a DEM?
14. Perform site searches, Import data format into one another & select a suitable map projection

25. What topics should be offered to assist educating elementary and high school students about GIS?

A) Ballot

Method: Open-Ended
Options: Allow Bypass
Maximum Number of Characters: [9999]
Descriptions: Click in the box to enter text.

B) Text Responses

Total Number of Respondents (N): 17
Number of responses to this question (n): 12

1. I do not see this as a function of the clearinghouse.
2. basic gis
3. They should be able to make do with what is available for data users. Their teachers need to design the GIS educational materials.
4. Who collects and uses this data
What are the uses of this data
Career-related info
5. links to free GIS areas and tutorials
6. Basic GIS concepts, Data handling procedures
7. Personnal to train them on the proper use of the technology
8. THE VERY BASICS IF ANYTHING AT ALL
9. Links to other sites and private vendors
10. intro to GIS
11. Links to other web sites with interesting applications.
12. Same as #24

26. Rank the tutorial and educational topics in the order that seem most important to you

A) Ballot

Method: Open-Ended
Options: Allow Bypass
Maximum Number of Characters: [9999]
Descriptions: Click in the box to enter text.

B) Text Responses

Total Number of Respondents (N): 17
Number of responses to this question (n): 9

1. Providing minim information to accomplish the tasks.
2. basic first
advanced GIS links
3. 1 data users
2 data producers
3. k-12 students
4. 1. Perform site searches
2. Select a suitable map projection
3. Use public domain tools
4. Import the data format into another one
5. 1. Data provider, 2. Data downloading, 3. Basic GIS concepts,
6. 25
23
24
7. 1 DATA USERS
2 DATA PROVIDERS

3. STUDENTS
8. Create Metadata
Import Data
Perform Site Searches
Select map projection
9. 1=sitew searches 2=Import data format into one another

27. What are the most useful tools for providing on-line help?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [5]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	5

B) Results Spread

Statistics

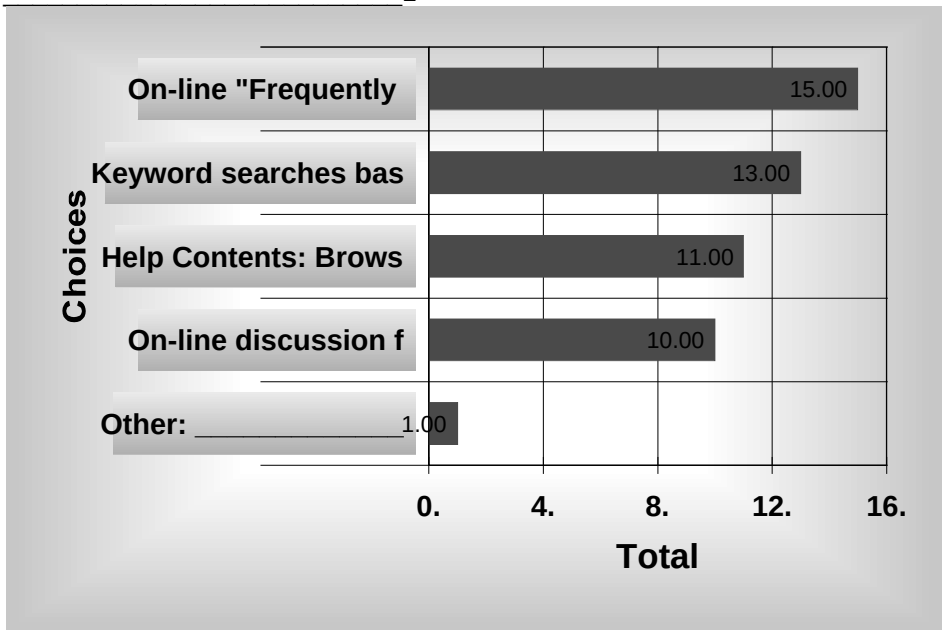
Total	5.00
N	17

Table Sorted By Total

C) Text Responses

1. Refer to the DEP PFAS on line tutorials. They seem to provide adequate training and help.

Choices	**Total**
On-line "Frequently Asked Questions" (FAQs)	15
Keyword searches based on user entered text to bri	13
Help Contents: Browsing available topics with expa	11
On-line discussion forum where peers can post prob	10
Other: _____	1



Results Chart (27. What are the most useful tools for providing...)

28. A user subscription service provides proactive automated notification whenever data are added for a category or location. The user must provide an e-mail address and categories of interest to set up a user profile for the subscription service. What would be the key categories that would be most useful in setting up a profile?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [5]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	5

B) Results Spread

Statistics

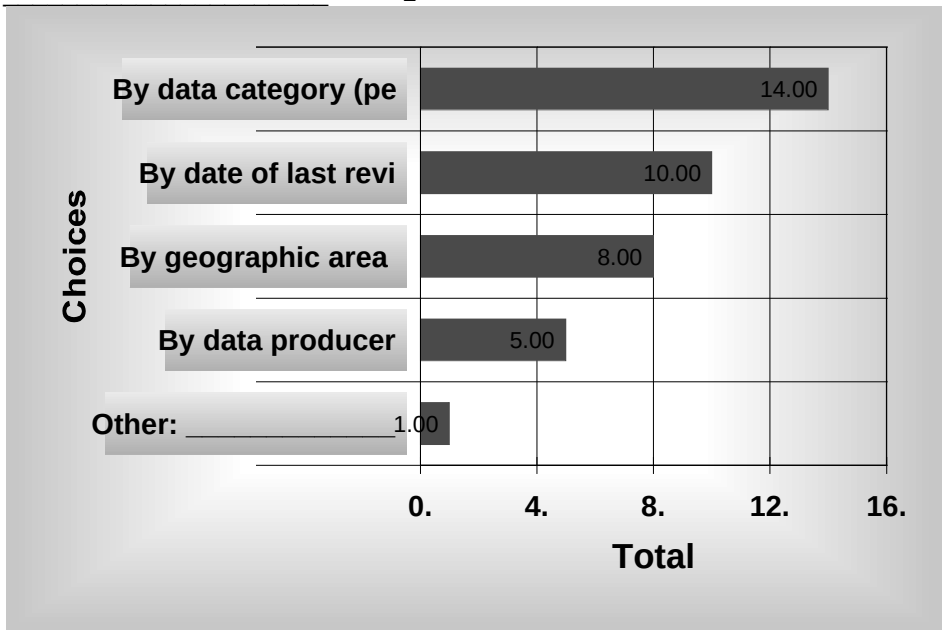
Total 5.00
N 17

Table Sorted By Total

C) Text Responses

1. Ask the subscriber and provide what he

Choices	Total
By data category (per Data Catalog categories)	14
By date of last revision	10
By geographic area	8
By data producer	5
Other: _____	1



Results Chart (28. A user subscription service provides proactive...)

29. Should it be possible to set-up simple Boolean operators between categories?

A) Ballot

Method: Multiple Selection
Options: Allow Bypass
Enter Text for Last Choice
Maximum Selections: [2]
Descriptions: Choose all, some, or none of the selections.
Number of Choices: 3

B) Results Spread

Statistics

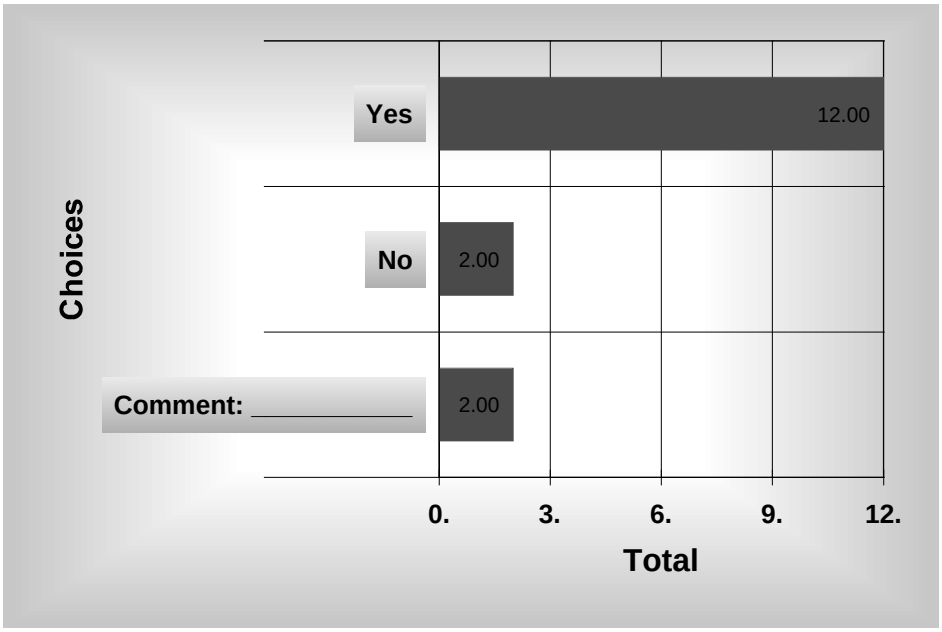
Total 3.00
N 17

Table Sorted By Total

C) Text Responses

1. Maybe. Depends upon how much of a pain it would be to make it work.
2. Unsure

Choices	Total
Yes	12
No	2
Comment: _____	2



Results Chart (29. Should it be possible to set-up simple Boolean...)

30. Should the profile be available "Use Profile" input into the on-line keyword search tool?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [2]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	3

B) Results Spread

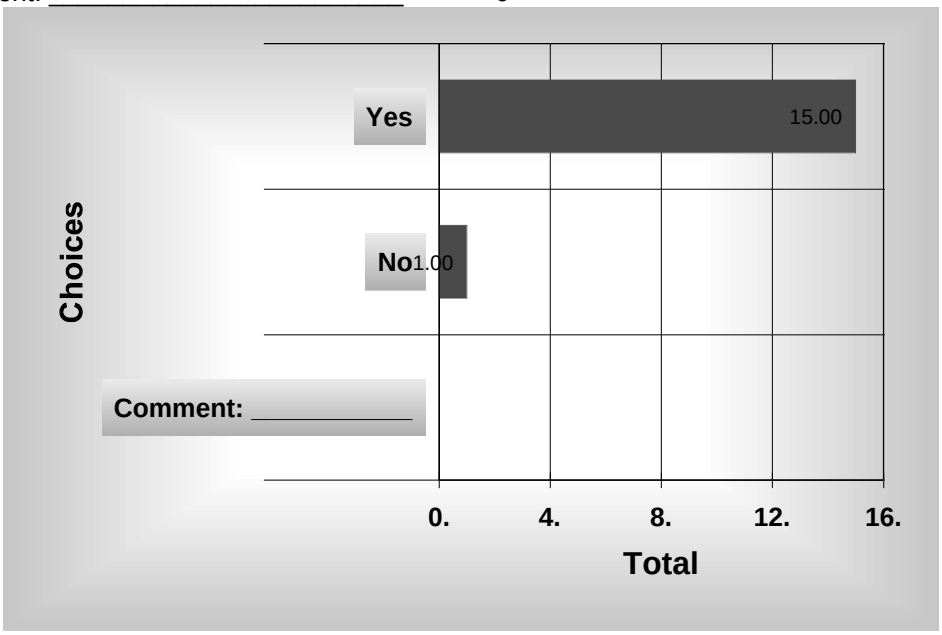
Statistics

Total	2.00
N	17

Table Sorted By Total

C) Text Responses

Choices	**Total**
Yes	15
No	1
Comment: _____	0



Results Chart (30. Should the profile be available "Use Profile"...)

31. Should the profile store map projection, data format and geographic area parameters in order

to support a "Use Profile" option for processing the data prior to download.

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Enter Text for Last Choice Maximum Selections: [2]
Descriptions:	Choose all, some, or none of the selections.ons.
Number of Choices:	3

B) Results Spread

Statistics

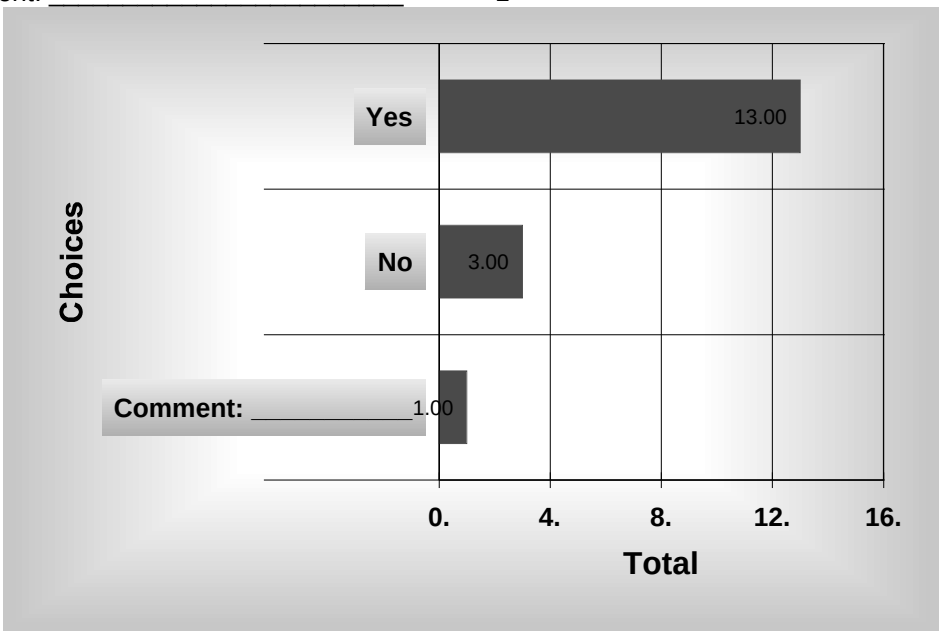
Total	3.00
N	17

Table Sorted By Total

C) Text Responses

1. sounds neat, but again, is it a pain to do.

Choices	**Total**
Yes	13
No	3
Comment: _____	1



Results Chart (31. Should the profile store map projection, data...)

32. How should a user's subscription be canceled and removed from the site?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Enter Text for Last Choice Maximum Selections: [4]
Descriptions:	Choose all, some, or none of the selections.
Number of Choices:	4

B) Results Spread

Statistics

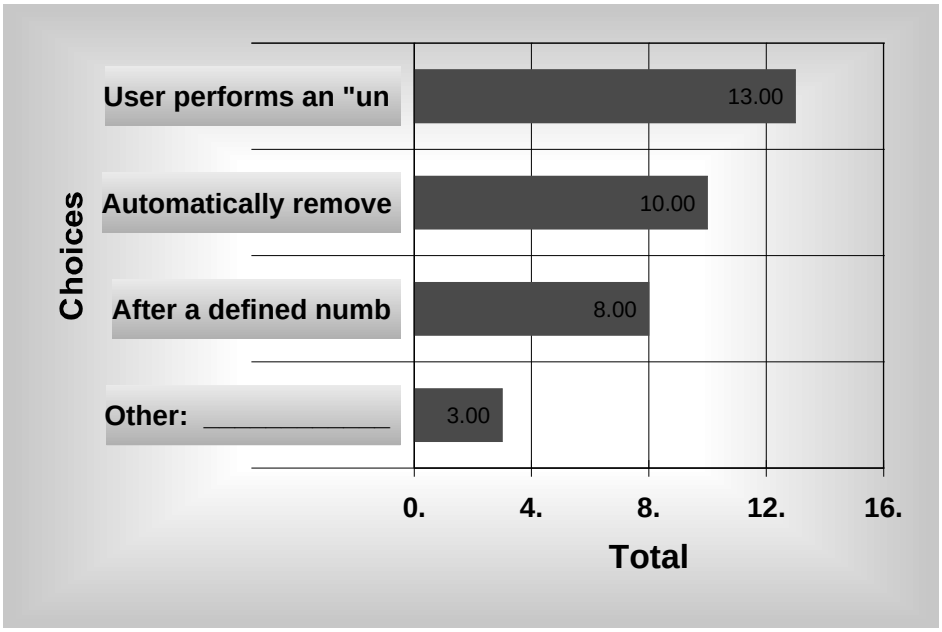
Total	4.00
N	17

Table Sorted By Total

C) Text Responses

1. with option c you should give notice!
2. When he does not renew his subscription
3. All options are good for different people. Let user choose how they will be unsubscribed.

Choices	**Total**
User performs an "unsubscribe" while on-line	13
Automatically remove after a defined period of ina	10
After a defined number of unsuccessful attempts at	8
Other: _____	3



Results Chart (32. How should a user's subscription be canceled and...)

33. How should users be able to report problems with data download or connection problems?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [4]
Descriptions:	Choose some, all, or none of the selections.
Number of Choices:	4

B) Results Spread

Statistics

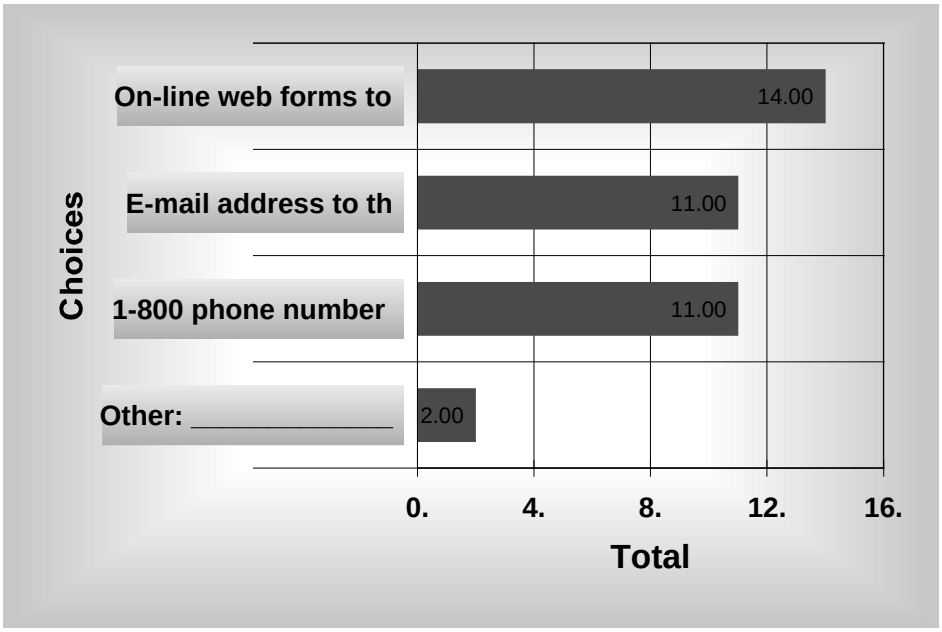
Total	4.00
N	17

Table Sorted By Total

C) Text Responses

1. toll number
2. Either #1 or #2 plus #3

Choices	**Total**
On-line web forms to report problems	14
E-mail address to the web master (technical).	11
1-800 phone number	11
Other: _____	2



Results Chart (33. How should users be able to report problems with...)

34. How should users be able to arrange for off-line distribution of data?

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [4]
Descriptions:	Choose some, all, or none of the selections.
Number of Choices:	4

B) Results Spread

Statistics

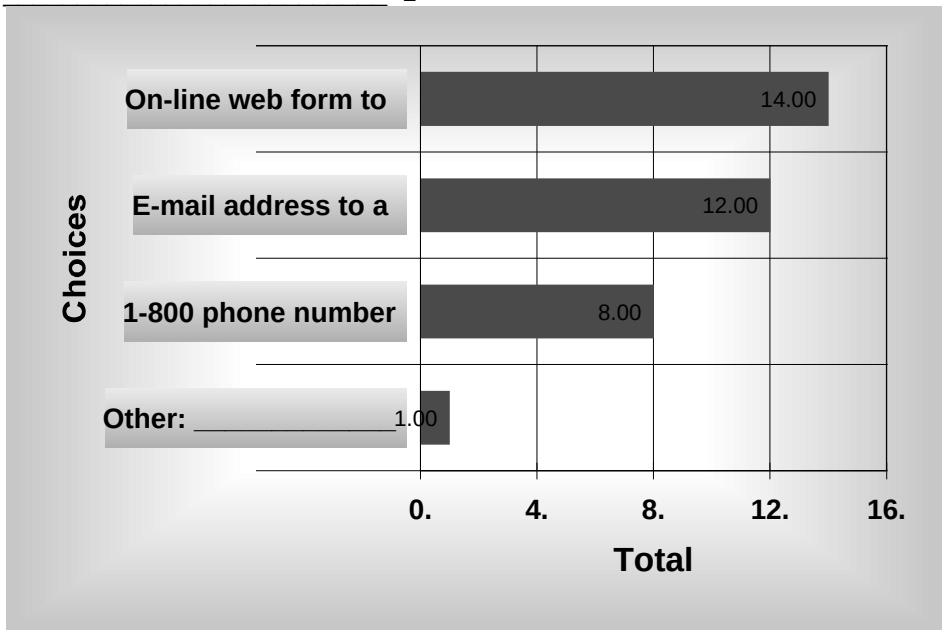
Total	4.00
N	17

Table Sorted By Total

C) Text Responses

1. Same as Question #33

Choices	**Total**
On-line web form to request off-line distribution.	14
E-mail address to a "customer service" representat	12
1-800 phone number	8
Other: _____	1



Results Chart (34. How should users be able to arrange for off-line...)

35. If on-line e-mail or web forms are used to report problems or arrange for offline distribution, what is the maximum amount of time that can transpire before a problem or request is acknowledged by the web master?

A) Ballot

Method: Open-Ended
Options: Allow Bypass
Maximum Number of Characters: [9999]
Descriptions: Click in the box to enter text.

B) Text Responses

Total Number of Respondents (N): 17
Number of responses to this question (n): 14

1. During normal work hours (8:00 a.m. - 5:00 p.m.) 30 minutes
Off hours respond within 8 hours
2. two to four days
3. I normally will allow for a week or more to address the problem. However, if the question takes some time to answer, you need to provide a same day message that the email was received and the question is being address.
4. working week
5. 24 - 48 hours
6. 48 hours
7. 5 working days
8. 24 hours
9. 48 HRS
10. 24 hours
11. 24 hours
12. 3 business days
13. 24 hours
14. One week

36. One reason to acquire user feedback is to measure customer satisfaction with the services offered by the clearinghouse. To meet this need, it is necessary to know who has used the site, how frequently they have used the site, and perhaps, how to contact them. What would be the best way for PASDA to track the users and collect the information?

A) Ballot

Method: Multiple Selection
Options: Allow Bypass
Enter Text for Last Choice
Maximum Selections: [5]
Descriptions: Choose some, all, or none of the selections..
Number of Choices: 5

B) Results Spread

Statistics

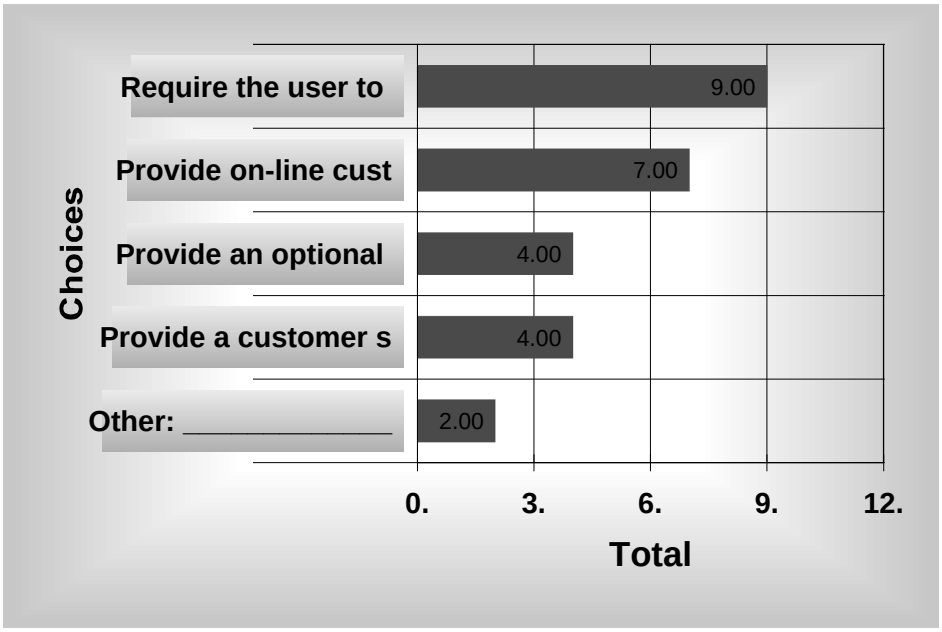
Total 5.00
N 17

Table Sorted By Total

C) Text Responses

1. no good answer here. If you let it up to the users, the answers could be biased. If you force everyone to fill out a survey, they probably will be annoyed.
2. Provide on-line survey as in d. but make sure it is displayed prominantly and advise them of the use of this survey in ensuring the continued existence of the clearinghouse (ie. encourage success story submissions).

Choices	**Total**
Require the user to log in first thing when they v	9
Provide on-line customer satisfaction survey and l	7
Provide an optional sign-in page so that customer	4
Provide a customer satisfaction survey file along	4
Other: _____	2



Results Chart (36. One reason to acquire user feedback is to measure...)

37. As a data user, what range of scales (source materials/output) do you typically work? (Choose no more than TWO selections)

A) Ballot

Method: Multiple Selection
Options: Allow Bypass
Enter Text for Last Choice
Maximum Selections: [3]
Descriptions: Choose no more than 2 scaled selections (1:50,000, etc.). Use "Comment" selection as a third selection to provide your comments.
Number of Choices: 6

B) Results Spread

Statistics

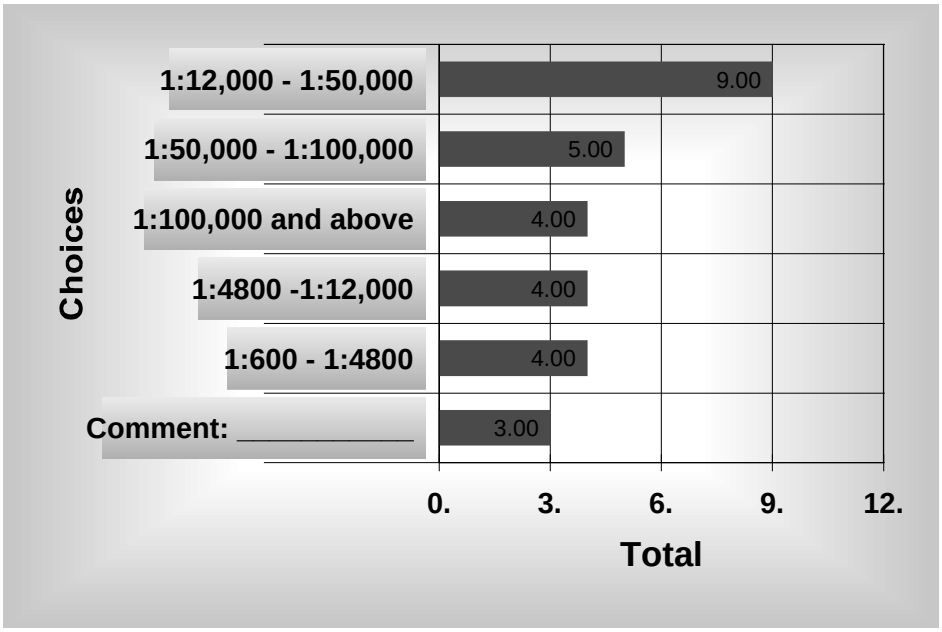
Total 6.00
N 17

Table Sorted By Total

C) Text Responses

1. Not a current user
2. unable to answer this question at this time, however we anticipate using scales that would lend themselves to statewide work.
3. 1:200- 1-400

Choices	Total
1:12,000 - 1:50,000	9
1:50,000 - 1:100,000	5
1:100,000 and above	4
1:4800 -1:12,000	4
1:600 - 1:4800	4
Comment: _____	3



Results Chart (37. As a data user, what range of scales (source...)

38. As a user, which statement reflects you willingness to use data that does not specifically state conformance to the National Map Accuracy Standard (NMAS): (CHOOSE ONLY ONE ANSWER)

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Maximum Selections: [1]
Descriptions:	Choose only one answer.
Number of Choices:	6

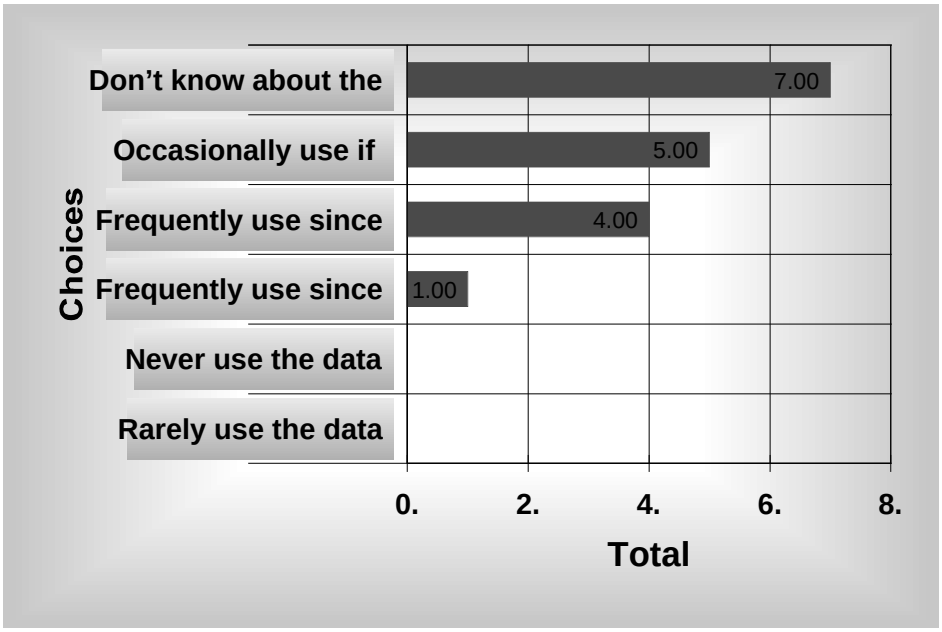
B) Results Spread

Statistics

Total	4.00
N	17

Table Sorted By Total

Choices	Total
Don’t know about the NMAS and whether the data con	7
Occasionally use if nothing else is available	5
Frequently use since nothing else is available	4
Frequently use since accuracy is not important to	1
Never use the data	0
Rarely use the data	0



Results Chart (38. As a user, which statement reflects you...)

39. What is the minimum horizontal (planimetric) accuracy to meet your needs (in ± feet).

A) Ballot

Method:	Numeric
Options:	Allow Bypass
	Range from: [0] to: [9999999999]
Descriptions:	Assign a number.

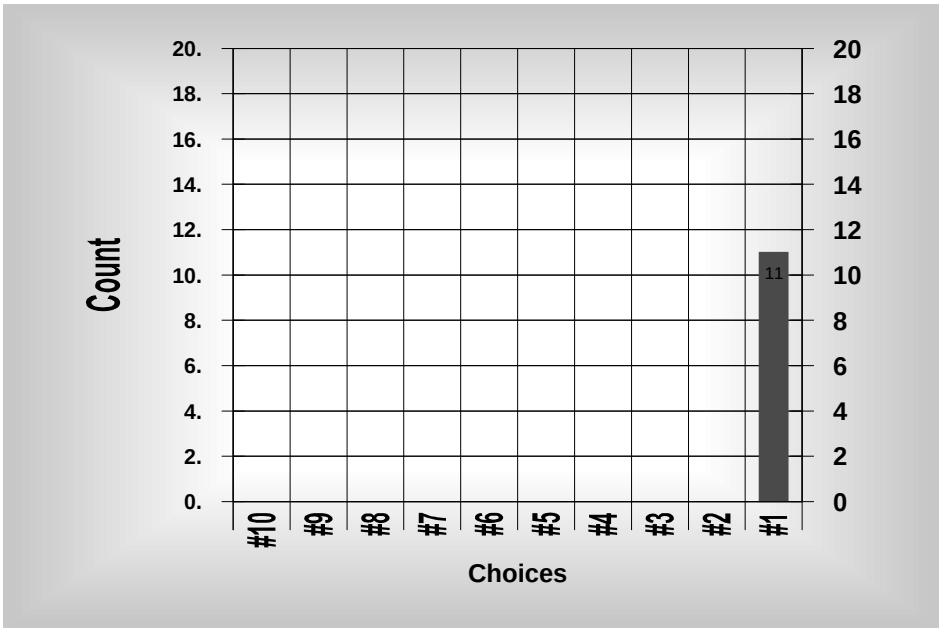
B) Results Spread

Choices	Count
#1 (0 - 999999999)	11
#2 (1000000000 - 1999999999)	0
#3 (2000000000 - 2999999999)	0
#4 (3000000000 - 3999999999)	0
#5 (4000000000 - 4999999999)	0
#6 (5000000000 - 5999999999)	0
#7 (6000000000 - 6999999999)	0
#8 (7000000000 - 7999999999)	0
#9 (8000000000 - 8999999999)	0
#10 (9000000000 - 9999999999)	0

Statistics

Total	316
Mean	28.73
Mode	50
High	50
Low	2
STD	21.67
N	17
n	11

Spread Value	Count
50	5
10	1
30	1
15	1
3	1
6	1
2	1



Results Chart (39. What is the minimum horizontal (planimetric)...)

40. What is the minimum vertical accuracy to meet your needs (in ± feet).

A) Ballot

Method:	Numeric
Options:	Allow Bypass
	Range from: [0] to: [9999999999]
Descriptions:	Assign a number.

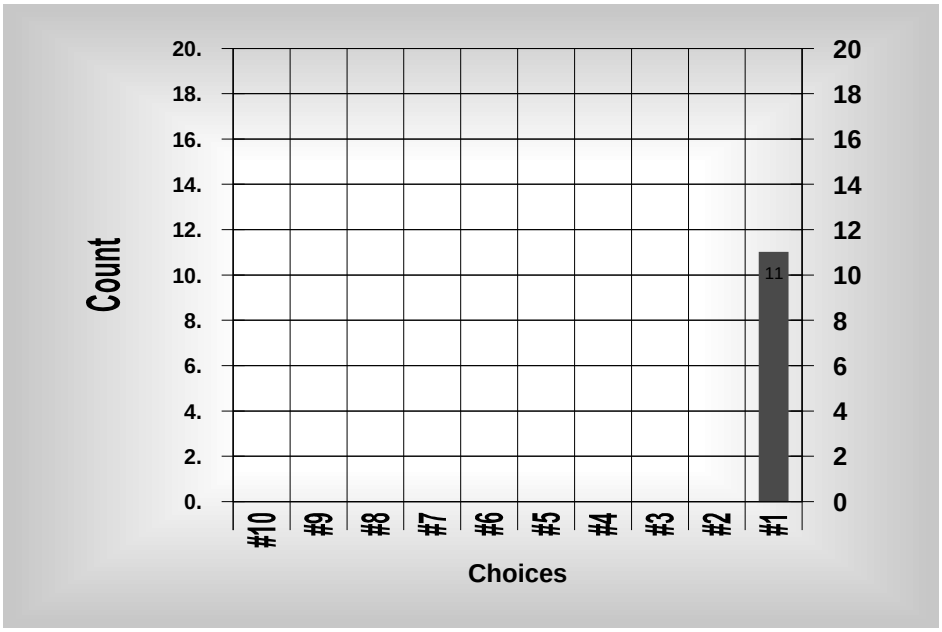
B) Results Spread

Choices	Count
#1 (0 - 999999999)	11
#2 (1000000000 - 1999999999)	0
#3 (2000000000 - 2999999999)	0
#4 (3000000000 - 3999999999)	0
#5 (4000000000 - 4999999999)	0
#6 (5000000000 - 5999999999)	0
#7 (6000000000 - 6999999999)	0
#8 (7000000000 - 7999999999)	0
#9 (8000000000 - 8999999999)	0
#10 (9000000000 - 9999999999)	0

Statistics

Total	252
Mean	22.91
Mode	??
High	50
Low	2
STD	18.92
N	17
n	11

Spread Value	Count
5	1
10	3
30	1
15	1
50	3
20	1
2	1



Results Chart (40. What is the minimum vertical accuracy to meet...)

41. Is there any need to store previous versions of data sets uploaded by data providers, in order to maintain historical versions of data on-line? (CHOOSE ONLY ONE ANSWER)

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass Maximum Selections: [1]
Descriptions:	Choose only one answer.
Number of Choices:	3

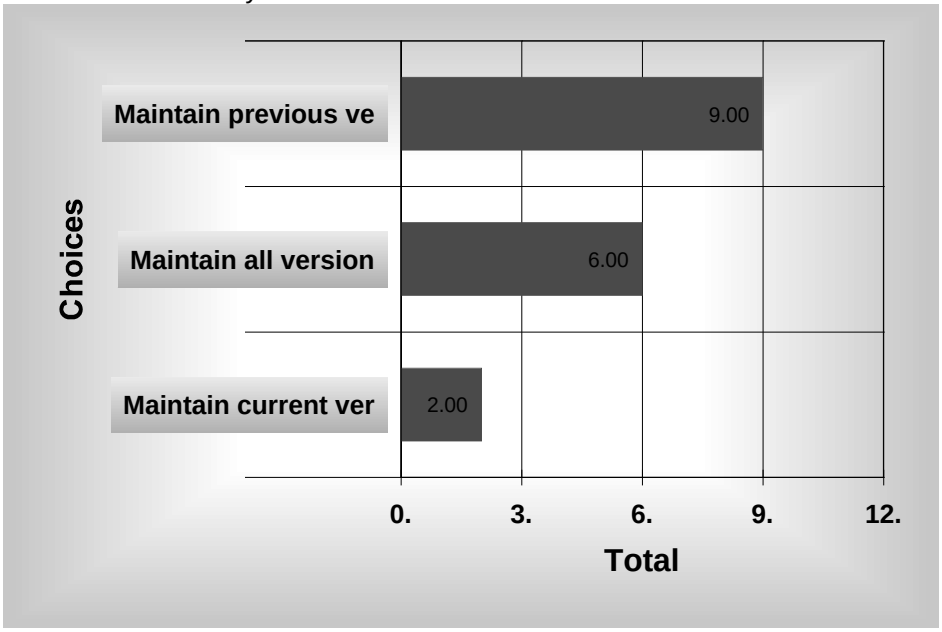
B) Results Spread

Statistics

Total	3.00
N	17

Table Sorted By Total

Choices	Total
Maintain previous version and current version	9
Maintain all versions indefinitely	6
Maintain current version only	2



Results Chart (41. Is there any need to store previous versions of...)

42. What would be the most logical methods to identify the previous versions of the data? (CHOOSE ONLY ONE ANSWER)

A) Ballot

Method:	Multiple Selection
Options:	Allow Bypass
	Enter Text for Last Choice
	Maximum Selections: [1]
Descriptions:	Choose only one answer.
Number of Choices:	3

B) Results Spread

Statistics

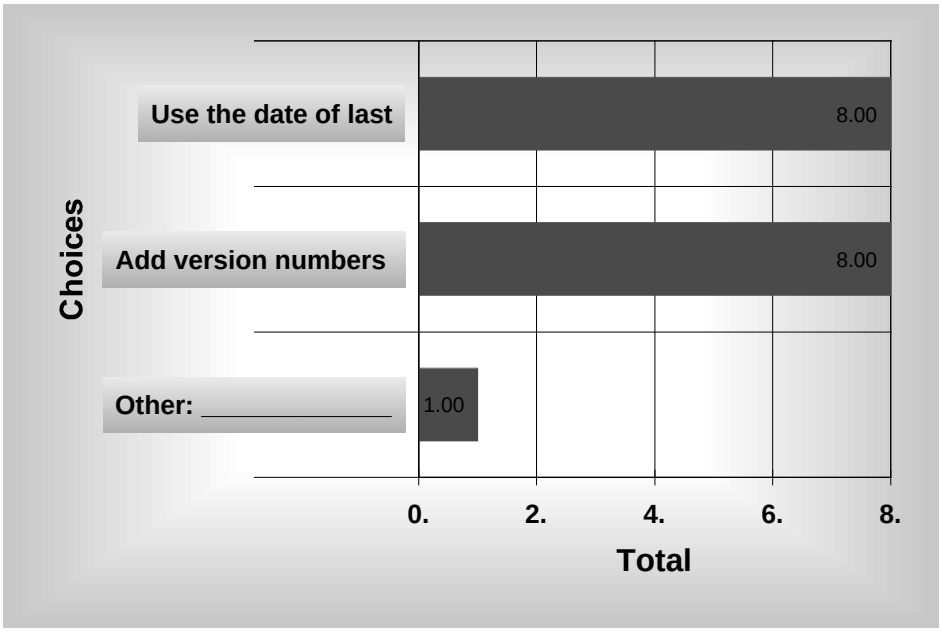
Total	3.00
N	17

Table Sorted By Total

C) Text Responses

1. use date of last revision and consistently name the data for easy identification

Choices	Total
Use the date of last revision in the metadata to d	8
Add version numbers to data sets similar to softwa	8
Other: _____	1



Results Chart (42. What would be the most logical methods to...)