

## APPENDIX: SURVEY INSTRUMENT

Q1 What WSU college are you in?

- Medicine
- Nursing
- Pharmacy
- Other \_\_\_\_\_

Q2 How many years have you been involved in conducting research? This includes both research conducted at WSU and at other institutions or agencies.

- 0-2 years
- 3-5 years
- 6-9 years
- 10 or more years

Q3 What is your position on campus?

- Clinical faculty
- Research faculty
- Adjunct faculty
- Post-doctorate fellow
- Graduate student

Q4 What is the source of funding for your research? (NIH, NSF, CDC, WSU, Department of Health, etc.)

---

Q5 Does your research have a data management plan (DMP)?

- I don't know what a data management plan is
- I don't know if my project has a data management plan
- My project does not have a data management plan
- A data management plan was written as part of the grant application but has not been updated
- My project has a data management plan that covers the duration of the research
- My project has a data management plan that extends beyond completion of the research
- Other (please specify): \_\_\_\_\_

Q6 Does your research have a data safety monitoring board (DSMB)?

- Yes
- No
- I don't know

Q7 What format of data does your research generate?

	Yes	No
Geographic Information Systems/GIS (.gpx, .kml)	<input type="radio"/>	<input type="radio"/>

Computer aided design/CAD (.dwg, .dxf, .pln)	<input type="radio"/>	<input type="radio"/>
Matlab (.m, .mat)	<input type="radio"/>	<input type="radio"/>
Audio (.aiff, .mp3, .wav)	<input type="radio"/>	<input type="radio"/>
Web (.html, .xhtml)	<input type="radio"/>	<input type="radio"/>
Scripts or code	<input type="radio"/>	<input type="radio"/>
Video (.avi, .mov, .mp4)	<input type="radio"/>	<input type="radio"/>
Database (.db, .mdb, .pdb, .sql)	<input type="radio"/>	<input type="radio"/>
Statistical/SAS, SPSS (.sav, .sdq, .spv)	<input type="radio"/>	<input type="radio"/>
Image (.gif, .jpg, .png, .svg, .tif)	<input type="radio"/>	<input type="radio"/>
Scanned documents (.pdf)	<input type="radio"/>	<input type="radio"/>
Data (.csv, .dat, .xml)	<input type="radio"/>	<input type="radio"/>
Spreadsheet (.wks, .xls)	<input type="radio"/>	<input type="radio"/>
Text (.doc, .docx, .rtf, .txt)	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>
I don't know	<input type="radio"/>	<input type="radio"/>

Q8 How much research data do you typically generate?

- >1 gigabyte
- 1 - 50 gigabytes
- 51 - 100 gigabytes
- 101 - 500 gigabytes
- 501 gigabytes - 1 terabytes
- Multiple terabytes
- Unsure
- Does not apply

Q9 What tools do you use to record the data generated by your research?

	Yes	No
Paper lab notebook	<input type="radio"/>	<input type="radio"/>
Electronic lab notebook	<input type="radio"/>	<input type="radio"/>
Electronic documents (Word documents, Excel spreadsheets, etc.)	<input type="radio"/>	<input type="radio"/>
Database software (Microsoft Access, etc.)	<input type="radio"/>	<input type="radio"/>
Electronic data capture system (REDCap, etc.)	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>

Q10 How are your data described?

	Yes	No
Metadata	<input type="radio"/>	<input type="radio"/>
Standard Operating Procedures (SOPs)	<input type="radio"/>	<input type="radio"/>
Data dictionary	<input type="radio"/>	<input type="radio"/>
Codebook(s)	<input type="radio"/>	<input type="radio"/>
Laboratory notebooks (paper or electronic)	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>

Q11 What are your greatest challenges for **organizing** your research data?

	Yes	No
Lack of standards	<input type="radio"/>	<input type="radio"/>
Inconsistency between researchers	<input type="radio"/>	<input type="radio"/>
Storage issues	<input type="radio"/>	<input type="radio"/>
Regulatory compliance issues	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>

Q12 Where do you store your data?

	Yes	No
Paper or electronic lab notebook(s)	<input type="radio"/>	<input type="radio"/>
Flash drive or hard drive	<input type="radio"/>	<input type="radio"/>
Cloud-based storage (iCloud, Dropbox, Amazon S3, etc.)	<input type="radio"/>	<input type="radio"/>
CD-ROM/DVD-ROM/Blu-ray	<input type="radio"/>	<input type="radio"/>
Personal computer	<input type="radio"/>	<input type="radio"/>
Lab computer	<input type="radio"/>	<input type="radio"/>
Institutional server	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>

Q13 What are your greatest challenges to **storing and accessing** your data during the research process?

	Yes	No
Security	<input type="radio"/>	<input type="radio"/>
Interoperability	<input type="radio"/>	<input type="radio"/>
Inconsistencies between research team members	<input type="radio"/>	<input type="radio"/>
Software obsolescence	<input type="radio"/>	<input type="radio"/>
Hardware obsolescence	<input type="radio"/>	<input type="radio"/>
Lack of digital space	<input type="radio"/>	<input type="radio"/>
Lack of physical space	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>

Q14 What methods do you use to secure and protect your research data?

	Yes	No
Password-protection on computers and/or files	<input type="radio"/>	<input type="radio"/>
Access restrictions to computers and/or files	<input type="radio"/>	<input type="radio"/>
Encryption	<input type="radio"/>	<input type="radio"/>
Physical safe	<input type="radio"/>	<input type="radio"/>
Network security	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>

Q15 Do you intend to make your research data publicly available at the conclusion of your research project?

- Yes
- No
- Unsure

*Display This Question:*

*If Q15 = No*

*And Q15 = Unsure*



Q16 What are your reason(s) for not making your research data publicly available at the conclusion of your research project?

	Yes	No
Privacy or protection of subjects	<input type="radio"/>	<input type="radio"/>
Data require secure/restricted access	<input type="radio"/>	<input type="radio"/>
Data might be misinterpreted/misused	<input type="radio"/>	<input type="radio"/>
To protect my intellectual property rights	<input type="radio"/>	<input type="radio"/>
Might not get credit (e.g. citation, acknowledgement, authorship)	<input type="radio"/>	<input type="radio"/>
Requires too much time/effort	<input type="radio"/>	<input type="radio"/>
Not licensed to share data	<input type="radio"/>	<input type="radio"/>
Data of little value to others	<input type="radio"/>	<input type="radio"/>
I don't know where to share it	<input type="radio"/>	<input type="radio"/>
Commercialization/patent concerns	<input type="radio"/>	<input type="radio"/>
No repository exists for my type of data	<input type="radio"/>	<input type="radio"/>
Other	<input type="radio"/>	<input type="radio"/>

*Display This Question:*

*If Q15 = Yes*

Q17 How do you prefer to share your data with others outside your research team?

	Yes	No
Email	<input type="radio"/>	<input type="radio"/>
Flash drive	<input type="radio"/>	<input type="radio"/>
Social media (Twitter, etc.)	<input type="radio"/>	<input type="radio"/>
Personal website (WordPress, etc.)	<input type="radio"/>	<input type="radio"/>
Institutional repository – WSU Research Exchange	<input type="radio"/>	<input type="radio"/>
Other institutional repository	<input type="radio"/>	<input type="radio"/>
Discipline-specific repository	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>

Q18 For how long after the research project is complete do you think your data should be accessible and usable?

- 0 years
- 1-3 years
- 4-5 years
- 6-10 years
- 10 or more years

Q19 In what area(s) would you most like to improve your research data management practices?

	Yes	No
Data generation and collection	<input type="radio"/>	<input type="radio"/>
Data recording and processing	<input type="radio"/>	<input type="radio"/>
Data preservation and back-up	<input type="radio"/>	<input type="radio"/>
Data publication and sharing	<input type="radio"/>	<input type="radio"/>

Q20 Please indicate your perceptions regarding the following statements.

	Strongly agree	Somewhat agree	Neither agree nor disagree	Somewhat disagree	Strongly disagree
My research project closely adheres to the policies outlined in my data management plan.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having established experimental workflows/protocols is good for the reproducibility of my research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Someone should be responsible for data management <b>during</b> the research process.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Someone should be responsible for data management <b>after</b> the research process is complete.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe it is important to openly share my data with others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q21 What existing data services do you currently access here at WSU Spokane, if any?

	Yes (1)	No (2)
LibGuide for "Data Management Plans"	<input type="radio"/>	<input type="radio"/>
Librarian consultation	<input type="radio"/>	<input type="radio"/>
Institutional repository (WSU Research Exchange)	<input type="radio"/>	<input type="radio"/>
Other (please specify):	<input type="radio"/>	<input type="radio"/>

Q22 If training and support were to be provided by the Spokane Academic Library to assist you with research data management, which of the following services would you be likely to use?

	Likely (1)	Unsure (2)	Unlikely (3)
One-on-one training	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1-hour <b>in-person</b> workshops on specific topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1-hour <b>online</b> workshops on specific topics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Structured series of <b>in-person</b> workshops	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Structured series of <b>online</b> workshop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A half-day in-person workshop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A one-day in-person workshop	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A data consultation at the start of my research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An online self-guided series of training modules	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
An online self-guided tutorial	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q23 Do you have any additional comments you would like to provide?

---