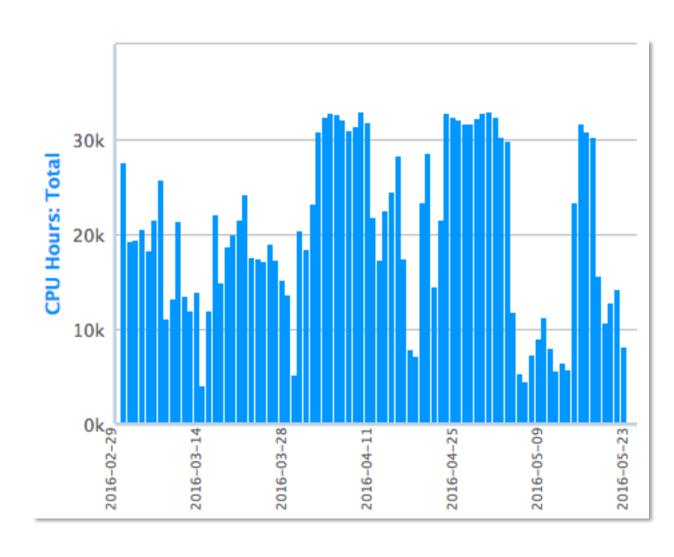




XDMoD Stats - March 1 to May 23

- XDMoD Stats
 - Active Users: 35
 - Total Jobs: 85,409
 - Total CPU Hours: 1,687,511
 - Average Job: 19.86 hours
 - Average Wait Time: 20 hours

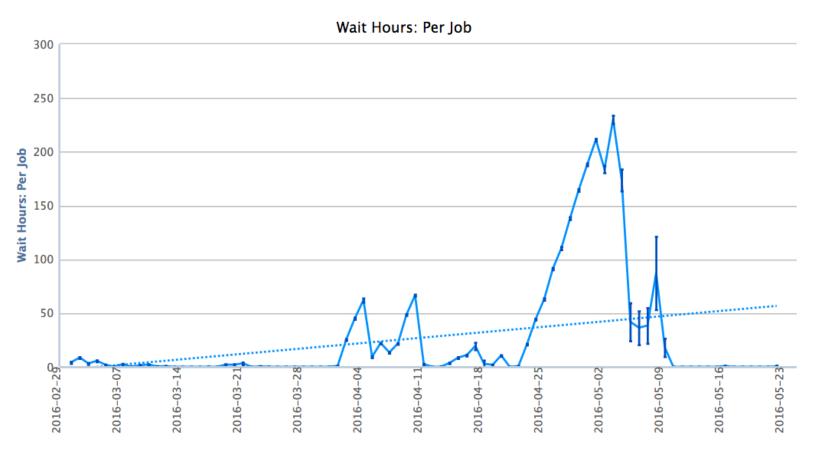






Deep Queue in April

- The queue was >9k jobs deep in April
- Mostly a single user
- Showed problems with fairshare algorithm
 - Users needed "accounts"
 - Should we set a "max queued jobs"?





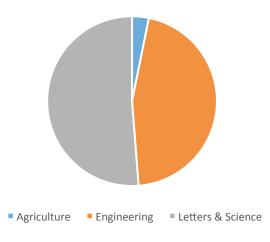


Student Jobs are 57% of cluster hours

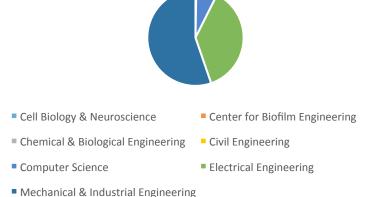
Total CPU Hours*	7,943,855.90	
Student CPU Hours	4,542,543.47	57.18%
Graduate Hours	4286823.095	53.96%
Undergrad Hours	255720.3727	3.22%

Agriculture	144795.6186
GR	143757.9059
UG	1037.7127
Engineering	2070747.756
GR	2070061.8
UG	685.9562
Letters & Science	2327000.094
GR	2073003.39
UG	253996.7038
Grand Total	4542543.468

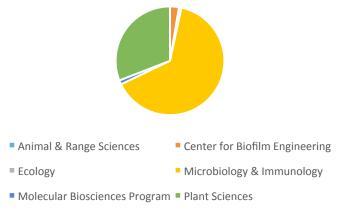




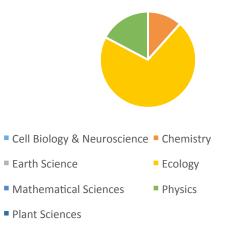
Engineering Dept Student CPU Hours



Agriculture Dept Student CPU Hours



Letters & Science Dept Student CPU Hours





^{*} For all time, since cluster installation



New Hyalite Researcher

Professor Joe Atwood

- Agricultural Economics Professor
- Onboarded on Hyalite and Setup R environment and Rstudio modules
- The weather data contains monthly total prcp and monthly average daily temp data for the years 1900-2009
- Work is pleasantly parallel on millions of linear calculations





Cluster Expansion Update

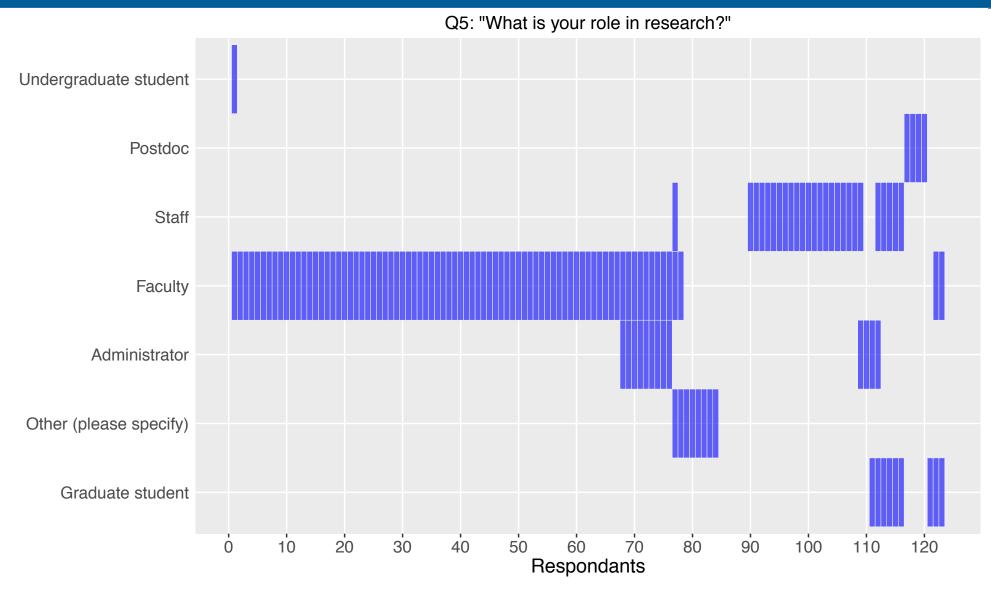
- 16 Nodes finalizing in New Jersey facility
 - Shipped late from Supermicro
 - Network Brackets were wrong
 - Should ship this week to us

- High CPU, RAM, I/O Node Quote
 - Quad E5-4648v3 CPU (96 HT)
 - 512GB RAM (1TB max)
 - 1TB Local SSD
 - \$18,000
 - ~4x power, ~3.5x cost of one node



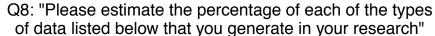


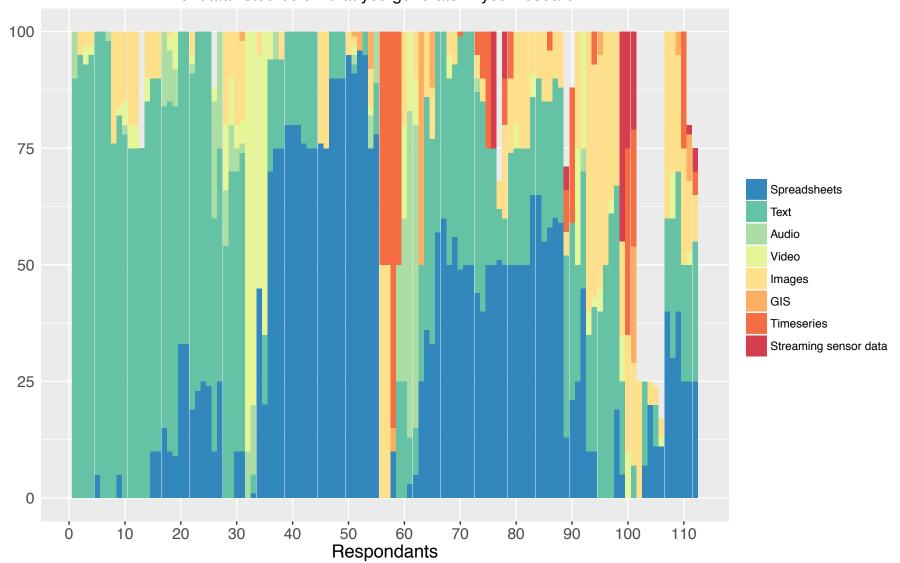
Research Data Census 2 (RDC2): Demographics





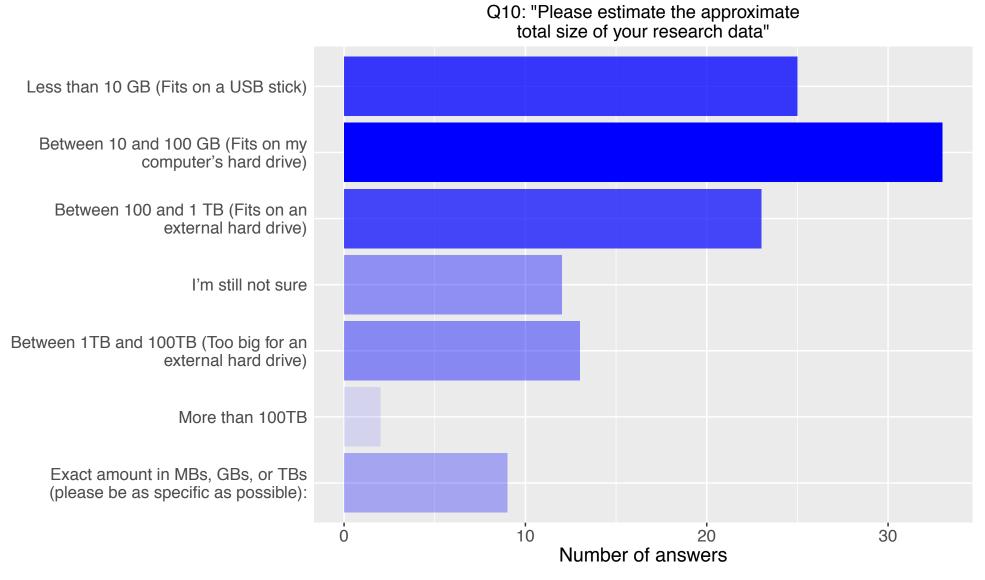
RDC2: Types of Data





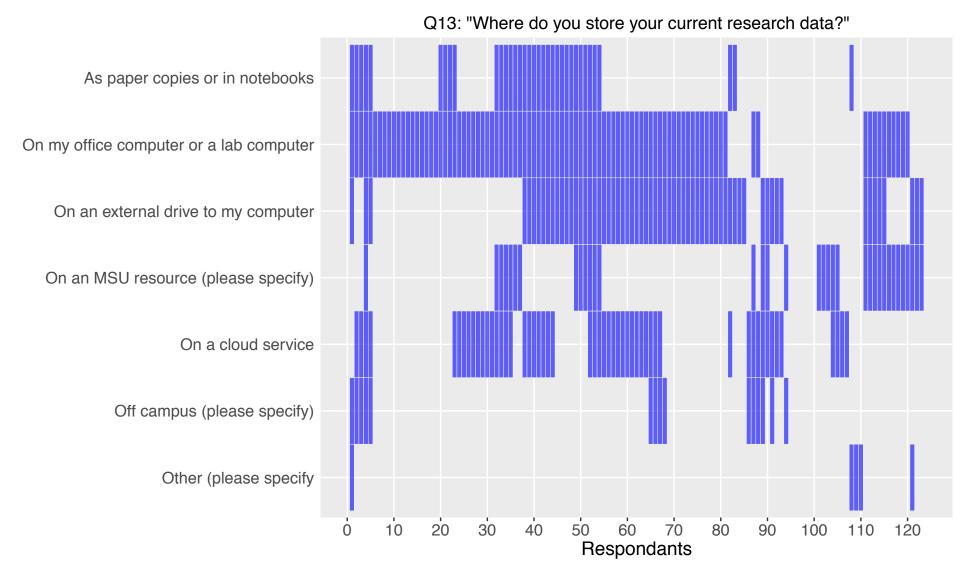


RDC2: Digital Research Data Size





RDC2: Where Do You Store Your Data

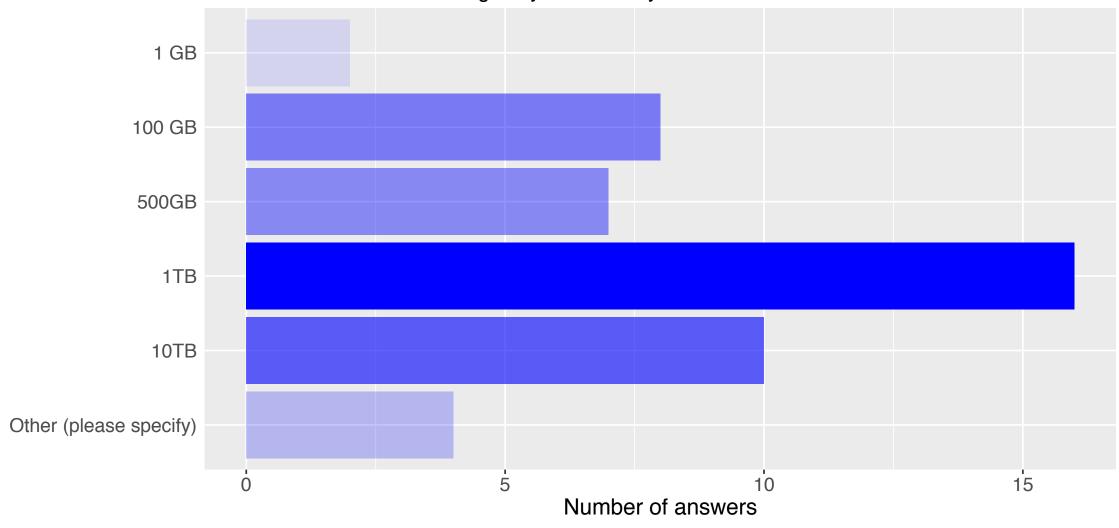






RDC2: Long Term Storage Archive Size

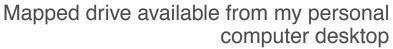
Q22: "What initial size would be optimal for long-term storage of your scholarly works or research data?"





RDC2: How Access Long Term?

Q23: "What would be the easiest way for you to access data in long term storage?"

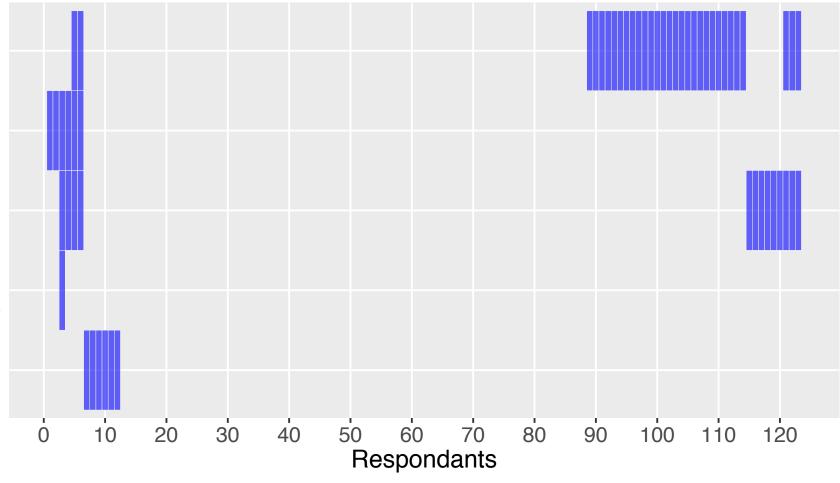


Access via file transfer protocol

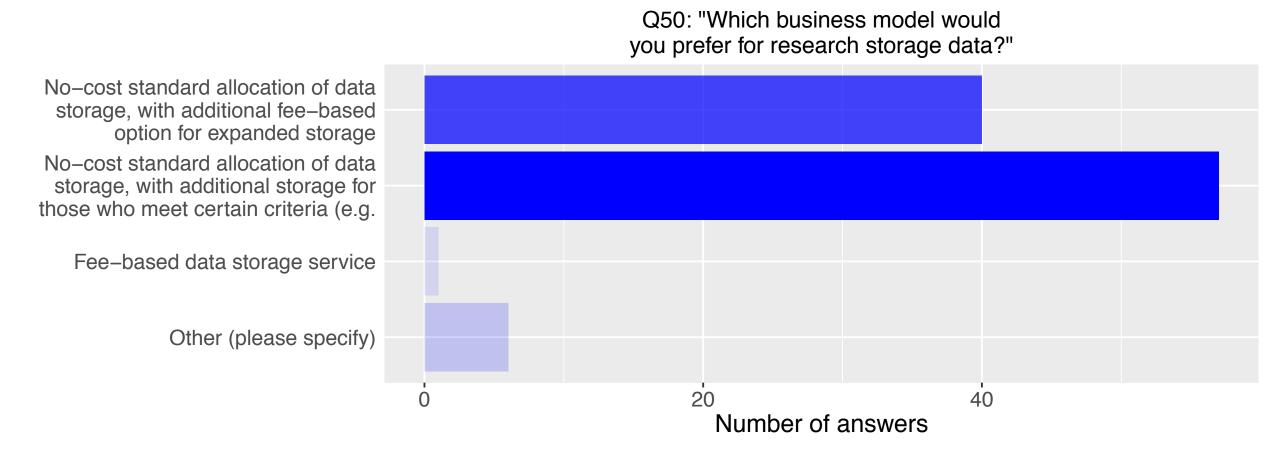
Access via the web

Access via a third party client software I would need to install on my personal computer

No preference











Research Focus Group

- Two focus groups were held in May, predominantly faculty participants.
- Insights
 - Concern expressed about "finding" institutional data assets.
 - Consistent view with RDC2 that long term archive should be centrally supported.
 - How data was uploaded seemed to be of little concern.
- Next Steps
 - Synthesis of RDC and Data Focus Groups.
 - RFP Team named in June, development of technical requirements.
 - July target data for RFP to be published.





Data Science Competition

- Open to students from all disciplines
- Students are invited to solve a data-rich problem through visualization and/or number crunching
- Currently working with the Office of Sustainability
- Competition around optimum deployment of new and existing bike racks across campus, taking into account pedestrian traffic, bike traffic, sidewalks and building locations, building occupancy
- ETA: Early Fall 2016

