A DATA-BASED ASSESSMENT OF RESEARCH-DOCTORATE PROGRAMS

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National Research Council

Pre-pub version available

What's Available at

www.nap.edu/rdp

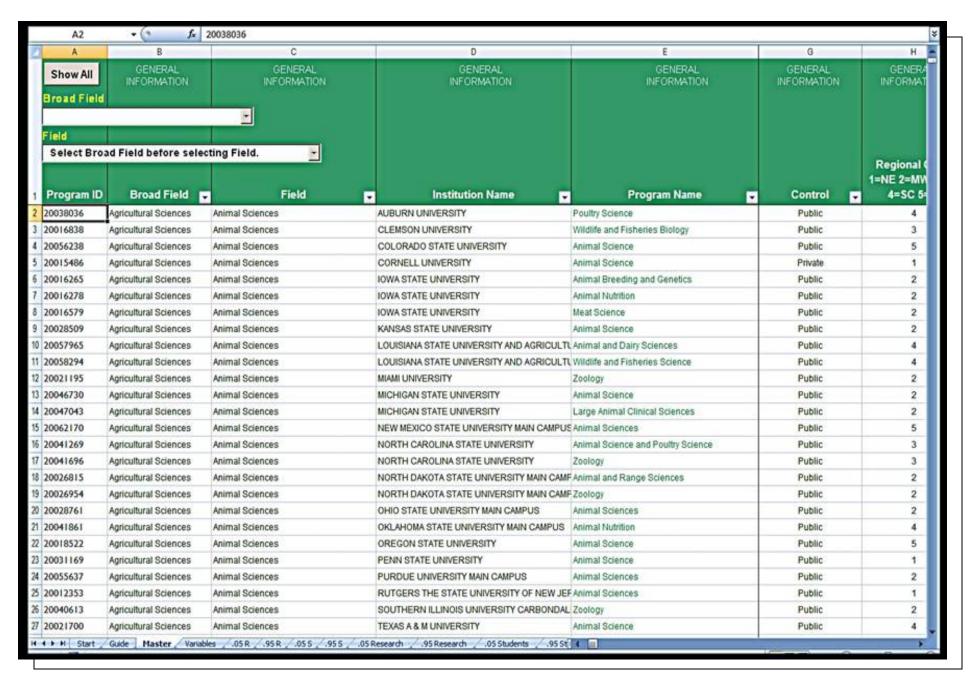
- 1. A PDF of the report, A Data-Based Assessment of Research-Doctorate Programs in the United States;
- 2. A PDF of the Revised Methodology Guide to the Data-Based Assessment of Research-Doctorate Programs in the United States (2010);
- 3. A spreadsheet in Excel that contains the data collected on each program, illustrative rankings with their ranges, and analytic tables; and
- 4. A list of Frequently Asked Questions about the study.
- 5. Demos of different ways to use the spreadsheet

Final version in February/March 2011

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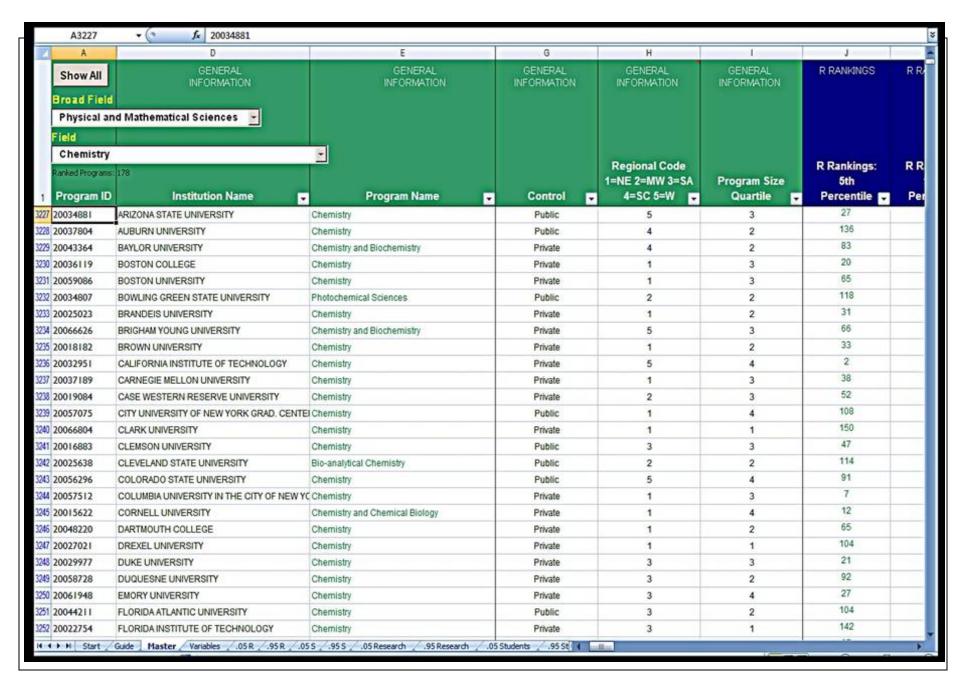
The Spreadsheet

- One big Excel spreadsheet with links to details for each program
- How do I make it manageable?



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Institution Name	R Rankings: 5th Percentile	R Rankings: 95th Percentile	S Rankings: 5th Percentile	S Rankings: 95th Percentile
	27	71	31	86
ARIZONA STATE UNIVERSITY				
	136	174	91	151
AUBURN UNIVERSITY	02	467	00	460
BAYLOR UNIVERSITY	83	167	98	160
DATEON ONIVEROIT	20	58	28	83
BOSTON COLLEGE				
	65	124	113	159
BOSTON UNIVERSITY				
BOWLING GREEN STATE JNIVERSITY	118	172	91	146
	31	86	13	46
BRANDEIS UNIVERSITY				
	66	144	62	119

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Institution Name	Research Activity: 5th Percentile	Research Activity: 95th Percentile	Student Support & Outcomes: 5th Percentile	Student Support & Outcomes: 95th Percentile	Diversity: 5th Percentile	Diversity: 95th Percentile
	19	87	35	132	57	115
ARIZONA STATE UNIVERSITY						
AUBURN UNIVERSITY	112	168	7	102	8	21
BAYLOR UNIVERSITY	131	175	2	11	32	81
ONIVERSITI	17	69	62	159	134	169
BOSTON COLLEGE	117	164	92	165	62	121
BOSTON UNIVERSITY						
	130	169	3	36	37	96
BOWLING GREEN STATE UNIVERSITY						

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TABLE 4a: 5th Percentile Dimensional Ranking Calculation: Research Activity

Institution Name: BOSTON UNIVERSITY

Program: Chemistry
Program ID: 20059086

(Col 1)	(Col 2)	(Col 3)	(Col 4)	(Col 5)	(Col 6)			
	Standardized							
		Program	Program Value	Survey-Based	Product of			
Description	Variable	Value*	with Variation†	Coefficient‡	Col 4 X Col 5			
Publications per Allocated Faculty	V1	1.364	-0.848	0.288	-0.244			
Cites per Publication	V2	2.379	0.074	0.240	0.018			
Percent Faculty with Grants	V3	55.75%	-0.233	0.329	-0.077			
Awards per Allocated Faculty	V7	0.222	-0.332	0.144	-0.048			

Program Ranking:

117of 178 programs

- † Col 4 is standardized value for the set of perturbed program values that produced the 5th percentile ranking. Standardized values have a mean of 0 and variance of 1.
- ‡ Col 5 is the survey-based weights for each variable.

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^{*} Col 3 is based on data submitted by the program or calculated from these data.

What do my programs look like?

- Click on filter icon in lower right hand corner of "Institution" column
- Uncheck "select all"
- Check the box by your institution's name
- ⇒Data for all your programs will be displayed

Approach to "errors"

- In a spreadsheet as large as ours, errors are inevitable.
- Caught some during the embargo period and revised the spreadsheet
- Provided contacts in case an error was spotted
- Will maintain a log of "institution mistakes or misunderstandings"
- Will correct NRC errors
- Will put up the revised spreadsheet week of Dec. 1
- Updating the study is important

Kinds of queries

- Genuine errors by NRC
- MPR software glitches
- IC misunderstandings of our directions
- Misrepresentation with ambiguity
- Misunderstanding of our methodology
- Disagreements with our methodology

Other resources for researchers

- Public Use Data Set
- Student Survey Data
 - 5 fields, programs with >10 students
 With a confidentiality agreement
- All the program data
- Faculty data
- Student survey data for all programs

Next Steps

- A workshop—Jan. 20
 - Analyses using the data
 - Advice on next steps
- Updating
 - Aim for every 2 years
 - Review methodology every 10 years