

## Results of Survey

### A. Comparison by Expenditure

Category	HIGH \$	MEDIUM \$	LOW \$	ALL
Number	4	26	32	62
Avg. Expenditure	\$48,260,387	\$2,564,024	\$330,329	\$4,359,301
Avg. OSU Funds	\$102,074	\$291,349	\$68,119	\$163,923
Avg. Faculty	115	15	13	21
Avg. Other PI	22	10	11	11
Avg. Graduate Students	33	19	15	18
Avg. Expenditure/OSU Funds	472.8	8.8	4.9	26.6
Avg. Expenditure/(Faculty + PI)	\$352,910	\$101,314	\$13,639	\$136,503
Avg. OSU Funds/ (Faculty +PI)	\$746	\$11,512	\$2,813	\$5,133
Avg. OSU Funds/ Graduate Students	\$3,117	\$15,211	\$4,283	\$8,931
Faculty/Graduate Students	3.50	0.80	0.82	1.12
Graduate Students/Faculty	0.29	1.25	1.22	0.89

### B. Comparison by Research Area

Category	Medicine/Biology	Engineering/Sciences	Environmental	ALL
Number	9	15	7	31
Avg. Expenditure	\$13,694,849	\$3,281,647	\$1,484,221	\$5,898,964
Avg. OSU Funds	\$182,589	\$68,667	\$158,440	\$122,012
Avg. Faculty	31	5	24	17
Avg. Other PI	8	3	13	7
Avg. Graduate Students	9	19	19	16
Avg. Expenditure/OSU Funds	75	47.79	9.37	48.35
Avg. Expenditure/(Faculty + PI)	\$353,162	\$384,568	\$39,504	\$247,119
Avg. OSU Funds/ (Faculty +PI)	\$4,709	\$8,047	\$4,217	\$5,111
Avg. OSU Funds/ Graduate Students	\$21,068	\$3,589	\$8,155	\$7,550
Faculty/Graduate Students	3.56	0.28	1.26	1.06
Graduate Students/Faculty	0.28	3.54	0.8	0.95

## Analysis of Survey Results.

### ➤ Two kinds of analysis have been attempted:

- A) Centers arranged in descending order of research expenditure and then further categorized into high (*greater than \$10 million*), medium (*between \$1-\$10 million*) and low (*less than \$ 1 million*) budget centers.
- B) Centers categorized according to the field of research (*Medicine-Biology, Engineering-Sciences and Environmental*).

### Inferences:

#### Analysis based on Research Expenditure:

- ❑ The High budget centers had many more Faculty and Staff when compared to the medium and low budget centers.
- ❑ The High budget centers also had a much higher ratio of Faculty to Graduate students.
- ❑ Medium budget centers had the lowest ratio of Faculty to Graduate students.
- ❑ The High budget centers had the highest average number of Graduate students and PI's followed by the Medium budget centers and Low budget centers.
- ❑ The High budget centers had the highest ratio of average research expenditure to OSU funds.

#### Analysis based on specific fields of research:

- ❑ Most of the centers evaluated fell into the Engineering-Sciences research category.
- ❑ The Medicine-Biology research centers had the highest Faculty to Graduate Student ratio while the Engineering-Sciences centers had the lowest ratio.

- ❑ Medicine-Biology related centers had a much higher average research expenditure budget when compared with Engineering-Sciences and Environmental centers.
- ❑ The Medicine-Biology research centers had the highest ratio of average research expenditure to OSU funds.
- ❑ The Environmental centers had the highest average number of Graduate students.
- ❑ The Medicine-Biology research centers had the highest number of average faculty.

# RESEARCH CENTER LISTINGS

## A Centers arranged according to specific *fields* of research

<b>BIOLOGY AND MEDICINE</b>		
	Name of Research Center	Research Expenditures (\$)
1	Institute for Behavioral Medicine Research	57,000,000
2	Comprehensive Cancer Center	54,050,108
3	Heart and Lung Research Institute	4,900,000
4	Retrovirus Research, Center for	3,300,000
5	Neurobiotechnology Center	2,718,531
6	Ohio Valley Center for Brain Injury Prevention and Rehabilitation	900,000
7	Bacillus Genetic Stock Center	200,000
8	Radiogenic Isotope Laboratory	180,000
9	Animal Genetics Lab	5,000
	<b>TOT</b>	<b>123,253,639</b>
	<b>AVG</b>	<b>13,694,849</b>
	<b>SDEV</b>	<b>23,784,572</b>
<b>ENGINEERING AND SCIENCES</b>		
	Name of Research Center	Research Expenditures (\$)
1	Transportation Research Center of Ohio	29,991,441
2	ElectroScience Laboratory	4,200,000
3	Automotive Research and Intelligent Transportation, Center for	3,172,268
4	Institute for Ergonomics	2,800,000
5	Advanced Polymer and Composite Engineering, Center for	1,500,000
6	Fontana Corrosion Center	1,500,000
7	Gas Turbine Lab	1,500,000
8	Aviation Research and Aerospace Technology, Center for	1,225,000
9	Information Processing Systems Laboratory	1,200,000
10	Engineering Research Center for Net Shape Manufacturing	700,000
11	Graphics and Animation Laboratory	500,000
12	Gear Dynamics and Gear Noise Research Laboratory	450,000
13	Van de Graaff Laboratory	450,000
14	Excellence in Manufacturing Management, Center for	25,000
15	Low Temperature Physics Lab	11,000
	<b>TOT</b>	<b>49,224,709</b>
	<b>AVG</b>	<b>3,281,647</b>
	<b>SDEV</b>	<b>7,484,880</b>
<b>ENVIRONMENTAL</b>		
	Name of Research Center	Research Expenditures (\$)
1	Byrd Polar Research Center	4,589,547
2	Mapping, Center for	2,250,000

3	Lake Erie Area Research, Center for	1,500,000
4	Aquatic Ecology Lab	900,000
5	Ohio Water Resources Center	600,000
6	Ohio Center for Wetland and River Restoration	300,000
7	Program in Spatial Statistics and Environmental Sciences	250,000
	<b>TOT</b>	<b>10,389,547</b>
	<b>AVG</b>	<b>1,484,221</b>
	<b>SDEV</b>	<b>1,542,647</b>

**B      Research Centers arranged in *Descending Order* of their Research Expenditure**

	<b>Name of Research Center</b>	<b>Research Expenditures (\$)</b>
#1	Institute for Behavioral Medicine Research	\$57,000,000
2	Comprehensive Cancer Center	\$54,050,108
<b>HIGH \$</b>	Ohio Agricultural Research and Development Center	\$52,000,000
4	Transportation Research Center of Ohio	\$29,991,441
	<b>AVG</b>	<b>\$48,260,387</b>
	<b>SDEV</b>	<b>\$10,696,270</b>
#1	Special Needs Populations, Center for	\$5,100,000
2	Heart and Lung Research Institute	\$4,900,000
3	Eisenhower Clearinghouse for Science and Mathematics Education	\$4,717,520
4	Byrd Polar Research Center	\$4,589,547
5	Education and Training for Employment, Center for	\$4,241,752
6	ElectroScience Laboratory	\$4,200,000
7	Mershon Center for International Security Studies	\$3,500,000
8	Retrovirus Research, Center for	\$3,300,000
9	Automotive Research and Intelligent Transportation, Center for	\$3,172,268
10	Institute for Ergonomics	\$2,800,000
11	Neurobiotechnology Center	\$2,718,531
12	National Regulatory Research Institute	\$2,700,000
13	Mapping, Center for	\$2,250,000
14	Accelerated Maturation of Materials, Center for	\$2,150,000
<b>MEDIUM \$</b>	Piketon Research and Extension Center (OSU Centers at Piketon)	\$2,000,000
16	Advanced Polymer and Composite Engineering, Center for	\$1,500,000
17	Cognitive Science, Center for	\$1,500,000
18	Fontana Corrosion Center	\$1,500,000
19	Gas Turbine Lab	\$1,500,000
20	Lake Erie Area Research, Center for	\$1,500,000
21	Ohio State Carbonation and Ash Reactivation	\$1,400,000
22	Aviation Research and Aerospace Technology, Center for	\$1,225,000
23	Information Processing Systems Laboratory	\$1,200,000
24	Advanced Computing Center for the Arts and Design	\$1,000,000
25	Campus Chemical Instrument Center	\$1,000,000
26	Materials Preparation Facility	\$1,000,000
	<b>AVG</b>	<b>\$2,564,024</b>
	<b>SDEV</b>	<b>\$1,338,786</b>

#1	Survey Research, Center for	\$980,000
<b>LOW \$</b>	Aquatic Ecology Lab	\$900,000
3	Ohio Valley Center for Brain Injury Prevention and Rehabilitation	\$900,000
4	Advanced Materials and Manufacturing of Automotive Components, Center for	\$845,000
5	Industrial Sensors and Measurement, Center for	\$750,000
6	Engineering Research Center for Net Shape Manufacturing	\$700,000
7	Ohio Water Resources Center	\$600,000
8	Graphics and Animation Laboratory	\$500,000
9	Biostatistics, Center for	\$484,524
10	Advanced Food Processing and Packaging Studies, Center for	\$450,000
11	Gear Dynamics and Gear Noise Research Laboratory	\$450,000
12	Van de Graaff Laboratory	\$450,000
13	Ohio Center for Wetland and River Restoration	\$300,000
14	Urban and Regional Analysis, Center for	\$300,000
15	Microscopic and Chemical Analysis Research Center	\$275,000
16	Program in Spatial Statistics and Environmental Sciences	\$250,000
17	Bacillus Genetic Stock Center	\$200,000
18	Criminal Justice Research Center	\$200,000
19	Radiogenic Isotope Laboratory	\$180,000
20	Campus Microscopy and Imaging Facility	\$150,000
21	Real Estate Education and Research, Center for	\$150,000
22	International Business Education and Research, Center for	\$125,000
23	John Glenn Institute for Public Service and Public Policy	\$100,000
24	Borror Lab of Bioacoustics	\$90,000
25	Institute for Collaborative Research and Public Humanities	\$60,000
26	Latin American Studies, Center for	\$55,000
27	Folklore Studies, Center for	\$40,000
28	Medieval and Renaissance Studies, Center for	\$30,000
29	Excellence in Manufacturing Management, Center for	\$25,000
30	Law, Policy, and Social Science, Center for	\$15,000
31	Low Temperature Physics Lab	\$11,000
32	Animal Genetics Lab	\$5,000
		<b>AVG \$330,329</b>
		<b>SDEV \$301,973</b>
		<b>Research Expenditures (\$)</b>
		<b>TOT AVERAGE = \$4,248,249</b>