Annual Financial Report to the University

Fiscal Year 1978

TABLE 1 LARS RESEARCH FUNDING

July 1, 1977 to June 30, 1978

Project Title	Sponsor	Expenditures
- Research in Remote Sensing of Agriculture, Earth Resources, and the Environment	National Aeronautics and Space Administra- tion	\$ 653,504
- Research in Remote Sensing of Agriculture, Earth Resources, and the Environment	National Aeronautics and Space Administra- tion	504,268
 The Application of Remote Sensing Tech- nology to the Solution of Problems in the Management of Resources in Indiana 	National Aeronautics and Space Administra- tion	195,998
- Project to Develop an Operational Forest Resource Information System	National Aeronautics and Space Administra- tion	109,683
- Thermal Behavior of Dispersive Electrodes	New Dimensions in Medicine Corporation	97,622
 Technical Coordination and Implementation of Remote Sensing Experiments for Analogous Vegetative Areas in the U.S. and the Soviet Union 	National Aeronautics and Space Administra- tion	76,061
- Optical Detection of Neonatal Jaundice (II)	National Institute of Health, H.E.W.	67,482
 Indiana State University Earth Resources Data Processing Remote Terminal Support 	Indiana State University	52,378
- Preprocessing and Analysis of Geophysical Remote Sensing Data	National Science Foundation	50,857
- Mapping of Derelict Mine Land in South- western Indiana	Department of National Resources, Division of Reclamation, State of Indiana	49,951
- Visiting Scientist Program	Participants' Sponsors	46,833
 A Study of the Feasibility of Using a Cyber/Icon System as the Nucleus of an Experimental Agriculture Data Center 	Control Data Corporation	44,419
- Central American Project	Inter-American Develop- ment Bank	43,500
 Synthetic Aperature Radar Data Registration System Study 	Wallops Flight Center	33,034
- Wallops Flight Center Earth Resources	Wallops Flight Center	8,642
Data Processing Remote Terminal Support - Digital Processing of Landsat MSS and Topographic Data to Improve Capabilities for Computerized Mapping of Forest	National Aeronautics and Space Administra- tion	30,563
Cover Types - Short Course	Participants' Sponsors	25,000

TABLE 1 Continued

- Ohio River Basin Energy Study	Environmental Protection Agency	18,243
 A Proposal for Goddard Space Flight Center Earth Resources Data Pro- cessing Remote Terminal Support 	Goddard Space Flight Center	10,344
- A Proposal for Goddard Space Flight Center Earth Resources Data Pro- cessing Remote Terminal Support	Goddard Space Flight Center	10,007
- Goddard Space Flight Center Earth Resources Data Processing Remote Terminal Support	Goddard Space Flight Center	3,511
- Conversion of the Brazilian Landsat CCT Format to NASA Landsat CCT Format	U.S. Agency for Inter- national Development	8,382
- Technical Assistance for the Imple- mentation of Selected LARSYS Pro- cessors in a Bolivian Computer Facility - Phase III	Bolivian ERTS Program	8,218
 Technical Assistance for the Implementation of Selected LARSYS Processors in a Bolivian Computer Facility 	U.S. Agency for Inter- national Development	3,246
- Digital Agricultural Mapping of the Santa Cruz, Bolivia Integrated Sub- Region (A Follow-On Cooperative Project between the ERTS/Bolivia Program and LARS/Purdue)	ERTS/Bolivia Program	1,928
- Field Measurements of the Spectral Response of Water Bodies for Cor- relation with Multispectral Classi- fication of LANDSAT MSS Data	South-Central Michigan Planning Council	7,865
 Evaluation of Usefulness of Classified MSS Data in Inventorying Natural Re- sources in Saudi Arabia 	Joint U.S./Saudi Arabian Commission on Economic Cooperation	6,173
 Urban and Natural Resource Classi- fication by Digital Image Processing 	U.S. Geological Survey	3,911
- Republic of China	Economic Counselor of the Embassy of the Republic of China	3,245
- Soil Survey of the Winkleman, Arizona Area	Bureau of Land Management	619
 Bureau of Land Management Evaluation of Cities Service Minerals Corporation Remote Sensor Data 	Bureau of Land Management Cities Service Minerals Corporation	599 482
corporation Remote Sensor Data	· ·	

TOTAL RESEARCH FUNDING

\$2,176,568

TABLE 2

LARS RESEARCH EXPENDITURES

July 1, 1977 to June 30, 1978

Salaries:

Engineering Agriculture Science HSSE	\$427,801 234,274 53,801 12,425	
		\$ 728,301
Fringe Benefits Overhead Computer Travel Supplies Capital	\$ 83,796 461,540 636,948 67,742 181,260 16,981	
		\$1,448,267
TOTAL RESEARCH EXPEND	ITURES	\$2,176,568

TABLE 2A ENGINEERING RESEARCH EXPENDITURES

July 1, 1977 to June 30, 1978

		EES	CHM	CE	EE	<u> </u>	ME	NUCL	IDE	BIOMED	TOTAL
Salaries	\$	226,816	\$1,685	\$2,708	\$164,912	\$1,166	\$20,196	\$3,250	\$371	\$ 6,697	\$ 427,801
Fringe Benefits		22,765	3	448	18,098	15	1,105	409	21	733	43,597
Overhead		136,486	1,070	1,855	108,694	799	13,292	2,226	254	4,525	269,201
Computer		636,948			-		•	ŕ		•	636,948
Trave1		67,135	18		119		54			416	67,742
Supplies		184,937			147		50	(2,453)		1,763	184,444
Capital		16,981									16,981
Tota1	\$1	,292,068	\$2,776	\$5,011	\$291,970	\$1,980	\$34,697	\$3,432	\$646	\$14,134	\$1,646,714

TABLE 2B

AGRICULTURE RESEARCH EXPENDITURES

July 1, 1977 to June 30, 1978

		Forestry and	
	Agronomy	Natural Resources	Total
Salaries	\$178,029	\$ 56,245	\$234,274
Fringe Benefits	25 , 823	8,317	34,140
Overhead	116,676	36,752	153,428
Computer		ŕ	,
Travel			
Supplies	(2,365)	(680)	(3,045)
Capital			·
Tota1	\$318,163	\$100,634	\$418,797

TABLE 2C
SCIENCE RESEARCH EXPENDITURES

July 1, 1977 to June 30, 1978

	Geoscience	Computer	<u>Statistics</u>	<u>Total</u>
Salaries Fringe Benefits	\$ 20,202 1,843	\$5,946 9	\$27,653 1,314	\$53,801 3,166
Overhead Computer Travel	13,429	3,846	18,001	35,276
Supplies Capital	(139)			(139)
Total	\$35,335	\$9,801	\$46,968	\$92,104

TABLE 2D

HSSE RESEARCH EXPENDITURES

July 1, 1977 to June 30, 1978

	Communication	<u>Total</u>
Salaries Fringe Benefits Overhead Computer Travel Supplies Capital	\$12,425 2,893 3,635	\$12,425 2,893 3,635
Total	\$18,953	\$18,953

TABLE 3

LARS GENERAL FUND ALLOCATION

July 1, 1977 to June 30, 1978

Allocation:

Recurring Non-Recurring	\$122,228 12,152	
		\$134,380

Expenditures:

Salaries	\$ 90,711
Supplies	33,634
Travel	124
Computer	6,377
Capital	3,534
=	

\$134,380

Balance -O-

TABLE 4

LARS SYSTEM SERVICES

July 1, 1977 to June 30, 1978

Income:

LARS Research LARS System Services LARS Administration Other Purdue Outside Accounts	\$672,558 150,449 9,745 34,860 4,300	
		\$871,912
Expenditures:		
Salaries Computer Rental Supplies	\$216,092 533,489 112,688	
		\$862,269
Balance Forward from Prior	Year	\$ 9,643 99,075
Balance Forward June 30, 19	78	\$108,718

TABLE 5
FUNDED PROJECTS

As of July 1, 1978

Project	Source	FY79	Duration
Project General Funds SR&T PY US/USSR Wallops Terminal Goddard Terminal Visiting Scientist NSF Republic of China Electrosurgery Neonatal Jaundice Bureau of Land Management Bureau of Land Management II ISU Short Course Forestry Resource Information System Forestry Topography MSS Data Inventory Saudi Arabia Central America Bolivia	Purdue NASA NASA NASA NASA NASA Various NSF Republic of China NDM NIH BLM State of Indiana Purdue St. Regis/NASA NASA Saudi Arabia Inter. Amer. Dev. Bank Bolivia	\$ FY79 130,688 498,460 129,174 52,304 6,371 8,333 19,267 14,152 817 12,289 5,620 95 881 44,818 38,287 176,943 60,693 5,748 49,700 4,489	7/78 - 6/79 12/77 - 11/78 6/77 - 5/79 8/76 - 11/78 11/75 - 9/78 3/77 - 2/79 4/74 - 6/79 9/76 - 2/79 8/76 - 8/78 5/76 - 10/78 9/76 - 12/78 4/77 - 8/78 9/77 - 00/00 3/74 - 6/79 7/78 - 6/79 10/77 - 3/79 12/77 - 11/78 10/77 - 12/78 11/77 - 9/78
Control Data Corporation EDC Data Analysis Mini Courses Development	CDC USGS Purdue	 5,581 1,043 24,794	

\$1,290,547

TABLE 6
CAPITAL EQUIPMENT

ITEM	ORIGINAL COST	YEAR ACQUISITION
Monochrometer CAT 33-86-25	788	1965
Recorder Port Mol SP300 mfg. Ampex	\$ 8,450	1966
Radiometer MDL 14-313 mfg. Barnes	3,750	1966
Spectroradiometer MDL SR mfg. Isco Instr. Spec.	2,000	1966
Oscilloscope Type 317 mfg. Tektronix	875	1966
Oscilloscope w/plug-in 555 Tektronix	2,650	1966
Oscilloscope MDL 564 mfg. Tektronix	875	1966
A/D Equipment	185,336	1967-71
Camper/Pickup	4,897	1967
Monochrometer Mol 98 mfg. Perkin-Elmer	4,100	1967
Oscillator Mdl 32008 mfg. Hewlett-Packard	530	1967
Oscillator Mdl 652A mfg. Hewlett-Packard	730	1967
Oscilloscope Mdl 545B mfg. Tektronix	1,550	1967
Thermometer Mo1 prt-5 mfg. Barnes Eng.	6,959	1968
Digital Display	487,640	1969
Hi-Ranger	17,500	1971
Disk Drive 2314	105,990	1971
Camera w/lens 103 Hulchers	3,167	1971
Camera w/lens 103 Hulchers	3,167	1971
Modems	8,920	1971
Target Tri-color Data Corp	6,081	1971
Enlarger D-4 Simon-Omega	1,632	1971
Scanning Machine Gistafax Jr. 380	1,167	1971
Line Scanner	8,605	1972
Spectroradiometer and Accessories	131,127	1972
Tape Recorder/Reproducer	36,827	1972
Oscilloscope 7603 mfg. Tektronix	1,687	1973
Fast Scan Thermal Camera and Accessories	30,000	1974
Computer Terminal Graphic 801	16,635	1974
Radiometer ERTS Band 100A Exotech, Inc.	2,610	1974
Radiometer ERTS Band 100A Exotech, Inc.	2,610	1974

Imaging System Infrared w/accessories	24,183	1974
Lens Infrared w/mounting flange 250G	1,552	1974
Oscilloscope Storage 5103n/011 Tektronix	1,104	1974
Field Radiometers and Accessories	15,000	1975
Zoom Transfer Scope	4,750	1975
Terminal Send-Receive 735TX	2,693	1975
Terminal Send-Receive 735TX	2,693	1975
Data Logger	1,500	1975
Generator	4,774	1976
029 Keypunch Interface	2,500	1976
Lamboda Intr. Portable Area Meter	3,300	1976
GT CRT Terminal	1,275	1976
GTX CRT Terminal	990	1976
Video Casette Recorder	1,434	1976
Frequency Charger	1,665	1976
Shelving Unit	2,052	1976
System Dictating Recording	1,298	1976
Computer System 11T34-EA Digital	41,220	1976
ACC for computer S45 Digital	2,716	1976
Paper tape Recorder PC11 Digital	1,832	1976
Paper tape Recorder PCll Digital	2,748	1976
Digitizer Cybergraphic 660A	9,664	1976
Trailer/Generator	935	1976
Rack Tape Cannisters Tab	1,124	1976
Instrumentation Tape Recorder	7,850	1977
Strip Chart Recorder	1,613	1977
Data Terminals	2,875	1977
Reader/Printer	1,418	1977
Photocopy Machine mfg. IBM	6,394	1978
Pick-up Truck	900	1978
Auto	1,000	1978
5 GTX CRT Terminals	4,750	1978
LA-36 Deck Writer	1,335	1978
Tape Reel Rack	1,233	1978
	\$1,262,732	•
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