ANNUAL FINANCIAL REPORT TO THE UNIVERSITY

FISCAL YEAR 1979

Laboratory for Applications of Remote Sensing Purdue University West Lafayette, Indiana 47906 USA

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This report is a companion to one entitled, "Annual Report to the University." Enclosed herein are a series of tables which provide further details on the sources of funding and distribution of expenditures within the University. The tables are as follows:

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TABLE 1

LARS PROJECT FUNDING

July 1, 1978 to June 30, 1979

	Project Title	Sponsor	Exp	enditures
_	Research in Remote Sensing of Agriculture, Earth Resources, and the Environment	National Aeronautics and Space Administra- tion	\$	700,602
-	Research in Remote Sensing of Agriculture, Earth Resources, and the Environment	National Aeronautics and Space Administra- tion		629,895
•••	The Application of Remote Sensing Technology to the Solution of Problems in the Management of Resources in Indiana	National Aeronautics and Space Administra- tion		133,306
-	Project to Develop an Operational Forest Resource Information System	National Aeronautics and Space Administra- tion		
	Phase IPhase IIPhase III			279 180,001 61,174
-	Thermal Behavior of Disper- sive Electrodes	New Dimensions in Medicine Corporation		12,236
-	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		102,536
-	Optical Detection of Neonatal Jaundice (II)	National Institute of Health, H.E.W.		6,514
-	Indiana State University Earth Resources Data Processing Remote Terminal Support	Indiana State University		39,163
-	Preprocessing and Analysis of Geophysical Remote Sensing Data	National Science Foundation		14,109
_	Visiting Scientist Program	Participants' Sponsors		107,887

TABLE 1 Continued

 A Study of the Feasibility of Using a Cyber/Icon System as the Nucleus of an Experimental Agriculture Data Center 	Control Data Corporation	5,581
- Central American Project	Inter-American Develop- ment Bank	49,567
- Wallops Flight Center Earth Resources Data Processing Remote Terminal Support	Wallops Flight Center	6,154
 Digital Processing of Landsat MSS and Topographic Data to Improve Capabilities for Com- puterized Mapping of Forest Cover Types 	National Aeronautics and Space Administra- tion	130,450
 Goddard Space Flight Center Earth Resources Data Pro- cessing Remote Terminal Support 	Goddard Space Flight Center	14,393
- Technical Assistance for the Implementation of Selected LARSYS Processors in a Bolivian Computer Facility - Phase III	Bolivian ERTS Program	6,752
 Evaluation of Usefulness of Classified MSS Data in Inven- torying Natural Resources in Saudi Arabia 	Joint U.S./Saudi Arabian Commission of Economic Cooperation	1,145
 Urban and Natural Resource Classification by Digital Image Processing 	U.S. Geological Survey	1,040
- Republic of China	Economic Counselor of the Embassy of the Republic of China	818
- Soil Survey of the Winkleman, Arizona Area	Bureau of Land Management	895
 Soil Survey of the Upper Gila- San Simon Grazing ES 	Bureau of Land Management	95
 Evaluation of SLAR and Simu- lated Thematic Mapper MSS Data for Forest Cover Mapping Using Computer-Aided Analysis Techniques 	National Aeronautics and Space Administration	4,175
 Alabama A&M University Earth Resources Data Processing Remote Terminal Support 	Alabama A&M University	29,456

TABLE 1 Continued

- Training for William D. DiPaolo, Bureau of Land Management	Bureau of Land Management	12,715
 Spectral Mapping of the Nogales, Sierra Vista and Douglas Ranger Districts of the Coronado National Forest 	U.S. Forest Service Coronado National Forest	5,036
- Preprocessing and Analysis of Geophysical Remote Sensing Data	National Science Founda- tion	4,295
- Distribution of Field Measurements Data to General Electric	General Electric	1,411
- Measurement of Spectral Bi- Directional Reflectance Factor for Alabama A&M	Alabama A&M University	3,000
- Ford County Co-Op Agreement	U.S. Department of Agri- culture/Soil Conservation Service	3,778
- Short Course	Purdue University	24,052
- Minicourse Development - Phase II	Purdue University	15,770
- Remote Sensing Video Tapes	Purdue University	4 , 779
- Advanced Short Course	Purdue University	900
TOTAL PROJECT FUNDING		\$2,313,959

TABLE 2 LARS PROJECT EXPENDITURES July 1, 1978 to June 30, 1979

Salaries:

Engineering Agriculture Science HSSE	\$379,388 258,712 66,727 22,562	
		\$ 727,389
Fringe Benefits Overhead Computer Travel Supplies Capital	\$ 88,555 474,308 758,257 57,749 196,060 11,641	
		\$1,586,570
TOTAL PROJECT EXPENDITURES		\$2,313,959

TOTAL PROJECT EXPENDITURES

TABLE 2A $\begin{tabular}{llllll} ENGINEERING & PROJECT & EXPENDITURES \\ \end{tabular}$

July 1, 1978 to June 30, 1979

	EES	CHM	EE	ME	BIOMED	TOTAL
Salaries	\$ 221,266	\$ 293	\$151,463	\$ 4,644	\$ 1,722	\$ 379,388
Fringe Benefits	18,884	1	21,544	324	253	41,006
Overhead	141,359	204	103,038	3,164	1,137	248,902
Computer	757,999			•	, -	757,999
Travel	57 , 650					57,650
Supplies	195,646		19	17	36	195,718
Capital	11,431		210			11,641
Tota1	\$1,404,235	\$ 498	\$276,274	\$ 8,149	\$ 3,148	\$1,692,304

TABLE 2B

AGRICULTURE PROJECT EXPENDITURES

July 1, 1978 to June 30, 1979

		Forestry and	
	Agronomy	Natural Resources	<u>Total</u>
Salaries	\$172,850	\$ 85,862	\$258,712
Fringe Benefits	26,303	12,020	38,323
Overhead	114,614	58,302	172,916
Computer	258	·	258
Travel	99		99
Supplies Capital	342		342
			
Total	\$314,466	\$156,184	\$470,650

.

TABLE 2C
SCIENCE PROJECT EXPENDITURES

July 1, 1978 to June 30, 1979

	Geoscience	Computer	Statistics	Total
Salaries	\$ 9,829	\$ 4,273	\$52,625	\$ 66,727
Fringe Benefits	1,275	7	3,157	4,439
Overhead	6,681	2,958	36,546	46,185
Computer				
Travel				
Supplies				
Capital		·		
Total	\$17,785	\$ 7,238	\$92,328	\$117,351

TABLE 2D

6

HSSE PROJECT EXPENDITURES

July 1, 1978 to June 30, 1979

	Education	Communication	<u>Total</u>
Salaries Fringe Benefits Overhead Computer Travel	\$ 7,262 1,146 296	\$15,300 3,641 6,009	\$22,562 4,787 6,305
Supplies Capital		404.050	022 (5)
Total	\$ 8,704	\$24 , 950	\$33 , 654

TABLE 3

LARS GENERAL FUND ALLOCATION

July 1, 1978 to June 30, 1979

Allocation:

Recurring	\$130,688
Non-Recurring	2,900

\$133,588

Expenditures:

\$ 94,054
20,155
606
5,348
13,410

\$133,573

Balance \$ 15

TABLE 4

LARS SYSTEM SERVICES

July 1, 1978 to June 30, 1979

Income:

000 067
288,967
8,681
33,725
4,997

\$1,143,511

Expenditures:

Machine Rentals	\$441,990
Salaries	286,622
Supplies	77,194
System Services	288,967

	<u>\$1</u>	,094,773
Balance Forward from Prior Year	\$	48,738 108,718
Balance Forward June 30, 1979	\$	157,456

TABLE 5

1980 FUNDED PROJECTS

As of July 1, 1979

Project	Source	<u>FY79</u>	Duration
General Funds SR&T	Purdue NASA	\$ 176,206 918,664	7/79 - 6/80 12/78 - 11/79
PY	NASA	68,963	6/78 - 5/80
US/USSR	NASA	49,952	8/76 - 11/79
Alabama A&M Terminal	Alabama A&M Univ.	23,326	10/78 - 10/79
Goddard Terminal	NASA	1,496	3/77 - 8/79
Visiting Scientist	Various	132,000	4/74 - 6/80
NSF	NSF	83,972	4/79 - 3/81
Bureau of Land Manage- ment Training	BLM	2,785	9/78 - 9/79
ISU	State of Indiana	52 , 574	3/74 - 6/79
Short Course	Purdue	22,873	7/79 – 6/80
Forestry Resource Infor- mation System	St. Regis/NASA	215,897	10/77 - 6/80
Forestry Topography	NASA	40,914	12/77 - 1/80
MSS Data Inventory Saudi Arabia	Saudi Arabia	4,602	10/77 - 12/79
Mini Courses Development	Purdue	5,502	7/78 - 00/00
Remote Sensing Video Tapes	Purdue	23,421	2/79 - 1/80
Forestry SAR	NASA	60,770	5/79 - 11/79
Spectral Data Collection & Processing	Univ. of Missouri	2,790	6/79 - 7/79
Landsat Digital Data in Arizona	Univ. of Arizona	1,000	6/79 - 9/79
Goddard Field Research	Goddard	500	5/79 - 9/79
Africare	Africare/USAID	30,164	9/79 - 2/80
Ball State Terminal	Ball State Univ.	14,300	9/79 - 8/80
Ford County Co-Op Agreement	USDA/SCS	25,222	2/79 - 1/80
Idaho/Big Desert Area	USDA/SCS	26,874	9/79 - 2/80
Goddard/Eval. of Thematic Mapper	Goddard	50,977	10/1/79 - 9/30/80

\$2,035,744

TABLE 6 VISITORS SUMMARY

OVERALL SUMMARY

a.	Federal Agencies	29
	State and Local Agencies	7
	Other State and Local Agencies	7
d.	Purdue University	81
e.	Other American Universities	39
f.	Industry	38
g.	Foreign	54
	Miscellaneous	12

VISITORS BY AFFILIATION

A. FEDERAL AGENCIES

Arizona

* * *	I EDENAL MOLNOILO	
	a. NASA/Goddard Space Flight Centerb. National Aeronautics and Space	3
	Administration/JSC	13
	c. DARPA/IPTO	1
	d. U. S. Department of Agriculture	1
	e. U. S. Department of Agriculture/SEA	
	f. ERIM	1 1
	g. EROS Data Center	
	h. United States Army	. 1
	i. NASA Lewis Research Center	1 1 2 1
	j. World Food Board	1
	k. U. S. Department of Commerce/NOAA - OA22	1
	1. National Weather Service	1
	m. U. S. Department of Energy	1
	n. Lockheed Electronics	1
Β.	State and Local Agencies	
	a. Indiana Department of Natural Resources	3
	b. Indiana Dunnes National Lake Shore	1
	c. Soil Conservation Service	3
		_
С.	Other State and Local Agencies	
	a. New Jersey	1
	b. Missouri	
	c. California	1 2 2
	d. Colorado	2

1

D.	Purdue University	81
Ε.	Other American Universities	39
F.	Industry	38
G.	FOREIGN COUNTRIES a. Australia b. France c. South Africa d. China e. New Zealand f. Uruguay g. England h. Syria i. Austria j. Canada k. Brazil l. Japan m. West Germany n. Peru o. Argentina p. Sweden q. India	1 4 1 5 1 1 9 1 2 4 5 2 1 8 4 2 2
Н.	r. Republic of China MISCELLANEOUS	1 12
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