

LARS PUBLICATION 090377

ANNUAL FINANCIAL REPORT TO
THE UNIVERSITY
FISCAL YEAR 1977

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

1977

TABLE 1

LARS RESEARCH FUNDING

July 1, 1976 to June 30, 1977

SR&T (76-77) (NASA) (Research in Remote Sensing of Agriculture, Earth Resources and Man's Environment)	\$1,206,119
SR&T (77-78) (NASA) (Research in Remote Sensing of Agriculture, Earth Resources and Man's Environment)	86,388
PY (NASA)	200,861
US/USSR (NASA)	83,276
Wallops Island (NASA)	7,338
Wallops Terminal (NASA)	12,632
Landsat Crops (NASA)	31,333
Landsat Colorado (NASA)	6,876
EDC Terminal (NASA)	16,234
Goddard Terminal (NASA)	2,022
Goddard Terminal (NASA)	6,571
ISU Terminal (State of Indiana)	73,319
Great Lakes Multi (EPA)	11,439
Great Lakes Output (EPA)	311
Ohio River (EPA)	65,789
Fast Ice (University of Colorado)	2,293
IDNR (State of Indiana)	12,797
Central Michigan	13,902
NSF	19,010
USGS	4,040
CITCO	2,705
Sudan	7,051
Bolivia	4,098
Bolivia Follow-On	40,247
Bolivia Landsat	2,851
Republic of China	1,006
Electrosurgery (NDM)	98,071
Neonatal Jaundice (NIH)	51,450
Iraq	6,373
Visiting Scientist (Independent Agents)	48,602
Short Course (Continuing Education)	25,000
Symposium (Continuing Education)	2,500
TOTAL RESEARCH FUNDING	\$2,152,504

TABLE 2

LARS RESEARCH EXPENDITURES

July 1, 1976 to June 30, 1977

Salaries:

Engineering	\$433,115
Agriculture	201,800
Science	54,409
HSSE	18,545
Home Economics	<u>3,362</u>

\$ 711,231

Fringe Benefits	\$ 73,532
Overhead	455,757
Computer	644,275
Travel	65,274
Supplies	178,590
Capital	<u>23,845</u>

\$1,441,273

TOTAL RESEARCH EXPENDITURES

\$2,152,504

TABLE 2A

ENGINEERING RESEARCH EXPENDITURES

July 1, 1976 to June 30, 1977

	<u>EES</u>	<u>CHM</u>	<u>CE</u>	<u>EE</u>	<u>IE</u>	<u>ME</u>	<u>NUCL</u>	<u>IDE</u>	<u>BIOMED</u>	<u>TOTAL</u>
Salaries	\$ 214,062*	\$3,430	\$ 8,414	\$167,658	\$3,167	\$24,496	\$ 8,245	\$1,012	\$2,631	\$ 433,115
Fringe Benefits	14,358	437	1,470	17,566	307	2,182	1,018	64	299	37,701
Overhead	122,022	2,350	5,764	114,562	2,169	17,646	5,648	693	1,802	272,656
Computer	644,275									644,275
Travel	64,330	45					348		551	65,274
Supplies	181,208		3	(74)	14	(35)	(259)		863	181,720
Capital	22,868			977						23,845
TOTAL	\$1,263,123	\$6,262	\$15,651	\$300,689	\$5,657	\$44,289	\$15,000	\$1,769	\$6,146	\$1,658,586

*Monthly Short Course (\$25,000) and Symposium (\$2,500) included here.

TABLE 2B

AGRICULTURE RESEARCH EXPENDITURES

July 1, 1976 to June 30, 1977

	<u>Agriculture Economics</u>	<u>Agriculture Engineering</u>	<u>Agronomy</u>	<u>Forestry and Natural Resources</u>	<u>Total</u>
Salaries	\$ 975	\$2,004	\$142,064	\$ 56,757	\$201,800
Fringe Benefits	214	367	18,637	8,730	27,948
Overhead	668	1,373	96,497	37,802	136,340
Computer					
Travel					
Supplies	1		(1,656)	(995)	(2,650)
Capital					
TOTAL	\$1,858	\$3,744	\$255,542	\$102,294	\$363,438

TABLE 2C

SCIENCE RESEARCH EXPENDITURES

July 1, 1976 to June 30, 1977

	<u>Geoscience</u>	<u>Computer</u>	<u>Statistics</u>	<u>Total</u>
Salaries	\$24,178	\$5,441	\$24,790	\$54,409
Fringe Benefits	1,778	7	1,841	3,626
Overhead	16,562	3,727	16,981	37,270
Computer				
Travel				
Supplies	(383)	(106)		(489)
Capital				
	<hr/>	<hr/>	<hr/>	<hr/>
TOTAL	\$42,135	\$9,069	\$43,612	\$94,816

TABLE 2D

HSSE RESEARCH EXPENDITURES

July 1, 1976 to June 30, 1977

	<u>Education</u>	<u>Communication</u>	<u>Total</u>
Salaries	\$10,647	\$ 7,898	\$18,545
Fringe Benefits	2,057	1,789	3,846
Overhead	6,389	799	7,188
Computer			
Travel			
Supplies	9		9
Capital			
	<hr/>	<hr/>	<hr/>
TOTAL	\$19,102	\$10,486	\$29,588

TABLE 2E

CONSUMER AND FAMILY SCIENCE RESEARCH EXPENDITURES

July 1, 1976 to June 30, 1977

	<u>Consumer Science and Retailing</u>
Salaries	\$3,362
Fringe Benefits	411
Overhead	2,303
Computer	
Travel	
Supplies	
Capital	_____
TOTAL	\$6,076

TABLE 3
LARS GENERAL FUND ALLOCATION
July 1, 1976 to June 30, 1977

Allocation:

Recurring	\$83,584	
Non-Recurring	<u>40,828</u>	
		\$124,412

Expenditures:

Salaries	82,403	
Supplies	31,896	
Travel	1,182	
Computer	5,567	
Capital	<u>3,364</u>	
		<u>124,412</u>

Balance

\$ -0-

TABLE 4
LARS SYSTEM SERVICE
July 1, 1976 to June 30, 1977

Income		\$947,163
Expenditures:		
Salaries	\$263,486	
Computer Rental	457,740	
Expendable Supplies	<u>261,966</u>	
		<u>983,192</u>
		\$(36,029)
Balance Forward from Prior Year		<u>135,105</u>
Balance Forward June 30, 1977		\$ 99,076

TABLE 5

FUNDED PROJECTS

AS OF JULY 1, 1977

<u>Project</u>	<u>Source</u>	<u>FY78</u>	<u>Duration</u>
General Funds	Purdue	\$ 128,104	7/77 - 6/78
SR&T	NASA	384,981	6/77 - 11/77
PY	NASA	186,021	6/77 - 5/79
US/USSR	NASA	52,705	8/76 - 12/77
Wallops	NASA	22,017	3/77 - 11/77
Wallops Terminal	NASA	15,916	11/75 - 10/77
Goddard Terminal	NASA	3,370	3/77 - 8/77
Visiting Scientist	Various	7,956	4/74 - 6/78
Ohio River	EPA	18,416	8/76 - 9/77
IDNR	State of Indiana	50,875	3/77 - 12/77
NSF	NSF	65,516	9/76 - 8/78
Republic of China		3,494	8/76 - 12/77
Electrosurgery	NDM	37,374	5/76 - 10/77
Neonatal Jaundice	NIH	10,750	9/76 - 8/77
Bureau of Land Management	BLM	2,475	4/77 - 8/77
ISU	State of Indiana	45,068	3/74 - 6/78
Short Course	Purdue	25,000	7/77 - 6/78
		<u>\$1,060,038</u>	

Dollars shown in \$1,000

TABLE 6

LARS PROSPECTIVE FUNDING

AS OF JULY 1, 1977

Project	Sponsor	Duration	FY78			FY79			FY80		
			Funds	Prob	Prob Funds	Funds	Prob	Prob Funds	Funds	Prob	Prob Funds
SR&T	NASA/JSC	12/77 - 11/78	\$550.	0.7	\$385.	\$450.	0.7	\$315.	\$ 0	0.0	\$ 0
SR&T	NASA/JSC	12/78 - 11/79				500.	0.5	250.	400.	0.5	200.
SR&T 2.3 Extensn	NASA/JSC	8/78 - 6/79	280.	0.5	140.						
US/USSR	NASA/JSC	1/78 - 6/78	51.	0.6	31.						
Multiband Radiom	NASA/JSC	2/78 - 1/79	94.	0.5	47.	131.	0.5	66.			
Multiband Radiom	NASA/JSC	2/79 - 1/80				52.	0.3	16.	73.	0.3	22.
JSC Terminal	NASA/JSC	12/77 - 11/78	70.	0.5	35.	30.	0.5	15.			
St. Regis	NASA/JSC	9/77 - 9/80	178.	0.5	89.	214.	0.4	86.	214.	0.3	64.
Soils Spec Stdy	NASA/HQ	9/77 - 8/78	96.	0.4	38.	19	0.4	8.			
Multiimage Class	NASA/HQ	9/77 - 8/78	62.	0.1	6.	30.	0.1	3.			
Small User RT	NASA/HQ	9/77 - 8/78	76.	0.1	8.	38.	0.1	4.			
Mlt Data Set Reg	NASA/AN	10/77 - 9/78	73.	0.6	44.	25.	0.6	15.			
Landsat Trn Eval	NASA/AN	10/77 - 9/78	135.	0.4	54.	45.	0.4	18.			
Forest Topo	NASA/AN	10/77 - 9/78	35.	0.2	7.	46.	0.2	9.	12.	0.2	2.
CRP Thrml Band	NASA/AN	12/77 - 11/78	178.	0.3	53.						
Water Quality	NASA/AN	10/77 - 9/78	98.	0.1	10.	33.	0.1	3.			
Suits Model	NASA/AN	3/78 - 2/79	33.	0.1	3.	66.	0.1	7.			
Cereal Cyst Nema	NASA/AN	3/78 - 2/79	17.	0.1	2.	52.	0.1	5.			
Soil H2O Profile	NASA/AN	2/78 - 1/79	43.	0.1	4.	60.	0.1	6.			
Wheat Prod Stats	NASA/OA	9/77 - 8/78	68.	0.2	14.	12.	0.2	2.			
Indiana Land Use	Brd of Hlth	10/77 - 2/78	60.	0.1	6.						
Radar Reg Implem	NASA/Wallops	12/77 - 11/78	30.	0.3	9.	20.	0.3	6.			
Goddard Terminal	NASA/GSFC	8/77 - 11/77	10.	0.8	8.						
Goddard Terminal	NASA/GSFC	12/77 - 11/78	7.	0.5	4.	8.	0.5	4.			
Wallops Terminal	NASA/Wallops	11/77 - 6/78	8.	0.3	2.						
Washington U SRT	Wash. U.	10/77 - 9/78	11.	0.1	1.	4.	0.1				
Cal Riverside SRT	Cal Riversid	10/77 - 9/78	11.	0.1	1.	4.	0.1				
NALCO INC SRT	Nalco, Inc.	10/77 - 9/78	11.	0.1	1.	4.	0.1				
Indiana U SRT	Indiana U.	10/77 - 9/78	11.	0.1	1.	4.	0.1				

Dollars shown in \$1,000

TABLE 6 CONTINUED

Project	Sponsor	Duration	FY78			FY79			FY80		
			Funds	Prob	Prob Funds	Funds	Prob	Prob Funds	Funds	Prob	Prob Funds
Arizona U SRT	U. Arizona	10/77 - 9/78	11.	0.1	1.	4.	0.1				
Buckeye Cell SRT	Buckeye Cell	10/77 - 9/78	11.	0.1	1.	4.	0.1				
U of Pitt SRT	U of Pitt	10/77 - 9/78	11.	0.1	1.	4.	0.1				
CDC Cyber/Icon	CDC	9/77 - 12/77	50.	0.7	35.						
Iraq Implement.	Dept of Min	10/77 - 6/78	57.	0.1	6.						
Visiting Sci Symposium	Various University	7/77 - 6/78	50.	0.5	25.	13.	0.5	7.			
Central America	IDB	1/78 - 12/79	15.	0.1	1.	55.	0.1	5.	30.	0.1	3.
Ohio River Stdy	EPA	8/77 - 7/78	55.	0.6	33.	5.	0.6	3.			
Brazilian Reform	US/AID	8/77 - 9/77	8.	0.5	4.						
Forest Service	Forest Serv	10/77 - 9/78	40.	0.1	4.	10.	0.1	1.			
Jaundice	NIH	9/77 - 9/78	42.	0.6	25.	14.	0.6	8.			
Electrosurgery II	NIH	4/78 - 9/79	40.	0.5	20.	160.	0.5	80.	40.	0.5	20.
Concept Electro	Concept Inc	4/78 - 9/78	16.	0.2	3.	4.	0.2	1.			
NDM Electro Extn	NDM Inc	10/77 - 3/78	50.	0.5	25.						
Tectonic Linemen	Bendix	10/77 - 9/78	70.	0.1	7.	30.	0.1	3.			
Univ. Service	University	7/77 - 6/78	25.	0.6	15.						
1030 Service	Non-Univ	7/77 - 6/78	1.	0.8	1.						
			\$2,851		\$1,211	\$2,150		\$948	\$769		\$311
		Current Funded Projects			<u>1,060</u>						
		Projected Total FY78 Funding			\$2,271						