### SUMMARY OF EXTERNAL AWARDS for the period July 1, 1995 through June 30, 1996

### Annual Report from the Office of Research at the University of Wyoming

As one of the Nation's land grant universities, the University of Wyoming executes several missions: to educate its students, conduct research, and provide service and outreach. These missions are vitally interwoven at the University in a strong, vigorous, academic community which serves the State of Wyoming.

Outstanding basic and applied research and creative activity at the University promotes excellence in the classroom, and also can result in regional, national, and international recognition for the institution. Certainly this recognition enhances the value of every degree granted by the University of Wyoming. Consequently, superior research and scholarly activity is of direct benefit to the University, its students, and its alumni.

Through the activities of our students, our faculty, and our staff, the University of Wyoming is involved in a wide range of creative endeavors. Members of the University community are actively engaged in the creative and performing arts, and conduct basic and applied research in most of our disciplines. During fiscal year 1996, the University of Wyoming submitted 576 proposals to potential sources for funding to support these research and creative activities.

This report contains a summary of the external awards which were granted to the University during fiscal year 1996. From July 1, 1995 through June 30, 1996, the University received 623 awards for funding from external sources totalling \$37,003,545. Table 1 summarizes these awards by college\unit within the University and Table 2 provides a summary by the source of the funds. Tables 3 through 10 summarize the funds awarded by sponsor for departments within the University.

The largest portion of the total external funds granted to the University in fiscal year 1996 was received from the federal government (48%). The various federal agencies awarded \$17,803,000 to the University for research and other activities. This continued federal support demonstrates a high degree of confidence in the quality of the University's research programs, and it speaks to the high caliber of our faculty and staff. State of Wyoming agencies awarded \$13,708,000 (37%), and \$5,493,000 (15%) was granted to the University from industry and other private organizations.

Indirect costs at the University of Wyoming are calculated by federal audit which establishes the rate by which the University may recover funds to reimburse costs it incurs that relate to research activity sponsored by the federal government. The approved federal indirect cost rate for sponsored projects is 41% of modified total direct costs. Of the actual amount collected on a fiscal year basis, 75 percent reimburses general University expenses, five percent is allocated to the Office of Research, and on an as-earned basis, 15 percent is distributed to the Department, and five percent to the relevant College. The dollar amount of the indirect costs collected during FY96 and returned to each of the colleges on this basis is shown in Table 11.

Total contracts and grants awarded to the University of Wyoming during FY96 represents a record amount of external funding for the tenth consecutive year. The graph on page 13 shows the increases in total contracts and grants each fiscal year from FY87 through FY96.

TABLE 1
TOTAL SPONSORED AWARDS BY COLLEGE/UNIT for the period July 1, 1995 through June 30, 1996

College	Sponsored Project Awards	Percent of Total
Agriculture	2,849,000	7.7
Arts & Sciences	7,730,000	20.9
Business	76,000	0.2
Education	147,000	0.4
Engineering	5,198,000	14.0
Health Sciences	1,084,000	2.9
Law	57,000	0.2
NON-COLLEGE		
Student Affairs: SEO, Student Financial Aids, Student Loans	5,492,000	14.8
Other: AHC, Art Museum, EORI, Extended Studies, Fleet Operations, Graduate School, IER, International Programs, Library, MAMTC, SBDC, VP Research, WWRC, etc.	14,371,000	38.9
TOTAL	37,004,000	100.00

### TABLE 2 DISTRIBUTION OF AWARDS BY SPONSOR for the period July 1, 1995 through June 30, 1996F

(the number of departments within the college involved with the sponsor is shown in parentheses after the amount; numbers represent thousands of dollars)

Agency	Agri- culture	Arts & Sciences	Business	Educa- tion	Engi- neering	Health Sciences	Law	Other	Total
Air Force	143 (2)	499 (6)	-	-	-	-	-	45 (1)	687 (9)
Army	190 (2)	-	-	-	-	-	-	74 (3)	264 (5)
Commerce	-	40 (1)	-	-	2(1)	-	-	-	42 (2)
DOE (inc. WRI)	-	96 (2)	-	-	30 (1)	-	-	1,092 (1)	1,218 (4)
DOT	-	-	-	-	300 (1)	-	-	-	300 (1)
Education	-	-	-	-	-	-	57 (1)	5,038 (2)	5,095 (3)
EPA	-	313 (2)	-	-	213 (2)	-	-	-	526 (4)
Interior	161 (3)	317 (6)	-	-	-	-	-	237 (1)	715(10)
JTPA (Labor)	29 (1)	-	-	-	-	-	-	10 (1)	39 (2)
NASA	_	606 (2)	-	-	369 (2)	-	-	-	975 (4)
Navy	_	158 (2)	-	_	20 (1)	-	-	_	178 (3)
NBS	-	415 (1)	-	-	-	-	-	-	415 (1)

NSF	105 (1)	2,002 (7)	-	-	1,636 (4)	-	-	1,258 (3)	5,001(15)
NIH	474 (3)	198 (1)	-	-	-	334 (3)	-	-	1,006 (7)
SBA	45 (1)	-	-	-	-	-	-	260 (1)	305 (2)
USDA	758 (5)	130 (4)	-	-	-	-	-	2 (1)	890(10)
WCH/ WCA/ NEH/ NEA	-	61 (3)	-	17 (1)	-	-	-	69 (5)	147 (9)
Wyoming State Agencies	15 (2)	1,329 (8)	-	66 (3)	1,313 (5)	587 (4)	-	10,398(11)	13,708(33)
Industry	426 (6)	449(10)	-	2(1)	580 (5)	3 (2)	-	1,162(4)	2,622(28)
Other (private)	503 (9)	1,117(15)	76 (2)	62 (2)	735 (5)	160 (6)	-	218 (8)	2,871(47)
TOTAL	2,849	7,730	76	147	5,198	1,084	57	19,863	37,004

# TABLE 3 AWARDS BY SPONSOR COLLEGE OF AGRICULTURE for the period July 1, 1995 through June 30, 1996

TOTAL: \$2,849,000 NUMBER OF AWARDS: 105

(numbers represent thousands of dollars)

Agency	Agri- cul- tural Econo- mics	Animal Science	Coop- erative Exten- sion	Dean's Office	Family & Con- sumer Sciences	Molecu- lar Biol- ogy	Plant, Soil & Insect Sciences	Range- land Ecology & Water- shed Manage- ment	Veteri- nary Sciences
Air Force	-	-	-	-	-	104	39	-	-
Army	-	66	-	-	-	124	-	-	-
Interior	150	-	-	-	-	-	10	-	1
JTPA (Labor)	-	-	-	29	-	-	-	-	-
NSF	-	-	-	-	-	-	105	-	-
NIH	-	91	-	-	50	333	-	-	-
SBA	-	-	-	-	-	45	-	-	_
USDA	22	156	-	183	-	46	244	107	-
Wyoming State Agencies	-	-	-	-	2	-	-	-	13

Industry	5	24	-	-	-	285	46	51	15
Other (private)	-	42	21	177	26	80	110	42	5
TOTAL	177	379	21	389	78	1,017	554	200	34

## TABLE 4 AWARDS BY SPONSOR COLLEGE OF ARTS & SCIENCES for the period July 1, 1995 through June 30, 1996

TOTAL: \$7,730,000

**NUMBER OF AWARDS: 213** 

(numbers represent thousands of dollars)

Agency	Afrn Amer Stud	Amer Ind Stud	Amer Stud	Anth	Art	Bot	Chem	Co/ MM	Comp Sci	Cult Outr	Engl	Geog & Rec	Geol
Air Force	-	-	-	-	-	-	196	-	49	-	-	-	146
Commerce	-	-	-	-	-	40	-	-	-	-	-	-	-
DOE (WRI)	-	-	-	-	-	-	-	-	-	-	-	-	81
Interior	-	-	-	167	-	35	1	-	-	-	-	20	54
EPA	-	-	-	-	-	-	150	-	-	-	-	-	-
NASA	-	-	-	-	-	-	-	-	191	-	-	-	-
Navy	-	-	-	-	-	-	140	-	-	-	-	-	-
NBS	-	-	-	-	-	-	-	-	-	-	-	-	-
NSF	-	-	-	-	-	222	599	-	44	-	-	-	447
NIH	-	-	-	-	-	-	198	-	-	-	-	-	-
USDA	-	-	-	-	-	15	-	-	-	-	-	50	-
USIA	-	-	-	-	-	-	-	-	-	-	-	-	-
WCH/ WCA NEH/ NEA	-	-	-	10	-	-	-	-	-	10	35	-	-
Wyoming State Agencies	-	-	-	4	-	-	_	-	-	-	-	5	-
Industry	-	-	-	52	-	55	87	-	59	-	5	-	50
Other (private)	-	-	-	37	-	390	175	1	160	-	-	40	71
TOTAL	0	0	0	270	0	757	1,546	1	503	10	40	115	849

Agency	Hist	Math	Modn Lang	Musc	NSP	Phil	Phys & Astr	Pol Sci	Psyc	Soc	Stat	Thea	Womn Stud	Zool
Air Force	-	37	-	-	-	-	34	-	-	-	-	-	-	37
Commerce	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DOE (WRI)	-	-	-	-	-	-	15	-	-	-	-	-	-	-
Interior	-	-	-	-	-	-	-	-	-	-	-	-	-	40
EPA	-	-	-	-	-	-	-	-	-	-	-	_	-	163
NASA	-	-	-	-	-	-	415	-	-	-	-	-	-	-
Navy	-	-	-	-	-	-	18	-	-	-	-	-	-	-
NBS	-	-	-	-	-	-	-	-	-	-	-	-	-	415
NSF	-	211	-	-	-	-	416	-	-	-	-	_	-	63
NIH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
USDA	-	-	-	-	-	-	-	-	-	-	5	-	-	60
USIA	-	_	-	-	-	-	-	-	-	-	-	_	-	-
WCH/WCA NEH/ NEA	-	-	-	-	-	-	-	-	-	-	-	6	-	-
Wyoming State Agencies	-	22	-	-	126	-	-	223	2	-	-	5	-	942
Industry	-	-	-	-	-	-	55	3	35	-	-	-	-	48
Other (private)	-	15	2	-	47	-	20	7	3	-	56	-	-	93
TOTAL	0	285	2	0	173	0	973	233	40	0	61	11	0	1,861

#### TABLE 5 AWARDS BY SPONSOR **COLLEGE OF BUSINESS** for the period July 1, 1995 through June 30, 1996

**TOTAL: \$76,000** 

NUMBER OF AWARDS: 10 (numbers represent thousands of dollars)

Agency	Business Assistance Center		Management & Marketing
Other	21	55	-
TOTAL	21	55	0

## TABLE 6 AWARDS BY SPONSOR COLLEGE OF EDUCATION for the period July 1, 1995 through June 30, 1996

**TOTAL: \$147,000** 

**NUMBER OF AWARDS: 11** 

(numbers represent thousands of dollars)

Agency	Leadership & Human Development	Lifelong Learning & Instruction	Wyoming Center for Teaching & Learning	Wyoming Institute for the Development of Teaching
WCH/WCA/NEH/NEA	-	-	17	-
Wyoming State Agencies	39	17	10	-
Industry	-	2	-	-
Other (private)	22	40	-	-
TOTAL	61	59	27	0

## TABLE 7 AWARDS BY SPONSOR COLLEGE OF ENGINEERING for the period July 1, 1995 through June 30, 1996

TOTAL: \$5,198,000

**NUMBER OF AWARDS: 101** 

 $(numbers\ represent\ thousands\ of\ dollars)$ 

Agency	Atmospheric Science	Chemical & Petroleum Engineering	Civil & Architectural Engineering	Dean's Office	Electrical Engineering	Mechanical Engineering
Air Force	-	-	-	-	-	-
DOE (WRI)	-	-	-	-	30	-
DOT	-	-	300	-	-	-
EPA	163	-	50	-	-	-
Interior	-	-	-	-	-	-
FAA	-	-	-	-	-	-
Navy	20	-	-	-	-	-
NASA	302	-	-	-	-	67
NOAA	2	-	-	-	-	-
NSF	1,103	299	168	66	-	-
USDA	-	-	-	-	-	-
Wyoming State Agencies	81	300	241	-	612	79

Industry	40	233	5	-	35	267
Other (private)	59	108	367	-	90	111
TOTAL	1,770	940	1,131	66	767	524

### TABLE 8 AWARDS BY SPONSOR COLLEGE OF HEALTH SCIENCES for the period July 1, 1995 through June 30, 1996

TOTAL: \$1,084,000

**NUMBER OF AWARDS: 48** 

(numbers represent thousands of dollars)

Agency	Dean's Office	Human Medi- cine/ Casper	Human Medi- cine/ Cheyenne	Medical Techno- logy	Nursing	Pharmacy	Physi- cal & Health Educa- tion	Social Work	Speech Pathol- ogy	WIND
NIH	-	-	-	-	30	-	5	-	-	299
Wyoming State Agencies	304	-	-	_	-	-	8	41	-	234
Industry	-	-	1	-	-	2	-	-	-	-
Other (private)	12	61	39	-	27	13	-	-	-	8
TOTAL	316	61	40	0	57	15	13	41	0	541

# TABLE 9 AWARDS BY SPONSOR COLLEGE OF LAW for the period July 1, 1995 through June 30, 1996

**TOTAL: \$57,000** 

NUMBER OF AWARDS: 1

(numbers represent thousands of dollars)

Agency	LAW
Education	57
TOTAL	57

TABLE 10 AWARDS BY SPONSOR NON-COLLEGE UNITS for the period July 1, 1995 through June 30, 1996 TOTAL: \$19,863,000

NUMBER OF AWARDS: 134

(numbers represent thousands of dollars)

Agency	Acac Aff	АНС	Art Musm	СРР	EORI	Ext Studies	Flt Oper	Grad School	Human Resources	IER	Intl Prog
Air Force	-	-	-	-	-	-	-	-	-	-	-
Army	-	-	-	-	-	16	-	-	-	_	-
Education	-	-	-	-	-	-	-	-	-	-	-
DOE (WRI)	-	-	-	-	-	-	-	-	-	-	-
Interior	-	-	-	-	-	-	_	-	-	-	-
JTPA (Labor)	-	-	-	-	-	-	-	-	10	-	-
NSF	-	-	-	-	-	-	-	-	-	299	-
NIH	-	-	-	-	-	-	-	-	-	_	-
SBA	-	-	-	-	-	-	-	-	-	-	-
USDA	-	-	-	-	-	-	-	-	-	-	-
WCH/WCA NEH/NEA	2	10	47	-	-	-	-	-	-	-	-
Wyoming State Agencies	-	-	-	8	-	-	64	-	-	570	-
Industry	-	-	2	-	-	-	-	-	-	48	-
Other (private)	-	-	-	-	11	5	-	6	-	40	8
TOTAL	2	10	49	8	11	21	64	6	10	957	8

Agency	Library	MAMTC		Risk Mgmt	SBDC	SEO	SFA	Stnd Loan	VP Research	WPR	WVA	wwrc
Air Force	-	-	-	-	-	-	-	45	-	-	-	-
Army	-	-	-	-	-	-	-	58	-	-	-	-
Education	-	-	-	-	-	1,499	3,539	-	-	-	-	-
DOE (WRI)	-	-	-	-	-	_	-	-	1,092	-	-	_
Interior	-	-	-	-	-	-	-	-	-	-	-	237
JTPA (Labor)	-	-	-	-	-	-	-	-	-	-	-	-
NSF	-	-	-	-	-	-	-	-	659	-	-	300
NIH	-	-	-	-	-	-	-	-	-	-	-	_
SBA	-	-	-	_	260	_	-	-	-	-	-	_
USDA	-	-	-	-	-	-	-	-	-	-	-	2
WCH/WCA NEH/NEA	-	-	-	-	-	-	-	-	-	10	-	-

Wyoming State Agencies	4	20	1	19	294	378	-	-	8,880	-	-	160
Industry	-	974	-	-	-	-	-	-	-	138	-	-
Other (private)	-	-	-	-	17	-	-	-	-	-	125	6
TOTAL	4	994	1	19	571	1,877	3,539	103	10,631	148	125	705

TABLE 11
INDIRECT COST DISTRIBUTION BY COLLEGE
(includes Dean's and Department totals)
for the period July 1, 1995 through June 30, 1996

College	Indirect Cost Amount	Percent of Indirect Costs Distributed		
Agriculture	108,255	16.5		
Arts & Sciences	251,753	38.4		
Business	799	0.1		
Education	2,198	0.3		
Engineering	171,936	26.2		
Health Sciences	20,662	3.2		
Law	0	0		
Library	1,366	0.2		
NON-COLLEGE				
Student Affairs: SEO, Student Financial Aids, Student Loans	34,808	5.3		
Other: AHC, Art Museum, EORI, Extended Studies, Fleet Operations, Graduate School, IER, International Programs, Library, MAMTC, SBDC, VP Research, WWRC, etc.	63,853	9.8		
TOTAL	655,630	100.0		

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