

Office of Vice President for Research  
and  
Information Technology

Research Proposals Submitted

*and*

Research Awards Received

January - March 1998

# Research Proposals Submitted *and* Research Awards Received

January - March 1998

## Foreword

There are several factors that can contribute to charts and totals appearing overly high or overly low. These factors include:

- ♦ Various charts and dollar figures may reflect multi-year, multi-million dollar proposals or awards.
- ♦ CIRA Admin Unit, which previously was listed in the "Other" college, merged with the Engineering college effective July 1, 1994. This merger may significantly effect reporting.
- ♦ Proposal totals represent "new proposal" submissions only. No continuation or renewal proposal submissions are included. Approximately 110 proposals are processed each month by Sponsored Programs.
- ♦ Fiscal year 1996 experienced many delays in federal funding, due to the federal government "shutdown", which lasted more than six months. Some examples of how this has affected proposal and award totals include:
  1. Uncertainties about future federal funding contributed to proposal downturn. Delayed agency budgets resulted in postponement of continuation awards.
  2. Review committees convened late, delaying new awards.
  3. Response time from agencies on all matters has been slow. Agencies, which normally fund on an annual basis, are funding semi-annually or quarterly.
  4. Some competitive renewals have been denied

## Foreword continued

Various charts and dollar figures may reflect multi-year, multi-million dollar proposals or awards. The following lists those which significantly effect reporting.

### PROPOSALS

<u>FY</u>	<u>QTR</u>	<u>College</u>	<u>Department</u>	<u>Sponsor</u>	<u>Years</u>	<u>\$ Amount</u>
93-94	2 <sup>nd</sup>	Natural Resources	Range Land Science	DOD	5	\$122 million
	4 <sup>th</sup>	Veterinary Medicine & Biomedical Sciences	Environmental Health	HHS	5	\$11 million
94-95	2 <sup>nd</sup>	Natural Resources	Forest Sciences	DOD	5	\$36 million
	3 <sup>rd</sup>	Veterinary Medicine & Biomedical Sciences	Rad Hlth Sci	HHS	5	\$13 million
95-96	1 <sup>st</sup>	Engineering	CIRA	DOC/NOAA	5	\$80 million
96-97	1 <sup>st</sup>	Engineering	Mechanical Engineering	DOC	1	\$10 million
		Veterinary Medicine & Biomedical Sciences	Environmental Health (x2)	HHS	5	\$6 million
98	3 <sup>rd</sup>	Natural Resources	NREL	NSF	5	\$22 million

### AWARDS

<u>FY</u>	<u>QTR</u>	<u>College</u>	<u>Department</u>	<u>Sponsor</u>	<u>Years</u>	<u>\$ Amount</u>
94-95	1 <sup>st</sup>	Engineering	CIRA Admin Unit	DOD	4	\$4 million
95-96	1 <sup>st</sup>	Applied Human Sciences	Social Work	CDHS	1	\$6 million

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This report is developed by the Office of Sponsored Programs at Colorado State University.

Please forward any comments, address changes or corrections to:

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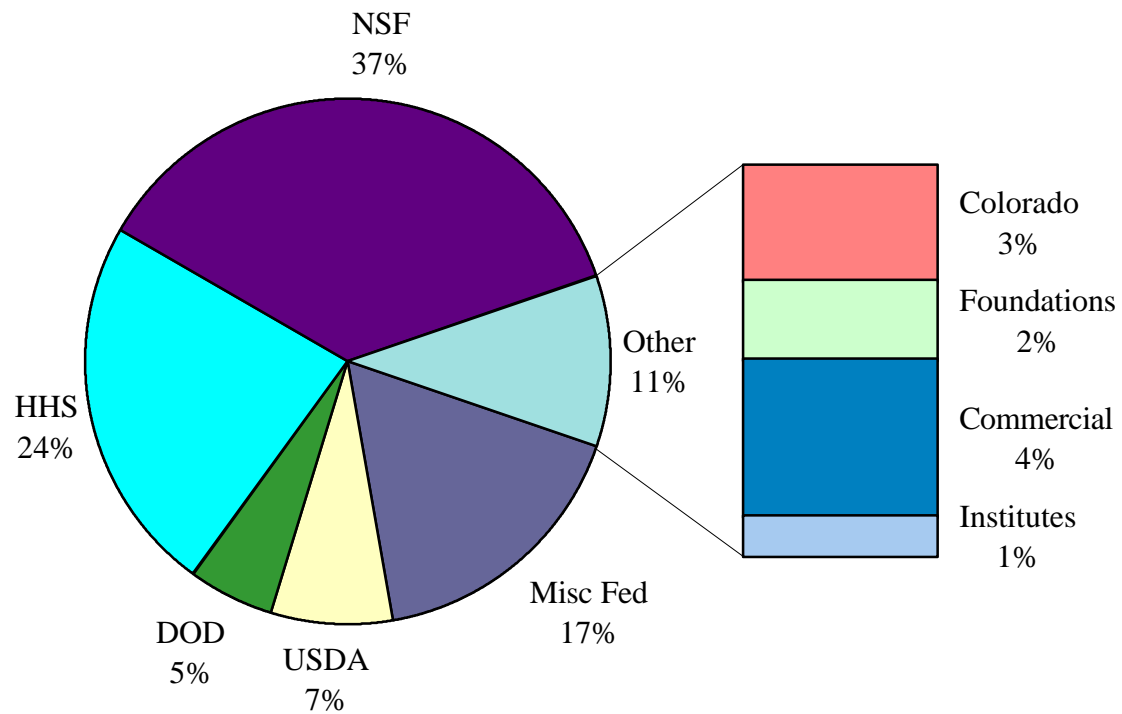
## **Section I**

### **Historical Summaries**

## **Historical and Current Quarter Proposal Summaries**

# Proposals by Fund Source

January - March 1998





## Comparison of Current Quarter Proposals to Same Quarter Previous Fiscal Years

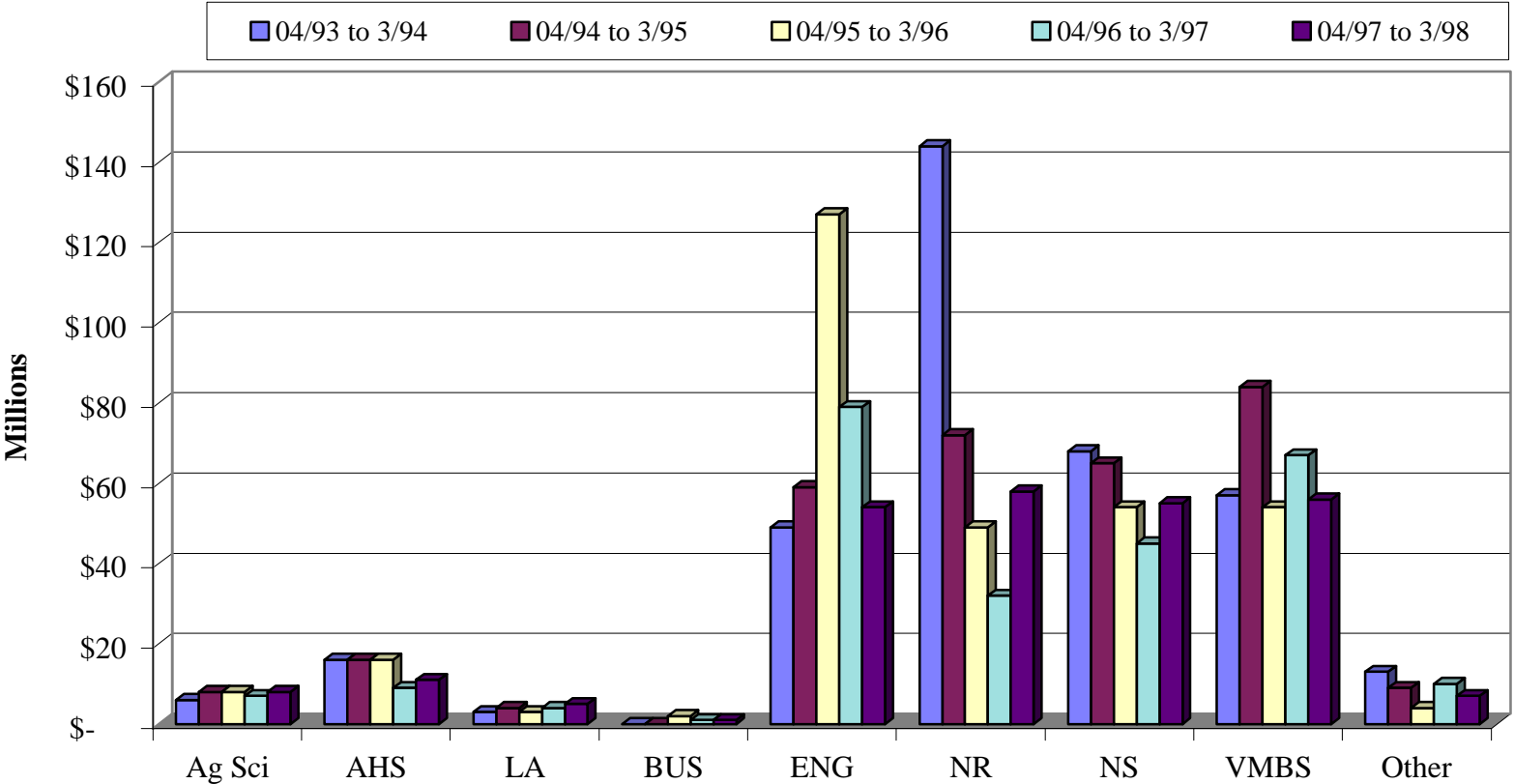
January - March

Sponsor	#	1993-1994	#	1994-1995	#	1995-1996	#	1996-1997	#	1997-1998
Commercial and Non-Profit	54	\$ 3,504,003	46	\$ 3,964,448	48	\$ 4,562,540	45	<b>\$ 10,779,665</b>	40	\$ 4,130,097
Foundations	12	\$ 435,035	9	\$ 280,861	19	\$ 1,078,225	22	\$ 1,244,664	18	\$ 1,575,289
Institutes	3	\$ 471,636	0	\$ -	0	\$ -	0	\$ -	2	\$ 509,630
State of Colorado	9	\$ 1,225,093	18	\$ 1,167,890	16	\$ 468,082	21	\$ 8,161,564	13	\$ 3,239,426
<b>Subtotal of Non-Federal</b>	78	\$ 5,635,767	73	\$ 5,413,199	83	\$ 6,108,847	88	\$ 20,185,893	73	\$ 9,454,442
USDA - Department of Agriculture	44	\$ 8,444,678	41	\$ 7,873,410	31	\$ 6,168,510	29	\$ 4,778,951	30	\$ 6,539,997
DOC - Department of Commerce	2	\$ 190,035	4	\$ 468,930	0	\$ -	9	\$ 3,530,326	5	\$ 1,288,000
DOD - Department of Defense	11	\$ 8,966,978	8	\$ 5,855,355	8	\$ 4,078,472	5	\$ 979,669	7	\$ 5,461,481
DOE - Department of Energy	3	\$ 1,716,962	5	\$ 1,758,861	2	\$ 353,096	7	\$ 5,435,975	3	\$ 890,841
EPA - Environmental Protection Agency	2	\$ 500,933	2	\$ 55,000	14	<b>\$ 12,252,152</b>	15	\$ 6,608,245	15	\$ 5,927,331
HHS - Health & Human Services	43	\$ 28,383,855	14	<b>\$ 28,387,618</b>	19	\$ 11,118,270	25	\$ 18,322,580	24	\$ 21,562,491
USDI - Department of the Interior	4	\$ 12,132	14	\$ 899,213	3	\$ 295,797	9	\$ 1,438,937	16	\$ 1,522,930
NASA - National Aeronautics & Space Administration	13	\$ 1,001,479	20	\$ 7,882,038	15	\$ 550,000	7	\$ 995,603	9	\$ 3,712,750
NSF - National Science Foundation	30	\$ 17,073,626	42	\$ 12,167,223	34	\$ 16,618,034	39	<b>\$ 24,539,482</b>	30	<b>\$ 33,751,079</b>
Miscellaneous Federal	11	\$ 3,799,899	8	\$ 5,693,208	1	\$ 174,000	10	\$ 3,676,718	4	\$ 1,620,228
<b>Subtotal of Federal</b>	163	\$ 70,090,577	158	\$ 71,040,856	127	\$ 51,608,331	155	\$ 70,306,486	143	\$ 82,277,129
<b>*** TOTAL ***</b>	<b>241</b>	<b>\$ 75,726,344</b>	<b>231</b>	<b>\$ 76,454,055</b>	<b>210</b>	<b>\$ 57,717,178</b>	<b>243</b>	<b>\$ 90,492,379</b>	<b>216</b>	<b>\$ 91,731,571</b>

Please see Foreword for detail on this dollar total.

# Proposals by College

## Comparison Consecutive 12 Months April - March



## Comparison Consecutive 12 Months Proposals to Same Period Previous Years

April - March

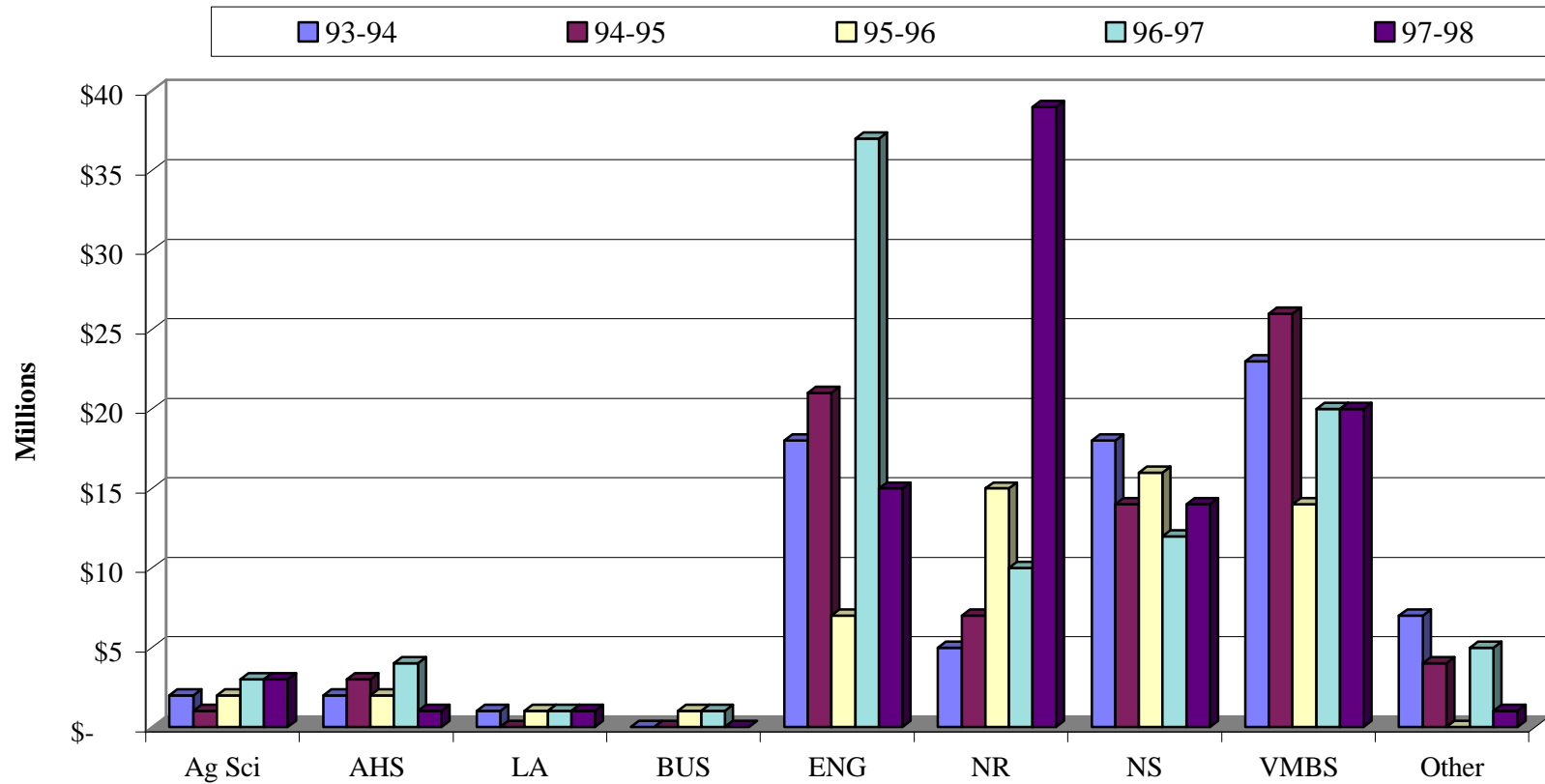
College	#	04/93 to 3/94	#	04/94 to 3/95	#	04/95 to 3/96	#	04/96 to 3/97	#	04/97 to 3/98
Ag Sci - Agricultural Sciences	48	\$ 5,931,534	52	\$ 5,734,697	47	\$ 5,725,769	41	\$ 6,687,233	53	\$ 8,147,515
AHS - Applied Human Sciences	71	\$ 16,170,995	56	\$ 15,798,638	38	\$ 16,243,949	39	\$ 8,784,208	50	\$ 11,280,079
CLA - Liberal Arts	16	\$ 2,546,874	17	\$ 3,889,603	17	\$ 3,189,114	21	\$ 3,614,241	18	\$ 4,783,869
Bus - Business	4	\$ 61,860	5	\$ 472,840	7	\$ 1,600,032	4	\$ 1,395,836	4	\$ 1,179,407
Eng - Engineering	170	\$ 48,851,796	227	\$ 59,437,462	175	<b>\$ 127,248,647</b>	178	<b>\$ 78,864,498</b>	192	\$ 53,835,911
NR - Natural Resources	101	<b>\$ 143,509,542</b>	120	<b>\$ 72,360,241</b>	132	\$ 49,187,547	120	\$ 31,770,687	129	<b>\$ 57,798,566</b>
NS - Natural Sciences	209	\$ 67,795,982	165	\$ 64,776,812	159	\$ 54,499,256	169	\$ 45,031,509	149	\$ 55,311,923
VMBS - Veterinary Medicine & Biomedical Sciences	165	\$ 57,247,528	164	<b>\$ 83,548,835</b>	178	\$ 53,965,075	197	<b>\$ 67,040,734</b>	160	\$ 56,326,151
Other - Other	53	\$ 12,982,403	43	\$ 8,892,435	27	<b>\$ 3,844,475</b>	32	\$ 10,320,340	18	\$ 6,904,792
<b>*** TOTAL ***</b>	<b>837</b>	<b>\$ 355,098,514</b>	<b>849</b>	<b>\$ 314,911,563</b>	<b>780</b>	<b>\$315,503,864</b>	<b>801</b>	<b>\$ 253,509,286</b>	<b>773</b>	<b>\$ 255,568,213</b>

[Please see Foreword for detail on this dollar total.](#)

# Proposals by College for Quarter

Comparison of Proposals Submitted

January - March



## Comparison of Current Quarter Proposals to Same Quarter Previous Fiscal Years

January - March

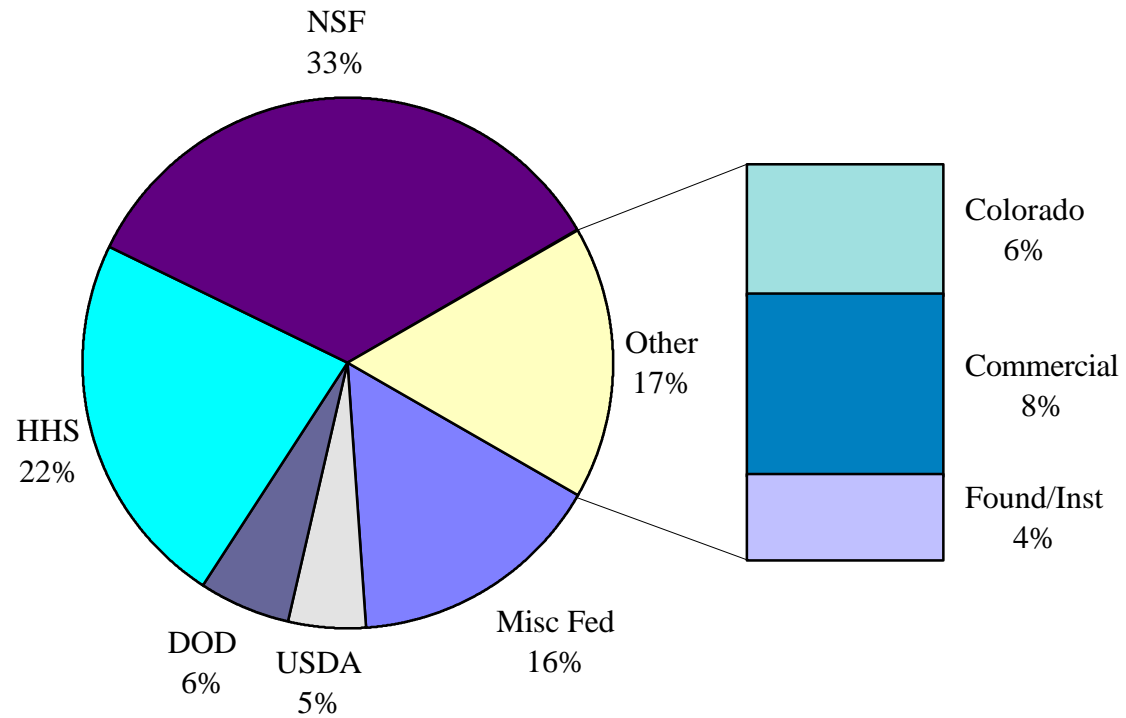
College	#	1993-1994	#	1994-1995	#	1995-1996	#	1996-1997	#	1997-1998
Ag Sci - Agricultural Sciences	19	\$ 1,864,988	11	\$ 905,606	16	\$ 2,080,654	15	\$ 2,673,118	19	\$ 2,589,009
AHS - Applied Human Sciences	15	\$ 2,398,515	12	\$ 3,330,863	12	\$ 2,178,575	15	\$ 3,640,986	7	\$ 941,788
CLA - Liberal Arts	2	\$ 1,189,861	2	\$ 52,382	8	\$ 676,933	5	\$ 1,157,246	3	\$ 606,136
Bus - Business	2	\$ 22,200	2	\$ 346,370	2	\$ 536,725	2	\$ 520,985	0	\$ -
Eng - Engineering	41	\$ 17,637,248	63	\$ 21,072,102	39	\$ 7,036,691	54	<b>\$ 36,655,816</b>	48	\$ 14,892,462
NR - Natural Resources	28	\$ 5,129,013	44	\$ 7,449,945	32	\$ 14,943,139	31	\$ 9,744,725	46	<b>\$ 39,043,219</b>
NS - Natural Sciences	52	\$ 17,714,681	40	\$ 13,567,679	40	\$ 16,374,616	43	\$ 11,708,658	35	\$ 13,899,724
VMBS - Veterinary Medicine & Biomedical Sciences	70	\$ 22,720,753	45	<b>\$ 25,655,734</b>	59	\$ 13,862,845	68	\$ 19,542,435	55	\$ 19,547,971
Other - Other	12	\$ 7,049,085	12	\$ 4,073,374	2	<b>\$ 27,000</b>	10	\$ 4,848,410	3	\$ 211,262
<b>*** TOTAL ***</b>	<b>241</b>	<b>\$ 75,726,344</b>	<b>231</b>	<b>\$ 76,454,055</b>	<b>210</b>	<b>\$ 57,717,178</b>	<b>243</b>	<b>\$ 90,492,379</b>	<b>216</b>	<b>\$ 91,731,571</b>

Please see Foreword for detail on this dollar total.

# Proposals by Fund Source

Comparison Totals for Fiscal Year

July 1997 - March 1998



## Comparison Cumulative Fiscal Year Proposals to Same Period Previous Fiscal Year

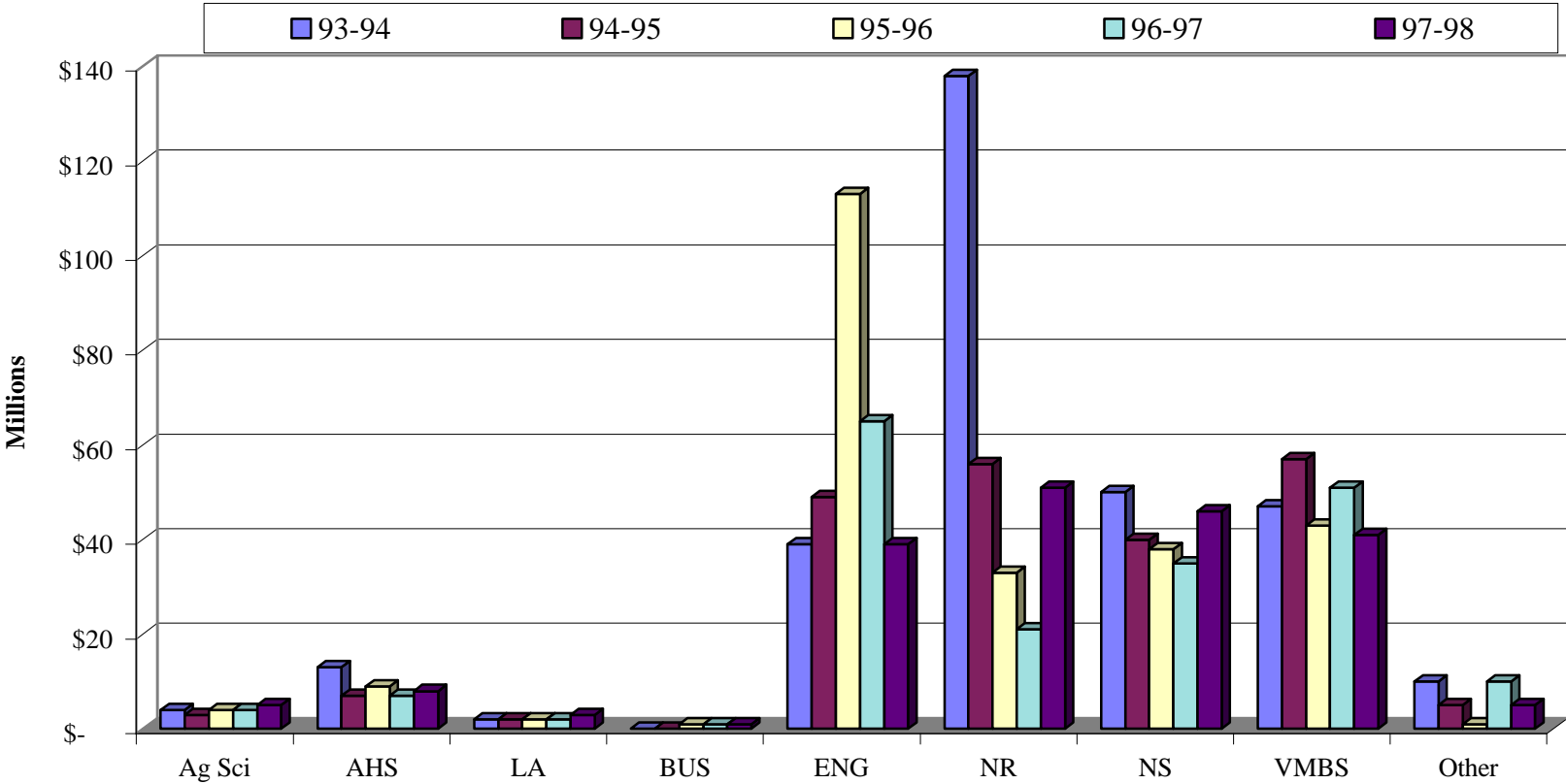
July - March

Sponsor	#	FY 94	#	FY 95	#	FY 96	#	FY 97	#	FY 98
Commercial and Non-Profit	143	\$ 12,156,791	132	\$ 11,007,166	139	\$ 14,972,945	119	\$ 22,728,232	120	15,426,592
Foundations	27	\$ 1,343,961	26	\$ 1,011,631	45	\$ 3,480,726	43	\$ 2,894,352	45	4,389,859
Institutes	4	\$ 568,546	1	\$ 210,420	3	\$ 193,699	0	\$ -	4	3,018,950
State of Colorado	27	\$ 3,503,980	51	\$ 9,034,945	44	\$ 12,479,651	58	\$ 16,006,013	41	11,056,552
<b>Subtotal of Non-Federal</b>	<b>201</b>	<b>\$ 17,573,278</b>	<b>210</b>	<b>\$ 21,264,162</b>	<b>231</b>	<b>\$ 31,127,021</b>	<b>220</b>	<b>\$ 41,628,597</b>	<b>210</b>	<b>33,891,953</b>
USDA - Department of Agriculture	73	\$ 14,511,139	58	\$ 10,609,326	54	\$ 10,285,354	56	\$ 9,997,681	50	9,327,320
DOC - Department of Commerce	14	\$ 2,856,217	13	\$ 2,377,117	5	<b>\$ 80,976,216</b>	22	<b>\$ 16,767,978</b>	17	4,313,274
DOD - Department of Defense	53	<b>\$ 138,479,370</b>	50	<b>\$ 54,703,151</b>	38	\$ 14,256,097	40	\$ 9,417,847	25	10,916,375
DOE - Department of Energy	10	\$ 3,657,753	14	\$ 5,192,209	11	\$ 10,793,511	12	\$ 7,070,435	7	1,863,540
EPA - Environmental Protection Agency	14	\$ 2,123,624	10	\$ 1,659,034	18	\$ 12,397,317	19	\$ 6,747,320	21	7,091,633
HHS - Health & Human Services	97	<b>\$ 64,206,297</b>	63	<b>\$ 59,659,525</b>	53	\$ 30,184,802	65	<b>\$ 45,702,289</b>	54	45,598,493
USDI - Department of the Interior	10	\$ 3,131,919	25	\$ 3,526,550	7	\$ 371,725	19	\$ 2,405,835	37	3,236,402
NASA - National Aeronautics & Space Administration	22	\$ 3,234,686	30	\$ 11,351,442	23	\$ 7,413,866	15	\$ 6,173,762	15	5,527,315
NSF - National Science Foundation	112	\$ 47,065,228	124	\$ 40,981,697	101	\$ 42,664,243	93	\$ 42,240,462	100	<b>68,256,924</b>
Miscellaneous Federal	32	\$ 6,925,276	29	\$ 9,613,607	8	<b>\$ 2,912,008</b>	21	\$ 8,471,802	16	9,410,132
<b>Subtotal of Federal</b>	<b>437</b>	<b>\$ 286,191,509</b>	<b>416</b>	<b>\$ 199,673,658</b>	<b>318</b>	<b>\$ 212,255,139</b>	<b>362</b>	<b>\$ 154,995,411</b>	<b>342</b>	<b>165,541,409</b>
<b>*** TOTAL ***</b>	<b>638</b>	<b>\$ 303,764,787</b>	<b>626</b>	<b>\$ 220,937,820</b>	<b>549</b>	<b>\$ 243,382,160</b>	<b>582</b>	<b>\$ 196,624,008</b>	<b>552</b>	<b>199,433,362</b>

Please see Foreword for detail on this dollar total.

# Proposals by College

## Comparison of Proposals Submitted by Fiscal Year July - March





## Comparison Cumulative Fiscal Year Proposals to Same Period Previous Fiscal Year

July - March

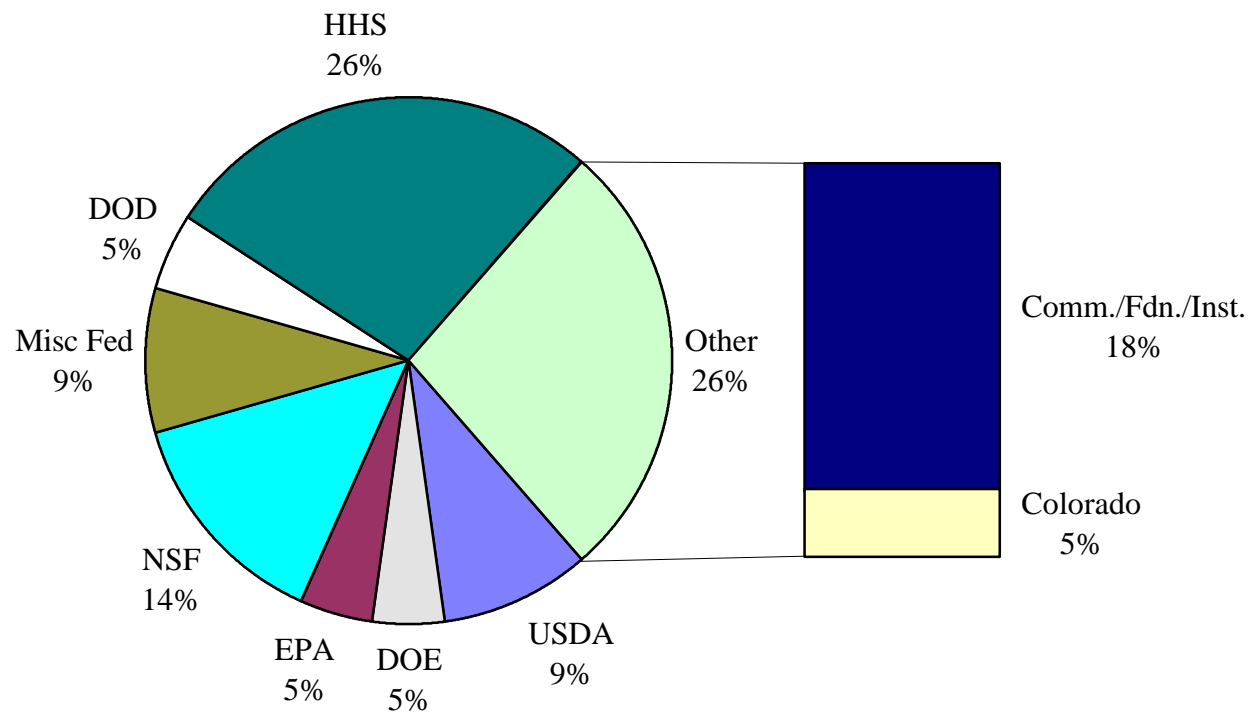
College	#	FY 94	#	FY 95	#	FY 96	#	FY 97	#	FY 98
Ag Sci - Agricultural Sciences	41	\$ 4,440,974	33	\$ 3,436,405	29	\$ 3,903,067	30	\$ 4,246,690	44	\$ 5,148,655
AHS - Applied Human Sciences	55	\$ 13,166,650	43	\$ 7,363,948	29	\$ 8,924,065	29	\$ 7,388,638	39	\$ 8,335,096
CLA - Liberal Arts	12	\$ 1,692,040	12	\$ 2,074,653	14	\$ 1,582,068	14	\$ 1,699,903	12	\$ 3,277,554
Bus - Business	2	\$ 22,200	3	\$ 386,370	5	\$ 927,022	4	\$ 1,395,836	4	\$ 1,179,407
Eng - Engineering	123	\$ 39,115,604	171	\$ 48,963,886	127	\$ <b>112,744,394</b>	121	\$ <b>65,206,141</b>	129	\$ 39,012,742
NR - Natural Resources	74	\$ <b>138,019,968</b>	84	\$ <b>56,488,128</b>	88	\$ 33,489,205	85	\$ 21,211,108	94	\$ <b>50,705,668</b>
NS - Natural Sciences	159	\$ 49,771,809	131	\$ 39,791,563	114	\$ 38,400,001	125	\$ 34,932,836	118	\$ 45,963,008
VMBS - Veterinary Medicine & Biome	136	\$ 47,404,894	123	\$ <b>57,152,883</b>	135	\$ 42,746,693	147	\$ <b>50,768,950</b>	105	\$ 40,911,002
Other - Other	36	\$ 10,130,648	26	\$ 5,279,984	8	\$ <b>665,645</b>	27	\$ 9,773,906	7	\$ 4,900,230
<b>*** TOTAL ***</b>	<b>638</b>	<b>\$ 303,764,787</b>	<b>626</b>	<b>\$ 220,937,820</b>	<b>549</b>	<b>\$ 243,382,160</b>	<b>582</b>	<b>\$ 196,624,008</b>	<b>552</b>	<b>\$ 199,433,362</b>

Please see Foreword for detail on this dollar total.

## **Historical and Current Quarter Award Summaries**

# Awards by Fund Source

January - March 1998



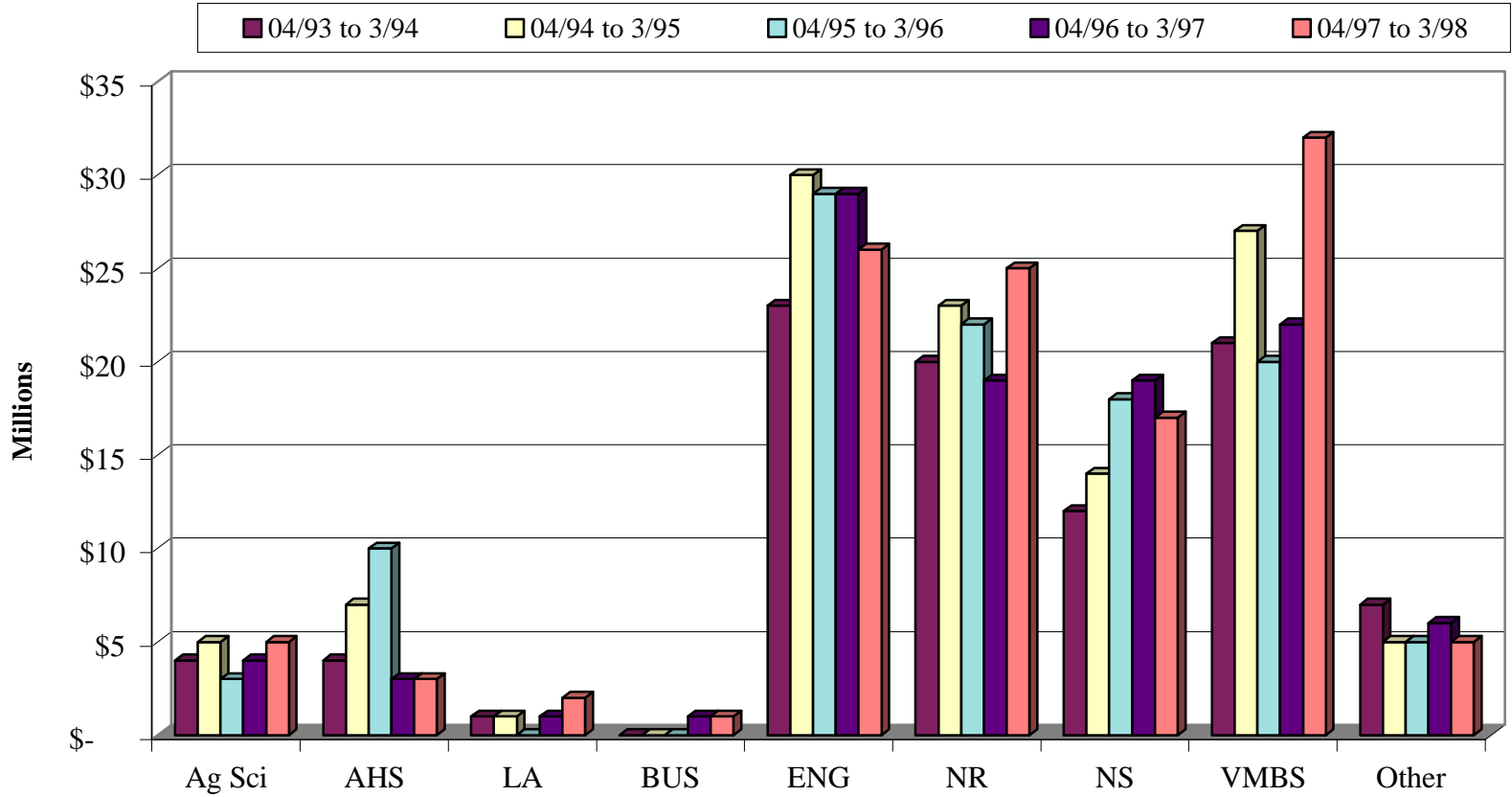
## Comparison of Current Quarter Awards to Same Quarter Previous Fiscal Years

January - March

Sponsor	#	1993-1994	#	1994-1995	#	1995-1996	#	1996-1997	#	1997-1998
Commercial and Non-Profit	108	\$ 3,997,655	112	\$ 3,210,320	104	\$ 3,385,745	94	\$ 2,942,617	118	\$ 3,520,982
Foundations	11	\$ 307,787	12	\$ 680,431	12	\$ 480,909	13	\$ 583,537	19	\$ 835,719
Institutes	1	\$ 2,000	0	\$ -	2	\$ 36,376	0	\$ -	1	\$ 310,000
State of Colorado	45	\$ 2,222,481	31	\$ 1,521,188	31	\$ 1,402,474	19	\$ 985,162	41	\$ 1,314,145
<b>Subtotal of Non-Federal</b>	<b>165</b>	<b>\$ 6,529,923</b>	<b>155</b>	<b>\$ 5,411,939</b>	<b>149</b>	<b>\$ 5,305,504</b>	<b>126</b>	<b>\$ 4,511,316</b>	<b>179</b>	<b>\$ 5,980,846</b>
USDA - Department of Agriculture	33	\$ 2,918,241	43	\$ 5,158,087	48	\$ 3,182,551	23	\$ 541,524	45	\$ 1,914,296
DOC - Department of Commerce	8	\$ 1,519,000	9	\$ 1,373,942	5	\$ 592,616	5	\$ 814,110	7	\$ 1,316,113
DOD - Department of Defense	26	\$ 1,956,404	22	\$ 2,117,705	24	\$ 2,437,949	11	\$ 967,590	22	\$ 1,486,147
DOE - Department of Energy	1	\$ 46,400	3	\$ 417,000	1	\$ 80,096	3	\$ 485,316	6	\$ 1,402,505
EPA - Environmental Protection Agency	5	\$ 105,001	1	\$ 150,000	2	\$ 22,263	0	\$ -	3	\$ 556,444
HHS - Health & Human Services	30	\$ 4,838,366	27	\$ 5,409,650	31	\$ 5,468,119	27	\$ 4,650,515	35	\$ 5,753,238
USDI - Department of the Interior	22	\$ 1,078,459	34	\$ 1,316,546	11	\$ 368,695	10	\$ 368,126	19	\$ 649,317
NASA - National Aeronautics & Space Administration	9	\$ 569,527	4	\$ 437,458	9	\$ 778,446	7	\$ 540,430	2	\$ 423,859
NSF - National Science Foundation	28	\$ 2,305,809	42	\$ 2,678,138	47	\$ 3,455,628	45	\$ 3,599,649	38	\$ 2,638,160
Miscellaneous Federal	7	\$ 303,726	6	\$ 459,500	4	\$ 255,510	2	\$ 200,000	3	\$ 64,000
<b>Subtotal of Federal</b>	<b>169</b>	<b>\$ 15,640,933</b>	<b>191</b>	<b>\$ 19,518,026</b>	<b>182</b>	<b>\$ 16,641,873</b>	<b>133</b>	<b>\$ 12,167,260</b>	<b>180</b>	<b>\$ 16,204,079</b>
<b>*** TOTAL ***</b>	<b>334</b>	<b>\$ 22,170,856</b>	<b>346</b>	<b>\$ 24,929,965</b>	<b>331</b>	<b>\$ 21,947,377</b>	<b>259</b>	<b>\$ 16,678,576</b>	<b>359</b>	<b>\$ 22,184,925</b>

# Awards by College

## Comparison Consecutive 12 Months April - March



## Comparison Consecutive 12 Months Awards to Same Period Previous Years

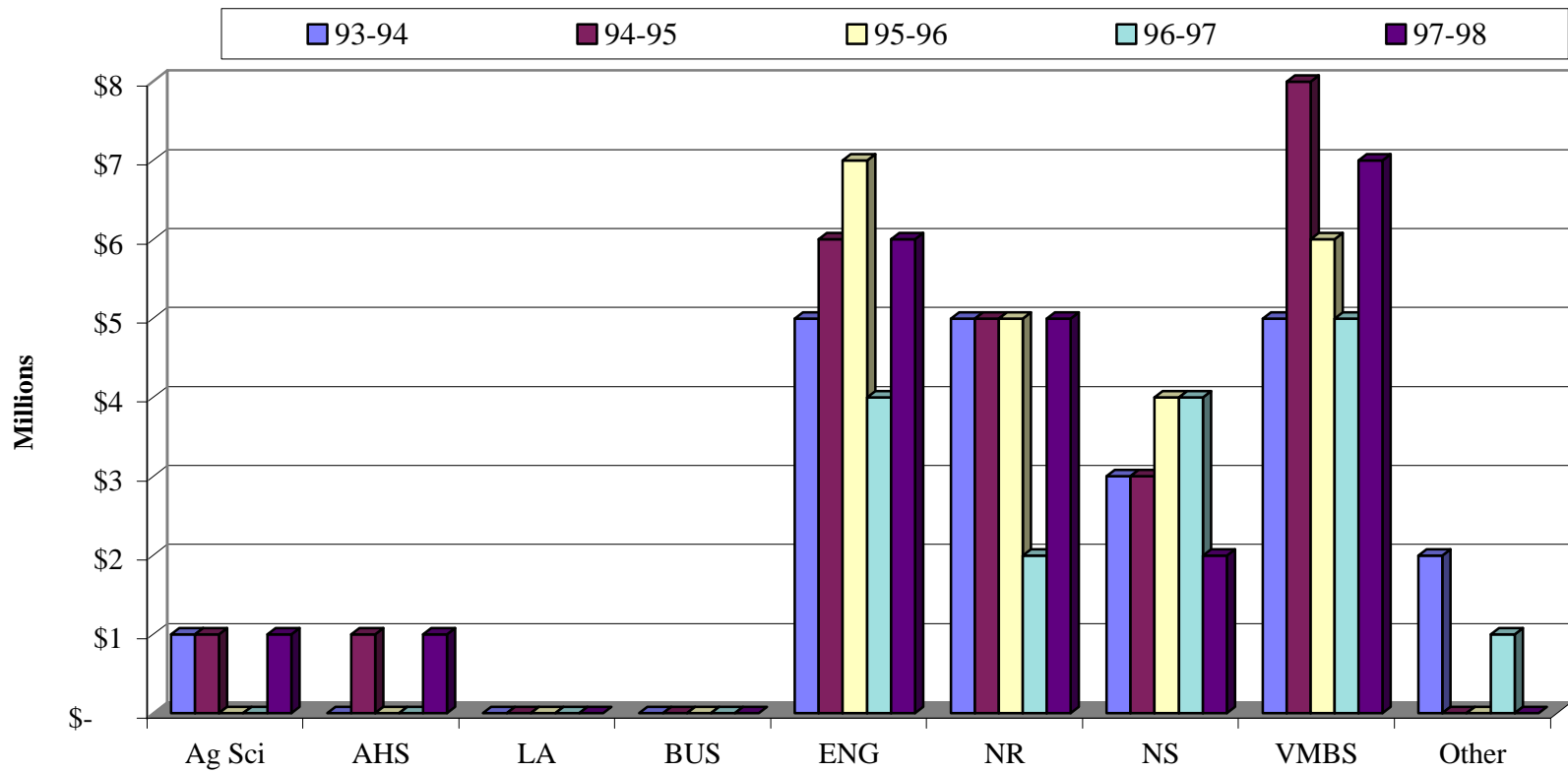
April - March

College	#	04/93 to 3/94	#	04/94 to 3/95	#	04/95 to 3/96	#	04/96 to 3/97	#	04/97 to 3/98
Agricultural Sciences	170	\$ 3,791,032	223	\$ 4,749,973	207	\$ 3,358,170	177	\$ 3,939,723	177	\$ 5,353,242
Applied Human Sciences	80	\$ 3,397,433	99	\$ 6,777,032	81	\$ 9,862,204	75	\$ 3,478,592	59	\$ 3,177,196
Liberal Arts	13	\$ 633,318	18	\$ 1,072,240	14	\$ 411,880	22	\$ 956,921	13	\$ 1,505,862
Business	30	\$ 846,167	5	\$ 121,680	12	\$ 496,995	9	\$ 588,483	13	\$ 564,607
Engineering	344	\$ 19,627,304	365	\$ 30,201,160	335	\$ 28,614,050	333	\$ 28,919,446	298	\$ 25,779,133
Natural Resources	334	\$ 20,617,616	324	\$ 23,220,023	366	\$ 22,350,935	389	\$ 19,372,845	388	\$ 24,849,342
Natural Sciences	178	\$ 14,309,988	200	\$ 14,341,029	230	\$ 17,515,758	224	\$ 18,574,461	215	\$ 17,075,637
Veterinary Medicine & Biomedical Sciences	202	\$ 22,848,467	253	\$ 26,753,953	221	\$ 19,820,655	261	\$ 22,188,295	294	\$ 32,058,533
Other	155	\$ 9,187,109	95	\$ 5,169,628	94	\$ 5,476,673	81	\$ 6,484,313	88	\$ 5,426,960
<b>*** TOTAL ***</b>	<b>1,506</b>	<b>\$ 95,258,434</b>	<b>1,582</b>	<b>\$ 112,406,718</b>	<b>1,560</b>	<b>\$107,907,320</b>	<b>1,571</b>	<b>\$ 104,503,079</b>	<b>1,545</b>	<b>\$ 115,790,511</b>

Please see Foreword for detail on this dollar total.

# Awards by College for Quarter

## Comparison of Awards Received January - March



## Comparison of Current Quarter Awards to Same Quarter Previous Fiscal Years

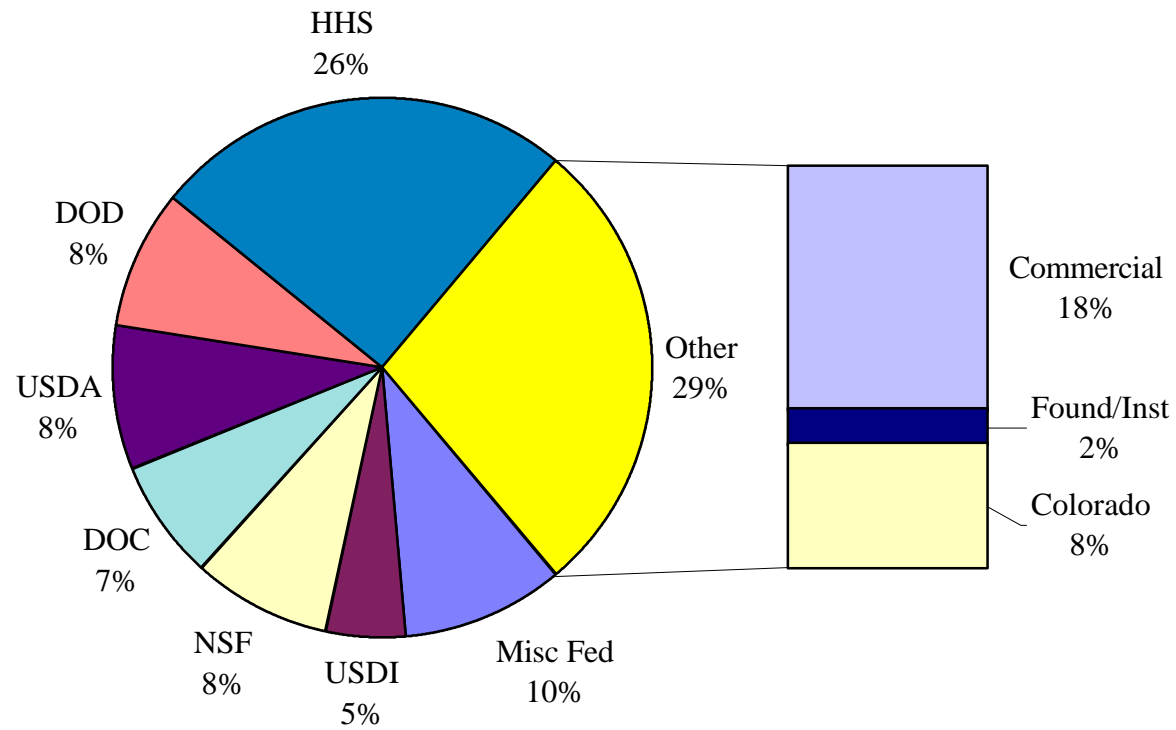
January - March

College	#	1993-1994	#	1994-1995	#	1995-1996	#	1996-1997	#	1997-1998
Ag Sci - Agricultural Sciences	36	\$ 1,096,069	41	\$ 819,844	32	\$ 403,331	19	\$ 393,261	31	\$ 1,108,002
AHS - Applied Human Sciences	17	\$ 422,272	26	\$ 1,048,021	15	\$ 250,707	4	\$ 132,989	17	\$ 810,907
CLA - Liberal Arts	2	\$ 57,680	4	\$ 206,039	2	\$ 1,196	4	\$ 106,139	2	\$ 50,925
Bus - Business	3	\$ 56,056	1	\$ 40,000	3	\$ 127,069	2	\$ 14,335	6	\$ 285,420
Eng - Engineering	97	\$ 5,229,468	83	\$ 6,204,579	89	\$ 6,517,414	60	\$ 4,479,704	65	\$ 5,751,706
NR - Natural Resources	69	\$ 4,615,025	69	\$ 5,354,332	68	\$ 4,580,448	38	\$ 1,811,758	105	\$ 4,735,767
NS - Natural Sciences	35	\$ 2,857,629	45	\$ 2,926,987	54	\$ 3,735,344	66	\$ 4,297,638	42	\$ 2,433,317
VMBS - Veterinary Medicine & Biomedical Sciences	45	\$ 5,445,403	66	\$ 8,016,447	49	\$ 5,870,806	45	\$ 4,675,637	74	\$ 6,615,206
Other - Other	30	\$ 2,391,254	11	\$ 313,716	19	\$ 461,062	21	\$ 767,115	17	\$ 393,676
<b>*** TOTAL ***</b>	<b>334</b>	<b>\$ 22,170,856</b>	<b>346</b>	<b>\$ 24,929,965</b>	<b>331</b>	<b>\$ 21,947,377</b>	<b>259</b>	<b>\$ 16,678,576</b>	<b>359</b>	<b>\$ 22,184,925</b>



# Awards by Fund Source

Comparison Totals for Fiscal Year  
July 1997 - March 1998



## Comparison Cumulative Fiscal Year Awards to Same Period Previous Fiscal Year

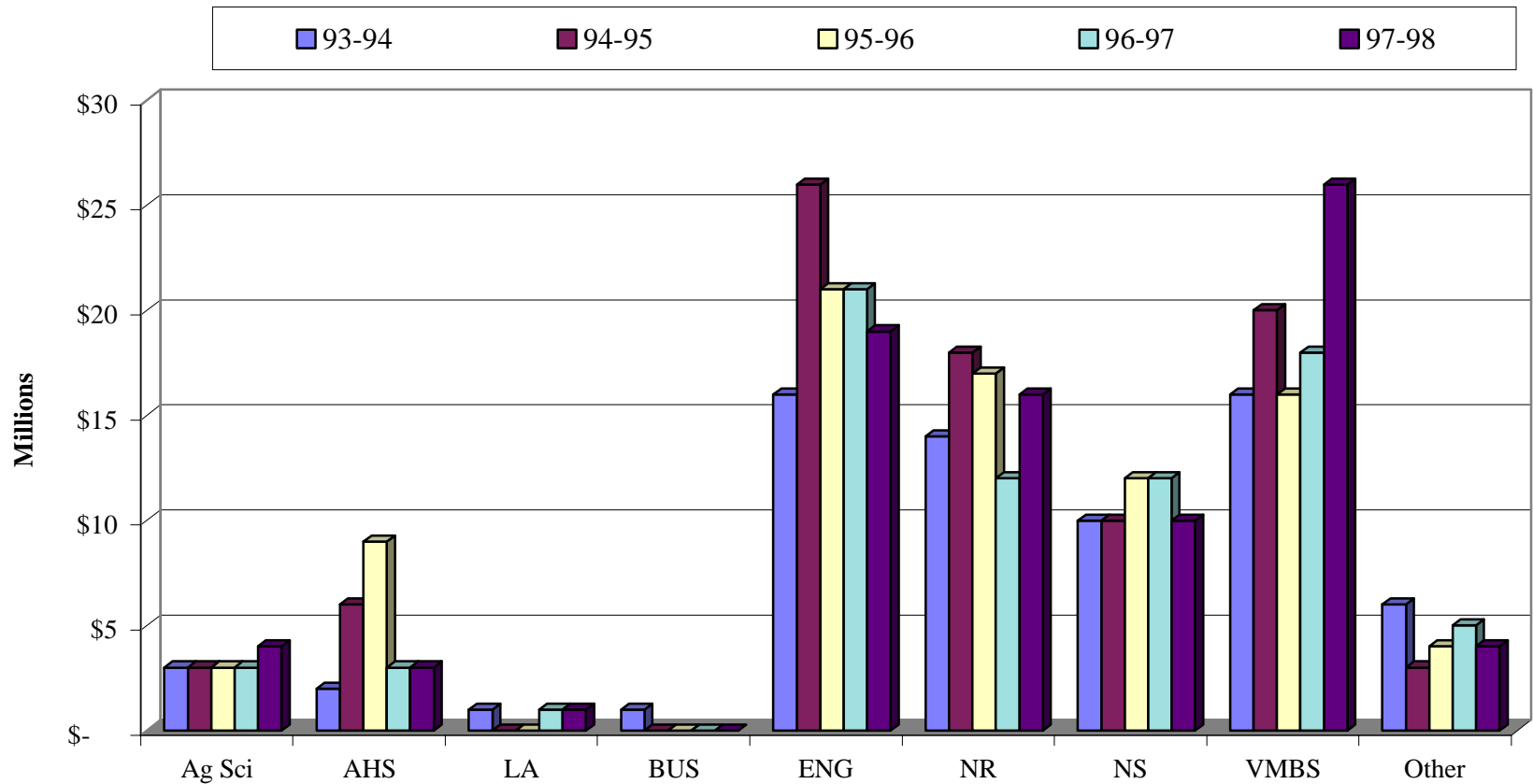
July - March

Sponsor	#	FY 94	#	FY 95	#	FY 96	#	FY 97	#	FY 98
Commercial and Non-Profit	313	\$ 10,526,185	364	\$ 10,285,613	363	\$ 11,312,341	329	\$ 13,002,401	364	\$ 13,907,909
Foundations	25	\$ 717,035	30	\$ 1,052,341	25	\$ 584,102	31	\$ 990,059	34	\$ 1,319,761
Institutes	4	\$ 397,035	6	\$ 1,105,759	8	\$ 523,241	3	\$ 109,848	4	\$ 692,492
State of Colorado	146	\$ 5,289,898	144	\$ 9,918,529	152	<b>\$ 15,609,966</b>	138	\$ 7,852,550	129	\$ 7,495,875
<b>Subtotal of Non-Federal</b>	488	\$ 16,930,153	544	\$ 22,362,242	548	\$ 28,029,650	501	\$ 21,954,858	531	\$ 23,416,037
USDA - Department of Agriculture	163	\$ 9,298,053	161	\$ 13,706,120	178	\$ 9,443,998	181	\$ 7,284,848	137	\$ 7,449,515
DOC - Department of Commerce	21	\$ 2,427,264	21	\$ 3,399,955	19	\$ 3,440,081	25	\$ 5,972,285	22	\$ 5,818,206
DOD - Department of Defense	59	\$ 4,617,951	60	<b>\$ 9,605,563</b>	62	\$ 7,719,394	58	\$ 4,293,620	106	\$ 7,404,495
DOE - Department of Energy	23	\$ 2,334,979	22	\$ 2,623,961	20	\$ 2,539,434	22	\$ 2,895,336	22	\$ 2,738,254
EPA - Environmental Protection Agency	16	\$ 1,079,005	9	\$ 694,903	13	\$ 927,262	17	\$ 1,353,141	11	\$ 2,163,531
HHS - Health & Human Services	94	\$ 15,424,553	89	\$ 16,374,069	96	\$ 14,374,844	109	\$ 16,041,729	121	\$ 20,541,460
USDI - Department of the Interior	90	\$ 3,709,372	97	\$ 5,091,828	67	\$ 2,930,819	65	\$ 2,406,787	76	\$ 3,517,092
NASA - National Aeronautics & Space Administration	31	\$ 1,576,320	27	\$ 2,090,640	21	\$ 2,137,387	28	\$ 2,383,725	23	\$ 2,034,896
NSF - National Science Foundation	93	\$ 7,363,755	108	\$ 8,463,630	99	\$ 9,352,208	88	\$ 7,830,013	73	\$ 6,783,594
Miscellaneous Federal	30	\$ 3,080,073	29	\$ 3,398,305	14	\$ 1,659,969	16	\$ 2,115,263	16	\$ 2,421,518
<b>Subtotal of Federal</b>	620	\$ 50,911,325	623	\$ 65,448,974	589	\$ 54,525,396	609	\$ 52,576,747	607	\$ 60,872,561
<b>*** TOTAL ***</b>	<b>1,108</b>	<b>\$ 67,841,478</b>	<b>1,167</b>	<b>\$ 87,811,216</b>	<b>1,137</b>	<b>\$ 82,555,046</b>	<b>1,110</b>	<b>\$ 74,531,605</b>	<b>1,138</b>	<b>\$ 84,288,598</b>

Please see Foreword for detail on this dollar total.

# Awards by College

## Comparison of Awards Received by Fiscal Year July - March



## Comparison Cumulative Fiscal Year Awards to Same Period Previous Fiscal Year

July - March

College	#	FY 94	#	FY 95	#	FY 96	#	FY 97	#	FY 98
Ag Sci - Agricultural Sciences	122	\$ 2,779,000	161	\$ 3,052,074	153	\$ 2,658,381	118	\$ 2,697,595	127	\$ 4,210,133
AHS - Applied Human Sciences	65	\$ 2,371,361	78	\$ 6,102,578	58	<b>\$ 9,056,674</b>	50	\$ 2,933,507	48	\$ 2,819,322
CLA - Liberal Arts	13	\$ 633,318	13	\$ 430,816	10	\$ 353,231	16	\$ 684,571	11	\$ 1,492,269
Bus - Business	25	\$ 771,828	2	\$ 70,012	9	\$ 417,093	5	\$ 361,683	10	\$ 496,502
Eng - Engineering	276	\$ 15,902,514	287	<b>\$ 26,286,360</b>	237	\$ 20,716,837	238	\$ 20,655,757	216	\$ 19,356,768
NR - Natural Resources	239	\$ 13,540,626	235	\$ 18,278,022	264	\$ 17,463,903	273	\$ 12,393,885	289	\$ 16,014,318
NS - Natural Sciences	126	\$ 9,743,725	142	\$ 10,415,166	159	\$ 11,801,635	156	\$ 11,635,066	148	\$ 10,247,689
VMBS - Veterinary Medicine & Biomedical Sciences	145	\$ 15,912,452	181	\$ 20,020,009	170	\$ 15,602,138	193	\$ 18,184,553	230	\$ 25,923,792
Other - Other	97	\$ 6,186,654	68	\$ 3,156,179	77	\$ 4,485,154	61	\$ 4,984,988	59	\$ 3,727,806
<b>*** TOTAL ***</b>	<b>1,108</b>	<b>\$ 67,841,478</b>	<b>1,167</b>	<b>\$ 87,811,216</b>	<b>1,137</b>	<b>\$ 82,555,046</b>	<b>1,110</b>	<b>\$ 74,531,605</b>	<b>1,138</b>	<b>\$ 84,288,598</b>

Please see Foreword for detail on this dollar total.

## **Section II**

### **Proposals Submitted for Current Quarter**

## Agricultural Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Meeting Time-Dependent Instream Flow Requirements in a Fully Appropriated Multi-State River Basin	Frasier, W. Marshall	Agric & Resource Economics DOI-USGS-Geological Survey	9/1/98 - 8/31/00	97220901 \$291,932.00
Agricultural Commodity Marketing: Multi-Media Interactive Computerized Textbook	Hine, Susan E	Agric & Resource Economics Purdue University	8/1/98 - 7/31/00	97183901 \$24,988.00
Public & Private Incentives for Manure Composting in Three Colorado Counties	Hine, Susan E Seidl, Andrew F Davis, Jessica G	Agric & Resource Economics US Department of Agriculture	10/1/98 - 9/28/98	97180101 \$296,385.00
DECI: The Next Generation	Bourdon, Richard M	Animal Sciences USDA-CSRS-CGP-Competitive Grants Program	10/1/98 - 9/30/01	97183301 \$359,944.00
Synchronization of Ovulation Using hCG or GnRH with the CO-Synch Protocol in Suckled Beef Cows	Geary, Thomas W Whittier, Jack C	Animal Sciences National Association of Animal Breeders	7/1/98 - 6/30/99	97174701 \$14,980.00
Evaluation of the Select Synch Protocol in Yearling Beef Heifers	Geary, Thomas W Whittier, Jack C	Animal Sciences Select Sires Incorporated	5/1/98 - 5/1/99	97199301 \$11,713.00
Livestock Greenhouse Gases	Johnson, Donald E Seidl, Andrew F Ward, Gerald M.	Animal Sciences Environmental Protection Agency	4/1/98 - 12/31/99	97174901 \$143,354.54
Assessing Nutritional Effects on Bone Growth in Horses with Dual Energy X-ray Absorptiometry	Siciliano, Paul D	Animal Sciences Morris Animal Foundation	7/1/98 - 7/1/99	97224501 \$34,700.00
Development of an Interdisciplinary Ranch Resource Management Undergraduate Major	Whittier, Jack C Green, Ronnie D Field, Thomas G	Animal Sciences US Department of Agriculture	9/1/98 - 8/31/00	97187101 \$79,920.00
Survey of Fusarium Oxysporum Variability & Its Management in Sugarbeet & Dry Bean Cropping Systems	Schwartz, Howard F Brick, Mark A Byrne, Patrick F	Bioagricultural Sci & Pest Mgmt US Department of Agriculture	8/1/98 - 7/31/00	97180901 \$83,756.00
A Lifestyle Physical Activity Intervention for Obese Women: Effect on Cardiovascular Disease Factors...	Anderson, Jennifer E	Food Science & Human Nutrition ACSMF-Amrcn College Sports Medicine Fndt	2/1/98 - 3/31/99	97165701 \$5,300.00
Evaluation & Improvement of Freeze Tolerance of Zoysiagrass	Qian, Yaling Stushnoff, Cecil Koski, Anthony J	Horticulture & Landscape Arch Golf Course Superintendents Assn of Amer	6/1/98 - 6/1/01	97157301 \$80,692.00
Cold Hardiness of Green Ash & Honeylocust Trees Influenced by Irrigation Regimes	Wallner, Stephen J Findley, Douglas A	Horticulture & Landscape Arch International Society of Arboriculture	10/1/98 - 4/30/00	97213101 \$14,873.00
Potato Breeding & Cultivar Development in the Southwest	Thompson-Johns, Asunta Lee Holm, David G	San Luis Valley Research Ctr USDA-CSRS-SRG-Special Research Grants	6/1/98 - 5/31/99	97221301 \$300,000.00
Potential Use of Polymer Coated Urea for Precision Agriculture	Thompson-Johns, Asunta Lee Dillon, Merlin A	San Luis Valley Research Ctr USDA-ARS-Agricultural Research Service	6/1/98 - 5/31/01	97179901 \$57,956.00

## Agricultural Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Characterization of Fusarium Oxysporum Isolates Pathogenic to Sugar Beet & Dry Beans	Brick,Mark A Byrne,Patrick F Schwartz,Howard F	Soil & Crop Sciences US Department of Agriculture	8/1/98 - 7/31/00	97169501 \$128,153.56
Functional, Structural, & Evolutionary Genomics in Triticeae Crop Plants	Byrne,Patrick F	Soil & Crop Sciences University of California	1/1/99 - 12/31/01	97220701 \$302,982.00
The Influence of Soil Mineral Weathering on the Speciation, Storage, & Transport of Metals in Soils	Heil,Dean M Kelly,Eugene F Cardon,Grant E	Soil & Crop Sciences National Science Foundation	10/1/98 - 9/30/01	97172501 \$277,387.99
Enrichment of Problem Solving Skills in Undergraduates Using Information Technologies	Kelly,Eugene F Shanahan,John Ayers,Paul D	Soil & Crop Sciences USDA-CSRS-SRG-Special Research Grants	1/1/99 - 12/30/00	97201901 \$79,992.00

## Applied Human Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Mentoring Circles	Gilfoyle,Elnora M	Dean Of Applied Human Sciences Women's Foundation of Colorado	7/1/98 - 6/30/99	97182501 \$32,625.00
Evaluation of the Colorado Collective for Medical Decisions Project	Drennen,Nancy Hungerford Makela,Carole J	Design, Merch & Consumer Sci Colorado Trust *	4/1/98 - 12/31/99	97195701 \$99,257.00
Reduction in Severity of Exercise-Induced Asthma with Low Sodium Diet	Gotshall,Robert W	Exercise & Sport Science ACSMF-Amrcn College Sports Medicine Fndt	5/1/98 - 4/30/99	97165501 \$5,000.00
Effect of an Oral IGF-1 Secretagogue on Skeletal Muscle & Endocrine Adaptations to Resistance Exercise	Hickey,Matthew	Exercise & Sport Science Experimental and Applied Sciences, Inc.	5/1/98 - 4/30/99	97206501 \$35,586.10
Multicultural GIFTS Program	Stone,Martha B Gregory,Susan R Sanders,Eulanda A	Food Science & Human Nutrition USDA-CSRS-SRG-Special Research Grants	9/1/98 - 3/30/00	97189301 \$159,951.00
Life Transition for Youth with Acquired Brain Injuries	Sample,Pat L	Occupational Therapy US Department of Education	10/1/98 - 9/30/02	97201501 \$599,369.00
Preparing Service Learning Educators for the Year 2000	Mcwhorter,Barbara A Paccione,Angela Richburg,Robert W	School Of Education Colorado Department of Education	7/1/98 - 6/30/99	97194301 \$10,000.00



## Engineering - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Further Studies of Transition-Season Arctic Stratus	Cotton,William A	Atmospheric Science NSF-GEO-Geosciences	7/1/98 - 6/30/99	97221101 \$85,499.00
An Observational Study of the Angular & Spatial Variability of Solar Radiances Transmitted Through Clouds	Cox,Stephen K Davis,John M	Atmospheric Science NSF-GEO-Geosciences	7/1/98 - 6/30/01	97187701 \$322,701.80
Modeled Radiative Properties of the Atmospheric Aerosol from Measurement-Based Mixtures...	Fuller,Kirk A Kreidenweis-Dandy,Sonia M	Atmospheric Science National Aeronautics & Space Admin.	9/1/98 - 8/31/01	97192701 \$390,646.00
Development of an Instrument Interface for Single-Particle Chemical Analysis of Ice Nucleating Aerosols	Kreidenweis-Dandy,Sonia M Collett,Jeffrey L. Jr Rogers,David C	Atmospheric Science National Aeronautics & Space Admin.	11/1/98 - 10/31/00	97192901 \$174,391.00
Parameterizing Subgrid-scale Snow-cover Heterogeneities for Use in Regional & Global Climate Models	Pielke,Roger A Liston,Glen E	Atmospheric Science DOC-NOAA-Natl Oceanic & Atmospheric Admn	4/15/98 - 4/14/99	97207501 \$70,000.00
A Snow-Evaluation Modeling-System for Weather, Climate, & Hydrologic Applications	Pielke,Roger A Liston,Glen E	Atmospheric Science National Aeronautics & Space Admin.	7/1/98 - 6/30/01	97166701 \$356,096.64
Convective Cloud Systems in Climate Models	Randall,David A	Atmospheric Science NSF-GEO-Geosciences	10/1/98 - 9/30/03	97198901 \$1,088,853.00
Further Analysis of the Shipboard Radar Data from COARE: Rainfall, Convective Organization & Surface Fluxes	Rutledge,Steven A	Atmospheric Science DOC-NOAA-Natl Oceanic & Atmospheric Admn	5/22/98 - 5/23/99	97198701 \$110,000.00
ROPS Design & Testing for Agricultural Tractors	Ayers,Paul D	Chemical & Biores Engineering HHS-NIH-National Institute of Health	12/1/98 - 11/30/01	97171501 \$412,105.50
Kinetics of Gelation & Chemical Crosslinking During Transition-Metal Compatibilization of Diene Polymers...	Belfiore,Laurence A	Chemical & Biores Engineering DOD-USAF-Office of Scientific Research	7/1/98 - 6/30/01	97181501 \$394,608.40
Kinetics of Gelation & Chemical Crosslinking During Transition-Metal Compatibilization of Diene Polymers	Belfiore,Laurence A	Chemical & Biores Engineering American Chemical Company	6/1/98 - 8/31/01	97169901 \$90,000.00
A Stochastic Approach to Environmental Exposure Assessment Related to Groundwater Nitrate Concentrate	Garcia,Luis Loftis,Jim C Nuckols,John R	Chemical & Biores Engineering Environmental Protection Agency	6/1/98 - 5/30/01	97209901 \$480,673.00
Simulation Model for the Design & Management of Irrigation & Drainage for Water Quality	Garcia,Luis Ward,Robert C	Chemical & Biores Engineering DOI-USGS-Geological Survey	9/1/98 - 8/31/01	97220501 \$112,437.00
Bioaugmentation Studies Using a Genetically Modified PCE-Degrading Bacterium	Reardon,Kenneth F Duteau,Nancy M	Chemical & Biores Engineering University of California at Irvine	10/1/98 - 9/30/01	97202901 \$159,163.00
Combined Fenton's Reagent/Biodegradation Process for Treatment of a PAH-PCP Mixture	Reardon,Kenneth F	Chemical & Biores Engineering Environmental Protection Agency	8/1/98 - 8/31/01	97202301 \$352,919.00
Engineered Sequential Anaerobic-Aerobic Treatment for Remediation of PCB Contaminated Soil	Reardon,Kenneth F Duteau,Nancy M	Chemical & Biores Engineering Environmental Protection Agency	10/1/98 - 10/1/01	97202501 \$370,959.00

## Engineering - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Effective Communication & Utilization of National Weather Service Critical Hydrometeorological Information...	Adams,Christopher R Vonderhaar,Thomas H	Cira DOC-NOAA-NWS-National Weather Service	10/1/97 - 9/30/98	97184501 \$37,000.00
Assistance for Image Display Techniques & Data Analysis	Eis,Kenneth E	Cira DOI-NPS-National Park Service	4/1/98 - 12/31/98	97214501 \$36,615.00
Proposal to Serve as Co-Instructor for the COMET Satellite Meteorology Courses	Kidder,Stanley Q	Cira UCAR-NCAR-COMET Atmospheric Tech. Divis.	1/26/98 - 4/24/98	97172102 \$7,468.00
GIMPAP Development for Support of the Virtual Institute for Satellite Integration Training	Vonderhaar,Thomas H	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	1/1/98 - 12/31/00	97172301 \$830,000.00
Combining Geostationary & Polar Orbiting Satellite Observations for Aerosol Retrievals	Vonderhaar,Thomas H Knapp,Kenneth R	Cira National Aeronautics & Space Admin.	6/1/98 - 5/30/00	97193501 \$133,596.00
Combining Geostationary & Polar Orbiting Satellite Observations for Aerosol Rationales	Vonderhaar,Thomas H Knapp,Kenneth R	Cira National Aeronautics & Space Admin.	8/24/98 - 5/31/99	97209701 \$22,000.00
Severe Weather Research	Vonderhaar,Thomas H	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	7/1/98 - 6/30/99	97214101 \$241,000.00
Systems Analysis Methods for Water & Natural Resources Decision Making	Fontane,Darrell G	Civil Engineering DOI-USGS-Geological Survey	10/1/94 - 9/30/99	97207101 \$7,400.00
Water Quantity/Routing Model Development: Klamath River Basin, Oregon & California	Fontane,Darrell G	Civil Engineering DOI-USGS-Geological Survey	10/1/94 - 9/30/99	97206901 \$19,749.00
Tests & Analysis of Layered Wood-Concrete Floors & Decking	Gutkowski,Richard M	Civil Engineering US Department of Agriculture	9/1/98 - 8/31/00	97179701 \$139,993.00
Experiments on Erosion of Cohesive River Bends	Julien,Pierre Y Abt,Steven R	Civil Engineering Washington State University	9/1/98 - 8/31/01	97220101 \$102,964.00
Environmental Impact Evaluation Through Interrupted Timeseries	Salas,Jose D	Civil Engineering University of Colorado	10/1/98 - 3/31/00	97221701 \$16,682.00
Sustainable Watershed Restoration & Protection Strategies in the Context of Changing Land Uses	Watson,Chester C Vlachos,Evan C Wohl,Ellen E	Civil Engineering EPA-Water Pollution Control/R&D	10/1/98 - 9/30/01	97217501 \$687,195.00
S-POL Radar Based Hydrometer Classification & Rainfall Algorithms in Tropical Storms During TRM	Bringi,Viswanathan N Hubbert,John	Electrical Engineering NSF-GEO-Geosciences	10/1/98 - 10/1/01	97161901 \$362,013.90
Development of a Stereoscopic Haptic Acoustic Real-Time Computer for Virtual Environment Applications	Chen,Thomas Wei	Electrical Engineering NSF-CISE-Computer & Info Sci & Engin	7/1/98 - 6/30/01	97190701 \$695,376.20
Integrating Process Induced Damage, In-Situ Monitors & IC Testing into a 3 Semester ULSI Process/Test	Jayasumana,M A Anura P Collins,George J	Electrical Engineering NSF - Engineering Grant	7/1/98 - 6/30/01	97221501 \$485,261.00

## Engineering - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Nanostructure Fabrication with Co-Polymer Masks for Optoelectronics	Menoni,Carmen S Parkinson,Bruce Alan Grainger,David W	Electrical Engineering NSF - Engineering Grant	9/1/98 - 8/31/01	97183701 \$573,597.00
Development of Instrumentation for Growth of Low Dimensional Nanostructures Using Molecular Beam Epitaxy & Laser...	Menoni,Carmen S Lee,Siu Au	Electrical Engineering National Science Foundation	9/1/98 - 8/31/01	97185901 \$479,481.00
Development of a New Photo-Electron/Photo-Ion Spectroscopy Facility for Chemistry Research Based on a Tabletop...	Rocca,Jorge J G Bernstein,Elliot R	Electrical Engineering National Science Foundation	7/1/98 - 6/30/01	97155501 \$691,211.15
Optoelectronic Free-Space Processing Systems for Asynchronous Transfer Mode Switching & Bio-Molecular Scanning	Wilmsen,Carl W	Electrical Engineering NSF - Engineering Grant	7/1/98 - 6/30/01	97163701 \$1,162,443.18
Robust Control of Large Scale Power Systems	Young,Peter	Electrical Engineering NSF - Engineering Grant	9/1/98 - 8/31/01	97163901 \$189,071.76
Multi-Sensory Simulation of Temporal Bone Surgery for Lifelong Training Requirements	Young,Peter Azimi-Sadjadi,Mahmood R	Electrical Engineering CASI-Colorado Advanced Software Inst.	7/1/98 - 8/31/99	97196301 \$39,962.00
Second Generation Microwave Prototype: Elimination of Sensitivity to Surface Roughness Variations...	Zoughi,Reza	Electrical Engineering DOD-NAVY-Naval Weapons Center	1/4/98 - 12/31/98	97204301 \$24,974.00
Microwave Methods for Nondestructive Evaluation of Polymer-Based Structures	Zoughi,Reza	Electrical Engineering MTI - Matl. Tech. Inst. of Chem. Process	4/1/98 - 3/31/98	97171901 \$99,752.65
Development & Evaluation of a Microwave Corrosion Under Paint Inspection System for Bridge Applications	Zoughi,Reza Qaddoumi,Nasser N	Electrical Engineering Texas Research Institute (NTIAC)	7/1/98 - 6/30/01	97227701 \$198,328.00
High Performance Connection for Colorado State University	Burns,Patrick J	Mechanical Engineering National Science Foundation	7/1/98 - 6/30/00	97164301 \$350,000.00
Support to Address Thermal & Environmental Issues at the 2nd International Conference on Energy & Environment	Hittle,Douglas C Tong,Timothy	Mechanical Engineering National Science Foundation	3/16/98 - 9/15/98	97186501 \$31,616.00
Synthesizing and Elevating Biomedical Engineering Education at CSU: A University-Industry Collaboration	James,Susan P	Mechanical Engineering Whitaker Foundation	6/1/99 - 5/31/02	97217301 \$987,979.00
Development & Testing of Sensor Fusion Based System for Scanning of Timber Members in Bridges	Peterson,Michael Zoughi,Reza	Mechanical Engineering US Department of Agriculture	8/15/98 - 8/14/00	97187901 \$161,356.20
Bridging the Materials/Mechanics/Structures Gap for Health Prediction & Monitoring of Composites	Radford,Donald W Peterson,Michael Smith,Frederick W	Mechanical Engineering NSF - Engineering Grant	9/1/98 - 8/31/01	97214301 \$597,694.00
Evaluation of Technologies for Reducing Hazardous Air Pollution Emissions	Willson,Bryan D	Mechanical Engineering GRI-Gas Research Institute	2/1/98 - 7/31/99	97167701 \$397,078.49

**Engineering - Proposals**

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Development of Natural Gas APU Engine for Hybrid Electric Buses	Willson,Bryan D	Mechanical Engineering GRI-Gas Research Institute	1/1/98 - 12/31/98	97168101 \$112,552.00

## Liberal Arts - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
A Bilingual/Bicultural Mathematics Project for Academic Advancement	Valdez,Norberto	Ctr Applied Stu Amer Ethnicity US Department of Education	7/1/98 - 6/30/01	97164701 \$599,688.89
Journey to the West: An Interdisciplinary Symposium	Sargent,Stuart H	Foreign Languages & Literature Association for Asian Studies	10/2/98 - 10/4/98	97225901 \$1,500.00
Journey to the West: An Interdisciplinary Symposium	Sargent,Stuart H	Foreign Languages & Literature Pacific Cultural Foundation	10/2/98 - 10/4/98	97225701 \$4,947.00

## Natural Resources - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Design, Field Protocols & Advice on Data Analysis for Environmental Contaminant Studies	Anderson,David R	Coop Fish & Wildlife Research DOI-USFWS-Fish & Wildlife Service	1/29/98 - 10/1/00	97186901 \$30,000.00
Adaptive Stochastic Dynamic Programming Software Development	Anderson,David R	Coop Fish & Wildlife Research DOI-USFWS-Fish & Wildlife Service	1/22/98 - 12/31/00	97166901 \$86,298.00
Coupled Remote Sensing, Energy Balance & Statistical Modeling for Assessment of Regional Snowpack...	Elder,Kevin J	Earth Resources National Aeronautics & Space Admin.	5/1/98 - 4/30/01	97161301 \$367,903.72
A Pilot & Demonstration Project Linking Field Geology to Grades 5-16 Locally through Field Trips &...	Magloughlin,Jerry F Frank,Andrew J Viney,Mike	Earth Resources NSF-GEO-Geosciences	7/1/98 - 6/30/99	97165101 \$33,643.00
Water Quality Characterization of Jackson Lake Reservoir	Stednick,John D	Earth Resources Colorado State Parks/CO Natural Areas Pg	1/1/98 - 12/31/98	97203901 \$19,318.00
Watershed Management Training	Stednick,John D Smith,Freeman M	Earth Resources Environmental Protection Agency	3/1/98 - 9/30/98	97166301 \$39,875.00
Applied Isotope Research for Industry & the Environment - Research Technician Assistance	Stein,Holly J Hannah,Judith L Morgan,John W	Earth Resources National Science Foundation	7/1/98 - 6/30/01	97171101 \$150,000.00
Acquisition of Hydraulics Instrumentation for Field-Based Research	Wohl,Ellen E Julien,Pierre Y Covich,Alan P	Earth Resources National Science Foundation	9/1/98 - 10/1/99	97187301 \$106,085.00
Determining an Appropriate Sediment Transport Model for Incorporation into Stable Reclaimed Channel Design	Wohl,Ellen E	Earth Resources University of Wyoming	6/1/98 - 6/1/00	97186701 \$77,508.00
Responses of Stream Ecosystems to Contaminants: The Influence of Environmental Heterogeneity ...	Clements,William H Duteau,Nancy M Poff,N. Leroy	Fish & Wildlife Biology Environmental Protection Agency	10/1/98 - 9/30/01	97193901 \$896,168.00
Effects of Contaminants Across Levels of Biological Organizations: Integrating Biochemical, Population...	Clements,William H Ramsdell,Howard S Black,William C Iv	Fish & Wildlife Biology Environmental Protection Agency	10/1/98 - 9/30/01	97222901 \$364,020.00
Integrating Biohydrology & Water Management to Benefit Native Fishes in the Western United States	Fausch,Kurt D	Fish & Wildlife Biology DOI-USGS-Geological Survey	9/1/98 - 8/31/01	97220301 \$267,828.00
Boulder County Caribou Ranch	Kettler,Stephan M Wunder,Michael B	Fish & Wildlife Biology Boulder County Parks & Open Spaces	4/1/98 - 12/31/98	97203701 \$16,500.00
AFA Mouse Mitigation	Schorr,Robert	Fish & Wildlife Biology US Department of Defense	1/1/99 - 12/31/00	97157101 \$507,078.08
CNAP Evening Primrose	Spackman,Susan	Fish & Wildlife Biology Colorado State Parks/CO Natural Areas Pg	4/1/98 - 2/28/99	97166501 \$4,994.06

## Natural Resources - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
TNC Crandall's Hollyhock	Spackman,Susan	Fish & Wildlife Biology The Nature Conservancy	4/1/98 - 2/28/99	97181901 \$5,362.00
Sustainability of Natural Vegetation Communities Grazed by Elk in Rocky Mountain National Park	Binkley,Daniel E	Forest Sciences Rocky Mountain Elk Foundation	5/1/98 - 12/31/99	97211301 \$39,700.00
Monitoring Fire Effects in Dinosaur National Monument	Omi,Philip N Reich,Robin M	Forest Sciences DOI-NPS-National Park Service	6/1/98 - 5/30/99	97188501 \$32,085.00
Evaluation of Wildfire Rehabilitation Treatments, Grand Junction District	Omi,Philip N	Forest Sciences DOI-BLM-Bureau of Land Management	4/1/98 - 4/30/00	97223701 \$37,407.80
Three-Dimensional Modeling of Bolted Joints in Wood	Pellicane,Patrick J Patton-Mallory,Marcia	Forest Sciences US Department of Agriculture	10/1/98 - 3/31/01	97169701 \$138,242.12
Site-Based Decision Support System for Mitigation/ Rehabilitation of Military Training & Testing Impacts	Shaw,Robert B	Forest Sciences US Department of Defense	-	97179501 \$2,000,000.00
Site-Based Decision Support System for Mitigation Rehabilitation of Military Training/Testing Impacts	Shaw,Robert B Doe,William W	Forest Sciences DOD-NAVY-ONR-Office of Naval Research	1/1/99 - 12/31/02	97208101 \$2,235,651.00
Analysis of Soil Erosion Models for Natural & Cultural Resources Applications	Shaw,Robert B	Forest Sciences DOD-ARMY	2/16/98 - 9/14/98	97170101 \$49,169.40
Responses of Hydrologic & Aquatic Ecosystems to Potential Climate Change on Watershed, Drainage Basin...	Baron,Jill Parton,William J	Natural Resource Ecology Lab DOI-NPS-National Park Service	5/1/98 - 4/30/99	97207301 \$69,000.00
An Ecological & Veterinary Approach to Wildlife & Livestock in Uganda	Coughenour,Michael B Demartini,James C Galvin,Kathleen	Natural Resource Ecology Lab University of California at Davis	6/1/98 - 5/31/01	97182901 \$252,031.00
A Model-Based Synthesis of Serengeti Nutrient Cycling at Site, Landscape, & Ecosystem Spatial Scales	Coughenour,Michael B	Natural Resource Ecology Lab Syracuse University	1/1/99 - 12/31/04	97202101 \$348,720.00
Modeling Arizona Oak Savanna Responses to Climate, Grazing, Fire & Exotic Grasses	Coughenour,Michael B	Natural Resource Ecology Lab University of Arizona	7/1/98 - 6/30/01	97180501 \$91,360.00
Living with Uncertainty	Ellis,James Galvin,Kathleen Coughenour,Michael B	Natural Resource Ecology Lab North Dakota State University	9/1/98 - 8/31/01	97180301 \$195,481.51
Development & Management of a USDA UVB Monitoring Program	Gibson,James H Bigelow,David S Slusser,James R	Natural Resource Ecology Lab US Department of Agriculture	10/1/98 - 9/30/99	97206301 \$934,773.00
Integrated WATER & Watersheds Programs	Grigg,Neil S Baron,Jill Ramirez,Jorge A	Natural Resource Ecology Lab NSF-GEO-Geosciences	10/1/98 - 9/30/03	97183501 \$22,027,740.00

## Natural Resources - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Assessing Consequences of Land Conversion on the Value of Environmental Amenities	Gross,John E Theobald,David M Loomis,John B	Natural Resource Ecology Lab Environmental Protection Agency	10/1/98 - 9/30/01	97168301 \$381,006.19
Applying Dynamic Modeling & Adaptive Management to Brucellosis	Gross,John E Lubow,Bruce C	Natural Resource Ecology Lab US Department of Agriculture	10/1/98 - 9/30/01	97175101 \$396,323.48
An Ecosystem Approach for Comparing Alternatives for Managing Elk Populations	Hobbs,N Thompson Coughenour,Michael B Ellis,James	Natural Resource Ecology Lab Colorado Division of Wildlife	3/1/98 - 2/28/99	97160501 \$55,959.00
Collaborative Land Atmosphere Transfer Experiment (C-LATTE)	Ojima,Dennis Pielke,Roger A Parton,William J	Natural Resource Ecology Lab National Aeronautics & Space Admin.	9/1/98 - 8/31/01	97193301 \$1,045,059.00
Long-Term Ecological Measurements in Loch Vale Watershed, Rocky Mountain National Park	Parton,William J Baron,Jill	Natural Resource Ecology Lab DOI-NPS-National Park Service	4/1/98 - 3/31/99	97206701 \$75,385.58
Quantifying Carbon Sequestration Potential Through Improved Pasture Management	Paustian,Keith H Elliott,Edward T	Natural Resource Ecology Lab Environmental Protection Agency	4/1/98 - 3/31/01	97203101 \$336,245.00
Large Mammalian Herbivores, Plant Interactions, & Ecosystem Processes in Five National Parks	Singer,Francis J Elliott,Edward T	Natural Resource Ecology Lab DOI-USGS-Geological Survey	5/1/98 - 9/30/98	97188901 \$35,647.00
Large Mammalian Herbivores, Plant Interactions, & Ecosystem Processes in 5 National Parks	Singer,Francis J Elliott,Edward T	Natural Resource Ecology Lab DOI-USGS-Geological Survey	10/1/98 - 4/30/99	97189101 \$36,000.00
Rapid Assessment & Monitoring of Exotic Plant Diversity in the Central Region	Stohlgren,Thomas Detling,James K	Natural Resource Ecology Lab DOI-USGS-Geological Survey	3/1/98 - 2/28/03	97167301 \$249,999.59
Development of User-Friendly Graphical Interfaces for Ecological Simulation Models	Wall,Diana H Burke,Ingrid C Lauenroth,William K	Natural Resource Ecology Lab New Mexico State University	4/1/98 - 3/31/99	97209101 \$84,761.00
Ecosystems in Extraterrestrial Systems	Wall,Diana H Ojima,Dennis	Natural Resource Ecology Lab University of Colorado	9/1/98 - 8/31/03	97167101 \$2,779,952.00
Soil & Sediment Biodiversity & Ecosystem Functioning Workshop	Wall,Diana H	Natural Resource Ecology Lab Winslow Foundation	3/15/98 - 3/14/99	97211101 \$15,500.00
McMurdo Long Term Ecological Research	Wall,Diana H	Natural Resource Ecology Lab University of Alabama	3/1/99 - 2/28/05	97165901 \$714,290.00
Nitrogen Pollution Effects on Dinitrogen Fixation & Nitrogen Dynamics of an Actinorhizal Shrub Dominate	Paschke,Mark W Redente,Edward F	Rangeland Ecosystem Science National Aeronautics & Space Admin.	10/1/98 - 9/30/01	97193101 \$997,001.26
Metal Toxicity Thresholds for Important Species in the Western United States	Redente,Edward F Paschke,Mark W Barbarick,Kenneth A	Rangeland Ecosystem Science Environmental Protection Agency	1/1/99 - 12/31/01	97213301 \$281,002.00



## Natural Resources - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Training Course in Integrated Resource Management	Woodmansee,Robert G	Rangeland Ecosystem Science	3/15/98 -	97183101
Planning in Indian Country	Rodriguez,Donald A Berry,Joyce K	DOI-BIA-Bureau of Indian Affairs	9/30/98	\$135,145.91

## Natural Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Axonal Cytoskeleton: Role in Nerve Growth & Degeneration	Bamburg,James R	Biochemistry & Molecular Bio Spinal Cord Research Foundation	7/1/98 - 9/30/98	97156501 \$7,540.00
Dependence of Neurite Outgrowth & Regeneration on ADF Activity	Bamburg,James R Meberg,Peter	Biochemistry & Molecular Bio American Paralysis Association	6/1/98 - 5/31/00	97181701 \$98,549.00
Protein/Peptide Amino Acid Sequencer	Fiol,Carol J	Biochemistry & Molecular Bio HHS-NIH-National Institute of Health	4/1/99 - 3/31/00	97207701 \$115,850.00
Modulation of CYC1 Chromatin Structure & Expression	Laybourn,Paul J	Biochemistry & Molecular Bio HHS-NIH-National Institute of Health	12/1/98 - 11/30/03	97191101 \$814,283.00
Biochemical Analysis of PHO5 Regulation	Laybourn,Paul J	Biochemistry & Molecular Bio National Science Foundation	8/1/98 - 7/31/02	97155901 \$718,692.00
XL-I Analytical Ultracentrifuge	Lumb,Kevin J	Biochemistry & Molecular Bio HHS-NIH-Nat. Ctr. for Research Resources	4/1/98 - 3/31/99	97208501 \$241,859.00
Tax Deregulation of Gene Expression through CBP	Nyborg,Jennifer K	Biochemistry & Molecular Bio American Cancer Society, Inc.	1/1/99 - 12/31/01	97219301 \$366,426.00
Biological Electron Transfer Studies	Schenck,Craig C	Biochemistry & Molecular Bio HHS-NIH-National Institute of Health	7/1/98 - 6/30/02	97174301 \$812,824.95
Scanned Probe Imaging of LH1 Protein	Schenck,Craig C	Biochemistry & Molecular Bio HHS-NIH-National Institute of Health	10/1/98 - 9/30/00	97162701 \$198,318.00
Using Genetically Engineered Plants to Elucidate Factors Controlling Heavy Metal Tolerance...	Pilon-Smits,Elizabeth A	Biology Environmental Protection Agency	9/1/98 - 8/31/00	97221901 \$252,006.00
Heavy Metal Tolerance & Homeostasis in Plants: The Role of Chloroplasts	Pilon-Smits,Elizabeth A	Biology Environmental Protection Agency	9/1/98 - 8/31/01	97222101 \$374,880.00
Methodologies for Extrapolating from Local to Regional Ecosystem Scales: Scaling Functions &...	Wiens,John A	Biology Environmental Protection Agency	9/1/98 - 8/31/01	97181301 \$586,617.00
Identification of Juvenile Hormone & Methoprene-Regulated Genes in Drosophila	Wilson,Thomas G	Biology US Department of Agriculture	7/1/98 - 6/30/01	97172701 \$247,285.88
Regional Elementary Mathematics Teacher Enhancement Project	Stein,Fredrick M	Center For Sci, Math & Tech Ed CCHE-Commission on Higher Education	4/1/98 - 8/30/99	97228101 \$60,000.00
The Solutions Project: Reducing the Cost of Chemistry Laboratory Instruction	Thompson,Stephen	Center For Sci, Math & Tech Ed DE-OPE-Postsecondary Education	10/1/98 - 8/31/00	97209301 \$222,235.00
Acquisition of Departmental Surface Analysis Equipment	Anderson,Oren P Parkinson,Bruce Alan	Chemistry National Science Foundation	7/1/98 - 6/30/99	97156301 \$485,000.00
Purchase of a Powder-Thin Film X-Ray Diffraction System	Anderson,Oren P Dorhout,Peter K	Chemistry National Science Foundation	7/1/98 - 6/30/99	97156101 \$210,207.00

## Natural Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Optical Investigations of the Mast Cell MAFA Regulatory Protein	Barisas,B George	Chemistry National Science Foundation	7/1/98 - 6/30/01	97156901 \$485,909.73
Photo-Ion & Photo-Electron Covariance Mapping of Titanium Oxide & Vanadium Oxide Clusters Employing a Table- Top Soft...	Bernstein, Elliot R Rocca, Jorge J G	Chemistry US Department of Energy	7/1/98 - 6/30/01	97171301 \$691,211.00
Covariance Mapping of Cluster Growth & Fragmentation: Titanium Oxide & Vanadium Oxide Cluster	Bernstein, Elliot R	Chemistry NSF-MPS-Mathematical & Physical Sciences	7/1/98 - 6/30/98	97182301 \$395,658.00
Acquisition of Materials Characterization Instrumentation for a Central Materials Analysis Facility at CSU	Dorhout, Peter K Grainger, David W	Chemistry NSF-Sci/Tech Ctr/STI Sci/Tech Infra Ctr	7/1/98 - 6/30/99	97162501 \$337,758.00
Investigation of Plasma Deposition & Etching Mechanisms for Silicon-Based Materials	Fisher, Ellen R	Chemistry NSF-MPS-Mathematical & Physical Sciences	7/1/98 - 6/30/01	97199101 \$429,560.76
Luminescent Materials Based on Rare Earth Doped Semiconductor Nanoclusters	Kelley, David F	Chemistry NSF-MPS-Mathematical & Physical Sciences	7/1/98 - 6/30/01	97167501 \$540,270.09
Advanced Carbon Nanotube Membrane Electrode Assembly for Direct Methanol Fuel Cells	Martin, Charles R	Chemistry DOE-Chicago	7/1/98 - 6/30/99	97209501 \$150,000.00
Quinocarcin & Bioxalomycin: Biomechanism & Synthesis	Williams, Robert M	Chemistry HHS-NIH-National Institute of Health	12/1/98 - 11/30/02	97191901 \$1,145,053.00
East Generation of NURBS Surfaces from Polygonal Mesh Models of Human Anatomy	Anderson, Charles	Computer Science CASI-Colorado Advanced Software Inst.	8/1/98 - 7/31/99	97195901 \$39,997.00
Analyzing Software Tester Behavior	Vonmayrhauser, Anneliese Howe, Adele	Computer Science CASI-Colorado Advanced Software Inst.	7/1/98 - 6/30/99	97204501 \$2,400.00
Applying Software Testing Principles to Hardware Design Verification	Vonmayrhauser, Anneliese Anderson, Charles Chen, Thomas Wei	Computer Science CASI-Colorado Advanced Software Inst.	7/1/98 - 6/30/99	97204701 \$2,400.00
Controlling the Cost of Postsecondary Education	Miranda, Henry P Stein, Fredrick M	Mathematics DE-OPE-Postsecondary Education	9/1/98 - 8/31/00	97207901 \$198,935.00
Multisensor-Multitarget Tracking: Key Unresolved Problems	Poore, Aubrey B	Mathematics DOD-BMDO-Ballistic Missile Defense Org	6/1/98 - 5/31/00	97211901 \$250,000.00
Research Experience for Undergraduates Supplement	Field, Stuart	Physics NSF-MPS-Mathematical & Physical Sciences	5/15/98 - 8/15/98	97201701 \$10,000.00
Solar Influences on Mesopause Temperatures & Implication on Global Climatic Change	She, Chiaoyao Krueger, David A	Physics National Aeronautics & Space Admin.	6/1/98 - 5/31/01	97185301 \$226,056.00
Tri-Ethnic Center for Prevention Research	Oetting, Eugene R	Psychology HHS-NIH-National Institute of Health	5/1/98 - 4/30/99	97204101 \$1,000,809.00

## Natural Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Social Network & Childhood Risk Factors for Alcohol Use	Swaim,Randall C	Psychology HHS-NIH-National Institute of Health	1/1/99 - 12/31/03	97162101 \$1,757,915.00
Theoretical & Empirical Problems in Meta-Analysis	Tweedie,Richard	Statistics HHS-NIH-National Institute of Health	8/15/98 - 8/15/01	97161501 \$423,218.16

## Vet. Medicine & Biomedical Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Role of Thyro-Adrenal Dysregulation in Depression	Handa,Robert	Anatomy & Neurobiology Northwestern University	1/1/99 - 12/30/00	97202701 \$106,917.00
Estrogen Regulation of Neuroendocrine Stress Responses	Handa,Robert	Anatomy & Neurobiology HHS-NIH-National Institute of Health	10/1/98 - 9/30/02	97189501 \$839,684.39
Subunit Changes in Aging NMDA Receptors Affect Memory	Magnusson,Kathy	Anatomy & Neurobiology HHS-NIH-National Institute of Health	12/1/98 - 11/30/02	97163101 \$893,543.22
Age-Related Changes in Subunits of the NMDA Receptor Influence Declines in Memory Function	Magnusson,Kathy	Anatomy & Neurobiology Alliance for Aging Research	9/1/98 - 8/30/00	97210901 \$200,000.00
Functional NMDA Receptor Changes in Prefrontal Cortex	Magnusson,Kathy Partin,Kathryn M	Anatomy & Neurobiology HHS-NIH-National Institute of Health	9/1/98 - 8/31/98	97208701 \$72,500.00
Aquaporin Water Channels in Brain & Spinal Cord	Rash,John E	Anatomy & Neurobiology HHS-NIH-National Institute of Health	10/1/98 - 9/30/02	97174501 \$955,429.69
Electrophysiologic, Morphologic & Biochemical Evaluation of Diabetic Neuropathy in Cats	Cuddon,Paul A	Clinical Sciences Morris Animal Foundation	7/1/98 - 6/30/00	97213901 \$30,550.00
Drug Resistance Demonstrated by Uptake of Technetium-99M-Sestamibi in Canine Osteosarcoma	Dernell,William S	Clinical Sciences Morris Animal Foundation	7/1/98 - 6/30/99	97218901 \$22,255.00
Evaluation of Intracavitary Slow Release Paclitaxel Chemotherapy in a Rodent Model	Dernell,William S	Clinical Sciences Cancer League of Colorado, Inc.	7/1/98 - 6/30/99	97194101 \$25,221.00
Cardiopulmonary & Behavioral Effects of a Constant Rate Infusion of Metemomidine & Fentanyl in the Dog	Hellyer,Peter W	Clinical Sciences Pfizer Inc - Animal Health	3/1/98 - 2/28/99	97184701 \$28,294.00
The Effect of Diazepam on Opoind-Induced Analgesia in the Dog	Hellyer,Peter W Wagner,Ann E Mama,Khursheed R	Clinical Sciences Morris Animal Foundation	7/1/98 - 6/30/99	97219501 \$23,196.00
The Effect of Carprofen on Renal Function Following Normotensive & Hypotensive Halothane Anesthesia in Dogs	Hellyer,Peter W Wagner,Ann E	Clinical Sciences Pfizer Inc - Animal Health	5/1/98 - 11/1/98	97171701 \$28,345.00
The Use of Chondrocyte Composite Grafting Techniques to Augment Healing Large Articular Defects in Horses	Mcilwraith,C Wayne Frisbie,David D	Clinical Sciences Ancea AG	2/1/98 - 12/31/98	97175302 \$68,894.00
Prostaglandin F22 Estradiol Cypionate or Excenel for the Management of Postpartum Dairy Cows.....	Stevens,Reyneld D	Clinical Sciences Upjohn Company	6/1/98 - 12/31/00	97188302 \$33,474.00
Investigation of Oxidant Stress & Antioxidant Levels in Livers of Dogs Having Congenital Portal Systemic...	Twedt,David C	Clinical Sciences American Kennel Club	7/1/98 - 7/1/99	97203301 \$22,423.00
The Role of Thiopurine Methyltransferase in the Use of Azathidprine in Dogs	White,Stephen D Rosychuk,Rod A W	Clinical Sciences Morris Animal Foundation	5/1/98 - 5/1/00	97217701 \$16,490.00

## Vet. Medicine & Biomedical Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Safety & Efficacy of NYVAC-HF & ALVAC-HF Recombinant Subunit Canine Distemper Vaccines in the...	Wimsatt,Jeffrey H	Clinical Sciences The Pet Care Trust	5/1/98 - 4/30/99	97164901 \$10,822.28
Melatonin in Breast Cyst Fluids: A Potential Biomarker of Breast Cancer Risk	Burch,James B	Environmental Health Cancer League of Colorado, Inc.	7/1/98 - 6/30/99	97196101 \$29,981.00
Comparing the Magnitude of Environmental Preferences Using Monetized & Non-Monetized Valuation	Nuckols,John R	Environmental Health Environmental Protection Agency	10/1/98 - 9/30/01	97166101 \$380,411.27
Conference of the International Society of Veterinary Epidemiology	Salman,M D	Environmental Health USDA-APHIS-Animal Damage Control	6/17/97 - 9/16/00	97189901 \$5,000.10
Molecular Diagnosis & Screening for M. Bovis Infection in Ungulates	Salman,M D	Environmental Health US Department of Agriculture	2/1/98 - 2/1/98	97195502 \$50,000.00
Persistence of Vesicular Stomatitis Virus & Factors Associated with Recurrence of Disease	Salman,M D	Environmental Health Morris Animal Foundation	7/1/98 - 6/30/01	97218701 \$139,463.00
Molecular Genetic Tools for Epidemiologic Studies of Mycobacterium Bovis in Cattle	Salman,M D Black,William C Iv Ellis,Robert P	Environmental Health US Department of Agriculture	10/1/98 - 9/30/01	97168501 \$370,170.58
Rural School-Based Interventions to Increase Child Occupant Restraint Use	Stallones,Lorann	Environmental Health HHS-CDC-Centers for Disease Control	9/1/98 - 8/31/01	97188701 \$622,446.00
Developing a Predictive Strategy for Chemical Mixtures	Yang,Raymond S H	Environmental Health HHS-NIH-National Institute of Health	7/1/98 - 6/30/03	97180701 \$1,688,403.97
Glycoproteins of Mycobacterium Tuberculosis	Belisle,John T Spencer,John S	Microbiology HHS-NIH-National Institute of Health	12/1/98 - 11/30/03	97160701 \$1,171,865.00
Genetics of Vector Competence for Bluetongue Virus	Black,William C Iv	Microbiology US Department of Agriculture	9/1/98 - 8/31/01	97170901 \$238,367.66
Analysis of Biogeography, Habitat, & Host Association in Ticks	Black,William C Iv	Microbiology National Science Foundation	5/1/98 - 4/30/99	97164501 \$9,996.50
Molecular Genetic Control of Vector Potential	Carlson,Jonathan O Beaty,Barry J	Microbiology HHS-NIH-National Institute of Health	2/1/99 - 1/31/04	97203501 \$1,996,611.00
Regulation of Dormancy in Mycobacterium Tuberculosis	Orme,Ian M	Microbiology University of Pennsylvania	7/1/02 - 6/30/03	97167901 \$84,911.33
Chronic Tuberculosis: Latent or Dynamic?	Orme,Ian M	Microbiology HHS-NIH-National Institute of Health	11/1/98 - 10/31/03	97174101 \$1,293,213.68
Antigen Presentation in Malaria Infection	Avery,Anne C	Pathology HHS-NIH-National Institute of Health	12/1/98 - 11/30/02	97192101 \$998,353.00

## Vet. Medicine & Biomedical Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Rumen Pneumotoxic Metabolites & Acute Interstitial Pneumonia in Feedlot Cattle	Gould,Daniel H	Pathology US Department of Agriculture	7/1/98 - 6/30/01	97170301 \$323,464.72
Strain Alignment in the Pathogenesis of Microdamage & Subchondral Bone Failure in Osteochondrosis	Norrdin,Robert W	Pathology Morris Animal Foundation	1/1/99 - 12/31/99	97223101 \$9,965.00
Development of Transgenic & Gene Ablation Techniques in Ruminant Animals	Anthony,Russell V Bowen,Richard A	Physiology USDA-CSRS-CGP-Competitive Grants Program	10/1/98 - 9/30/01	97182101 \$310,252.11
Fetal Growth Retardation: Interaction of Early Placental Development & Function	Anthony,Russell V	Physiology US Department of Agriculture	10/1/98 - 9/30/01	97155701 \$142,317.40
Genetic Immunization for Control of Vesicular Stomatitis in Cattle & Horses	Bowen,Richard A	Physiology US Department of Agriculture	8/1/98 - 7/31/00	97170701 \$143,365.00
Molecular & Functional Characterization of the Bovine Mx Antiviral System	Bowen,Richard A	Physiology USDA-CSRS-CGP-Competitive Grants Program	9/1/98 - 8/30/00	97182701 \$114,166.30
Methods to Enhance Viability of Cooled Stallion Sperm	Graham,James K Squires,Edward L Bruemmer,Jason	Physiology AQHA-American Quarter Horse Assoc.	10/1/98 - 9/30/99	97185501 \$33,005.00
GnRH-Toxin Conjugates for Chemical Castration	Nett,Torrance M	Physiology US Department of Agriculture	9/1/98 - 8/31/01	97168901 \$262,881.80
Regulation of LH Receptors & Progesterone Secretion	Niswender,Gordon D Clay,Colin	Physiology HHS-NIH-National Institute of Health	12/1/98 - 11/30/03	97191301 \$1,000,636.00
Molecular Control of Luteal Secretion of Progesterone in Ruminants	Niswender,Gordon D	Physiology US Department of Agriculture	9/1/98 - 8/31/01	97165301 \$272,140.16
Fifth International Symposium on Reproductive in Domestic Ruminants	Niswender,Gordon D	Physiology US Department of Agriculture	7/1/98 - 9/30/98	97170501 \$17,100.00
Organization of LH Receptors on Luteal Cell Membranes	Roess,Deborah A	Physiology National Science Foundation	7/1/98 - 6/30/02	97156701 \$418,352.07
Initiation of Folliculogenesis in Sheep & Cattle	Sawyer,Heywood R Clay,Colin	Physiology US Department of Agriculture	9/1/98 - 8/31/00	97168701 \$167,777.62
Gene Expression in Bovine Pregnancies from IVF & Cloned Embryos	Seidel,George E.Jr Anthony,Russell V Garry,Franklyn B	Physiology US Department of Agriculture	9/1/98 - 8/31/00	97191501 \$271,078.91
Molecular Mechanisms of Altitude Induced Pulmonary Hypertension in Cattle	Tamkun,Michael Tucker,Alan	Physiology US Department of Agriculture	9/1/98 - 8/31/01	97169101 \$287,883.78
NOS & VEGF Expression in Hypoxic Neonatal Rats	Tucker,Alan Rhodes,Jann	Physiology HHS-NIH-National Institute of Health	12/1/98 - 11/30/02	97162901 \$517,787.87

## Vet. Medicine & Biomedical Sciences - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Radiation, Chromosomal Aberrations, Mutations & RBE	Bedford,Joel S	Radiological Health Sciences HHS-NIH-National Institute of Health	12/1/98 - 11/30/01	97164101 \$772,053.94
Radiation-Induced Breast Cancer	Elkind,Mortimer M	Radiological Health Sciences HHS-NIH-National Institute of Health	4/1/99 - 3/31/02	97160901 \$1,817,728.00
Immortalization of Cells for Breast Cancer Study	Elkind,Mortimer M	Radiological Health Sciences Cancer League of Colorado, Inc.	7/1/98 - 6/30/99	97192501 \$22,900.00
Modulating Apoptosis Through the Regulation of Heat Shock Protein 70	Fox,Michael H	Radiological Health Sciences Cancer League of Colorado, Inc.	7/1/98 - 6/30/98	97197501 \$23,073.00
Assessment of Plutonium Burdens in People Living Around the Rocky Flats Plant	Ibrahim,Shawki A	Radiological Health Sciences US Department of Energy	8/1/98 - 7/31/99	97193701 \$49,630.00
Molecular Cytogenetics of Canine Cancer	Larue,Susan M	Radiological Health Sciences Morris Animal Foundation	9/1/98 - 8/31/01	97217901 \$90,000.00
Radionuclides in Shallow Water Sediments at CANDU Nuclear Generating Stations	Rowan,David J	Radiological Health Sciences Atomic Energy of Canada Limited (AECL)	2/1/98 - 3/27/98	97192302 \$23,180.00



## Other - Proposals

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Key #/\$Amount</b>
Youth and Young Adult DUI Prevention, Decrease Underage Drinking	Luevane,Carmen Mendoza	Cooperative Extension Colorado Department of Transportation	10/1/98 - 9/30/99	97208901 \$178,562.00
Rehabilitation of the Potting Shed	Hurt,Nancy K	Facilities Management Colo Dept Higher Educ-Historical Society	10/1/98 - 7/31/99	97219101 \$29,200.00
Drug/Alcohol Zero Tolerance Grant for Education & Enforcement	Chaffee,Robert J	University Police Bacchus and Gamma Peer Educ Network	3/14/98 - 5/30/98	97208301 \$3,500.00

## **Section III**

### **Awards Received for Current Quarter**

## Agricultural Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
A Microbial Profile of Domestic & Imported Beef Raw Material Destined for Use In Ground Beef Production	Belk,Keith	Animal Sciences Agri-West Laboratory	12/15/97 - 3/31/98	5368 \$31,600.00
Effects of Calf Removal & Time of Insemination on Pregnancy Rates in Suckled...	Geary,Thomas W Whittier,Jack C	Animal Sciences National Association of Animal Breeders	7/1/97 - 12/31/98	5374 \$14,920.00
Synchronization of Ovulation Using hCG or GnRH with the CO-Synch Protocol in Suckled Beef Cows	Geary,Thomas W Whittier,Jack C	Animal Sciences National Association of Animal Breeders	7/1/98 - 6/30/99	5380 \$14,980.00
Development of Browse Data Base	Irlbeck,Nancy A	Animal Sciences Denver Zoological Foundation	2/19/97 - 2/19/99	5440 \$7,529.83
Western SARE Professional Development Program	Lamm,W Dennis	Animal Sciences Utah State University	7/1/97 - 12/31/98	1325 \$9,500.00
Determining Microbiological Counts on Beef Carcasses, Wholesale Cuts & Retail Cuts, to Assist Those in the...	Sofos,John N Belk,Keith Smith,Gary C	Animal Sciences Nat'l Cattlemen's Beef Association	12/1/97 - 8/31/98	5373 \$264,125.00
Arkansas Valley Project	Schweissing,Frank C	Arkansas Valley Research Ctr Various "For Profit" Sponsors	6/23/92 - 12/31/98	6751 \$4,500.00
Field Evaluation of Barley Germplasm for Reaction to Barley Stripe Rust	Brown,William M Jr	Bioagricultur Sci & Pest Mgmt USDA-ARS-Agricultural Research Service	6/1/96 - 5/31/01	2067 \$15,000.00
Development of Improved Quality & High Yield in Wheat Germplasm in Colorado	Hill,Joseph P Quick,James S	Bioagricultur Sci & Pest Mgmt Colorado Wheat Administrative Commission	7/1/97 - 6/30/98	8305 \$5,000.00
MacArthur Program: Physical Mapping	Knudson,Dennis L	Bioagricultur Sci & Pest Mgmt MacArthur Foundation *	1/1/90 - 12/31/98	5189 \$36,786.00
Mapping of Filarial Vector Competence in Aedes Aegypti	Knudson,Dennis L	Bioagricultur Sci & Pest Mgmt HHS-PHS-AID-Microbio & Infectious Dis Re	4/1/98 - 3/31/03	7785 \$328,944.00
Colorado Pesticide Impact Assessment Program	Mcdonald,Sandra K	Bioagricultur Sci & Pest Mgmt USDA-CSRS-Coop. States Research Service	1/1/97 - 12/31/98	1423 \$13,993.00
Vegetable Disease Management-Environmental Monitoring	Schwartz,Howard F	Bioagricultur Sci & Pest Mgmt Various "Non-Profit" Sponsors	5/1/90 - 12/31/97	6628 \$15,000.00
Agronomic Research in Western Colorado	Pearson,Calvin H	Fruita Research Center Various "Non-Profit" Sponsors	7/1/91 - 12/31/98	6667 \$9,000.00
Flower Trial Garden	Klett,James E	Horticulture & Landscape Arch Various "Non-Profit" Sponsors	1/1/91 - 12/31/97	6636 \$27,050.00
Faculty Exchange Program	Spencer,William P	Intl Agricultural Program USDA-Foreign Agricultural Service	4/20/97 - 4/30/98	2099 \$28,674.00

## Agricultural Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Potato Breeding Program	Holm,David G	San Luis Valley Research Ctr University of California at Davis	1/1/93 - 12/31/98	5063 \$4,000.00
Biosolids Research & Conference	Barbarick,Kenneth A Redente,Edward F	Soil & Crop Sciences Colorado Dept Public Health & Environ	5/15/95 - 12/31/97	0794 \$9,880.00
Colorado Seed Growers	Barbarick,Kenneth A	Soil & Crop Sciences Colorado Seed Growers Association	7/1/97 - 6/30/98	5177 \$87,666.00
Bean Breeding Program	Brick,Mark A	Soil & Crop Sciences Colorado Dry Bean Advisory Board	11/1/92 - 12/31/98	5254 \$11,400.00
Evaluation of the Acid-buffering Capacity and Metal Mobility of Southwest San Luis Valley..	Cardon,Grant E Kelly,Eugene F	Soil & Crop Sciences Colorado Dept Public Health & Environ	10/1/95 - 5/8/98	0890 \$14,300.00
Improving Manure Management to Protect Water Quality in the Southwestern U.S.	Davis,Jessica G	Soil & Crop Sciences Utah State University	6/16/97 - 9/30/98	1301 \$17,333.00
Reducing Environmental Contamination from Feedlot Manure in the South Platte River...	Davis,Jessica G Alldredge,Jerry K	Soil & Crop Sciences Utah State University	7/1/96 - 12/31/98	1356 \$116,838.00
Determination of Rhizobial Abundance on Alfalfa Seed	Doxtader,Kenneth G	Soil & Crop Sciences Various "For Profit" Sponsors	6/1/92 - 12/31/98	6746 \$883.00
Bean Testing Project	Shanahan,John Johnson,Jerry J	Soil & Crop Sciences Colorado Dry Bean Advisory Board	6/1/92 - 12/31/98	5648 \$10,500.00
Soil Fertility Studies	Westfall,Dwayne G	Soil & Crop Sciences Various "For Profit" Sponsors	4/1/91 - 6/30/98	6642 \$3,000.00
Southwest Colorado Research Center Outreach	Berrada,Abdelfettah	Southwestern Colorado Res Ctr Various "Non-Profit" Sponsors	1/18/96 - 1/18/98	5060 \$3,600.00
South Western Colorado Crop Research	Sommers,Lee E Berrada,Abdelfettah	Southwestern Colorado Res Ctr Colorado Dry Bean Advisory Board	11/1/92 - 12/31/98	5253 \$2,000.00

## Applied Human Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Diet & Exercise Effects in Obese Postmenopausal Women	Davy, Kevin	Exercise & Sport Science HHS-PHS-Aging Research	4/1/96 - 3/31/01	7767 \$96,109.00
Reduction in Severity of Exercise-Induced Asthma with Low Sodium Diet	Gotshall, Robert W	Exercise & Sport Science USOC-United States Olympic Committee	1/1/98 - 12/31/98	5600 \$12,414.00
Evaluation of an Instructional Elementary School Model to Achieve 5-A Day Outcomes	Auld, Garry W	Food Science & Human Nutrition Colorado Dept Public Health & Environ	10/1/97 - 9/30/98	0221 \$40,857.00
Food Stamp Nutrition Education Program Integrated Nutrition Program	Auld, Garry W	Food Science & Human Nutrition University of Colorado Health Sci Ctr	10/1/97 - 9/30/98	0243 \$18,530.00
Training Grant - Workshop & Education Materials Development	Grady, Ann P	Occupational Therapy University of Colorado Health Sci Ctr	7/1/96 - 6/30/98	4009 \$26,976.00
Employment Retention Project	Sample, Pat L	Occupational Therapy Colorado Division of Rehabilitation	10/1/97 - 12/31/97	0982 \$25,790.00
Community Integrated Employment/Partnerships in Employment through Natural... Transition to Community Employment	Schelly, Catherine L	Occupational Therapy Foothills Gateway Rehabilitation Center	7/1/97 - 6/30/98	5178 \$187,431.00
Development & Delivery of Assistive Technology Training	Scott, Erin E Roll, Marla C	Occupational Therapy Poudre R-1	1/1/98 - 5/31/98	5370 \$6,223.00
Development of Performance Based Transcripts	Cobb, R Brian	School Of Education CCHE-Commission on Higher Education	7/1/97 - 6/30/98	0124 \$8,000.00
Evaluation of the Education Program - MSCD Lab School at Lookout Mountain Youth...	Cobb, R Brian	School Of Education Colorado Department of Human Service	11/1/97 - 8/31/98	0214 \$29,151.00
Thailand Skills Development Project	Feller, Richard I	School Of Education CID-Consortium for Inter. Development	3/1/98 - 2/28/00	9227 \$116,681.00
Career, Labor Market & Equity Clearinghouse	Feller, Richard W	School Of Education C.D. of Ed./Comm. College & Occup. Ed.	7/1/97 - 6/30/98	0043 \$60,000.00
Project F.O.C.U.S.	Ginsberg, Richard	School Of Education C.D. of Ed./Comm. College & Occup. Ed.	7/1/97 - 6/30/98	0061 \$60,000.00
Tech Prep Technical Assistance	Gloeckner, Gene Lyons, Linda M	School Of Education C.D. of Ed./Comm. College & Occup. Ed.	7/1/97 - 6/30/98	0042 \$40,000.00
Vocational Credentialing & Testing Services	Hollingsworth, Jay E	School Of Education C.D. of Ed./Comm. College & Occup. Ed.	7/1/97 - 6/30/98	0062 \$64,393.00

## Applied Human Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Preparing Service Learning Educators for the Year 2000	Mcwhorter,Barbara A Paccione,Angela Richburg,Robert W	School Of Education Colorado Department of Education	1/1/98 - 12/31/98	0249 \$10,000.00

## Business - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Juvenile Seat Belt Study	Francis,G James	Inst For Transportation Mgt Colorado Department of Transportation	10/1/97 - 9/30/98	0211 \$17,982.00
Tribal Technical Assistance Program	Francis,G James Hall,Ronald C	Inst For Transportation Mgt DOT-Federal Highway Administration	1/1/98 - 12/31/98	1026 \$3,205.00
Tribal Technical Assistance Program	Francis,G James Hall,Ronald C	Inst For Transportation Mgt DOT-Federal Highway Administration	1/1/98 - 12/31/98	1027 \$46,795.00
CDOT Leadership Development Institute Program - Phase III	Kaman,Vicki S	Inst For Transportation Mgt Colorado Department of Transportation	1/12/98 - 3/12/98	0246 \$11,755.88
Communication Training for Managers	Lemay,Elaine A Jankovich,Jackie L	Management Schlumberger Dowell	3/1/98 - 4/1/98	6309 \$6,042.20
The Effect of Tombstone Advertisements on Selling Beer & Tobacco	Kelly,Kathleen J	Marketing Robert Wood Johnson Foundation	7/1/97 - 12/31/99	5443 \$199,640.00

## Engineering - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Modeling & Analysis of Convective Storms	Cotton,William R	Atmospheric Science NSF-GEO-Geosciences	3/1/95 - 2/28/99	3079 \$296,055.00
Simulations of Cloud/Radiative Responses to Variations in Cloud Condensation Nuclei	Cotton,William R	Atmospheric Science NSF-GEO-Geosciences	5/1/96 - 4/30/99	3136 \$102,000.00
Significant Opportunities in Atmospheric Research & Science (SOARS) Scholarship -Janel Cobb	Cox,Stephen K	Atmospheric Science UCAR-NCAR-SOARS	8/15/96 - 12/31/98	3402 \$25,488.00
Ice Formation Processes in Upper Tropospheric Conditions	Demott,Paul J Kreidenweis-Dandy,Sonia M Rogers,David C	Atmospheric Science NSF-GEO-Geosciences	1/15/97 - 12/31/98	3147 \$170,000.00
Hurricane Inner Core & Outer Radius Structure & Maximum Potential Intensity	Gray,William M	Atmospheric Science NSF-GEO-Geosciences	2/15/97 - 1/31/00	3173 \$87,000.00
Coupling Atmospheric, Ecologic, & Hydrologic Processes in a Regional Climate Model	Pielke,Roger A Liston,Glen E	Atmospheric Science National Aeronautics & Space Admin.	3/2/98 - 3/1/99	1978 \$123,859.00
A Regional Assessment of Land Use Effect on Ecosystem Structure & Function...	Pielke,Roger A	Atmospheric Science EPA-Environmental Education Grants	10/1/96 - 9/30/99	5856 \$143,322.00
Global & Regional Modeling of the Atmospheric Hydrological Cycle Using Water Vapor...	Randall,David A	Atmospheric Science Calif. Inst. of Tech/Jet Propulsion Lab	11/18/96 - 9/30/99	2715 \$33,936.00
Use of ARM Data to Develop & Test Improved Cloud Parameterization for Use in...	Randall,David A	Atmospheric Science US Department of Energy	12/1/94 - 1/31/01	3822 \$225,000.00
Relations Between Ice Nuclei and Ice Formation in Clouds	Rogers,David C Demott,Paul J Kreidenweis-Dandy,Sonia M	Atmospheric Science NSF-GEO-Geosciences	1/15/98 - 12/31/00	3281 \$113,967.00
Dynamical & Electrical Studies of Convection	Rutledge,Steven A	Atmospheric Science NSF-GEO-Geosciences	3/1/98 - 2/28/01	3293 \$117,709.00
Water Vapor in the Climate System	Stephens,Graeme L Vonderhaar,Thomas H	Atmospheric Science National Aeronautics & Space Admin.	11/1/96 - 10/31/99	1935 \$300,000.00
A Modeling & Remote Sensing Study of the Radiative Heating of Clouds in Support of ARM	Stephens,Graeme L Gabriel,Philip Mitri	Atmospheric Science US Department of Energy	12/1/93 - 11/30/98	3807 \$190,000.00
An ARM Spectrally Scanning Radiometer (ASSR) for Measuring Solar Fluxes & Radiances	Stephens,Graeme L Mccoy,Robert F Jr	Atmospheric Science DOE-Office of Energy Research	1/1/97 - 12/31/99	3818 \$178,526.00
The Use of Lidar/Radiometer (LIRAD) In The ARM Program to Obtain Optical Proper...	Stephens,Graeme L	Atmospheric Science DOE-Office of Energy Research	3/1/98 - 2/28/99	3868 \$110,000.00
Reactive Blending via Metal-ligand Coordination in Polymeric Complexes	Belfiore,Laurence A	Chemical & Biores Engineering NSF-MPS-Mathematical & Physical Sciences	4/1/96 - 3/31/00	3109 \$17,994.00



## Engineering - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Nonflowing Chemical Processing for Thin Film Manufacturing	Mcconica,Carol M	Chemical & Biores Engineering Lucent Technologies, Inc.	10/1/97 - 9/30/99	5461 \$50,000.00
REU in Chemical Engineering Using the Colorado Bioprocessing Center	Murphy,Vincent G Batt,Brian C	Chemical & Biores Engineering NSF - Engineering Grant	2/1/96 - 1/31/99	3034 \$58,794.00
Sustainable Irrigation Development in Indonesia	Oad,Ramchand	Chemical & Biores Engineering CID-Consortium for Inter. Development	5/15/97 - 6/14/98	9226 \$11,950.00
Bioremediation Technology in the Engineering Curriculum	Reardon,Kenneth F Murphy,Vincent G	Chemical & Biores Engineering NSF - Engineering Grant	9/15/95 - 8/31/98	3502 \$115,416.00
Integrated Research on Hazardous Waste Chemical Mixtures	Reardon,Kenneth F	Chemical & Biores Engineering HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7798 \$128,259.00
Predictability in Well Posed Regional Mesoscale Models	Browning,Gerald L	Cira DOD-USAF-Air Force	1/15/98 - 11/14/98	7303 \$135,488.00
Simulations of the Interaction Between Deep Convection & the Ocean Mixed Layer During...	Cotton,William R Pielke,Roger A Walko,Robert L	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	2/11/97 - 6/30/01	1224 \$80,000.00
Co-Instructor for the COMET Satellite Meteorology Course	Kidder,Stanley Q	Cira UCAR-NCAR-COMET Atmospheric Tech. Divis.	10/1/97 - 12/31/97	1112 \$7,322.00
Co-Instructor for the COMET Satellite Meteorology Courses	Kidder,Stanley Q	Cira UCAR-NCAR-COMET Atmospheric Tech. Divis.	1/26/98 - 4/27/98	1113 \$7,468.00
Development of Advanced Applications Products Using AMSU Data	Kidder,Stanley Q Vonderhaar,Thomas H	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	12/1/97 - 6/30/01	1233 \$161,200.00
UCAR Hydrometeorologist for COMET	Vonderhaar,Thomas H Kelsch,Matthew	Cira UCAR-NCAR-COMET Atmospheric Tech. Divis.	4/1/97 - 9/30/98	1111 \$29,733.00
Air-Sea Interaction Remote Sensing Processes	Vonderhaar,Thomas H Frisch,Alfred S	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	6/19/96 - 6/30/01	1204 \$49,913.00
CIRA Activities & Participation in the GOES I-M Product Assurance Plan	Vonderhaar,Thomas H	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	10/1/96 - 6/30/01	1225 \$600,000.00
Funds for Satellite Data Reception & Analysis Support	Vonderhaar,Thomas H	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	10/1/96 - 6/30/01	1227 \$75,000.00
GIMPAP Development for Support of the Virtual Institute for Satellite Integration Training	Vonderhaar,Thomas H	Cira DOC-NOAA-Natl Oceanic & Atmospheric Admn	1/1/98 - 6/30/01	1235 \$300,000.00
Seacliff Pump Station Model	Abt,Steven R Brisbane,Thomas E	Civil Engineering Hanson, Bridgett, Marcus, Vlahos & Ru...	4/1/98 - 12/31/98	6307 \$38,200.00

## Engineering - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Bedload Transport Processes in Gravel-Bed Rivers	Abt,Steven R	Civil Engineering USDA-USFS-Rocky Mtn. Rsrch Station - CO	4/26/96 - 3/31/99	8760 \$47,528.00
A Partnership for the Advancement of Knowledge in the Area of Space Launch Systems & Space Fluid Mech...	Brower,Timothy L	Civil Engineering Lockheed Corporation *	1/1/98 - 12/31/98	2626 \$17,423.00
Passive Viscoelastic Damping Systems	Cermak,Jack E	Civil Engineering 3-M Corporation	1/1/94 - 12/31/99	6873 \$12,500.00
Development of an Integrated System of Flow Forecasting for the Maule R. Basin, Chile	Diaz,Gustavo Eugenio Salas,Jose D	Civil Engineering Catholic University of Chile	11/15/96 - 4/30/99	5730 \$71,837.00
Snow Monitoring in the Maule River Basin	Diaz,Gustavo Eugenio	Civil Engineering Colbun Machicura S.A.	1/15/98 - 3/15/98	5736 \$42,588.00
Integrated Model for Optimization of Water Allocations	Diaz,Gustavo Eugenio	Civil Engineering USDA-USFS-Rocky Mtn. Rsrch Station - CO	5/16/94 - 3/1/99	8803 \$15,000.00
Navigation Channel Widening at Crossings on Lower Mississippi	Gessler,Daniel	Civil Engineering DOD-ARMY-Corps of Engineers	12/22/97 - 4/21/98	7302 \$27,940.00
Cooperative Agreement for Technical Assistance in Water Resource Investigations	Julien,Pierre Y	Civil Engineering DOI-Bureau of Reclamation	11/21/96 - 9/30/02	1877 \$63,100.00
CSU/TTU Cooperative Wind Engineering Program	Meroney,Robert N	Civil Engineering National Science Foundation	3/14/97 - 12/31/99	3200 \$20,000.00
DEC Monitoring Sites 1996-1998	Watson,Chester C Abt,Steven R	Civil Engineering DOD-ARMY-Corps of Engineers	12/22/95 - 12/22/98	2590 \$387,227.00
Geomorphic Assessment in Vicinity of Old River Complex	Watson,Chester C	Civil Engineering DOD-ARMY-Corps of Engineers	2/12/98 - 9/30/98	7355 \$5,200.00
Tropical Rainfall Measuring Mission Ground Validation	Chandrasekar,V	Electrical Engineering University of Iowa	7/1/97 - 6/30/98	2719 \$10,000.00
Behavioral Level Design Verifications Using Software Testing Techniques & Neural Networks	Chen,Thomas Wei Vonmayrhauser,Anneliese Anderson,Charles	Electrical Engineering NSF-CISE-Computer & Info Sci & Engin	8/1/96 - 7/31/99	3514 \$9,993.00
Software for Integrated Network Communications Architecture	Jayasumana,M A Anura P	Electrical Engineering Mitech Corporation	10/1/96 - 7/15/98	6214 \$24,905.00
Micro-Optics Fabrication	Menoni,Carmen S	Electrical Engineering University of Colorado	2/1/98 - 6/30/98	0252 \$3,000.00
Basic Issues of the Dynamics & Radiation of Capillary Plasmas	Rocca,Jorge J G	Electrical Engineering NSF - Engineering Grant	12/1/97 - 8/31/00	3385 \$10,000.00

## Engineering - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Diagnostics of Dense Plasmas with a Table-top Soft X-Ray Laser	Rocca,Jorge J G	Electrical Engineering US Department of Energy	11/15/97 - 11/14/99	3867 \$199,000.00
CHAD/Adept Robot Workcell Support	Alciatore,David	Mechanical Engineering Ford Microelectronics, Inc. (FMI)	2/11/98 - 2/10/99	6295 \$12,937.00
Westnet Renewal - Regional Connectivity	Burns,Patrick J	Mechanical Engineering NSF-CISE-Computer & Info Sci & Engin	9/1/94 - 8/31/98	3004 \$56,280.00
Colorado Manufacturing Extension Center Consulting for the Piton Foundation	Cherian,Sunil	Mechanical Engineering Piton Foundation	2/1/98 - 6/30/98	5460 \$16,120.00
Testing Services to ADC Projects	Cherian,Sunil	Mechanical Engineering Co-Create, Inc.	3/12/98 - 6/12/98	6304 \$6,000.00
New Mexico State University Pollution Prevention Program Subcontract	Edwards,Harry W	Mechanical Engineering New Mexico State University	4/2/97 - 3/20/98	5929 \$2,000.00
Research Experiences for Undergraduates in Mechanical Engineering	James,Susan P	Mechanical Engineering NSF - Engineering Grant	2/1/96 - 1/31/99	3043 \$47,743.00
Engineering Total Joint Replacement Materials to Utilize In Vivo Lubrication Mechanisms	James,Susan P	Mechanical Engineering Whitaker Foundation	1/1/97 - 12/31/99	5432 \$61,004.00
Dynamic Materials Internship	Scheuerman,J. David Troxell,Wade O	Mechanical Engineering Dynamic Materials Corporation	11/4/97 - 5/31/98	6281 \$3,000.00
Harras Custom Products CNC Mill Applications	Scheuerman,J. David Troxell,Wade O	Mechanical Engineering Harras Custom Products, Inc.	1/26/98 - 2/27/98	6292 \$5,102.00
Harras Custom Products Shop Operations	Scheuerman,J. David Troxell,Wade O	Mechanical Engineering Harras Custom Products, Inc.	3/2/98 - 4/30/98	6303 \$5,102.00
IPA for Dr. Tong - Program Director of the Thermal Transport & Thermal Processing Prog...	Tong,Timothy	Mechanical Engineering National Science Foundation	9/4/96 - 9/3/97	3124 \$2,587.00
Consulting to Piton Foundation in the Denver Workforce Initiative Project	Troxell,Wade O Cherian,Sunil	Mechanical Engineering Piton Foundation	10/14/97 - 2/28/98	5456 \$3,000.00
Dynamic Simulation Model Project	Troxell,Wade O	Mechanical Engineering Storage Technology Corporation *	6/1/98 - 5/31/99	6308 \$79,991.00
Charge Sensor Construction & Testing	Wilbur,Paul J	Mechanical Engineering Electric Propulsion Lab	3/5/98 - 1/5/00	2720 \$80,000.00
Emission Reduction & Performance Optimization for Large, Industrial High-Speed...	Willson,Bryan D Hutcherson,Gary	Mechanical Engineering GRI-Gas Research Institute	2/1/98 - 12/31/98	5376 \$310,000.00
Evaluation of Technologies for Non-Lubricated 2-Stoke Cycle Engines	Willson,Bryan D	Mechanical Engineering Vairex Corporation	2/1/98 - 1/31/99	6296 \$10,000.00

## Liberal Arts - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Non-Extant & Removed Structures	Berwanger,Eugene H	History DOI-NPS-National Park Service	12/1/97 - 2/1/98	4114 \$2,525.00
Irrigation Enterprise Management Study	Wilkins-Wells,John R Anderson,Raymond L Oad,Ramchand	Sociology DOI-Bureau of Reclamation	2/12/96 - 1/31/99	4185 \$48,400.00

## Natural Resources - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
97/98 'S' Account	Anderson,David R	Coop Fish & Wildlife Research Colorado Division of Wildlife	7/1/97 - 6/30/98	0055 \$20,000.00
Study of Possible Long-Term Declines in the Annual Probability of Survival in North Ame...	Anderson,David R Burnham,Kenneth	Coop Fish & Wildlife Research DOI-National Biological Survey	7/1/97 - 12/1/98	1874 \$9,000.00
Federal Flood Assistance	Anderson,David R	Coop Fish & Wildlife Research DOI-USGS-Geological Survey	12/8/97 - 2/27/98	2803 \$7,805.00
Federal Flood Assistance	Anderson,David R	Coop Fish & Wildlife Research DOI-USGS-Geological Survey	12/8/97 - 9/30/98	2809 \$2,995.00
97/98 Aquatic Studies	Bergersen,Eric P	Coop Fish & Wildlife Research Colorado Division of Wildlife	7/1/97 - 6/30/98	0056 \$24,500.00
97/98 Whirling Disease PCR & Pepsin- Trypsin Development	Bergersen,Eric P	Coop Fish & Wildlife Research Colorado Division of Wildlife	7/1/97 - 6/30/98	0057 \$57,000.00
97/98 Whirling Disease Transmission in Lakes	Bergersen,Eric P	Coop Fish & Wildlife Research Colorado Division of Wildlife	7/1/97 - 6/30/98	0058 \$43,664.00
Pond Analysis	Bergersen,Eric P	Coop Fish & Wildlife Research Colorado Division of Wildlife	2/11/98 - 6/30/98	0245 \$8,000.00
Development of a Comprehensive Database of Existing Data on Pathogens & Parasites	Bergersen,Eric P	Coop Fish & Wildlife Research DOI-USFWS-Fish & Wildlife Service	1/27/98 - 1/31/99	4119 \$30,000.00
97/98 Grouse Research	Burnham,Kenneth	Coop Fish & Wildlife Research Colorado Division of Wildlife	7/1/97 - 6/30/98	0054 \$28,000.00
GIS Training/India	Smith,Freeman M	Dean Of Natural Resources USDA-Foreign Agricultural Service	10/15/97 - 11/15/97	2048 \$825.00
Environment & Conservation Management Curricula Development	Smith,Freeman M	Dean Of Natural Resources World Wildlife Fund	12/8/97 - 7/31/98	5707 \$80,000.00
Snow Distribution & Runoff Forecasting, Kings River Basin, California	Elder,Kevin J	Earth Resources DOD-ARMY-Corps of Engineers	8/15/96 - 8/14/99	2322 \$13,039.00
Direct Ar-Ar Dating of Pseudotachylyte (Dating Ancient Earthquakes)	Magloughlin,Jerry F	Earth Resources University of Michigan	4/1/97 - 3/31/98	4193 \$16,904.00
Prepare a Water Resources Scoping Report for the Mojave National Preserve	Smith,Freeman M Kunkle,Samuel	Earth Resources DOI-NPS-National Park Service	3/1/98 - 12/31/98	2811 \$15,009.00
Water Resources Management Plan for the Chattahoochee River National Recreation Area	Smith,Freeman M Kunkle,Samuel	Earth Resources DOI-NPS-National Park Service	12/1/97 - 9/30/98	4195 \$25,300.00
Short Term Training Course in Snow Hydrology	Smith,Freeman M Boyne,Harold S	Earth Resources Winrock International	12/30/97 - 2/2/98	5363 \$20,484.00

## Natural Resources - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Characterize the Geomorphic Effects of the 1997 Flooding Along Yuma Wash, AZ	Wohl, Ellen E	Earth Resources DOD-ARMY-ARO-Army Research Office	2/1/98 - 7/31/98	2582 \$10,086.00
Mitigation of Mountain-Channel Sedimentation Resulting from Reservoir Sediment Releases	Wohl, Ellen E Julien, Pierre Y Anthony, Deborah J	Earth Resources NSF - Engineering Grant	3/15/98 - 2/29/00	3512 \$72,670.00
Cooperative Extension Wildlife Damage Management	Andelt, William F	Fish & Wildlife Biology Colorado Division of Wildlife	7/1/97 - 6/30/98	0083 \$75,000.00
Fish Entrainment into the Fulton Ditch	Bestgen, Kevin R	Fish & Wildlife Biology Metro Wastewater Reclamation District	3/24/98 - 12/31/98	5382 \$33,350.00
Effects of Fire Disturbance on Watersheds in Bandelier National Monument	Clements, William H	Fish & Wildlife Biology SPMA - Southwest Parks & Monuments Assoc	4/1/97 - 3/31/99	5173 \$5,640.00
The Influence of Previous Exposure to a Mixture of Heavy Metals on Tolerance: a Mechanistic...	Clements, William H	Fish & Wildlife Biology HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7797 \$184,762.00
Wildlife Habitat Management Institute	Covich, Alan P	Fish & Wildlife Biology USDA-NRCS-Natural Resources Consvtn Srv	12/1/97 - 12/31/98	2123 \$22,000.00
Long-Term Ecological Research - Luquillo Experimental Forest	Covich, Alan P	Fish & Wildlife Biology University of Puerto Rico	10/15/94 - 10/14/98	3464 \$19,819.00
Strategies to Reduce the Effects of Brook Trout on Cutthroat Trout Restorations	Fausch, Kurt D	Fish & Wildlife Biology US Department of the Interior	3/12/98 - 12/31/98	4197 \$56,700.00
Assessing Transportation Effects on Biodiversity in the South Rocky Mountain Ecoregion	Grunau, Lee	Fish & Wildlife Biology Colorado Department of Transportation	12/11/97 - 11/30/98	0242 \$35,000.00
Stable Isotopes	Johnson, Brett Michael	Fish & Wildlife Biology Colorado Division of Wildlife	2/23/98 - 6/30/98	0248 \$20,050.00
Age & Growth of Rio Grande Sucker	Johnson, Brett Michael	Fish & Wildlife Biology Colorado Division of Wildlife	3/18/98 - 6/30/98	0250 \$5,694.00
Ecological Effects of Reservoir Operations on Blue Mesa Reservoir	Johnson, Brett Michael	Fish & Wildlife Biology DOI-Bureau of Reclamation	4/22/93 - 9/30/00	2842 \$49,513.00
Larimer County Horsetooth Mountain Park	Kettler, Stephan M	Fish & Wildlife Biology Larimer County	12/15/97 - 12/31/98	5371 \$24,350.00
Role of Cliff Habitat in Avian Diversity	Knight, Richard L	Fish & Wildlife Biology Jefferson County, Colorado	9/1/97 - 12/31/00	5354 \$21,301.00
Wildlife & Plant Communities & Housing Developments	Knight, Richard L	Fish & Wildlife Biology Pitkin County, Colorado	1/1/98 - 5/31/00	5377 \$36,280.00

## Natural Resources - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Winter Surveys of Mountain Plover in Northern Mexico	Noon,Barry R	Fish & Wildlife Biology DOI-USFWS-Fish & Wildlife Service	1/1/98 - 1/31/98	1765 \$5,960.00
Protection & Management of Sensitive Resources in Boulder County	Pague,Katherine E	Fish & Wildlife Biology Boulder County Parks & Open Spaces	6/1/97 - 5/31/98	5378 \$1,000.00
The Nature Conservancy San Miguel Data	Sanderson,John S	Fish & Wildlife Biology The Nature Conservancy	2/1/98 - 3/31/98	5931 \$4,000.00
TNC ESA Penstemon Debilis	Spackman,Susan	Fish & Wildlife Biology The Nature Conservancy	2/1/98 - 6/30/98	1604 \$700.00
Audubon Guide Review	Spackman,Susan	Fish & Wildlife Biology Chanticleer Press	2/25/98 - 3/2/98	6305 \$2,000.00
Audubon Guide Review	Spackman,Susan	Fish & Wildlife Biology Chanticleer Press	2/25/98 - 3/15/98	6306 \$750.00
Piceance	White,Gary C	Fish & Wildlife Biology Colorado Division of Wildlife	7/1/97 - 6/30/98	0085 \$81,000.00
Research Experience for Undergraduates - Presidential Faculty Fellow Award	Burke,Ingrid C	Forest Sciences NSF-Biological Centers	9/1/93 - 2/28/99	3072 \$5,000.00
Ecosystem Significance of Soil as a Long Term Sink...	Burke,Ingrid C Maciel,Gary E Lauenroth,William K	Forest Sciences NSF-Biological Centers	8/1/97 - 7/31/00	3516 \$5,000.00
Spatial Data Management for the Colorado Rockies Regional Cooperative	Dean,Denis J	Forest Sciences The Nature Conservancy	1/1/96 - 6/30/98	1601 \$12,500.00
Effect of Thinning and Prescribed Burning on Severity of Wildfires in Ponderosa....	Omi,Philip N	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - UT	5/22/95 - 12/31/98	8766 \$2,000.00
LCTA Support for Fort Huachuca, Arizona	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	5/5/97 - 6/4/98	2349 \$5,096.00
Integrated Training Area Management Support for U.S. AEC in Support of ODCSOP Stationing	Shaw,Robert B	Forest Sciences DOD-ARMY	1/7/98 - 1/6/99	7301 \$11,999.00
ITAM Support for the U.S. AEC & Headquarters Army National Guard	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	1/15/98 - 1/14/99	7304 \$110,592.72
Integrated Training Area Management Related GIS Support for the U.S. Army Environmental Center	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	2/23/98 - 4/24/98	7305 \$53,862.94
Integrated Training Area Management Support for Fort Stewart, Georgia	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	7/1/98 - 6/30/99	7306 \$65,630.62

## Natural Resources - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Integrated Training Area Management Support for Fort Carson & Pinyon Canyon Maneuver Site, Colorado	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	6/30/98 - 6/29/99	7307 \$65,666.90
Integrated Training Area Management LCTA Support for Fort Stewart, Georgia	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	7/1/98 - 6/30/99	7308 \$50,780.20
Integrated Training Area Management Support at Fort Stewart, Georgia	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	9/29/98 - 9/28/99	7309 \$50,780.20
Legacy Resources Management Assistance Office of the Deputy Under Secretary of Defense	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	3/9/98 - 9/11/98	7310 \$35,787.07
ITAM Program Support for Yakima Training Center Washington	Shaw,Robert B	Forest Sciences DOD-ARMY-Corps of Engineers	4/1/98 - 3/31/99	7311 \$193,971.63
Integrated Training Area Management Program Land Rehabilitation & Maintenance Support at Fort Drum, New York	Shaw,Robert B	Forest Sciences DOD-ARMY-Fort Drum, New York	2/1/98 - 10/31/98	7350 \$4,576.00
Integrated Training Area Management Program Land Rehabilitation & Maintenance Support at Fort Drum, New York	Shaw,Robert B	Forest Sciences DOD-ARMY-Fort Drum, New York	2/1/98 - 10/31/98	7351 \$39,424.00
LCTA Support to the Integrated Training Area Management Program at Fort Drum, New York	Shaw,Robert B	Forest Sciences DOD-ARMY-Fort Drum, New York	7/1/98 - 6/30/99	7352 \$16,910.00
LCTA Support to the Integrated Training Area Management Program at Fort Drum, New York	Shaw,Robert B	Forest Sciences DOD-ARMY-Fort Drum, New York	7/1/98 - 6/30/99	7353 \$162,090.00
Environmental Management Administration	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	8900 \$74,171.21
Support for USACERL/SERDP TES Plant Conservation Efforts	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	8994 \$9,067.00
Threatened & Endangered Species Management at Fort McCoy, Wisconsin	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9051 \$33,933.00
Evaluation Effects of Military Training on Endangered Red Cockaded Woodpeckers & Associated Habitats	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9053 \$47,976.00
Forest Management Support at Fort Campbell, Kentucky	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9054 \$51,073.00
Development of a Community-Based Approach to Threatened & Endangered Plant Species Management	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9055 \$12,507.00
Archeological Phase I Surveys on Fort McCoy for Fort Hood, Texas	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9056 \$72,346.00



## Natural Resources - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Archeological Phase II Surveys on Fort McCoy for Fort Hood, Texas	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9057 \$32,282.00
Design and Development of Spatial Simulation Models	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9058 \$34,406.00
Conservation Support for Ecological Management & Restoration, Eglin Air Force Base, Florida	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9060 \$30,765.38
Natural Resource Management at Fort McCoy, Wisconsin	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9061 \$8,342.66
Oak Wilt Inventory & Forestry Program At Fort McCoy, Wisconsin	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9062 \$7,536.80
Soil & Vegetation Monitoring at Fort Leonard Wood, Missouri	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9063 \$52,409.00
LCTA Plot Allocation for Virginia Army National Guard	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9064 \$977.58
Exotic Plant Species Management at Fort McCoy Wisconsin	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9065 \$25,318.82
GIS, Botanical, & Herpetological Support at Fort Stewart, Georgia	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9066 \$133,646.10
LCTA at Camp Beauregard, Louisiana	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9067 \$23,747.98
LCTA Core Plot Allocation at Camp Beauregard, Louisiana	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9068 \$5,231.60
LCTA Core Plot Re-Allocation for Leesburg Training Site, South Carolina	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9069 \$977.58
Wildlife Management Support at Fort McCoy Wisconsin	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9070 \$25,318.82
LCTA Core Plot Re-Allocation for Camp Robinson, Arkansas	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9071 \$977.58
Forest Inventory & Program Support at Fort McCoy, Wisconsin	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9072 \$67,097.22
Integrated Natural Resources Management Plans & Wetlands Action Management Plans	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9073 \$158,068.92
Evaluation of Military Training Noise on Red-Cockaded Woodpeckers on Fort Stewart, Georgia	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9074 \$28,026.21

## Natural Resources - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Population Trends of Golded-Cheeked Warblers & Black-Capped Vireos on Camp Bullis, Texas	Shaw,Robert B	Forest Sciences USDA-USFS-Rocky Mtn. Rsrch Station - CO	9/14/95 - 6/30/00	9075 \$66,140.32
Enhancing Tourism Opportunities on Public Lands Managed by Alaska Bureau of Land Management	Vaske,Jerry J Donnelly,Maureen P	Nat Res Recreation & Tourism DOI-BLM-Bureau of Land Management	11/16/97 - 11/30/02	4106 \$65,429.00
Forest Health Monitoring Vegetation Structure Pilot	Binkley,Daniel E Stohlgren,Thomas	Natural Resource Ecology Lab USDA-USFS-Rocky Mtn. Rsrch Station - CO	3/20/98 - 6/1/99	8850 \$50,432.00
Spatial Ecosystem Modeling of Yellowstone Bison & their Environments	Coughenour,Michael B	Natural Resource Ecology Lab DOI-USGS-Geological Survey	6/1/97 - 5/31/02	1705 \$7,581.00
Integrated Modeling & Assessment for Balancing Food Security, Conservation & Ecosys...	Coughenour,Michael B	Natural Resource Ecology Lab University of California at Davis	7/31/97 - 9/29/98	9005 \$188,901.00
Integrated Modeling & Assessment for Balancing Food Security, Conservation, & Ecosystem Integrity	Coughenour,Michael B Galvin,Kathleen	Natural Resource Ecology Lab University of California at Davis	7/31/97 - 9/29/98	9006 \$136,099.00
An Ecosystem Approach for Comparing Alternatives for Managing Elk Populations	Hobbs,N Thompson Coughenour,Michael B Ellis,James	Natural Resource Ecology Lab Colorado Division of Wildlife	3/1/98 - 3/30/99	0251 \$55,959.00
Land Use & Climate Change Impacts on Carbon Fluxes (LUCCI)	Ojima,Dennis	Natural Resource Ecology Lab University of Nebraska	7/1/96 - 6/30/99	3901 \$75,000.00
Long-Term Ecological Research on the Luquillo Experiment Forest	Parton,William J	Natural Resource Ecology Lab University of Puerto Rico	10/15/94 - 10/14/98	3465 \$16,083.00
A Regional Assessment of Land Use Effect on Ecosystem Structure & Function...	Parton,William J	Natural Resource Ecology Lab EPA-Environmental Education Grants	10/1/96 - 9/30/99	5855 \$108,260.00
Developing Soil C Sequestration as a Commodity, for CO2 Emission Mitigation in U.S....	Paustian,Keith H	Natural Resource Ecology Lab USDA-CSRS-Coop. States Research Service	2/18/98 - 2/28/01	1440 \$400,000.00
The NBS Global Change Data Center	Simmons,Carol L	Natural Resource Ecology Lab DOI-National Biological Survey	5/16/95 - 9/30/98	4152 \$20,000.00
Landscape-Scale Assessment of Native & Exotic Plant Diversity & Cryptobiotic Crusts in...	Stohlgren,Thomas Reich,Robin M	Natural Resource Ecology Lab DOI-BLM-Bureau of Land Management	3/1/98 - 2/28/99	4196 \$150,000.00
Rapid Assessment & Monitoring of Exotic Plant Diversity in the Central Region	Stohlgren,Thomas Detling,James K	Natural Resource Ecology Lab DOI-USGS-Geological Survey	3/1/98 - 2/28/03	4198 \$50,000.00
Soil & Sediment Biodiversity & Ecosystem Functioning Workshop	Wall,Diana H	Natural Resource Ecology Lab Winslow Foundation	3/15/98 - 3/14/99	5464 \$16,000.00
Long Term Ecological Research Program: Shortgrass Steppe	Burke,Ingrid C Lauenroth,William K	Rangeland Ecosystem Science NSF-Biological Centers	3/17/97 - 1/31/99	3201 \$22,000.00

## Natural Resources - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
A Regional Assessment of Land Use Effect on Ecosystem Structure & Function...	Burke,Ingrid C Lauenroth,William K	Rangeland Ecosystem Science EPA-Environmental Education Grants	10/1/96 - 9/30/99	5854 \$304,862.00
Vegetation & Soils of the Comanche National Grasslands	Rittenhouse,Larry R Kelly,Eugene F	Rangeland Ecosystem Science USDA-USFS-Forest Research	6/28/95 - 12/31/99	8830 \$5,000.00

## Natural Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Undergraduate Research in Molecular Biosciences	Bamburg,James R Curthoys,Norman P	Biochemistry & Molecular Bio NSF-Biological Centers	3/1/96 - 2/28/99	3070 \$50,000.00
Regulation & Function of Actin Depolymerizing Factor	Bamburg,James R	Biochemistry & Molecular Bio HHS-NIH-Nat Inst of General Medical Sci	12/1/84 - 3/31/00	7732 \$213,664.00
Chromatin Structure & the Regulation of Gene Activity	Laybourn,Paul J	Biochemistry & Molecular Bio Council for Tobacco Research - USA, Inc.	7/1/94 - 12/31/98	5568 \$35,000.00
Macromolecular Recognition by Unstructured Heteropolymers	Lumb,Kevin J	Biochemistry & Molecular Bio American Chemical Society	1/1/98 - 8/31/00	5372 \$20,000.00
Mechanisms of Transcriptional Activation in Vivo	Stargell,Laurie A	Biochemistry & Molecular Bio March of Dimes	2/1/98 - 1/31/00	5458 \$50,000.00
Carbohydrate & Lipid Metabolism in Mammals	Florant,Gregory L	Biology NSF-Biological Centers	9/1/96 - 8/31/98	3183 \$13,032.00
Carbohydrate & Lipid Metabolism in Mammals	Florant,Gregory L	Biology NSF-Biological Centers	9/1/96 - 8/31/98	3187 \$11,250.00
Characterization of a Limb Autotomy Factor, LAFpro, that Suspends Molting...	Mykles,Donald L	Biology NSF-Biological Centers	7/15/97 - 7/31/99	3518 \$2,500.00
Mapping Recombination Nodules on Synaptonemal Complexes of Maize	Stack,Stephen	Biology NSF-Biological Centers	3/1/98 - 2/28/02	3511 \$101,160.00
Mapping Recombination Nodules on Synaptonemal Complexes of Maize	Stack,Stephen	Biology NSF-Biological Centers	3/1/98 - 2/28/02	3515 \$4,875.00
Evolution of North Temperate Disjunct Plants	Wen,Jun	Biology University of Connecticut	12/1/97 - 11/30/99	5366 \$2,000.00
Balancer Chromosomes in Mosquitoes	Wilson,Thomas G	Biology MacArthur Foundation *	1/1/95 - 12/31/98	5406 \$12,252.00
American Association for the Advancement of Science/MacArthur - Teacher Education Project	Stein,Fredrick M Jones,Christine S	Center For Sci, Math & Tech Ed University of Northern Colorado	11/1/96 - 2/1/99	5375 \$18,000.00
Radical Reactions Relevant to Atmospheric & Combustion Chemistry	Bernstein,Elliot R	Chemistry NSF-MPS-Mathematical & Physical Sciences	3/1/96 - 2/28/99	3028 \$105,000.00
Directed Synthesis Using Zintl Ion Building Blocks	Dorhout,Peter K	Chemistry NSF-MPS-Mathematical & Physical Sciences	5/1/96 - 4/30/00	3119 \$10,000.00
Electroactive Polymers - Application to Analysis, New Materials & Catalysis	Elliott,C Michael	Chemistry National Science Foundation	1/15/98 - 12/31/00	3338 \$408,860.00
Surface Chemistry Influences on Cell Signalling & Proliferation	Grainger,David W	Chemistry HHS-PHS-Biophysics & Physiological Sci.	1/1/98 - 12/31/98	4471 \$157,459.00

## Natural Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Immiscible Microstructures & Lateral Mobility in Binary Mixed Hydrocarbon....	Grainger,David W	Chemistry American Chemical Society	1/1/98 - 8/31/00	5369 \$60,000.00
Colorado State University Department of Chemistry Undergraduate Summer Research Program	Greenberg,Marc M	Chemistry National Science Foundation	2/1/97 - 1/31/00	3182 \$53,000.00
Solvation & Reaction Dynamics in Liquids & Molecular Clusters	Ladanyi,Branka M	Chemistry NSF-MPS-Mathematical & Physical Sciences	8/1/95 - 1/31/99	3235 \$92,600.00
Ecosystem Significance of Soil as a Long Term Sink for Anthropogenic Additions of Nitrogen	Maciel,Gary E	Chemistry NSF-Biological Centers	8/1/97 - 7/31/00	3513 \$31,610.00
NMR Studies of Modified Carbon Blacks	Maciel,Gary E	Chemistry Cabot Power Corp.	1/1/97 - 8/31/98	6229 \$15,921.00
Alkaloids of Importance in Plant-Insect Interactions	Stermitz, Frank R	Chemistry National Science Foundation	5/1/97 - 4/30/00	3206 \$94,000.00
Statistical Mechanics of Thermoreversible Gelation (Career)	Szamel,Grzegorz	Chemistry NSF-MPS-Mathematical & Physical Sciences	4/1/96 - 3/31/00	3121 \$68,000.00
Synthesis & Mechanism of Cross-Linking of FR900482	Williams,Robert M	Chemistry HHS-PHS-NCI-Cancer Treatment Center	4/1/92 - 3/31/00	4420 \$189,315.00
Achieving Ultra-Reliability in Critical Systems	Malaiya,Yashwant K	Computer Science DOD-NAVY-ONR-Office of Naval Research	6/1/96 - 5/30/99	2312 \$20,000.00
Domain-based Testing with SLEUTH	Vonmayrhauser,Anneliese	Computer Science CASI-Colorado Advanced Software Inst.	7/1/95 - 12/31/98	0826 \$34,000.00
Comparisons & Applications of Local & Global Search	Whitley,L Darrell Beveridge,J Ross	Computer Science NSF-CISE-Computer & Info Sci & Engin	4/1/95 - 8/31/98	3151 \$75,000.00
Regional Conference on Core Curriculum Reform	Raich,John C Sneider,Thomas W	Dean Of Natural Sciences NSF-EHR-Education & Human Resources	1/1/98 - 4/30/99	3383 \$16,678.00
Measurement of the Magnetically Induced QED Birefringence of the Vacuum	Lee,Siu Au	Physics DOC-NIST-Nat. Inst. Standards & Tech..	3/1/96 - 2/28/99	1200 \$50,000.00
Thermal & Dynamical Structure of the Mesopause Region: The Latitude Dependence	She,Chiaoyao	Physics NSF-GEO-Geosciences	1/15/96 - 12/31/98	3067 \$48,760.00
Mesopause Tides Based on Extensive Modals & Sodium Lidar Data Sets	She,Chiaoyao Krueger,David A	Physics NSF-GEO-Geosciences	1/15/97 - 12/31/98	3145 \$45,000.00
Device Physics of Thin-Film Polycrystalline Solar Cells	Sites,James R	Physics Midwest Research Institute - NREL	1/20/98 - 1/19/01	9343 \$101,250.00
Adolescent Drug Use in Rural America	Edwards,Ruth W	Psychology HHS-NIH-National Institute of Health	12/1/97 - 11/30/99	4475 \$98,069.00

## Natural Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Color Vision in the Peripheral Retina	Volbrecht, Vicki J	Psychology	2/1/97 -	3152
	Nerger, Janice L	NSF-Biological Centers	1/31/00	\$76,627.00
Development of Transmission Facility	Boardman, Thomas J	Statistics	5/19/97 -	6251
Availability Measure & Targets		EDM-Engineering Data Management, Inc.	12/15/98	\$19,200.00
Research Design	Bowden, David C	Statistics	1/21/98 -	0244
		Colorado Division of Wildlife	6/30/98	\$28,125.00
CASE-General Account for Statistical	Zumbrunnen, James R	Statistics	9/1/95 -	6131
Research		Various "For Profit" Sponsors	5/31/99	\$1,109.81

## Vet. Medicine & Biomedical Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Synaptic Reorganization After Global Cerebral Ischemia	Dudek,F Edward	Anatomy & Neurobiology HHS-PHS-Biol Basis Research in Neurosci	2/9/98 - 2/8/00	4917 \$37,012.00
The Molecular Physiology of Glutamate in Taste	Kinnamon,Sue C	Anatomy & Neurobiology University of Miami	9/1/95 - 8/31/98	4302 \$94,291.00
Pharmacological Contributions of GluRB to Allosteric Modulation of AMPA Receptors	Partin,Kathryn M	Anatomy & Neurobiology Pharmaceutical Res./Mfr. of Amer. Found	1/1/97 - 12/31/98	5431 \$12,500.00
Cross-species Transplantation of Circadian Behavior	Pickard,Gary E	Anatomy & Neurobiology HHS-PHS-Biol Basis Research in Neurosci	4/1/91 - 1/31/00	4429 \$202,578.00
In Vivo Evaluation of Doxoform in a Mouse Mammary Carcinoma Model	Dernell,William S	Clinical Sciences University of Colorado	12/1/97 - 8/31/98	5367 \$14,179.00
Clinical Evaluation of Palliative Radiation for Primary & Metastatic Neoplastic Bone...	Dernell,William S	Clinical Sciences Morris Animal Foundation	1/1/98 - 12/31/99	5457 \$17,714.00
Isolation & Characterization of Ehrlichia spp. Infecting Cats	Lappin,Michael R	Clinical Sciences Robert H. Winn Foundation	4/1/98 - 3/31/99	5459 \$6,022.50
The Use of Chondrocyte Composite Grafting Techniques to Augment Healing Large Articular Defects in Exercising...	Mcilwraith,C Wayne Frisbie,David D	Clinical Sciences Ancea AG	2/1/98 - 12/31/98	6294 \$22,290.00
Evaluation of a Cohesion Polymer after PTFE Grafting on an Iliac Artery in a Canine Model.	Monnet,Eric	Clinical Sciences Cohesion Corporation	12/20/97 - 12/20/98	6290 \$5,016.00
Evaluation of Cohesion Plymer After Iliac Artery Grafting with PTFE in a Canine Model: Chronic Study	Monnet,Eric	Clinical Sciences Cohesion Corporation	3/1/98 - 3/1/99	6297 \$76,598.50
Ogilvie Lymphoma Diet Research	Ogilvie,Gregory K	Clinical Sciences Hill's Pet Nutrition, Inc.	11/1/92 - 12/31/00	5667 \$60,000.00
Rocky Mountain Raptor Program	Scherpelz,Judith A	Clinical Sciences Colorado Division of Wildlife	7/1/95 - 6/30/98	0821 \$7,500.00
Prostaglandin F22 Estradiol Cypionate or Excenel for the Management of Postpartum Dairy Cows...	Stevens,Reyneld D	Clinical Sciences Upjohn Company	6/1/98 - 12/31/00	6302 \$24,000.00
Meniscus Repair Using a Mensical Tack: A Study in Sheep	Turner,Anthony Simon	Clinical Sciences Innovasive Devices, Inc.	11/1/96 - 2/28/98	6216 \$32,179.00
Evaluation of CollaSeal Hemostatic Device & Tisseel Fibrin Sealant for Hemostatic ...	Turner,Anthony Simon	Clinical Sciences Cohesion Corporation	9/12/97 - 2/28/98	6270 \$7,392.00
Optimization of a Cannulation Technique for Hemodialysis Grafts: A Pilot Study an Ovine Model	Turner,Anthony Simon	Clinical Sciences Medisystems Corporation	2/23/98 - 2/22/99	6293 \$41,154.00

## Vet. Medicine & Biomedical Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Meniscal Regeneration with Collagen Scaffolds: A Study in Sheep	Turner,Anthony Simon	Clinical Sciences Sulzer Innotec, Winterthur, Switzerland	4/1/98 - 12/31/98	6298 \$22,292.00
Black-footed Ferret Wastage Reduction: Modeling Increased Production of the Captive...	Wimsatt,Jeffrey H	Clinical Sciences Morris Animal Foundation	12/1/96 - 11/30/98	5428 \$7,532.00
Mechanisms of Toxic Chemical Interaction in the Liver	Billings,Ruth E	Environmental Health HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7795 \$110,067.00
Occupational Health & Safety Consultation Program	Buchan,Roy M	Environmental Health DOL-OSHA-Occupa. Safety & Health Admin.	10/1/97 - 9/30/98	1022 \$14,000.00
The Role of VEGF & bFGF in AIDS-Associated Kaposi's Sarcoma Tumorigenesis	Campaign,Julie A	Environmental Health Cancer League of Colorado, Inc.	3/15/98 - 6/30/98	5601 \$12,255.00
Role of Oxygen Free Radicals in Dioxin Carcinogenesis	Cosma,Greg N	Environmental Health HHS-NIH-Environmental Health Sciences	12/1/97 - 11/30/98	7784 \$70,240.00
Development of Methods for Predicting Trihalomethane (THM) & Haloacetic Acids (HAA)...	Nuckols,John R	Environmental Health American Water Works Assc. Research Fd.	1/1/98 - 10/1/03	5930 \$249,990.00
International Symposium: Environmental Engineering & Health Sciences	Nuckols,John R Yang,Raymond S H	Environmental Health HHS-PHS-Superfund Hazardous Substances	4/1/97 - 3/31/98	7783 \$20,000.00
Spatial Information Analysis & Statistics	Nuckols,John R	Environmental Health HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7792 \$86,955.00
Molecular Diagnosis & Screening for M. Bovis Infection in Ungulates	Salman,M D	Environmental Health USDA-APHIS-Ag & Plant Health Insp Srvc	2/1/98 - 2/1/98	2124 \$50,000.00
Factors Associated with Relinquishment of Dogs & Cats	Salman,M D	Environmental Health Natl Council Pet Population Study/Policy	1/1/95 - 12/31/97	5032 \$3,500.00
Training Programs in Veterinary Epidemiology	Salman,M D	Environmental Health Teachers of Veterinary Public Health	1/1/94 - 12/31/98	5537 \$34,906.00
A Forum-Animal Disease Surveillance System for Vesicular Diseases in Central & South America	Salman,M D	Environmental Health United Nations	11/15/97 - 5/13/98	5737 \$24,000.00
Cadmium & Arsenic QA/QC - ENSR/ Globeville	Tessari,John Domenic	Environmental Health ENSR Consulting & Engineering	4/1/96 - 12/31/97	6177 \$890.00
Organochlorine Compounds & Risk of Breast Cancer	Tessari,John Domenic	Environmental Health Yale University	9/30/93 - 9/30/98	7510 \$7,432.00
Analytical Chemistry Core B	Tessari,John Domenic	Environmental Health HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7791 \$71,623.00
Integrated Research on Hazardous Waste Chemical Mixtures	Yang,Raymond S H	Environmental Health HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7790 \$124,025.00



## Vet. Medicine & Biomedical Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Toxicologic Interaction Studies in Chemical Mixtures Using PBPK/PD...	Yang,Raymond S H	Environmental Health HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7793 \$123,568.00
Mosquito Reservoirs for Bunyavirus Transeasonality	Beaty,Barry J Blair,Carol D	Microbiology HHS-PHS-AID-Microbio & Infectious Dis Re	1/1/98 - 12/31/98	4474 \$187,435.00
MacArthur Program: Vector Molecular Biology	Beaty,Barry J	Microbiology MacArthur Foundation *	1/1/90 - 12/31/98	5187 \$134,319.59
MacArthur Course: Biology of Disease Vectors	Beaty,Barry J	Microbiology MacArthur Foundation *	7/1/90 - 12/31/99	5205 \$3,346.69
Vector Molecular Biology Institutes	Beaty,Barry J	Microbiology MacArthur Foundation *	1/1/95 - 12/31/98	5401 \$10,158.61
Distribution of a Textbook, Biology of Disease Vectors	Beaty,Barry J Marquardt,William	Microbiology MacArthur Foundation *	12/1/94 - 12/31/98	5402 \$1,587.10
Molecular Bioreporting	Beaty,Barry J	Microbiology HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7796 \$151,370.00
Molecular Taxonomy of Lyme Disease Vector Species	Black,William C Iv Hutcheson,Harry Joel	Microbiology HHS-NRSA-Nat. Research Service Award	3/1/97 - 2/28/99	4437 \$30,160.00
Genetics of Transovariole Transmission	Black,William C Iv	Microbiology HHS-PHS-Public Health Services	4/1/97 - 3/31/00	4439 \$118,779.00
Vector Molecular Biology - Genetic Mapping	Black,William C Iv	Microbiology MacArthur Foundation *	1/1/92 - 12/31/98	5230 \$22,507.00
Integrated Research on Hazardous Waste Chemical Mixtures	Black,William C Iv Duteau,Nancy M	Microbiology HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7799 \$71,623.00
Mycobacterial Cell Wall Biogenesis & Drug Discovery	Brennan,Patrick Joseph Besra,Gurdyal Singh	Microbiology HHS-NIH-National Institute of Health	1/1/98 - 12/31/02	4472 \$292,764.00
Leprosy Research Support & Maintenance of an Armadillo Colony: Part I: Leprosy Research..	Brennan,Patrick Joseph	Microbiology HHS-PHS-AID-Microbio & Infectious Dis Re	6/30/95 - 6/29/02	4625 \$392,354.00
Identification of Inhibitors of Mycobacterial Linkage Unit Synthesis	Brennan,Patrick Joseph	Microbiology Glaxo Inc.	6/1/96 - 5/31/99	6192 \$40,000.00
Molecular Genetic Control of Vector Potential	Carlson,Jonathan O Beaty,Barry J	Microbiology HHS-PHS-AID-Microbio & Infectious Dis Re	7/1/88 - 1/31/99	4855 \$211,496.00
New Drugs for Mycobacterial Infections in AIDS Patients	Mcneil,Michael R Besra,Gurdyal Singh	Microbiology Southern Research Institute	7/1/96 - 6/30/98	4357 \$12,523.00
Cell Wall Biogenesis--Target for New Anti-TB Drugs	Mcneil,Michael R	Microbiology HHS-PHS-AID-Microbio & Infectious Dis Re	9/30/92 - 8/31/02	4603 \$97,235.91

## Vet. Medicine & Biomedical Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Dengue Control in Mosquitoes by Single Chain Antibodies	Olson,Kenneth E Higgs,Stephen Howell,Mark D	Microbiology HHS-PHS-AID-Microbio & Infectious Dis Re	4/1/97 - 3/31/00	4438 \$112,809.00
Sub-Contract to Case Western University (M. Tuberculosis Infection in the Lung)	Orme,Ian M	Microbiology Case Western Reserve University	9/1/95 - 8/31/00	4305 \$97,803.00
Defined Native Antigens & Immunity to Tuberculosis	Orme,Ian M	Microbiology HHS-PHS-AID-Microbio & Infectious Dis Re	3/1/96 - 2/28/01	4409 \$200,898.00
Effect of Tucaresol on Mycobacterium Tuberculosis Infections in Mice	Orme,Ian M	Microbiology Glaxo Inc.	1/9/98 - 1/8/99	6289 \$4,606.00
Effects of Acyclovir & GR124263 on in Vitro Model of HSV Latency	Wilcox,Christine L	Microbiology Glaxo Inc.	10/1/97 - 2/16/99	6291 \$3,625.00
Chemical Mixtures as Promoters of Carcinogenesis	Benjamin,Stephen A	Pathology HHS-PHS-Superfund Hazardous Substances	4/1/98 - 3/31/00	7794 \$144,276.00
Dietary Effects on Phenobarbital Pharmacokinetics in Canine Epilepsy	Fettman,Martin J Greco,Deborah S Smith,Mary O	Pathology Morris Animal Foundation	3/1/98 - 2/28/99	5462 \$17,710.00
Type 1 vs Type 2 Cytokine Response During FIV Infection	Hoover,Edward A Rogers,Arlin B	Pathology HHS-PHS-AID-Microbio & Infectious Dis Re	3/1/97 - 2/28/01	4435 \$74,608.00
Role of Sand Fly & Tick Saliva in Disease	Titus,Richard G	Pathology HHS-PHS-AID-Microbio & Infectious Dis Re	2/1/98 - 1/31/03	4473 \$278,030.00
Post Doctor of Veterinary Medicine Trainee Position	Weiser,M Glade Cockerell,Gary L	Pathology Rhone-Poulenc Rorer	7/1/95 - 6/30/99	6120 \$42,910.00
Nerve Regeneration Screen	Ishii,Douglas N	Physiology Aurogen, Inc.	9/1/96 - 12/31/97	6207 \$4,195.00
Treatment of Diabetic Neuropathy	Ishii,Douglas N	Physiology Aurogen, Inc.	9/1/96 - 3/30/98	7509 \$324.00
Community-Based Livestock Integrated Resource Management	Niswender,Gordon D Green,Ronnie D Hoag,Dana Loyd	Physiology USDA-CSRS-Coop. States Research Service	4/1/98 - 3/31/01	1439 \$250,000.00
Regulatory Mechanisms of Cardiac Repolarization	Tamkun,Michael	Physiology HHS-NIH-Child Health & Human Development	1/1/93 - 12/31/01	7764 \$269,208.00
Impact of Lung Injury on the Immature Pulmonary Circulation	Tucker,Alan	Physiology University of Colorado Health Sci Ctr	12/1/96 - 11/30/01	7518 \$46,238.00

## Vet. Medicine & Biomedical Sciences - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Determining Significant Endpoints for Risk Analysis	Bedford,Joel S Whicker,F Ward	Radiological Health Sciences University of Georgia	1/1/97 - 12/31/99	3982 \$135,904.00
Radiobiology of Lethality, Mutation, & Transformation	Elkind,Mortimer M	Radiological Health Sciences HHS-NIH-NCI-National Cancer Institute	5/1/88 - 3/31/99	7650 \$602,669.00
Long Term Risk from Actinides in the Environment: Modes of Mobility	Ibrahim,Shawki A Whicker,F Ward Hakonson,Thomas E	Radiological Health Sciences US Department of Energy	12/15/97 - 12/14/00	3869 \$499,979.00
Response of Leukemic Cells & Transfections to X-Rays & Heat Treatments	Lett,John T	Radiological Health Sciences DOD-USAF-Air Force	1/1/98 - 4/30/98	7300 \$20,000.00
Radionuclides in Shallow Water Sediments at CANDU Nuclear Generating Stations	Rowan,David J	Radiological Health Sciences Atomic Energy of Canada Limited (AECL)	2/1/98 - 3/27/98	6301 \$23,180.00
Cell Genetic Damage at Low Dose & Low Dose Rate	Waldren,Charles A	Radiological Health Sciences HHS-NIH-NCI-National Cancer Institute	9/1/84 - 1/31/01	7733 \$274,874.00
Radioecological Studies & Technical Support to SREL	Whicker,F Ward	Radiological Health Sciences University of Georgia	10/1/97 - 6/30/98	9344 \$40,000.00

## Other - Awards

<b>Title</b>	<b>Principal Investigator</b>	<b>Department/Sponsor Name</b>	<b>Dates</b>	<b>Proj #/\$Amount</b>
Agricultural Research	Sommers, Lee E	Agric Experiment Station USDA-CSRS-Coop. States Research Service	10/1/97 - 9/30/98	2060 \$11,500.00
Colorado Water Resource Research Institute Program - FY 97	Ward, Robert C	Colo Water Resources Res Inst DOI-USGS-Geological Survey	3/1/96 - 2/28/01	2937 \$20,000.00
Developing a Decision Support System for the South Platte Basin	Ward, Robert C Garcia, Luis	Colo Water Resources Res Inst Various "Non-Profit" Sponsors	3/1/97 - 6/30/99	5153 \$11,500.00
Northern Colorado Youth Naturally	Serby, Judy Elizabeth	Colorado State Forest Service Colorado Division of Wildlife	7/1/97 - 6/30/98	0241 \$15,000.00
Colorado Department of Transportation Accident Investigation/Reconstruction	Mertz, Susan A	Continuing Educ-Administration Colorado Department of Transportation	1/20/98 - 9/30/98	0227 \$45,000.00
Colorado Department of Transportation DUI Detection & Standardized Field Sobriety...	Mertz, Susan A	Continuing Educ-Administration Colorado Department of Transportation	1/20/98 - 9/30/98	0228 \$25,000.00
Nutrition Education for Colorado Springs Limited Income	Bray, Colleen R	Cooperative Extension City of Colorado Springs	4/1/97 - 3/31/98	1052 \$9,000.00
Communities in Economic Transition 6-State Pilot Project	Knop, Sheila A	Cooperative Extension Texas A & M	9/1/96 - 9/30/98	1319 \$1,000.00
Colorado Youth Council	Millich, Krystie Rose Steele, Douglas L	Cooperative Extension Colorado Department of Education	9/10/97 - 6/30/98	0207 \$5,000.00
Community Development Technical Assistance to Eligible Communities	Rewerts, Milan A	Cooperative Extension Colorado Department of Local Affairs	1/1/98 - 12/31/98	0239 \$80,000.00
Department of Local Affairs - Pueblo (Mineral Impact funds)	Rewerts, Milan A	Cooperative Extension Colorado Department of Local Affairs	1/1/98 - 12/31/98	0240 \$80,000.00
Canal Seepage Reduction Demonstration	Valliant, James C	Cooperative Extension DOI-Bureau of Reclamation	9/16/97 - 9/30/00	4140 \$20,000.00
Drug/Alcohol Zero Tolerance Grant for Education & Enforcement	Chaffee, Robert J	University Police Bacchus and Gamma Peer Educ Network	3/14/98 - 5/30/98	5379 \$3,500.00
Multijurisdictional Drug Task Force	Hopkins, Donn	University Police City of Loveland, Colorado	10/1/95 - 9/30/98	5041 \$45,554.45
Northern Front Range Air Quality Study	Smith, Ralph E	V P Research & Info Technology Governors Office	9/19/95 - 10/1/98	0835 \$21,621.25