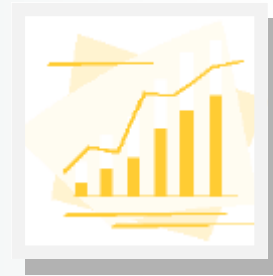


Colorado State University
Vice President for Research
Proposals Submitted and Awards Received



Fiscal Year 2013
Annual Report
July through June

Vice President for Research Proposals Submitted and Awards Received

Foreword

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

- ◆ Award totals represent all new and incremental funding toward a new or existing project. Award totals represent obligated dollars. Award totals may not represent *total* amount anticipated from a sponsor.
- ◆ Various charts and dollar figures may reflect multi-year, multi-million dollar proposals or awards.
- ◆ Proposal totals represent new, competing continuations/renewals, resubmissions, and supplements. Totals do not include amendments/modifications, revisions, or pre-proposals.

Additional information is available on the web at:

<http://web.research.colostate.edu/datacenter/annualreport.aspx>

Annual Research Report

Contents

	<u>Page</u>
Foreword	
Definitions and Background Information	
Section I – Annual Research Expenditures	2
Section II – Proposals Submitted	
By Fund Source.....	4
By College	8
Section III - Awards Received	
By Fund Source.....	11
By College	15

SECTION I

Annual Research Expenditures

Colorado State University
Annual Research Expenditures
By Prime Sponsoring Agency
(federal flow-through is reflected in federal figures)

<i>Note: Amounts shown are in \$1,000,000's</i>	2009	2010	2011	2012	2013
Federal					
USDA Dept of Agriculture	\$ 64.7	\$ 53.3	\$ 48.3	\$ 47.2	\$ 31.6
DOD Dept of Defense	23.1	22.3	29.5	36.3	39.4
DOE Dept of Energy	8.0	7.4	9.2	9.5	11.4
HHS Health and Human Services	47.3	50.5	52.9	52.3	50.0
NSF National Science Foundation	31.9	31.9	36.7	36.7	37.4
NASA National Aero & Space Admin	11.5	11.6	11.1	8.7	8.3
Misc. Federal	25.4	29.0	43.1	54.9	35.2
Non-Science & Engineering (Federal)	5.1	5.7	5.8	6.7	6.5
Total Federal	217.0	211.7	236.6	252.3	219.8
Non Federal					
Industrials	19.1	17.4	14.7	15.5	19.1
State and Local	18.6	14.6	18.4	46.1	12.3
Non-Science & Engineering (Non-Federal)	1.2	4.7	4.0	1.7	2.0
Foundations	4.2	8.6	7.4	5.4	5.9
All other Non-Federal Sources	8.5	3.8	1.5	7.0	7.6
Total Non-Federal	51.6	49.1	46.0	75.7	46.9
Total Sponsored Funds	268.6	260.8	282.6	328.0	266.7
Local Funds					
Trainee Support	0.5	0.2	0.5	0.5	0.5
Contracted Services	7.4	5.7	5.6	6.4	7.5
Infrastructure	3.7	3.2	4.4	5.1	4.5
Legislated & Sponsor Required Support	31.5	33.0	37.7	35.9	34.0
Local Funds	43.1	42.1	48.2	47.9	46.5
Total Research Expenditures	\$ 311.7	\$ 302.9	\$ 330.8	\$ 375.9	\$ 313.2
Contracts and Grants (53 fund) Expenditures attributable to CSFS					
	\$ 28.9	\$ 18.2	\$ 40.0	\$ 74.3	\$ 5.8

This presentation of research expenditures is consistent with annual reporting for the NSF Higher Education Research & Development Survey.

FY12 was a record year for expenditures in all broad categories - Federal, Non-federal and Local funding sources.

FY13 marked the 6th consecutive year research expenditures exceeded \$300m.

The change in expenditures for FY13 compared to FY12 is due to the transfer of a major segment of the Colorado State Forest Service to the State of Colorado effective July 1, 2012. This is evident in the Misc. Federal and the State and Local categories. Expenditures for most colleges/units were flat to slightly higher compared to the prior fiscal year.

SECTION II

Externally Competitive Proposals Submitted

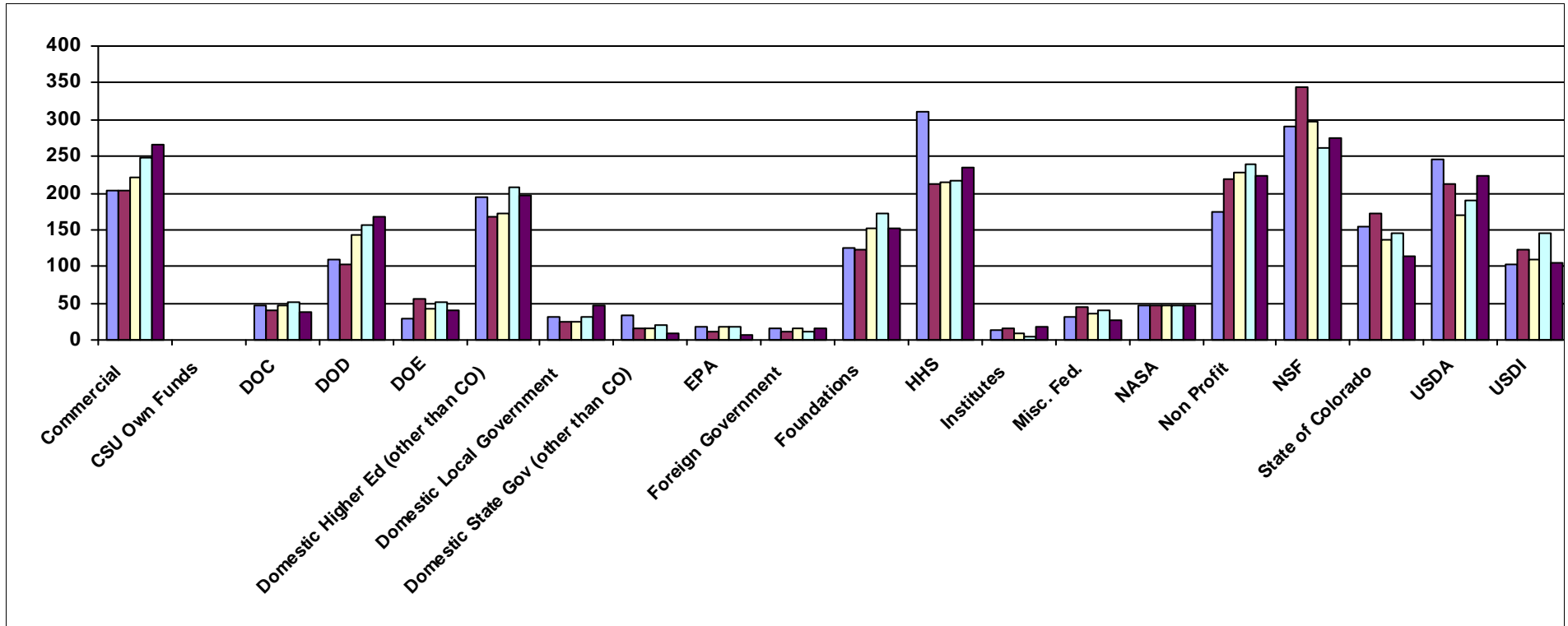
Proposals by Fund Source

Proposals by College

Proposals Submitted by Fund Source (July - June) - Total

	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Commercial	204	203	-0.5%	222	9.4%	248	11.7%	265	6.9%
Foundations	126	122	-3.2%	153	25.4%	172	12.4%	153	-11.0%
Institutes	13	16	23.1%	10	-37.5%	5	-50.0%	17	240.0%
Non Profit	175	218	24.6%	228	4.6%	238	4.4%	223	-6.3%
State of Colorado	155	172	11.0%	136	-20.9%	145	6.6%	113	-22.1%
Domestic Local Government	32	25	-21.9%	25	0.0%	32	28.0%	46	43.8%
Domestic State Gov (other than CO)	34	16	-52.9%	16	0.0%	19	18.8%	10	-47.4%
Domestic Higher Ed (other than CO)	195	167	-14.4%	171	2.4%	208	21.6%	196	-5.8%
Foreign Government	15	11	-26.7%	15	36.4%	12	-20.0%	16	33.3%
Total Non-Federal	949	950	0.1%	976	2.7%	1079	10.6%	1039	-3.7%
DOC	48	41	-14.6%	46	12.2%	51	10.9%	39	-23.5%
DOD	109	103	-5.5%	142	37.9%	156	9.9%	168	7.7%
DOE	30	55	83.3%	43	-21.8%	51	18.6%	40	-21.6%
EPA	18	11	-38.9%	17	54.5%	17	0.0%	6	-64.7%
HHS	310	213	-31.3%	214	0.5%	217	1.4%	234	7.8%
NASA	48	48	0.0%	47	-2.1%	46	-2.1%	47	2.2%
NSF	290	345	19.0%	298	-13.6%	261	-12.4%	275	5.4%
USDA	245	212	-13.5%	169	-20.3%	190	12.4%	224	17.9%
USDI	103	123	19.4%	109	-11.4%	145	33.0%	104	-28.3%
Misc. Fed.	31	44	41.9%	36	-18.2%	41	13.9%	27	-34.1%
Total Federal	1232	1195	-3.0%	1121	-6.2%	1175	4.8%	1164	-0.9%
CSU Own Funds	1	0	-100.0%	0		1		0	-100.0%
Total CSU Own Funds	1	0	-100.0%	0		1		0	-100.0%
TOTAL	2182	2145	-1.7%	2097	-2.2%	2255	7.5%	2203	-2.3%

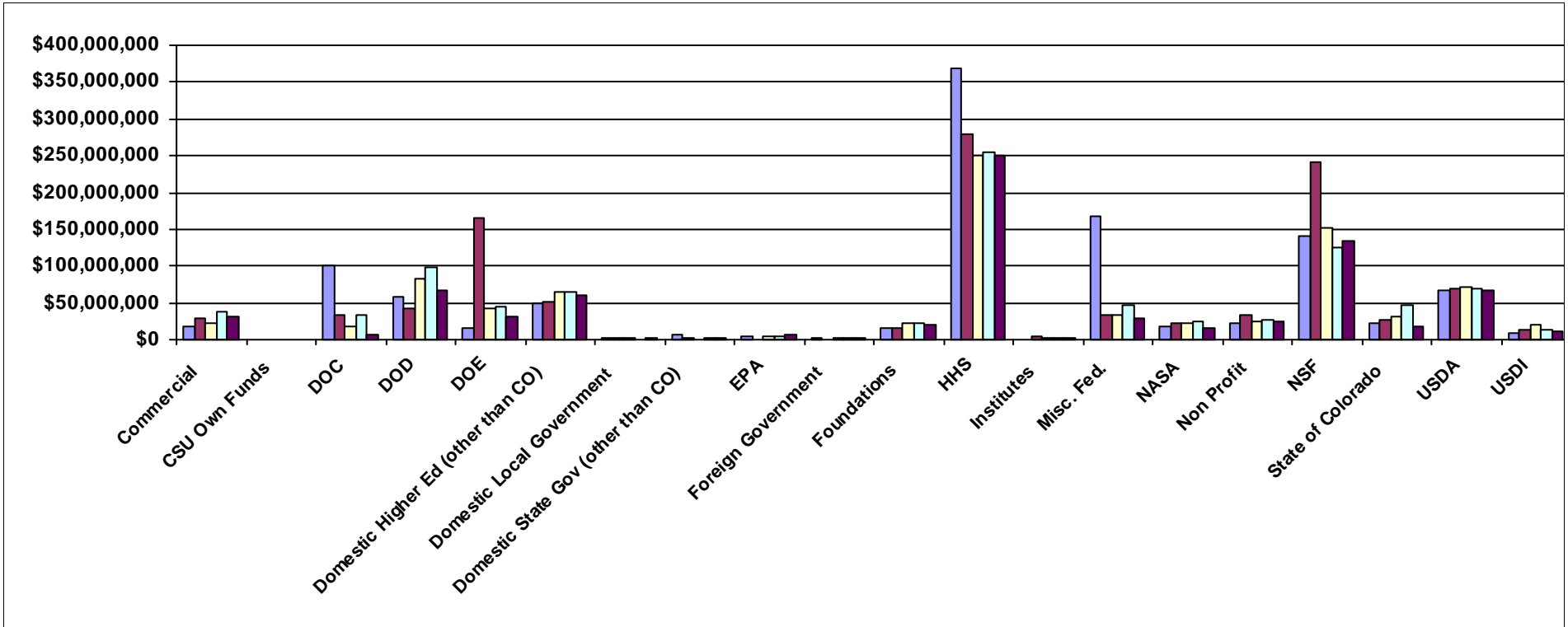
Proposals Submitted by Fund Source (July - June) - Total #



Proposals Submitted by Fund Source (July - June) - Total \$

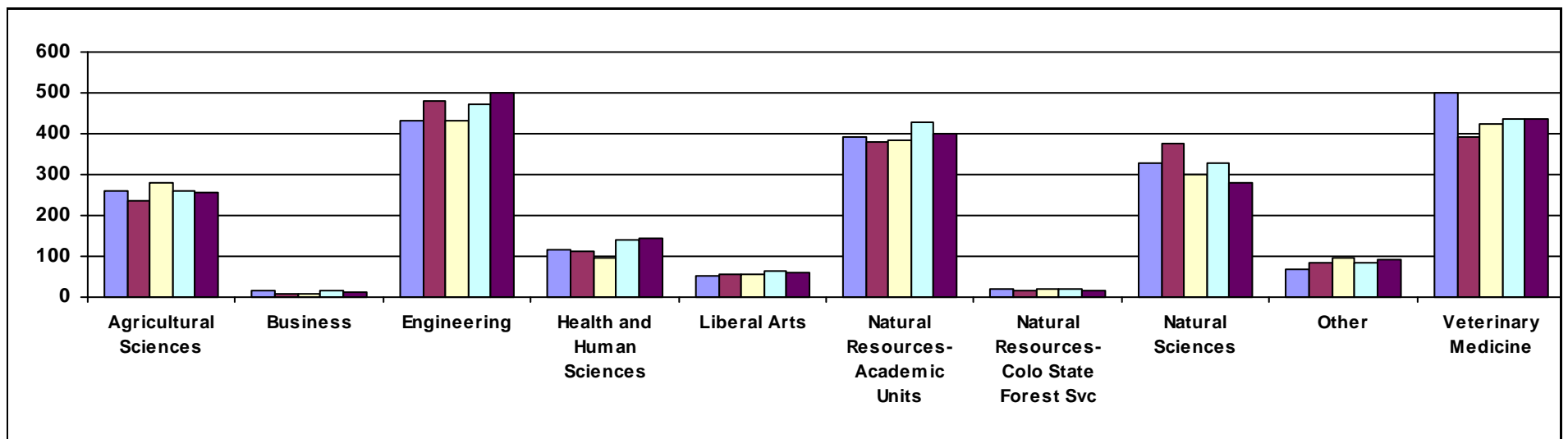
	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Commercial	\$18,790,952	\$28,446,181	51.4%	\$23,205,076	-18.4%	\$38,189,073	64.6%	\$30,859,242	-19.2%
Foundations	\$15,897,975	\$16,329,083	2.7%	\$22,233,721	36.2%	\$22,416,629	0.8%	\$19,079,775	-14.9%
Institutes	\$344,305	\$4,599,646	1235.9%	\$2,699,609	-41.3%	\$1,146,871	-57.5%	\$2,977,673	159.6%
Non Profit	\$22,992,436	\$34,342,413	49.4%	\$24,886,758	-27.5%	\$27,536,445	10.6%	\$24,914,167	-9.5%
State of Colorado	\$22,761,289	\$27,421,687	20.5%	\$30,558,894	11.4%	\$46,630,916	52.6%	\$17,307,874	-62.9%
Domestic Local Government	\$1,489,850	\$1,471,607	-1.2%	\$2,017,434	37.1%	\$956,932	-52.6%	\$2,690,264	181.1%
Domestic State Gov (other than CO)	\$5,724,390	\$1,238,963	-78.4%	\$964,988	-22.1%	\$1,339,801	38.8%	\$1,355,362	1.2%
Domestic Higher Ed (other than CO)	\$49,150,421	\$51,926,730	5.6%	\$65,162,946	25.5%	\$65,176,396	0.0%	\$60,358,199	-7.4%
Foreign Government	\$1,698,668	\$898,370	-47.1%	\$1,672,579	86.2%	\$1,591,112	-4.9%	\$3,272,878	105.7%
Total Non-Federal	\$138,850,286	\$166,674,680	20.0%	\$173,402,005	4.0%	\$204,984,176	18.2%	\$162,815,434	-20.6%
DOC	\$101,048,839	\$33,482,038	-66.9%	\$17,309,793	-48.3%	\$34,126,092	97.1%	\$7,316,230	-78.6%
DOD	\$57,396,376	\$43,533,472	-24.2%	\$82,801,426	90.2%	\$98,905,838	19.4%	\$66,131,289	-33.1%
DOE	\$16,602,895	\$165,568,270	897.2%	\$43,284,339	-73.9%	\$44,843,092	3.6%	\$31,809,100	-29.1%
EPA	\$3,599,956	\$847,860	-76.4%	\$4,301,024	407.3%	\$4,131,910	-3.9%	\$6,525,208	57.9%
HHS	\$369,505,426	\$279,674,630	-24.3%	\$249,570,281	-10.8%	\$255,178,581	2.2%	\$250,955,646	-1.7%
NASA	\$18,151,693	\$23,276,906	28.2%	\$22,568,256	-3.0%	\$23,872,448	5.8%	\$14,660,845	-38.6%
NSF	\$139,975,102	\$240,894,159	72.1%	\$151,671,463	-37.0%	\$124,161,733	-18.1%	\$134,081,947	8.0%
USDA	\$66,210,033	\$70,378,018	6.3%	\$71,656,541	1.8%	\$70,279,910	-1.9%	\$67,964,781	-3.3%
USDI	\$9,086,206	\$14,245,603	56.8%	\$21,016,356	47.5%	\$14,056,819	-33.1%	\$11,937,202	-15.1%
Misc. Fed.	\$168,166,294	\$34,592,250	-79.4%	\$33,445,178	-3.3%	\$47,802,327	42.9%	\$28,864,040	-39.6%
Total Federal	\$949,742,820	\$906,493,206	-4.6%	\$697,624,656	-23.0%	\$717,358,750	2.8%	\$620,246,289	-13.5%
CSU Own Funds	\$74,847	\$0	-100.0%	\$0		\$4,029		\$0	-100.0%
Total CSU Own Funds	\$74,847	\$0	-100.0%	\$0		\$4,029		\$0	-100.0%
TOTAL	\$1,088,667,953	\$1,073,167,886	-1.4%	\$871,026,661	-18.8%	\$922,346,955	5.9%	\$783,061,722	-15.1%

Proposals Submitted by Fund Source (July - June) - Total \$



Proposals Submitted by College (July - June) - Total

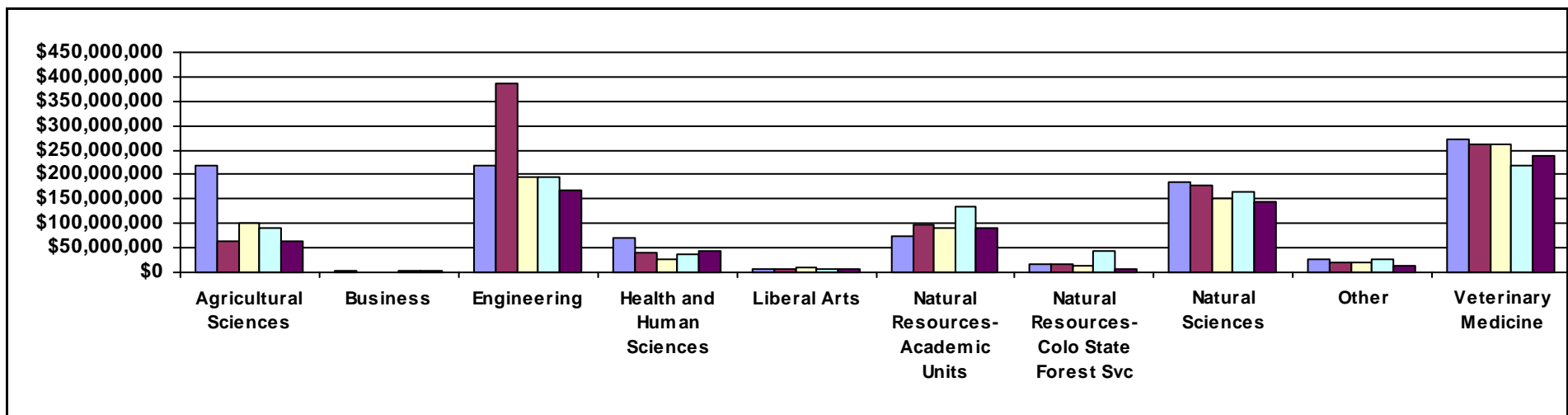
	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Agricultural Sciences	261	237	-9.2%	279	17.7%	262	-6.1%	258	-1.5%
Business	15	9	-40.0%	8	-11.1%	16	100.0%	13	-18.8%
Engineering	431	479	11.1%	433	-9.6%	471	8.8%	499	5.9%
Health and Human Sciences	118	114	-3.4%	95	-16.7%	140	47.4%	144	2.9%
Liberal Arts	51	55	7.8%	57	3.6%	65	14.0%	60	-7.7%
Natural Resources-Academic Units	391	382	-2.3%	383	0.3%	428	11.7%	402	-6.1%
Natural Resources-Colo State Forest Svc	21	16	-23.8%	20	25.0%	22	10.0%	16	-27.3%
Natural Sciences	327	377	15.3%	300	-20.4%	330	10.0%	282	-14.5%
Other	67	85	26.9%	96	12.9%	85	-11.5%	91	7.1%
Veterinary Medicine	500	391	-21.8%	426	9.0%	436	2.3%	438	0.5%
TOTAL	2182	2145	-1.7%	2097	-2.2%	2255	7.5%	2203	-2.3%



See "Proposals Submitted by Department" section for a list of departments represented in the college totals.

Proposals Submitted by College (July - June) - Total \$

	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Agricultural Sciences	\$217,247,133	\$63,731,531	-70.7%	\$101,793,191	59.7%	\$91,460,924	-10.2%	\$65,405,514	-28.5%
Business	\$2,072,697	\$553,703	-73.3%	\$652,448	17.8%	\$4,611,216	606.8%	\$4,864,569	5.5%
Engineering	\$217,853,327	\$387,466,572	77.9%	\$194,876,940	-49.7%	\$195,205,779	0.2%	\$167,259,692	-14.3%
Health and Human Sciences	\$68,981,863	\$41,243,118	-40.2%	\$26,916,283	-34.7%	\$35,741,246	32.8%	\$45,289,231	26.7%
Liberal Arts	\$5,854,428	\$6,471,249	10.5%	\$10,270,716	58.7%	\$6,285,148	-38.8%	\$6,592,381	4.9%
Natural Resources-Academic Units	\$73,692,767	\$96,495,925	30.9%	\$90,337,844	-6.4%	\$135,325,604	49.8%	\$89,355,597	-34.0%
Natural Resources-Colo State Forest Svc	\$16,064,574	\$15,440,811	-3.9%	\$14,928,514	-3.3%	\$42,880,172	187.2%	\$8,060,156	-81.2%
Natural Sciences	\$185,487,173	\$178,344,013	-3.9%	\$149,562,225	-16.1%	\$163,324,146	9.2%	\$144,351,030	-11.6%
Other	\$28,499,908	\$21,511,765	-24.5%	\$20,450,242	-4.9%	\$28,300,444	38.4%	\$12,186,504	-56.9%
Veterinary Medicine	\$272,914,083	\$261,909,199	-4.0%	\$261,238,257	-0.3%	\$219,212,276	-16.1%	\$239,697,047	9.3%
TOTAL	\$1,088,667,953	\$1,073,167,886	-1.4%	\$871,026,661	-18.8%	\$922,346,955	5.9%	\$783,061,722	-15.1%



See "Proposals Submitted by Department" section for a list of departments represented in the college totals.

SECTION III

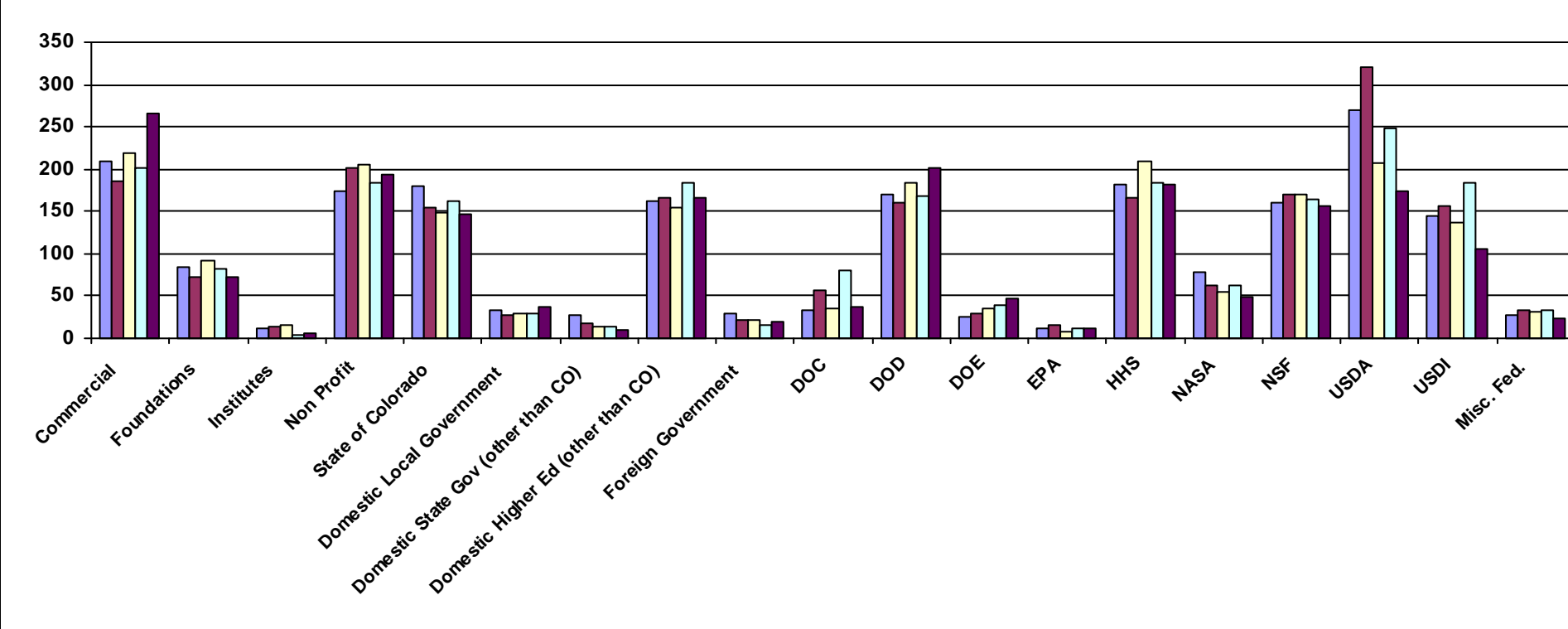
Awards Received

Awards by Fund Source
Awards by College

Awards Received by Fund Source (July - June) - Total

	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Commercial	210	186	-11.4%	219	17.7%	202	-7.8%	265	31.2%
Foundations	85	73	-14.1%	91	24.7%	82	-9.9%	73	-11.0%
Institutes	12	14	16.7%	15	7.1%	3	-80.0%	5	66.7%
Non Profit	175	202	15.4%	205	1.5%	183	-10.7%	194	6.0%
State of Colorado	180	154	-14.4%	149	-3.2%	162	8.7%	147	-9.3%
Domestic Local Government	33	28	-15.2%	29	3.6%	30	3.4%	38	26.7%
Domestic State Gov (other than CO)	28	18	-35.7%	13	-27.8%	13	0.0%	10	-23.1%
Domestic Higher Ed (other than CO)	163	166	1.8%	155	-6.6%	183	18.1%	167	-8.7%
Foreign Government	30	22	-26.7%	22	0.0%	16	-27.3%	19	18.8%
Total Non-Federal	916	863	-5.8%	898	4.1%	874	-2.7%	918	5.0%
DOC	33	56	69.7%	36	-35.7%	81	125.0%	37	-54.3%
DOD	171	160	-6.4%	183	14.4%	168	-8.2%	202	20.2%
DOE	26	29	11.5%	36	24.1%	40	11.1%	46	15.0%
EPA	12	15	25.0%	8	-46.7%	11	37.5%	11	0.0%
HHS	182	166	-8.8%	209	25.9%	183	-12.4%	181	-1.1%
NASA	79	62	-21.5%	55	-11.3%	62	12.7%	49	-21.0%
NSF	161	170	5.6%	171	0.6%	165	-3.5%	156	-5.5%
USDA	270	321	18.9%	208	-35.2%	249	19.7%	174	-30.1%
USDI	144	156	8.3%	137	-12.2%	183	33.6%	106	-42.1%
Misc. Fed.	27	34	25.9%	32	-5.9%	33	3.1%	23	-30.3%
Total Federal	1105	1169	5.8%	1075	-8.0%	1175	9.3%	985	-16.2%
TOTAL	2021	2032	0.5%	1973	-2.9%	2049	3.9%	1903	-7.1%

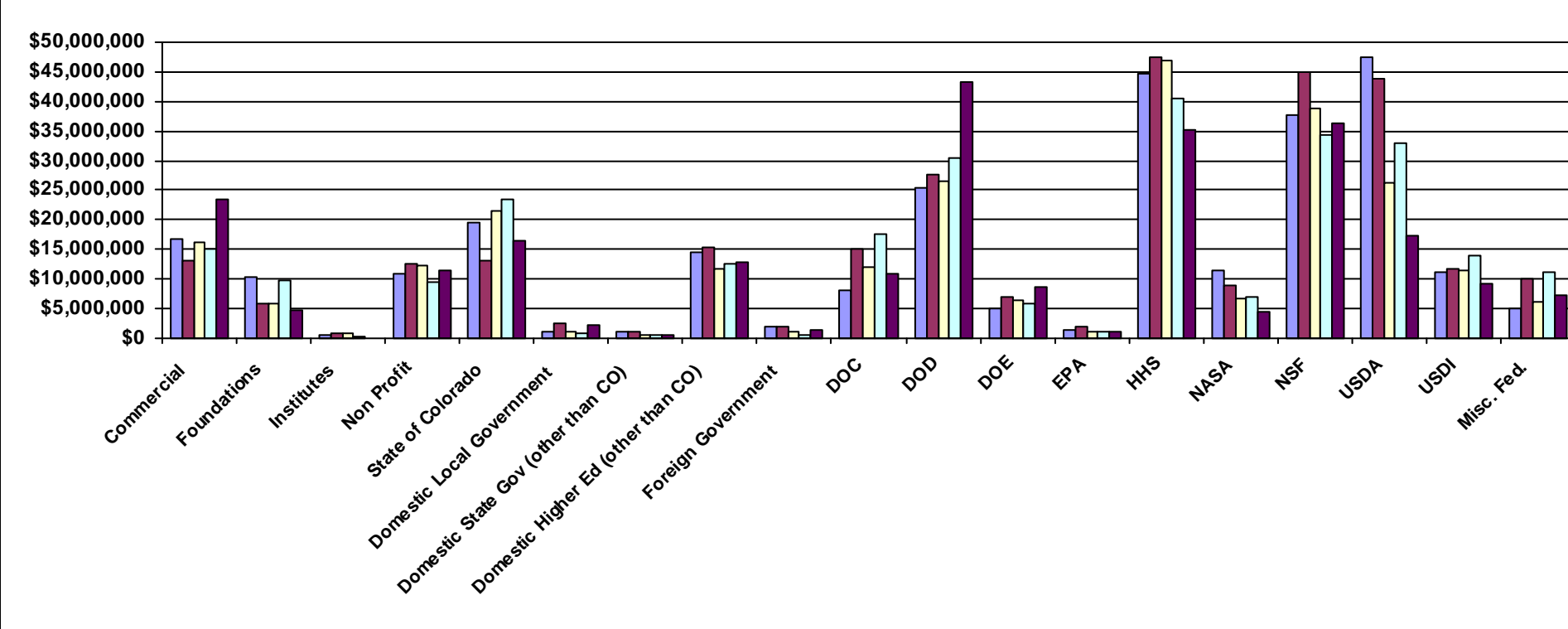
Awards Received by Fund Source (July - June) - Total #



Awards Received by Fund Source (July - June) - Total \$

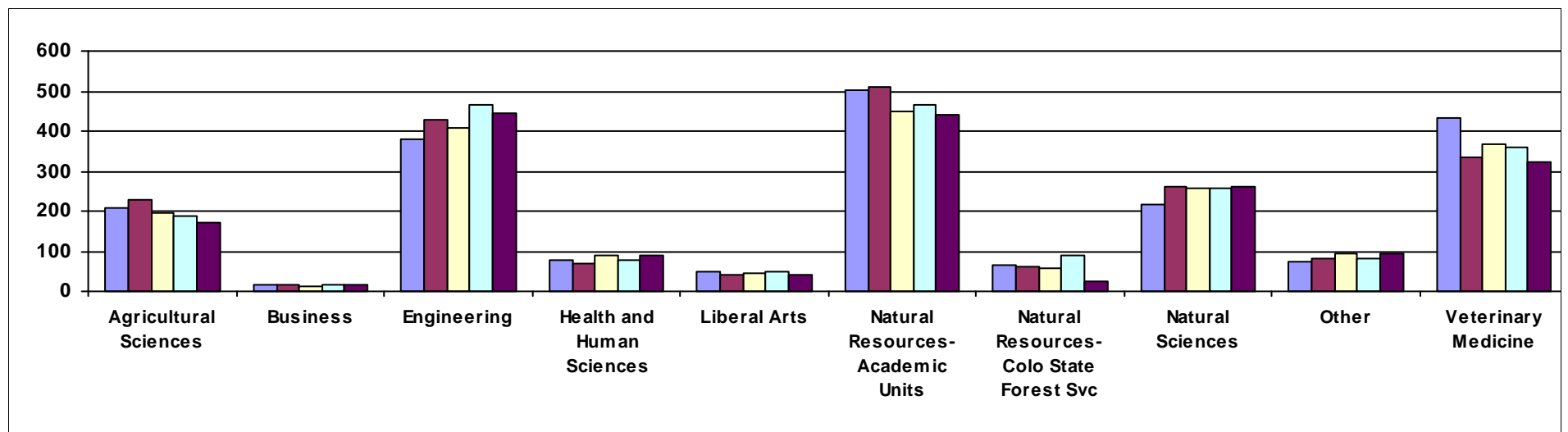
	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Commercial	\$16,869,263	\$13,005,138	-22.9%	\$16,106,707	23.8%	\$15,164,611	-5.8%	\$23,480,106	54.8%
Foundations	\$10,392,016	\$5,814,803	-44.0%	\$5,868,148	0.9%	\$9,671,332	64.8%	\$4,727,608	-51.1%
Institutes	\$596,003	\$868,416	45.7%	\$937,365	7.9%	\$209,246	-77.7%	\$70,987	-66.1%
Non Profit	\$10,870,075	\$12,635,213	16.2%	\$12,421,655	-1.7%	\$9,575,606	-22.9%	\$11,573,623	20.9%
State of Colorado	\$19,511,988	\$13,230,314	-32.2%	\$21,435,050	62.0%	\$23,485,732	9.6%	\$16,613,539	-29.3%
Domestic Local Government	\$1,162,032	\$2,597,003	123.5%	\$1,161,077	-55.3%	\$759,146	-34.6%	\$2,270,463	199.1%
Domestic State Gov (other than CO)	\$986,995	\$1,141,870	15.7%	\$619,389	-45.8%	\$681,187	10.0%	\$558,484	-18.0%
Domestic Higher Ed (other than CO)	\$14,583,269	\$15,391,328	5.5%	\$11,684,921	-24.1%	\$12,468,590	6.7%	\$12,749,005	2.2%
Foreign Government	\$1,852,707	\$2,064,096	11.4%	\$1,170,473	-43.3%	\$638,327	-45.5%	\$1,383,146	116.7%
Total Non-Federal	\$76,824,347	\$66,748,181	-13.1%	\$71,404,785	7.0%	\$72,653,777	1.7%	\$73,426,961	1.1%
DOC	\$8,129,065	\$15,087,189	85.6%	\$11,876,817	-21.3%	\$17,653,087	48.6%	\$10,853,309	-38.5%
DOD	\$25,410,921	\$27,721,797	9.1%	\$26,601,713	-4.0%	\$30,489,807	14.6%	\$43,257,068	41.9%
DOE	\$4,982,140	\$7,001,781	40.5%	\$6,501,324	-7.1%	\$5,831,966	-10.3%	\$8,643,264	48.2%
EPA	\$1,328,519	\$1,893,157	42.5%	\$1,135,426	-40.0%	\$1,175,229	3.5%	\$1,169,013	-0.5%
HHS	\$44,822,235	\$47,521,205	6.0%	\$47,017,331	-1.1%	\$40,400,658	-14.1%	\$35,253,521	-12.7%
NASA	\$11,350,200	\$8,998,913	-20.7%	\$6,839,948	-24.0%	\$6,946,281	1.6%	\$4,578,816	-34.1%
NSF	\$37,747,029	\$44,871,204	18.9%	\$38,778,743	-13.6%	\$34,455,099	-11.1%	\$36,447,103	5.8%
USDA	\$47,540,759	\$43,898,086	-7.7%	\$26,158,368	-40.4%	\$33,023,070	26.2%	\$17,222,716	-47.8%
USDI	\$11,282,188	\$11,806,756	4.6%	\$11,424,325	-3.2%	\$13,899,371	21.7%	\$9,342,358	-32.8%
Misc. Fed.	\$4,932,054	\$10,080,556	104.4%	\$6,067,066	-39.8%	\$11,261,325	85.6%	\$7,386,702	-34.4%
Total Federal	\$197,525,110	\$218,880,644	10.8%	\$182,401,061	-16.7%	\$195,135,893	7.0%	\$174,153,870	-10.8%
TOTAL	\$274,349,457	\$285,628,825	4.1%	\$253,805,846	-11.1%	\$267,789,670	5.5%	\$247,580,831	-7.5%

Awards Received by Fund Source (July - June) - Total \$



Awards Received by College (July - June) - Total

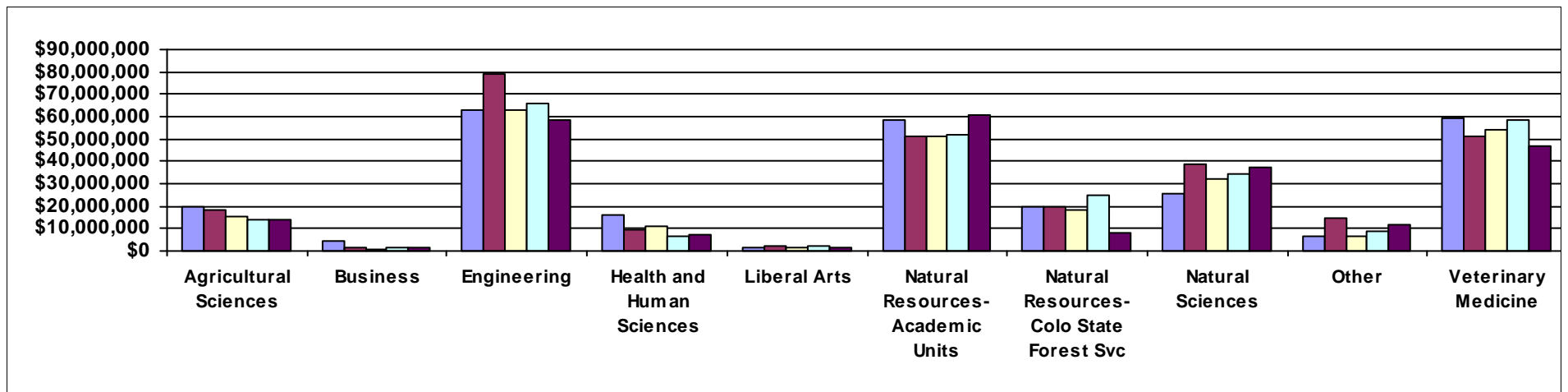
	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Agricultural Sciences	209	227	8.6%	194	-14.5%	186	-4.1%	172	-7.5%
Business	18	15	-16.7%	12	-20.0%	16	33.3%	18	12.5%
Engineering	379	429	13.2%	407	-5.1%	466	14.5%	444	-4.7%
Health and Human Sciences	78	71	-9.0%	91	28.2%	76	-16.5%	90	18.4%
Liberal Arts	50	39	-22.0%	44	12.8%	50	13.6%	39	-22.0%
Natural Resources-Academic Units	501	511	2.0%	448	-12.3%	467	4.2%	440	-5.8%
Natural Resources-Colo State Forest Svc	64	62	-3.1%	56	-9.7%	88	57.1%	26	-70.5%
Natural Sciences	218	261	19.7%	259	-0.8%	257	-0.8%	260	1.2%
Other	73	81	11.0%	95	17.3%	82	-13.7%	93	13.4%
Veterinary Medicine	431	336	-22.0%	367	9.2%	361	-1.6%	321	-11.1%
TOTAL	2021	2032	0.5%	1973	-2.9%	2049	3.9%	1903	-7.1%



See "Awards Received by Department" section for a list of departments represented in the college totals.

Awards Received by College (July - June) - Total \$

	2009	2010	% Change	2011	% Change	2012	% Change	2013	% Change
Agricultural Sciences	\$20,017,875	\$18,252,712	-8.8%	\$15,365,824	-15.8%	\$13,705,579	-10.8%	\$13,889,940	1.3%
Business	\$4,495,635	\$1,786,359	-60.3%	\$978,025	-45.3%	\$1,197,822	22.5%	\$1,515,843	26.5%
Engineering	\$62,763,611	\$78,745,667	25.5%	\$63,227,765	-19.7%	\$65,543,975	3.7%	\$58,386,473	-10.9%
Health and Human Sciences	\$16,080,987	\$9,271,609	-42.3%	\$10,775,315	16.2%	\$6,394,346	-40.7%	\$7,617,788	19.1%
Liberal Arts	\$1,522,441	\$2,477,144	62.7%	\$1,533,362	-38.1%	\$2,279,525	48.7%	\$1,531,279	-32.8%
Natural Resources-Academic Units	\$58,440,108	\$51,209,641	-12.4%	\$51,037,203	-0.3%	\$51,716,463	1.3%	\$60,645,583	17.3%
Natural Resources-Colo State Forest Svc	\$19,471,227	\$19,611,365	0.7%	\$17,976,710	-8.3%	\$24,985,259	39.0%	\$8,206,699	-67.2%
Natural Sciences	\$25,507,934	\$38,706,946	51.7%	\$32,172,389	-16.9%	\$34,755,824	8.0%	\$37,259,300	7.2%
Other	\$6,701,436	\$14,388,030	114.7%	\$6,756,963	-53.0%	\$8,780,151	29.9%	\$11,670,933	32.9%
Veterinary Medicine	\$59,348,204	\$51,179,352	-13.8%	\$53,982,290	5.5%	\$58,430,726	8.2%	\$46,856,993	-19.8%
TOTAL	\$274,349,457	\$285,628,825	4.1%	\$253,805,846	-11.1%	\$267,789,670	5.5%	\$247,580,831	-7.5%



See "Awards Received by Department" section for a list of departments represented in the college totals.