

Funding Flows for Climate Change Research and Related Activities

By Jeff Kueter, President

Introduction: The Asserted Influence of Funding on Results

In today's highly charged environment of climate change policy, efforts are often made to impugn the credibility of those engaged in the debate through assertions that their views are a product of financial relationships rather than sincerely held beliefs or objective research. All too frequently evidence of a financial tie is sufficient to condemn, without proof that the tie altered the views, opinions, or conclusions in any way. The public discourse suffers as arguments are not explored in sufficient detail. Unfortunately, we seem to live in an age that places a higher premium on finding problems than on asking questions and finding answers.

Often overlooked or ignored in such discussions is the fact that the American scientific enterprise is critically dependent on funding from the federal government. Without public funds, the burgeoning enterprise of universities and researchers would contract dramatically. While few would dispute the value of the contributions made by the government-supported scientific enterprise, some facets of government-financing of science are troublesome.¹ Yet, the focus remains on the alleged distorting influence of corporate funding on scientific results.

One of the most prominent and frequently voiced fears is that private interests can undermine objectivity, inject bias and error, lead to the suppression of results, and perhaps even precipitate outright fraud. That claim rests on the assumption that private interests demand results consistent with their views and interests.² It also rests on the assumption that integrity and objectivity are always for sale. Unfortunately, the claim is frequently repeated without the benefit of rigorous evaluation or evidence to support it.

Equally overlooked are concerns that public funding generates unwelcome pressures on scientists to conform to prevailing beliefs. Public funding is also said to breed alarmism and facilitate distortion in public discourse.³ Studies of organizations and bureaucracies demonstrate that, over time, institutions devise strategies to perpetuate their continued existence and encourage their expansion. Organizations have agendas and preferences and these guide the actions they take and, in the case of a grant making organization, the relationships they enter into.

Perhaps surprisingly, a recent work of fiction summarizes the concerns best.

Scientists are only too aware whom they are working for. Those who fund research—whether a drug company, a government agency, or an environmental organization—always have a particular outcome in mind. Research funding is almost never open-ended or open-minded. Scientists know that continued funding depends on delivering the results the funders desire. As a result, environmental organization “studies” are every bit as biased and suspect as industry “studies.” Government “studies” are similarly biased according to who is running the department or the administration at the time. No faction should be given a free pass.⁴

The Marshall Institute Policy Outlook series will periodically examine important issues affecting science and public policy. Particularly focused on the use of scientific information in formulating policy decisions, Policy Outlooks will aim to provide clarity and objectivity to policy-relevant discussions.

These statements, extreme as they may be, cry out for further exploration. The underlying claim remains difficult to prove, but, if the assertion about bias arising from financial relationships is advanced, then a logical first step in evaluating that claim is to take a full accounting of those relationships. Proving the linkage between financial relationships and biased results is difficult as it requires knowledge of motive and intent that typically is not available. The best that is probably possible are indirect inferences from addressing a series of questions. Some of these could include:

- Do grant requests suggest preconceptions and work toward a specific policy or point of view?
- How do institutions promote internal discussion and debate on the issue in question?
- Does the institution refuse grants?
- How are internal and external reviews conducted?

This survey does not attempt to answer these questions nor does it conclude that bias necessarily results from financial relationships. Before one can answer that question, one must first understand who the players are and how they are connected. This survey takes that step and offers a picture of the financial interconnections between organizations and sources of funding in the climate change debate.

The paper has two elements. The first examines the financial relationships between private grant-making foundations and those they support over a three-year period, 2000-2002, in the climate change area. The second examines the funding support provided by the U.S. federal government for climate change research and policy activities.

Findings

- The study of climate change science and the policy ramifications of climate change is a multi-billion enterprise in the United States.

- Private foundations distribute a *minimum* of \$35-50 million annually to non-profit organizations and universities to comment on or study various elements of the climate change debate.
- This support was significant for many of the receiving institutions. Climate change-related projects accounted for over 25% of the 3-year total reported grants and contributions received by 10 of the top-20 institutions. For 6 organizations, climate change grants accounted for 50% of their reported grants and contributions received.
- A cursory glimpse of the list of recipients of those private funds reveals that the vast majority are spent by groups favoring restrictions on carbon dioxide emissions and believe that climate change requires dramatic government action.
- The U.S. federal government spent nearly \$2 billion to support climate change science programs in FY 2004.
- More than 2,000 separate climate change-related grants were distributed by federal departments and agencies in FY 2002, the most recent year for which comprehensive data is available.
- Federal support for R&D in the environmental sciences field has tripled in the past 20 years, rising from \$1.2 billion in 1980 to \$3.6 billion in 2002, according to data available from the National Science Foundation.
- In 28 of the top-30 performing institutions, federal financing accounts for more than 50% of the institution's expenditures on atmospheric R&D.

Support for Climate Change Activities Provided by Foundations

Foundations give tens of millions of dollars to public and private institutions to express perspectives or provide information on climate

change. Over the three-year period examined, these institutions extended a *minimum* of nearly \$125 million to almost 300 public policy think tanks, universities, and other organizations to explore various facets of the climate change debate (see Figure 1).

Unlike other analyses of funding flows, this survey only includes projects specifically designated by a foundation as relating to climate change.⁵ Foundations are required by law to identify institutions to whom they provide financial support, but they are not obligated to note specifically what those funds may be used for or what projects or programs they may be supporting. However, some foundations provide program descriptions or titles for their grants. It is from that set of self-reported and self-identified grants that this analysis of foundation funding patterns is based.

This constraint naturally produces an under-reporting of the total potentially spent on climate change activities, but avoids the worse

error of over-reporting. For example, the totals do not include grants given for general operating support to multi-issue organizations. The effort to discern how an organization would split such a grant among its various programs requires a degree of subjectivity that this survey did not wish to entertain.

Over the three-year period, 19 foundations provided more than \$1 million and the top three accounted for nearly one-half of the total for the period. The largest donor was the Energy Foundation of California with \$43.5 million disbursed to support a variety of policy and technology development projects to both U.S. and international institutes. The Pew Charitable Trusts were second, with \$12.8 million expended on climate activities during the period. The William and Flora Hewlett Foundation rank third in the 2000-2002 period at just over \$10 million.

Table 1 summarizes the top-20 foundations.⁶ With only a few exceptions, climate change activities did not account for

Figure 1

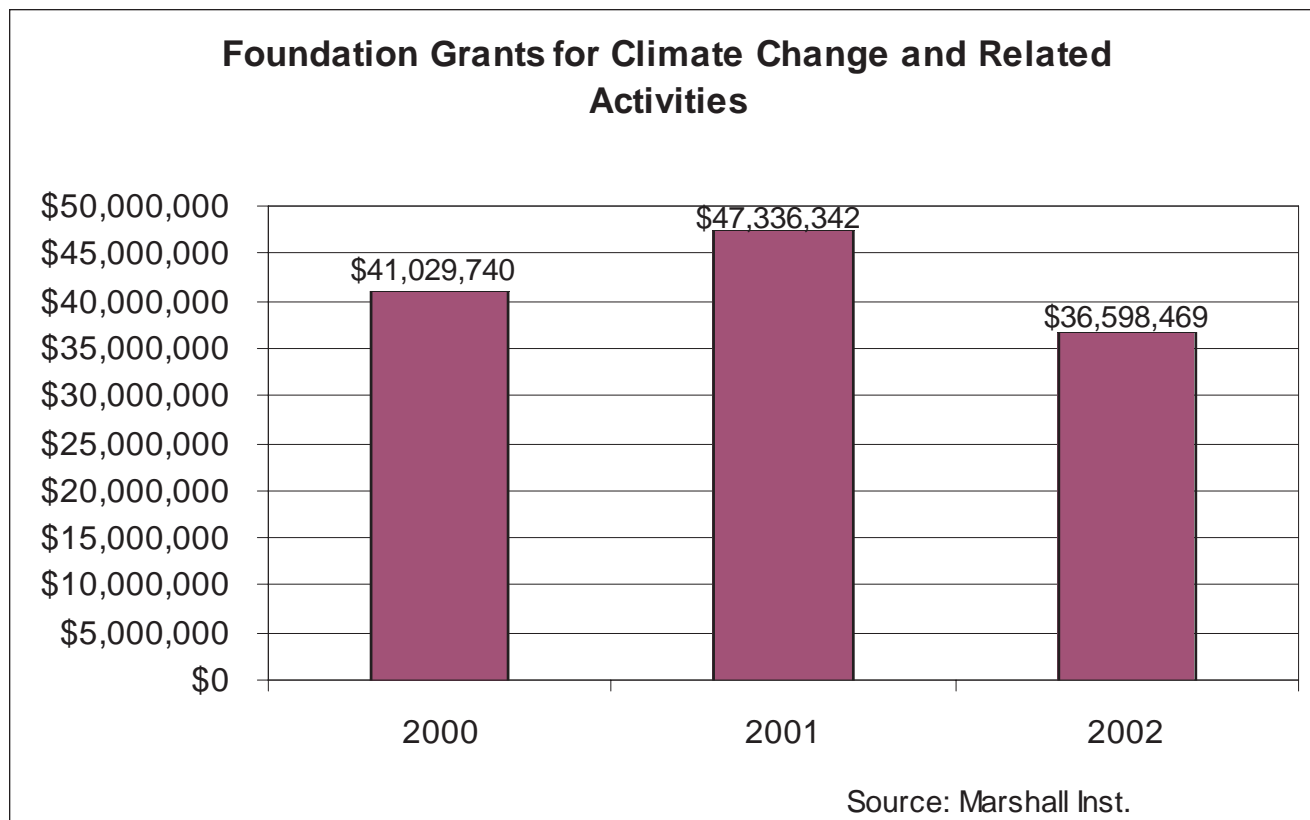


Table 1 – Top 20 Foundations, 2000-2002

Foundations Supporting Climate Change & Related Projects	Total Climate Related Activities				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-year Total	2000	2001	2002	3-year Total
1 Energy Foundation	\$15,547,816	\$15,969,784	\$12,057,741	\$43,575,341	n/a	82.38%	59.18%	79.7%
2 Pew Charitable Trusts	\$4,304,000	\$2,556,000	\$6,032,500	\$12,892,500	23.04%	19.53%	48.73%	29.2%
3 William and Flora Hewlett Foundation	\$40,000	\$2,955,000	\$7,080,000	\$10,075,000	0.03%	2.46%	3.63%	2.2%
4 Turner Foundation, Inc.	\$3,330,333	\$3,119,667	\$1,110,000	\$7,560,000	7.49%	4.58%	3.92%	5.4%
5 Rockefeller Brothers Fund, Inc.	\$2,178,000	\$2,041,674	\$812,000	\$5,031,674	6.78%	7.96%	3.54%	6.2%
6 David and Lucile Packard Foundation	\$250,000	\$2,955,207	\$1,325,000	\$4,530,207	0.05%	0.69%	0.38%	0.3%
7 Starr Foundation	\$2,000,000	\$1,000,000	\$1,000,000	\$4,000,000	1.04%	0.46%	0.48%	0.6%
8 Joyce Foundation	\$1,172,600	\$1,255,100	\$1,202,500	\$3,630,200	2.96%	2.94%	3.31%	3.1%
9 G. Unger Vetlesen Foundation	\$1,850,000	\$1,600,000		\$3,450,000	39.16%	33.83%	0.00%	24.3%
10 Beldon Fund	\$600,000	\$1,980,000		\$2,580,000	6.50%	17.11%	0.00%	7.9%
11 John Merck Fund	\$667,000	\$1,342,500		\$2,009,500	5.62%	10.55%	0.00%	5.8%
12 ExxonMobil Foundation	\$585,000	\$944,750	\$412,000	\$1,941,750	1.39%	2.38%	0.87%	1.5%
13 Surdna Foundation, Inc.	\$495,000	\$740,000	\$695,000	\$1,930,000	1.70%	1.87%	2.10%	1.9%
14 New York Community Trust	\$410,000	\$650,000	\$790,000	\$1,850,000	0.29%	0.52%	0.64%	0.5%
15 John D. and Catherine T. MacArthur Foundation		\$1,425,000	\$150,000	\$1,575,000	0.00%	0.85%	0.08%	0.3%
16 Wallace Global Fund		\$522,250	\$700,000	\$1,222,250	0.00%	9.92%	15.93%	7.7%
17 Blue Moon	\$1,070,000	\$78,000		\$1,148,000	3.67%	0.30%	0.00%	1.6%
18 Henry Luce Foundation, Inc.		\$1,100,000		\$1,100,000	0.00%	2.53%	0.00%	0.9%
19 W. M. Keck Foundation	\$1,000,000			\$1,000,000	1.22%	0.00%	0.00%	0.5%
20 Educational Foundation of America	\$913,349	\$75,000		\$988,349	6.76%	0.63%	0.00%	2.7%

Table 2 – Top 20 Recipients of Funds from Foundations

Recipient of Funds from Foundation	Total Climate Related Activities				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-year Total	2000	2001	2002	3-year Total
1 Strategies for the Global Environment	\$3,884,000	\$966,000	\$4,280,000	\$9,130,000	76.82%	15.25%	90.24%	56.6%
2 Energy Foundation		\$2,600,000	\$5,020,000	\$7,620,000	0.00%	10.79%	24.40%	10.8%
3 Natural Resources Defense Council	\$2,113,333	\$2,141,667	\$2,445,000	\$6,700,000	6.11%	4.08%	5.22%	5.0%
4 Union of Concerned Scientists	\$1,027,000	\$2,848,400	\$2,479,000	\$6,354,400	13.59%	33.26%	30.84%	26.3%
5 Environmental Defense	\$2,355,000	\$2,544,674	\$1,165,000	\$6,064,674	6.43%	6.30%	2.85%	5.1%
6 Center for Energy Efficiency and Renewable Technologies	\$1,500,000	\$1,998,000	\$1,250,000	\$4,748,000	140.93%	193.73%	80.48%	130.1%
7 American Council for an Energy Efficient Economy	\$869,400	\$2,516,684	\$553,500	\$3,939,584	49.66%	101.87%	26.15%	62.2%
8 Environmental Law & Policy Center of the Midwest	\$1,175,000	\$750,000	\$675,000	\$2,600,000	54.31%	36.03%	25.06%	37.5%
9 World Resources Institute	\$375,000	\$1,255,000	\$585,200	\$2,215,200	3.04%	6.95%	2.33%	4.0%
10 National Environmental Trust	\$1,150,000	\$500,000	\$500,000	\$2,150,000	6.42%	4.11%	4.70%	5.3%
11 Alliance to Save Energy	\$460,000	\$1,083,000	\$400,000	\$1,943,000	7.92%	14.41%	4.51%	8.8%
12 American Geophysical Union		\$1,929,495		\$1,929,495	0.00%	46.81%	0.00%	21.2%
13 Scripps Institution of Oceanography	\$850,000	\$900,000		\$1,750,000				
14 Center for Resource Solutions	\$450,000	\$820,000	\$464,695	\$1,734,695	94.53%	105.48%	42.74%	74.1%
15 Harvard University	\$785,000	\$336,000	\$600,000	\$1,721,000				
16 Clean Energy Group	\$890,000	\$482,000	\$327,000	\$1,699,000	200.00%	64.27%	49.47%	91.5%
17 Michigan Environmental Council		\$1,500,000		\$1,500,000	0.00%	59.89%	0.00%	33.2%
18 Massachusetts Institute of Technology	\$763,250	\$476,900	\$200,000	\$1,440,150				
19 Clean Air Cool Planet	\$630,000	\$425,000	\$320,000	\$1,375,000	87.68%	54.82%	51.21%	64.9%
20 Minnesotans for an Energy Efficient Economy	\$595,000	\$275,000	\$460,000	\$1,330,000	79.04%	28.19%	69.54%	55.6%

large shares of the funds distributed by these foundations annually. The vast preponderance of gifts went to other uses, but the support they did provide was significant to the receiving organizations.⁷

The top recipients of foundation funding for the 2000-2002 period represent some of the most well-known names in the climate change debate. Ranking first on the list, having received more than \$9 million, is Strategies for the Global Environment, which is the umbrella organization for the Pew Center on

Global Climate Change and the Center for SeaChange. The Energy Foundation also ranks highly on this list as it is the recipient of considerable support from other organizations. It received \$7.6 million over the three years surveyed. Rounding out the top three is the Natural Resources Defense Council (NRDC), which brought in \$6.7 million for climate change-related projects between 2000-2002. Table 2 summarizes the rest of the top-20.⁸

As Table 2 also shows, this support was significant for many of the institutions listed.

Climate change-related projects accounted for over 25% of the 3-year total reported grants and contributions received by 10 of the 17 institutions for which data was available. For 6 organizations, climate change grants accounted for 50% or more of their reported grants and contributions received.

These lists are indicative of the minimum amount expended in this area, but they are not definitive. The nature of the initial constraints on the quality of the data used for this analysis precludes definitive statements about maximum dollar values for climate change related activities, as many foundations do not identify the specific activities for which their contributions are granted. These general operating or support grants can be used for any purpose by the recipient; some of those uses may be in the area of climate change, but the specific proportions are not known.

Total grant income is gleaned from Section 1D of 990 tax form, which is entitled "Total contribution, gifts, grants and similar amounts received." It should be noted that 990 financial forms are filled out at the discretion of the institution for either the fiscal year or calendar year. Similarly, grants received may be allocated to the fiscal year or calendar year. Furthermore, when reporting total grant income for the latest year (2002), institutions occasionally take a combination of both fiscal and calendar year into account, reporting September to December of that year, leading to grossly deflated financial records for that year. As information for 2003 is not yet available, the latter numbers are correspondingly incomplete. As a result of these discrepancies, some overlaps and gaps in financial information occur resulting in inflated percentages of over 100% when viewing climate related grants with respect to total grant income. While this may result in unusual year-by-year fluctuations depending on when contributions are recorded, viewing the trends from a multi-year frame of reference offers a more accurate account.

The appendices provide more detailed

information on the year-by-year distribution of funds by both the grant makers and recipients.

Federal Support for Climate Change Research and Related Activities

The federal government supports billions of dollars in research and development each year. Those expenditures on R&D support a substantial set of government and non-governmental institutions, ranging from federal grant-making agencies such as the National Science Foundation to research universities all around the country and the thousands of individual researchers who apply for and receive government funding each year. Bureaucratic organizations charged with distributing public resources exert power and influence over their environment as they have considerable autonomy within the policy making process, are supported by strong clientele groups, and are very internally cohesive.⁹ As bureaucratic institutions mature, they develop structures, processes, and procedures designed to preserve the integrity of the organization, socialize its workforce to support the mores of the institution, and build alliances and relationships with external interests and political overseers to assist its growth and expansion.¹⁰

The public good nature of R&D, which encouraged government leadership, enabled the rapid expansion of these research-supporting departments and agencies and, with it, the increased dependence of individual researchers, universities, and industry on publicly-financed R&D.¹¹ An examination of recent trends in federal support for climate change research reveals a similar pattern of relationships between the federal government and researchers.

Of the total federal expenditure on R&D, research in the environmental sciences comprises about 10% of the total.¹² Climate change research does not constitute all of the activities in this field, but large portions of the effort reflected by trends in this budget line are

illustrative of increased attention to climate change.¹⁵ It is certainly true that climate change-related research can be found in other academic disciplines as well, but those fields have broad scope, making it difficult to ascertain what factors may be driving trends within them at this level of aggregation. As such, this paper focuses on the environmental sciences academic discipline.

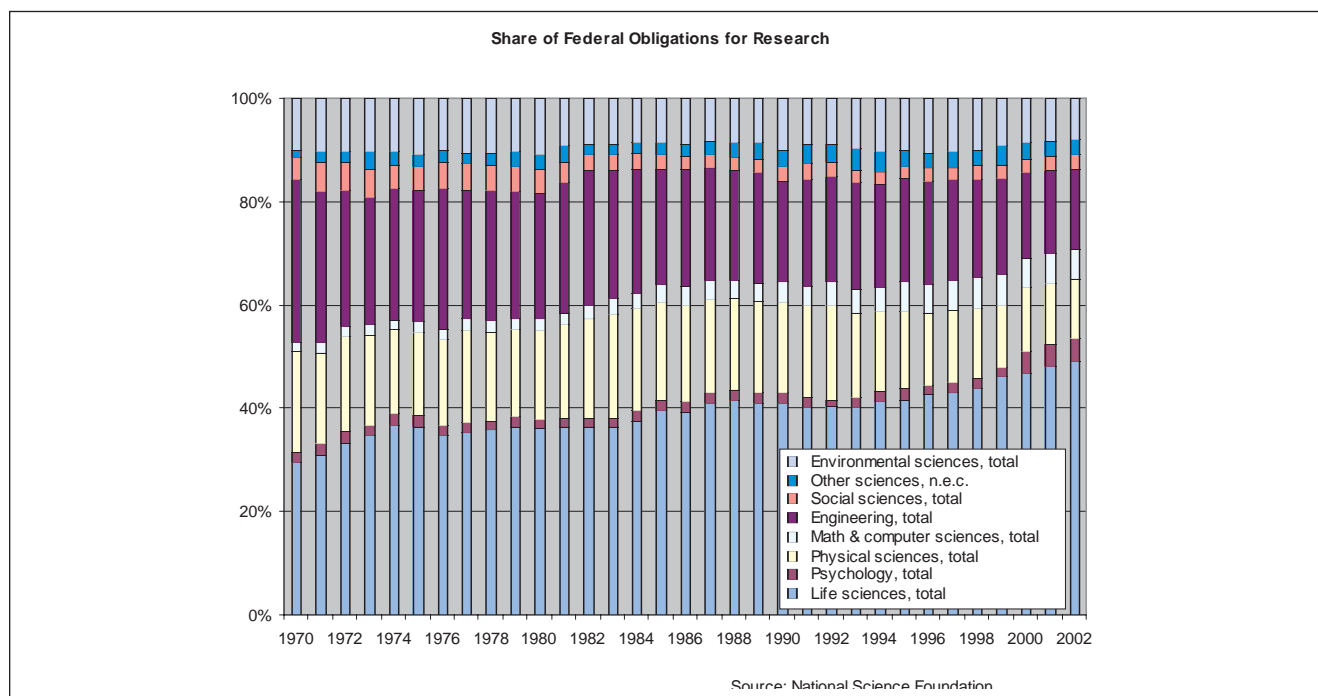
Figure 2 illustrates the distribution of federal funds for R&D by detailed scientific fields for the past 30 years. The figure reveals several significant trends. Most notable among these is well-documented rise of the life sciences relative to other academic disciplines. Federal funding for the life sciences increased steadily, both in absolute terms as well as in its share vis-à-vis other disciplines. The steady decline in share of federal funding for engineering and the physical sciences is also apparent. The share of federal funding held by the environmental sciences field remains steady over the 30-year course, holding approximately a 10% share for the entire period.

While its share remained stable, on the

aggregate, federal support for R&D in the environmental sciences field tripled in the past 20 years, rising from \$1.2 billion in 1980 to \$3.6 billion in 2002, according to data available from the National Science Foundation (NSF). Support for research in the atmospheric sciences drove this trend, as shown by Figure 3, which shows the sub-fields comprising environmental science in NSF data. In 1980, federal support for the atmospheric sciences totaled \$409 million. By 1992, it had increased to \$767 million. From that point forward, the rate of growth accelerated well past the average for all federal R&D. In three years, federal support grew to \$1.1 billion, where it has remained essentially level.

Other elements of the environmental science field also show strong signs of growth over the past decade. Research supported in each of these elements make important contributions to the study of climate change. The n.e.c. category (not elsewhere classified) jumped 300% between 1990-2000. The NSF defines this generically as used for multidisciplinary projects within a broad field or for single

Figure 2



discipline projects for which a separate field was not assigned. Oceanography increased 29% over the same period. The geological sciences actually declined 3% over the 1990-2000 period, but did experience substantial growth in the early part of the decade before a dramatic falling off in the later half.

It is well established that federal funding for research and development ebbs and flows with changing priorities. The focus on space issues in the 1960s, the rise of energy-related efforts in the 1970s, the expansion of defense spending in the 1980s, and the current explosion of the life sciences are examples of such reordering of priorities.¹⁴ The ability of the environmental sciences to maintain a stable share of the distribution of federal funds for R&D and a growing year-to-year budget is notable. While the alarm associated with these other priorities has ebbed over time, the persistence of “environmental apocalypticism” from the 1970s onward is consistent and correlates to the rise in federal R&D budgets.¹⁵

While an analysis of federal budget trends by scientific discipline is illustrative, a more detailed picture of federal activities in the

climate change area is available. According to recent estimates, federal government support for climate change science activities approached \$2 billion in FY 2004 (see Figure 4). The bulk of this support resides in the National Aeronautics and Space Administration (NASA) and is used to support satellites for Earth observation. The National Science Foundation, the Department of Energy (DOE), and the Department of Commerce (DOC) also rank high annually.

The preceding offers insight into which government agencies and departments have significant interests in the climate change area from a purely budgetary perspective. In an effort to understand the network of relationships that exist between these government entities and research universities, the two-year period FY 2001-2002 is examined to discern which organizations and universities received support from federal departments and agencies. This review queries the most comprehensive database of federal grants for research and development available to generate an overview of projects in climate change. The end result is a detailed list of institutions supported by

Figure 3

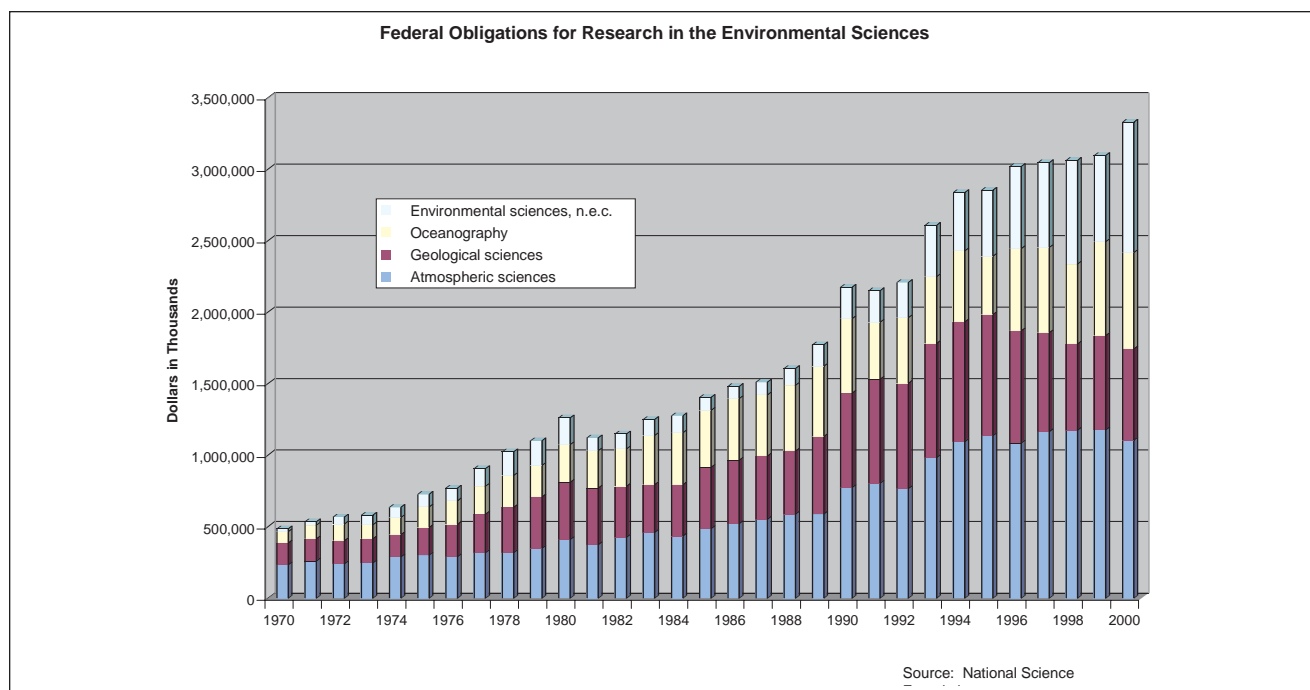


Figure 4

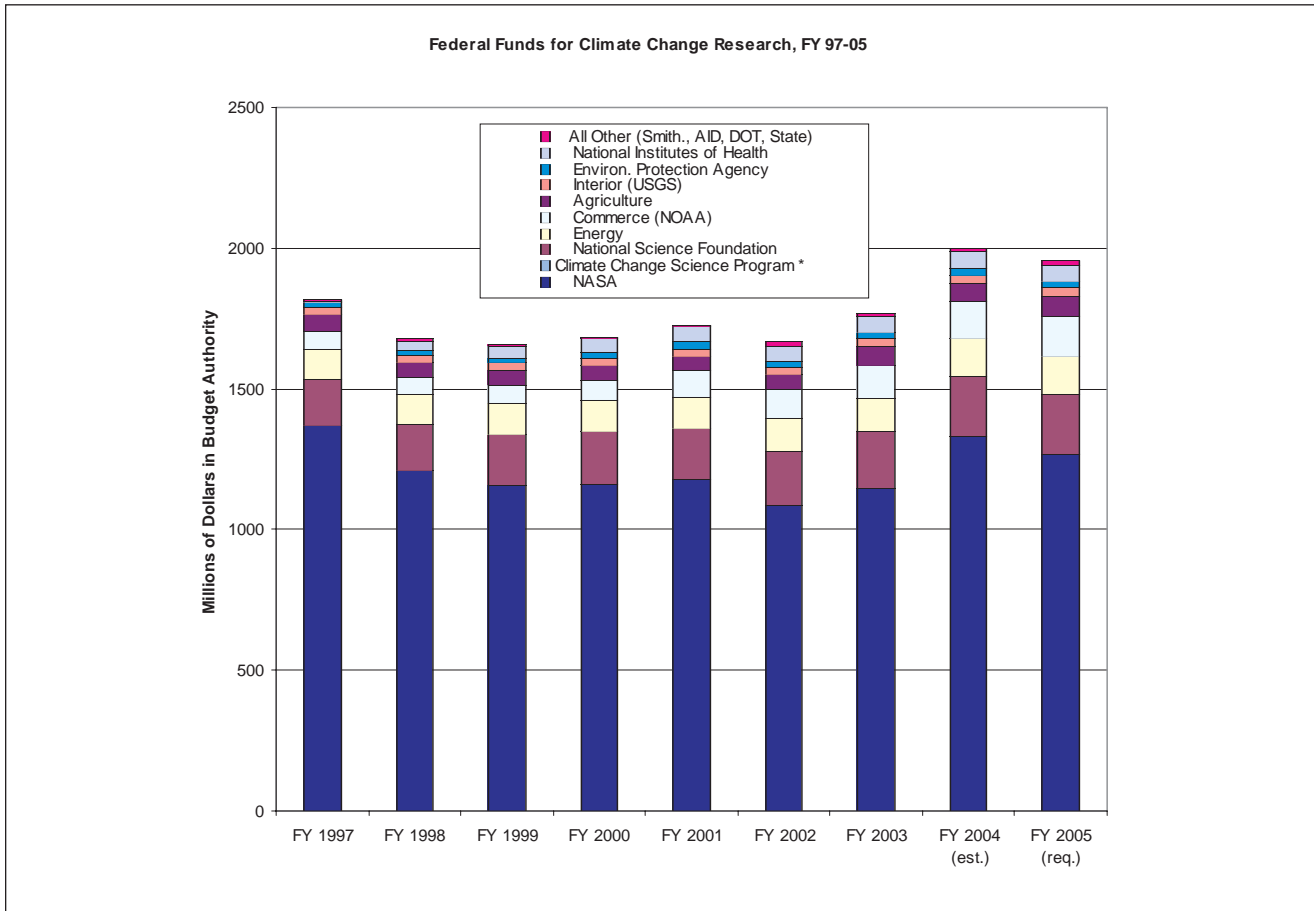


Table 3

U.S. Climate Change Research Program Budget Trends, FY 97-05
(budget authority in millions)

	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004 (est.)	FY 2005 (req.)	Change FY 04-05	
										Amount	Percent
National Science Foundation	\$166	\$167	\$182	\$187	\$181	\$189	\$202	\$213	\$210	-3	-1.40%
Energy	\$109	\$106	\$114	\$113	\$116	\$117	\$120	\$133	\$134	1	0.80%
Commerce (NOAA)	\$62	\$60	\$63	\$67	\$93	\$100	\$117	\$130	\$142	12	9.20%
Agriculture	\$57	\$53	\$52	\$56	\$51	\$55	\$68	\$67	\$74	7	10.40%
Interior (USGS)	\$29	\$26	\$27	\$27	\$27	\$26	\$26	\$28	\$29	1	3.60%
Environ. Protection Agency	\$14	\$13	\$17	\$21	\$23	\$21	\$19	\$22	\$21	-1	-4.50%
National Institutes of Health	\$4	\$35	\$40	\$48	\$54	\$56	\$59	\$61	\$61	0	0.00%
NASA	\$1,369	\$1,210	\$1,155	\$1,161	\$1,176	\$1,090	\$1,146	\$1,334	\$1,271	-63	-4.70%
All Other (Smith., AID, DOT, State)	\$7	\$7	\$7	\$7	\$7	\$12	\$12	\$13	\$16	3	23.10%
Total	\$1,817	\$1,677	\$1,657	\$1,687	\$1,728	\$1,666	\$1,769	\$2,001	\$1,958	-43	-2.10%

Source: AAAS and USGCRP annual reports

federal research dollars.

Table 4 presents the summary results for FY 2001-2002. The table reflects a count of the number of grants supported by each agency within the climate change research field.¹⁶

As expected, the National Science Foundation dominates this list. That agency provides individual and institutional financial support to academic researchers and virtually all of its entire budget is expended on these extramural (or external) support activities. Typically, these grants have a smaller dollar value than those found in other agencies. The other agencies and departments retain significant amounts for research conducted at their own facilities, which is known as intramural research. Intramural work is not recorded as a grant and would not appear in this analysis.

Table 5 reveals the top individual recipients in terms of number of grants received from the federal government in 2001 and 2002. The 30

Department/Agency	FY 2002	FY 2001
Dept of Agriculture	217	219
Dept of Commerce	79	63
Dept of Energy	178	188
Dept of Health and Human Services	2	6
Dept of Interior	16	14
Environmental Protection Agency	39	28
National Aeronautics and Space Administration	65	50
National Science Foundation	1,441	1,324
Total	2,037	1,892

Source: Marshall Institute analysis using the RADIUS database

institutions listed account for 923 separate grants in 2002, which is almost half of the total 2,037 grants reported for FY 2002. They accounted for 811 of the 1,892 in FY 2001.

As expected, many of the same institutions appear on the lists for both years. The University of Colorado system leads in both years analyzed. The University of Washington, Woods Hole Oceanographic Institute at MIT,

Table 5 – Top Recipients of Federal Support for Climate Change Research, FY 2001 and 2002

Rank	Recipient	2001	Rank	Recipient	2002
1	University of Colorado Boulder	65	1	University of Colorado Boulder	76
2	Columbia University	54	2	University of Washington	64
3	University of Washington	50	3	MIT Woods Hole Oceanographic Inst	57
4	MIT Woods Hole Oceanographic Inst	45	4	Columbia University	51
5	Oak Ridge National Laboratory	39	5	University of Wisconsin Madison	42
6	University of Wisconsin Madison	38	6	University of Arizona	40
7	University of California - San Diego	37	7	University of California - San Diego	40
8	Pennsylvania State University	32	8	Pennsylvania State University	35
9	University of Alaska Fairbanks	31	9	University of Alaska Fairbanks	33
10	Oregon State University	28	10	University of California - Berkeley	32
11	University of California - Berkeley	27	11	Oregon State University	31
12	University of California - Davis	27	12	Oak Ridge National Laboratory	28
13	Colorado State University	22	13	Mass Inst of Technology	27
14	Texas A&M University	22	14	University of California - Davis	26
15	University of Arizona	22	15	Texas A&M University	25
16	University of Minnesota-Twin Cities	22	16	Colorado State University	24
17	Harvard University	21	17	Harvard University	24
18	Mass Inst of Technology	21	18	University of Illinois Urbana-Champaign	24
19	Ohio State University	21	19	University of Minnesota-Twin Cities	24
20	University of Illinois Urbana-Champaign	21	20	University of Nebraska-Lincoln	24
21	Duke University	19	21	Ohio State University	22
22	Michigan State University	19	22	University of Maine Orono	19
23	University of Maryland-College Park	18	23	University of Maryland-College Park	19
24	University of New Hampshire Durham	18	24	Cornell University	18
25	University of Maine Orono	17	25	Duke University	18
26	University of California - Santa Barbara	16	26	Michigan State University	18
27	Cornell University	15	27	University of Nevada Reno	18
28	Rutgers The State Univ of NJ - New Brunswick	15	28	UCAR	16
29	Stanford University	15	29	University of California - Irvine	16
30	Arizona State University	14	30	University of Miami	16

Source: Marshall Institute analysis using RADIUS database (RAND Corp.)

and Columbia University also rank quite high on both lists. Like all research universities, the institutions on this list have considerable interest in preserving and expanding their relationships with federal R&D grantmakers to support the infrastructure of facilities, laboratories, support staff, graduate students, faculty, and overhead that are charged against federal grants.

Table 6 offers a complementary picture by returning to trends in academic R&D expenditures in the atmospheric sciences subfield.¹⁷ As was mentioned at the beginning of this section, of all the academic disciplines on which the NSF collects aggregate data, atmospheric science is believed to have the most direct and extensive overlap with research on climate change.

Many of the same institutions that rank high on Table 5 also rank highly on Table 6's

distribution of federal support for atmospheric R&D. Table 6 shows a 5-year trend in total expenditures in this field by academic institutions along with an indicator of the importance of the federal government to financing research in this area. A table in the appendices offers the year-by-year breakdown.

Table 6 reveals an alarming degree of dependency on federal support. In 28 of the top-30 R&D performing institutions, federal financing accounts for more than 50% of the expenditures on atmospheric R&D. Nearly one-half of the top-30 institutions depended on federal support for more than 80% of their resources in this 5-year period. By comparison, the federal government provided 59% of total R&D funding at academic institutions in 2001.¹⁸

Clearly, academic institutions depend heavily on the federal government to finance their research activities in the atmospheric

Table 6

5-Year Trends in Total Academic R&D Expenditures for Atmospheric Sciences by Institution (dollars in thousands)								Percent of 5-Year Total
Institution	1998	1999	2000	2001	2002	5-yr Total		
1 University of Colorado, All Campuses	\$40,168	\$37,859	\$29,125	\$15,537	\$17,644	\$140,333	88.6%	
2 University of Oklahoma, All Campuses	\$16,252	\$19,028	\$19,608	\$21,790	\$25,804	\$102,482	54.5%	
3 University of Miami	\$18,658	\$16,480	\$17,357	\$18,904	\$18,906	\$90,305	88.7%	
4 University of Wisconsin-Madison	\$14,627	\$14,491	\$15,181	\$16,355	\$20,286	\$80,940	86.8%	
5 University of Washington - Seattle	\$12,676	\$13,069	\$14,411	\$16,955	\$16,176	\$73,287	92.2%	
6 Colorado State University	\$13,466	\$12,350	\$12,981	\$14,277	\$18,742	\$71,816	80.6%	
7 University of California-San Diego	\$5,992	\$11,964	\$19,052	\$14,272	\$9,014	\$60,294	82.2%	
8 Desert Research Institute	\$3,400	\$11,105	\$12,365	\$14,497	\$14,339	\$55,706	66.2%	
9 University of AK Fairbanks, All Campuses	\$1,171	\$0	\$0	\$12,097	\$37,545	\$50,813	71.9%	
10 University of Central Florida	\$8,353	\$9,068	\$8,250	\$9,416	\$9,238	\$44,325	28.0%	
11 Johns Hopkins University	\$10,749	\$10,314	\$7,461	\$7,640	\$6,931	\$43,095	100.0%	
12 University of New Hampshire	\$9,010	\$7,303	\$8,263	\$10,036	\$7,340	\$41,952	50.0%	
13 University of Maryland Baltimore County	\$0	\$5,442	\$5,373	\$10,412	\$14,734	\$35,961	89.0%	
14 Massachusetts Institute of Technology	\$318	\$8,289	\$8,310	\$9,075	\$9,043	\$35,035	91.2%	
15 Pennsylvania State U, All Campuses	\$5,959	\$6,209	\$4,958	\$7,599	\$8,587	\$33,312	58.0%	
16 SUNY at Albany	\$6,152	\$6,443	\$6,231	\$7,226	\$5,693	\$31,745	47.7%	
17 Florida State University	\$5,592	\$5,520	\$5,241	\$6,693	\$6,669	\$29,715	77.2%	
18 University of Alabama in Huntsville	\$5,177	\$5,287	\$5,241	\$5,772	\$7,003	\$28,480	78.8%	
19 University of Maryland at College Park	\$6,970	\$5,804	\$5,196	\$5,117	\$5,185	\$28,272	77.2%	
20 Naval Postgraduate School	\$4,850	\$4,850	\$5,322	\$5,804	\$6,507	\$27,333	98.7%	
21 University of Virginia, All Campuses	\$4,771	\$5,590	\$5,585	\$5,189	\$4,441	\$25,576	86.8%	
22 Woods Hole Oceanographic Institution	\$4,488	\$4,230	\$4,711	\$5,207	\$5,657	\$24,293	79.6%	
23 University of California-Los Angeles	\$3,929	\$4,484	\$4,920	\$4,463	\$4,245	\$22,041	83.7%	
24 Texas A&M University, All Campuses	\$2,702	\$3,712	\$4,210	\$4,103	\$4,199	\$18,926	65.3%	
25 University of Arizona	\$4,146	\$4,308	\$3,203	\$3,704	\$3,494	\$18,855	60.1%	
26 Columbia University in the City of New York	\$0	\$3,889	\$4,692	\$4,698	\$5,443	\$18,722	94.0%	
27 Utah State University	\$5,889	\$5,812	\$2,061	\$1,865	\$1,909	\$17,536	86.4%	
28 North Carolina State University at Raleigh	\$1,481	\$8,778	\$7,076	\$0	\$0	\$17,335	56.2%	
29 University of Wyoming	\$3,133	\$2,407	\$3,962	\$2,519	\$2,519	\$14,540	71.9%	
30 South Dakota School of Mines & Technology	\$2,586	\$2,298	\$2,857	\$3,182	\$3,386	\$14,309	64.3%	

Source: National Science Foundation Webcaspar database

sciences specifically and in the study of climate change more generally. This dependency is indicative of the relationship between governmental bureaucracies designed to distribute public resources and the private sector entities who receive that support. Both have strong incentives to maintain and expand the relationship as it reinforces their mutual interests and, studies of bureaucratic politics suggest that both can be expected to act in ways that facilitate that result.

Conclusion

This data analysis reveals two points of interest as the public considers policy responses to climate change. First, conservatively estimated, private foundations spend \$35-50 million on climate change and related projects at public policy institutes and universities each year. While that amount is trivial in relation to the overall expenditures by foundations every year, funds supporting climate change activities are quite important to the bottom lines of these institutes, universities, and other organizations.

Second, the federal role is even more striking. Even with the crude indicators available, the federal government spends in the range of \$1.5-2.0 billion annually on climate change activities, with the preponderance of that support directed to universities. While \$2 billion is a low percentage of total federal spending on science and technology, government resources make up an alarmingly high percentage of the resources some universities, and individual researchers, devote to research in atmospheric sciences and related fields.

Private sector funding of science is said to be susceptible to producing biased results. Public and foundation support for science may result in similar behavior. The strong financial ties between a limited group of public and private funders and public policy organizations and research universities documented here provide a first step toward evaluating these claims. Additional work is needed to explore the individual relationships between individual funders and particular recipients, but this paper

offers the overview of the depth and breadth of foundation and government support for climate change research needed to guide this further exploration.

Appendices

1. Foundations Supporting Climate Change Projects

2. Recipients of Funds for Climate Change Projects from Foundations

3. Financing for Atmospheric Science R&D by Institution, FY 1998-2002

Notes

1. For example, see Cohen, Linda and Roger Noll. (1991). *The Technology Pork Barrel*. (Brookings: Washington, D.C.); Greenberg, Daniel. (2001). *Science, Money, and Politics*. (University of Chicago Press: Chicago); and Savage, James. (1999). *Funding Science in America*. (Cambridge University Press: Cambridge, U.K.).
2. In the climate change area, Ross Gelbspan's recent work offers a particularly good illustration of this kind of argument. Gelbspan, Ross. (2004). *Boiling Point*. (Basic Books: New York): 37-61.
3. Gough, Michael, ed. (2003). *Politicizing Science: The Alchemy of Policymaking*. (Hoover Institution Press: Stanford, CA): 2-5; Milloy, Steven and Michael Gough. (1998). *Silencing Science*. (CATO Institute Press: Washington, D.C.); and Morano, Marc. (2004). "Meteorologist Likens Fear of Global Warming to 'Religious Belief.'" *CNSNews.com* (December 2).
4. Crichton, Michael. (2004). *State of Fear*. (Harper Collins Publishers: New York): 572-573.
5. The data for this section was drawn from (1) searches of the Foundation Center central database; (2) supplementary searches in the GuideStar database; and (3) manual inspection of IRS Form 990 for selected foundations. Data was only collected for those projects (or grant descriptions) that specifically delineated a reference to climate change or a related activity. "General operating support" grants to multi-issue organizations were not included in this analysis as we could not reliably assume that all those resources would go solely to support activities in the climate change issue area. In instances where the receiving organization was known to focus solely on climate change activities, those grants were included. This

methodological constraint is critical to interpreting the end result of this survey as it results in an under-count of the resources from foundations in this area.

6. Table 1 is derived from searches in the GuideStar and Foundation Center on-line databases for climate change related information; Information on total budget is gleaned from Line 25 of Part 1 in the IRS 990 Form (Contributions, Gifts, Grants Paid) for each institution.
7. Another caveat of note, in several cases, foundations granted or institutions received multi-year grants for which the distribution of funds was unknown. In those cases, the total grant was recorded for the year it was announced, which produces some distortion on a year-by-year basis. That distortion is reduced when a multi-year view is taken.
8. Table 2 is derived from searches in the GuideStar and Foundation Center on-line databases for climate change related information. Other information on the table is a reflection of grants and contributions received in the specific year. These grants are made in the form of direct public support, indirect public support and government grants (Part 1, Line 1D of IRS 990 Form). Those percentages above 100% are a result of the use of program service revenue, including government fees and contracts, membership dues, interest and dividends from securities, sales, etc. in the institution's reporting of its financial position. Table 2 excludes academic institutions.
9. Meier, Kenneth. (1987). *Politics and Bureaucracy: Policymaking in the Fourth Branch of Government*. (Wadsworth: Belmont, CA): 101-110.
10. Meier (1987): 57-77.
11. Meier (1987): 102-103.
12. Because of its interdisciplinary nature, financial support for climate change related activities may also be found in other disciplines (i.e., physics). Data available from the National Science Foundation do not disaggregate at sufficient detail to make such determinations.
13. The National Science Foundation defines "Environmental sciences (terrestrial and extraterrestrial) are, with the exception of oceanography, concerned with the gross non-biological properties of the areas of the solar system that directly or indirectly affect human

survival and welfare. Obligations for studies pertaining to life in the sea or other bodies of water are reported as support of oceanography and not biology. Environmental sciences comprise the fields of atmospheric sciences, geological sciences, oceanography, and environmental sciences n.e.c. Examples of disciplines under each of these fields are as follows: Atmospheric sciences: aeronomy, extraterrestrial atmospheres, meteorology, solar science, weather modification; Geological sciences: engineering geophysics, general geology, geodesy and gravity, geomagnetism, hydrology, inorganic geochemistry, isotopic geochemistry, laboratory geophysics, organic geochemistry, paleomagnetism, paleontology, physical geography and cartography, seismology; Oceanography: biological oceanography, chemical oceanography, marine geophysics, physical oceanography; Environmental sciences, n.e.c. See *Federal Funds for Research and Development* (<http://www.nsf.gov/sbe/srs/nsf04310/secta.htm>).

14. Teich, Albert. (2001). "R&D in the Federal Budget: Frequently Asked Questions." In *Research and Development FY 2002*. (AAAS: Washington, D.C.): 8-10.
15. A particularly thoughtful recent review of environmental apocalypticism literature can be found at Steven Hayward (2004). "That Old Time Religion: A Review of Recent Environmental Books." *AEI Environmental Policy Outlook*, November-December.
16. The survey used a series of keywords descriptive of climate change activities to search the RADIUS database maintained by the RAND Corp. The output was manually inspected for consistency with the topical focus of the report given the multi-use nature of some keywords (i.e., CO₂) in the scientific world. Keywords used for this analysis include: climate change, CO₂, greenhouse gas, global warming, greenhouse effect, climate model, earth observation, atmospheric composition, climate assessment, atmospheric concentration, earth system science, climate variability, climate system, climate history and carbon cycle.
17. The budget fields in the RADIUS database are insufficient to make reliable determinations of expenditure when the unit of analysis is individual grants as is the case here.
18. National Science Board (2004). *Science and Engineering Indicators-2004*. (National Science Foundation: Washington, D.C.): 5-5.

Appendix Table 1: Foundations Supporting Climate Change Projects

Foundations Supporting Climate Change & Related Projects	Total Climate Related Activities				Total Grants Disbursed				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
1 Energy Foundation	\$15,807,816	\$15,969,784	\$12,057,741	\$43,835,341	\$14,885,496	\$19,385,272	\$20,373,482	\$54,644,250	106.20%	82.38%	59.18%	80.22%
2 Pew Charitable Trusts	\$4,304,000	\$2,556,000	\$6,032,500	\$12,892,500	\$18,684,000	\$13,086,900	\$12,380,500	\$44,151,400	23.04%	19.53%	48.73%	29.20%
3 William and Flora Hewlett Foundation	\$40,000	\$2,955,000	\$7,080,000	\$10,075,000	\$135,748,270	\$119,955,933	\$195,221,736	\$450,925,939	0.03%	2.46%	3.63%	2.23%
4 Turner Foundation, Inc.	\$3,330,333	\$3,119,667	\$1,110,000	\$7,560,000	\$44,441,523	\$68,089,432	\$28,349,381	\$140,880,336	7.49%	4.58%	3.92%	5.37%
5 Rockefeller Brothers Fund, Inc.	\$2,178,000	\$2,041,674	\$812,000	\$5,031,674	\$32,139,090	\$25,657,906	\$22,950,390	\$80,747,386	6.78%	7.96%	3.54%	6.23%
6 David and Lucile Packard Foundation	\$250,000	\$2,955,207	\$1,325,000	\$4,530,207	\$533,589,987	\$428,897,276	\$350,048,020	\$1,312,535,283	0.05%	0.69%	0.38%	0.35%
7 Starr Foundation	\$2,000,000	\$1,000,000	\$1,000,000	\$4,000,000	\$192,502,039	\$219,755,392	\$209,301,410	\$621,558,841	1.04%	0.46%	0.48%	0.64%
8 Joyce Foundation	\$1,172,600	\$1,255,100	\$1,377,500	\$3,805,200	\$39,596,622	\$42,676,236	\$36,284,511	\$118,557,369	2.96%	2.94%	3.80%	3.21%
9 G. Unger Vetlesen Foundation	\$1,850,000	\$1,600,000	n/a	\$3,450,000	\$4,724,763	\$4,730,000	\$4,768,000	\$14,222,763	39.16%	33.83%	n/a	24.26%
10 Beldon Fund	\$600,000	\$1,980,000	n/a	\$2,580,000	\$9,236,000	\$11,574,645	\$11,654,019	\$32,464,664	6.50%	17.11%	n/a	7.95%
11 John Merck Fund	\$667,000	\$1,342,500	n/a	\$2,009,500	\$11,859,327	\$12,721,977	\$9,929,592	\$34,510,896	5.62%	10.55%	n/a	5.82%
12 ExxonMobil Foundation	\$585,000	\$944,750	\$412,000	\$1,941,750	\$42,188,567	\$39,667,911	\$47,304,345	\$129,160,823	1.39%	2.38%	0.87%	1.50%
13 Surdna Foundation, Inc.	\$495,000	\$740,000	\$695,000	\$1,930,000	\$29,164,571	\$39,531,216	\$33,091,855	\$101,787,642	1.70%	1.87%	2.10%	1.90%
14 New York Community Trust	\$410,000	\$650,000	\$790,000	\$1,850,000	\$142,578,966	\$125,210,088	\$122,983,930	\$390,772,984	0.29%	0.52%	0.64%	0.47%
15 John D. and Catherine T. MacArthur Foundation	n/a	\$1,425,000	\$150,000	\$1,575,000	\$164,022,738	\$167,945,326	\$195,573,328	\$527,541,392	n/a	0.85%	0.08%	0.30%
16 Wallace Global Fund	n/a	\$522,250	\$700,000	\$1,222,250	\$6,113,512	\$5,266,029	\$4,395,218	\$15,774,759	n/a	9.92%	15.93%	7.75%
17 Blue Moon	\$1,070,000	\$78,000	n/a	\$1,148,000	\$29,140,203	\$26,141,156	\$16,112,550	\$71,393,909	3.67%	0.30%	n/a	1.61%
18 Henry Luce Foundation, Inc.	n/a	\$1,100,000	n/a	\$1,100,000	\$48,786,289	\$43,514,883	\$33,328,893	\$125,630,065	n/a	2.53%	n/a	0.88%
19 W. M. Keck Foundation	\$1,000,000	n/a	n/a	\$1,000,000	\$81,745,562	\$58,114,418	\$49,513,360	\$189,373,340	1.22%	n/a	n/a	0.53%
20 Educational Foundation of America	\$913,349	\$75,000	n/a	\$988,349	\$13,503,569	\$11,987,616	\$11,418,307	\$36,909,492	6.76%	0.63%	n/a	2.68%
21 Public Welfare Foundation, Inc.	\$125,000	\$100,000	\$750,000	\$975,000	\$18,102,277	\$18,983,452	\$19,369,950	\$56,455,679	0.69%	0.53%	3.87%	1.73%
22 Bullitt Foundation	n/a	\$885,000	n/a	\$885,000	\$5,400,605	\$5,050,645	\$6,802,772	\$17,254,022	n/a	17.52%	n/a	5.13%
23 Richard & Rhoda Goldman Fund	\$620,000	\$150,000	n/a	\$770,000	\$19,390,000	\$29,949,270	\$31,859,552	\$81,198,822	3.20%	0.50%	n/a	0.95%
24 V. Kann Rasmussen Foundation	\$325,000	\$25,000	n/a	\$625,000	unk.	\$6,000,405	\$8,943,096	\$14,943,501	n/a	0.42%	n/a	4.18%
25 Oak Foundation	n/a	\$25,000	\$562,500	\$587,500	\$6,206,624	\$7,616,753	\$12,504,571	\$26,327,948	n/a	0.33%	4.50%	2.23%
26 Nathan Cummings Foundation	\$50,000	\$441,000	\$90,000	\$581,000	\$18,913,170	\$18,947,475	\$19,759,728	\$57,620,373	0.26%	2.33%	0.46%	1.01%
27 Global Environment Project Institute Inc	\$198,000	\$225,000	\$140,000	\$563,000	\$874,437	\$604,200	\$684,200	\$2,162,837	22.64%	37.24%	20.46%	26.03%
28 Charles Stewart Mott Foundation	\$38,400	\$450,000	\$45,000	\$533,400	\$139,480,791	\$110,829,012	\$108,659,450	\$358,969,253	0.03%	0.41%	0.04%	0.15%
29 Henry P. Kendall Foundation	\$526,000	n/a	n/a	\$526,000	\$3,492,293	\$3,322,395	\$2,461,321	\$9,276,009	15.06%	n/a	n/a	5.67%
30 J. M. Kaplan Fund, Inc.	n/a	\$335,000	\$190,000	\$525,000	\$6,606,219	\$8,854,895	\$8,766,428	\$24,227,542	n/a	3.78%	2.17%	2.17%
31 Ford Foundation	\$66,000	\$130,000	\$300,000	\$496,000	\$653,854,801	\$829,190,310	\$509,700,353	\$1,992,745,464	0.01%	0.02%	0.06%	0.02%
32 James S. McDonnell Foundation	\$190,768	\$198,260	\$29,828	\$418,856	\$18,199,661	\$13,568,235	\$12,632,543	\$44,400,439	1.05%	1.46%	0.24%	0.94%
33 Carnegie Corporation of New York	\$400,000	n/a	n/a	\$400,000	\$60,803,959	\$56,363,235	\$76,301,020	\$193,468,214	0.66%	n/a	n/a	0.21%
34 Compton Foundation, Inc.	\$246,840	\$120,000	n/a	\$366,840	\$8,396,884	\$10,902,064	\$9,433,991	\$28,732,939	2.94%	1.10%	n/a	1.28%
35 Ford Motor Company Fund	\$176,900	\$176,900	n/a	\$353,800	\$169,100,475	\$56,971,262	\$29,112,341	\$255,184,078	0.10%	0.31%	n/a	0.14%
36 Abell Foundation, Inc.	n/a	\$300,000	n/a	\$300,000	\$12,283,751	\$10,907,163	\$9,776,846	\$32,967,760	n/a	2.75%	n/a	0.91%
37 Scherman Foundation, Inc.	\$85,000	\$145,000	\$35,000	\$265,000	\$6,838,980	\$6,110,200	\$5,224,700	\$18,173,880	1.24%	2.37%	0.67%	1.46%
38 Richard Lounsberry Foundation	\$141,000	\$58,000	\$60,000	\$259,000	\$4,006,160	\$2,907,124	\$2,919,176	\$9,832,460	3.52%	2.00%	2.06%	2.63%
39 General Motors Foundation, Inc.	\$256,350	n/a	n/a	\$256,350	\$43,280,242	\$36,485,097	\$48,508,255	\$128,273,594	0.59%	n/a	n/a	0.20%

		Total Climate Related Activities				Total Grants Disbursed				Percentage of Funds in Climate-Related Activities			
		2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
Foundations Supporting Climate Change & Related Projects													
40	Howard Heinz Endowment	\$150,000	\$100,000	n/a	\$250,000	\$45,810,679	\$41,130,518	\$43,740,619	\$130,681,816	0.33%	0.24%	n/a	0.19%
41	George B. Storer Foundation, Inc.		\$100,000	\$100,000	\$200,000	\$4,500,000	\$4,255,000	\$4,520,000	\$13,275,000	0.00%	2.35%	2.21%	1.51%
42	Houston Endowment Inc.	\$40,000	\$150,000	n/a	\$190,000	\$66,061,151	\$71,843,387	\$68,425,909	\$206,330,447	0.06%	0.21%	n/a	0.09%
43	Rockefeller Foundation	\$160,000	n/a	n/a	\$160,000	\$163,391,841	\$127,099,365	\$149,159,867	\$439,651,073	0.10%	n/a	n/a	0.04%
44	Danforth Foundation	n/a	\$150,000	n/a	\$150,000	unk.	\$30,100,547	\$41,903,138	\$72,003,685	n/a	0.50%	n/a	0.21%
45	Foundation for Deep Ecology	\$30,000	n/a	\$100,000	\$130,000	\$10,840,526	\$103,567,575	\$2,702,011	\$117,110,112	0.28%	n/a	3.70%	0.11%
46	Communities Foundation of Texas, Inc.	\$50,000	n/a	\$50,000	\$100,000	\$42,798,517	\$40,340,261	\$58,679,553	\$141,818,331	0.12%	n/a	0.09%	0.07%
47	Edward John Noble Foundation, Inc.	n/a	\$100,000	n/a	\$100,000	\$8,560,892	\$6,638,855	\$6,591,253	\$21,791,000	n/a	1.51%	n/a	0.46%
48	Moriah Fund	n/a	\$100,000	n/a	\$100,000	\$9,255,500	\$32,686,944	\$9,757,500	\$51,699,944	n/a	0.31%	n/a	0.19%
49	Tinker Foundation Inc.	\$100,000	n/a	n/a	\$100,000	\$3,276,425	\$3,430,445	\$2,741,690	\$9,448,560	3.05%	n/a	n/a	1.06%
50	Wallace Genetic Foundation, Inc.	n/a	\$100,000	n/a	\$100,000	\$4,118,125	\$4,006,982	\$4,060,073	\$12,185,180	n/a	2.50%	n/a	0.82%
51	Trust for Mutual Understanding	n/a	\$43,000	\$55,000	\$98,000	\$3,683,829	\$3,837,807	\$4,167,021	\$11,688,657	n/a	1.12%	1.32%	0.84%
52	Carolyn Foundation	\$50,000	\$45,000	n/a	\$95,000	\$2,917,050	\$2,326,684	\$784,890	\$6,028,624	1.71%	1.93%	n/a	1.58%
53	George Gund Foundation	\$30,000	\$30,000	\$25,000	\$85,000	\$19,982,481	\$20,245,592	\$19,707,784	\$59,935,857	0.15%	0.15%	0.13%	0.14%
54	Arca Foundation	\$40,000	n/a	\$40,000	\$80,000	\$2,892,140	\$3,060,917	\$2,861,430	\$8,814,487	1.38%	n/a	1.40%	0.91%
55	William Penn Foundation	\$77,000	n/a	n/a	\$77,000	\$62,241,261	\$64,653,552	\$62,676,176	\$189,570,989	0.12%	n/a	n/a	0.04%
56	Barr Foundation		\$75,000	n/a	\$75,000	\$44,902,736	\$41,789,040	\$41,167,200	\$127,858,976	0.00%	0.18%	n/a	0.06%
57	Jessie Smith Noyes Foundation, Inc.	\$25,000	\$50,000	n/a	\$75,000	\$4,702,044	\$4,389,689	\$3,966,268	\$13,058,001	0.53%	1.14%	n/a	0.57%
58	San Francisco Foundation	\$50,000	n/a	\$25,000	\$75,000	\$65,781,962	\$65,490,802	\$64,909,403	\$196,182,167	0.08%	n/a	0.04%	0.04%
59	Max Kade Foundation, Inc.	\$54,050	\$17,550	n/a	\$71,600	\$5,821,035	\$7,991,803	\$4,338,518	\$18,151,356	0.93%	0.22%	n/a	0.39%
60	Arthur M. Blank Family Foundation	\$30,000	n/a	\$30,000	\$60,000	\$14,594,572	\$29,105,253	\$30,284,194	\$73,984,019	0.21%	n/a	0.10%	0.08%
61	C.E. Bennett Foundation	\$10,000	n/a	\$50,000	\$60,000	\$268,300	\$379,555	\$384,600	\$1,032,455	3.73%	n/a	13.00%	5.81%
62	Prospect Hill Foundation, Inc.	n/a	\$30,000	\$30,000	\$60,000	\$4,111,863	\$4,193,283	\$3,753,203	\$12,058,349	n/a	0.72%	0.80%	0.50%
63	Roy A. Hunt Foundation	n/a	\$60,000	n/a	\$60,000	\$2,610,004	\$3,644,131	\$3,790,039	\$10,044,174	n/a	1.65%	n/a	0.60%
64	Batchelor Foundation	n/a	n/a	\$50,000	\$50,000	\$973,750	\$1,946,675	\$5,459,500	\$8,379,925	n/a	n/a	0.92%	0.60%
65	Bodman Foundation	\$50,000	n/a	n/a	\$50,000	\$3,916,200	\$3,505,000	\$2,779,525	\$10,200,725	1.28%	n/a	n/a	0.49%
66	Emily Hall Tremaine Foundation, Inc.	n/a	\$50,000	n/a	\$50,000	\$4,136,585	\$3,667,925	\$3,214,895	\$11,019,405	n/a	1.36%	n/a	0.45%
67	Helen Brach Foundation	n/a	n/a	\$50,000	\$50,000	\$4,889,541	\$4,861,250	\$5,461,620	\$15,212,411	n/a	0.00%	0.92%	0.33%
68	M. J. Murdock Charitable Trust	n/a	\$14,000	\$34,000	\$48,000	\$34,611,574	\$22,814,880	\$24,122,986	\$81,549,440	n/a	0.06%	0.14%	0.06%
69	Z. Smith Reynolds Foundation, Inc.	\$45,000	n/a	n/a	\$45,000	\$16,858,379	\$20,066,550	\$23,436,023	\$60,360,952	0.27%	n/a	n/a	0.07%
70	Reliant Resources Foundation	\$44,334	n/a	n/a	\$44,334	\$6,554,892	\$5,818,098	\$3,084,337	\$15,457,327	0.68%	n/a	n/a	0.29%
71	Rhode Island Foundation	n/a	\$33,000	n/a	\$33,000	\$22,329,586	\$19,486,289	\$24,499,692	\$66,315,567	n/a	0.17%	n/a	0.05%
72	HKH Foundation	\$30,000	n/a	n/a	\$30,000	\$3,270,503	\$1,991,032	\$2,002,811	\$7,264,346	0.92%	n/a	n/a	0.41%
73	Columbus Foundation and Affiliated Organizations	n/a	\$14,700	\$15,000	\$29,700	\$40,233,963	\$41,281,252	\$50,179,800	\$131,695,015	n/a	0.04%	0.03%	0.02%
74	Summit Charitable Foundation, Inc.	\$26,000	n/a	n/a	\$26,000	\$11,935,902	\$12,392,151	\$739,440	\$25,067,493	0.22%	n/a	n/a	0.10%
75	Denver Foundation	n/a	n/a	\$25,400	\$25,400	\$12,996,856	\$14,777,441	\$15,845,849	\$43,620,146	n/a	n/a	0.16%	0.06%
76	Citigroup Foundation	n/a	n/a	\$25,000	\$25,000	\$40,809,503	\$37,891,128	\$39,778,824	\$118,479,455	n/a	n/a	0.06%	0.02%
77	D&D Foundation	n/a	n/a	\$25,000	\$25,000	\$1,312,800	\$1,639,500	\$1,700,000	\$4,652,300	n/a	n/a	1.47%	0.54%
78	Homeland Foundation	\$25,000	n/a	n/a	\$25,000	\$5,581,520	\$12,871,620	\$14,839,320	\$33,292,460	0.45%	n/a	n/a	0.08%
79	Laurel Foundation	\$25,000	n/a	n/a	\$25,000	\$1,895,045	\$1,979,349	\$2,339,900	\$6,214,294	1.32%	n/a	n/a	0.40%
80	Libra Foundation	n/a	n/a	\$15,000	\$15,000	\$190,000	\$191,650	\$290,000	\$671,650	n/a	n/a	5.17%	2.23%

	Total Climate Related Activities				Total Grants Disbursed				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
Foundations Supporting Climate Change & Related Projects												
81 Martin Foundation, Inc.	\$15,000	n/a	n/a	\$15,000	\$2,620,555	\$2,758,420	\$3,524,400	\$8,903,375	0.57%	n/a	n/a	0.17%
82 PPG Industries Foundation	\$15,000	n/a	n/a	\$15,000	\$4,875,616	\$4,915,874	\$5,465,850	\$15,257,340	0.31%	n/a	n/a	0.10%
83 Minneapolis Foundation	n/a	n/a	\$10,000	\$10,000	\$27,864,491	\$27,018,504	\$30,895,485	\$85,778,480	n/a	n/a	0.03%	0.01%
Totals	\$41,289,740	\$47,336,342	\$36,498,469	\$125,124,551	\$3,630,862,617	\$3,675,555,379	\$3,233,135,716	\$10,539,553,712	1.14%	1.29%	1.13%	1.19%

Source: Searches in the GuideStar and Foundation Center on-line databases for climate change related information as well as IRS 990 Financial Forms

Appendix Table 2: Recipients of Funds from Foundations for Climate Activities

	Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities			
		2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
1	Strategies for the Global Environment	\$3,884,000	\$966,000	\$4,280,000	\$9,130,000	\$5,056,301	\$6,333,994	\$4,742,727	\$16,133,022	76.82%	15.25%	90.24%	57%
2	Energy Foundation	n/a	\$2,600,000	\$5,020,000	\$7,620,000	\$25,798,798	\$24,087,955	\$20,577,344	\$70,464,097	n/a	10.79%	24.40%	11%
3	Natural Resources Defense Council	\$2,113,333	\$2,141,667	\$2,445,000	\$6,700,000	\$34,615,331	\$52,546,395	\$46,824,796	\$133,986,522	6.11%	4.08%	5.22%	5%
4	Union of Concerned Scientists	\$1,027,000	\$2,848,400	\$2,479,000	\$6,354,400	\$7,555,968	\$8,562,846	\$8,037,929	\$24,156,743	13.59%	33.26%	30.84%	26%
5	Environmental Defense	\$2,355,000	\$2,544,674	\$1,165,000	\$6,064,674	\$36,648,944	\$40,396,718	\$40,834,473	\$117,880,135	6.43%	6.30%	2.85%	5%
6	Center for Energy Efficiency and Renewable Technologies	\$1,500,000	\$1,998,000	\$1,250,000	\$4,748,000	\$1,064,343	\$1,031,340	\$1,553,135	\$3,648,818	140.93%	193.73%	80.48%	130%
7	American Council for an Energy Efficient Economy	\$869,400	\$2,516,684	\$553,500	\$3,939,584	\$1,750,642	\$2,470,475	\$2,116,847	\$6,337,964	49.66%	101.87%	26.15%	62%
8	Environmental Law & Policy Center of the Midwest	\$1,175,000	\$750,000	\$675,000	\$2,600,000	\$2,163,424	\$2,081,597	\$2,693,451	\$6,938,472	54.31%	36.03%	25.06%	37%
9	World Resources Institute	\$375,000	\$1,255,000	\$585,200	\$2,215,200	\$12,330,794	\$18,049,796	\$25,137,513	\$55,518,103	3.04%	6.95%	2.33%	4%
10	National Environmental Trust	\$1,150,000	\$500,000	\$500,000	\$2,150,000	\$17,914,115	\$12,172,472	\$10,639,710	\$40,726,297	6.42%	4.11%	4.70%	5%
11	Alliance to Save Energy	\$460,000	\$1,083,000	\$400,000	\$1,943,000	\$5,806,323	\$7,517,321	\$8,878,890	\$22,202,534	7.92%	14.41%	4.51%	9%
12	American Geophysical Union	n/a	\$1,929,495	n/a	\$1,929,495	\$2,168,776	\$4,122,241	\$2,822,243	\$9,113,260	n/a	46.81%	n/a	21%
13	Scripps Institution of Oceanography	\$850,000	\$900,000	n/a	\$1,750,000	unk.	unk.	unk.	unk.				
14	Center for Resource Solutions	\$450,000	\$820,000	\$464,695	\$1,734,695	\$476,050	\$777,397	\$1,087,233	\$2,340,680	94.53%	105.48%	42.74%	74%
15	Harvard University	\$785,000	\$336,000	\$600,000	\$1,721,000	unk.	unk.	unk.	unk.				
16	Clean Energy Group	\$890,000	\$482,000	\$327,000	\$1,699,000	\$445,000	\$750,000	\$660,998	\$1,855,998	200.00%	64.27%	49.47%	92%
17	Michigan Environmental Council	n/a	\$1,500,000	n/a	\$1,500,000	\$1,343,384	\$2,504,768	\$668,582	\$4,516,734	n/a	59.89%	n/a	33%
18	Massachusetts Institute of Technology	\$763,250	\$476,900	\$200,000	\$1,440,150	unk.	unk.	unk.	unk.				
19	Clean Air Cool Planet	\$630,000	\$425,000	\$320,000	\$1,375,000	\$718,560	\$775,222	\$624,836	\$2,118,618	87.68%	54.82%	51.21%	65%
20	Minnesotans for an Energy Efficient Economy	\$595,000	\$275,000	\$635,000	\$1,330,000	\$752,782	\$975,694	\$661,477	\$2,389,953	79.04%	28.19%	96.00%	56%
21	Americans for Equitable Climate Change Solutions	\$100,000	\$510,000	\$625,000	\$1,235,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
22	Global Environment & Technology Foundation	\$450,000	\$375,000	\$385,000	\$1,210,000	\$3,430,850	\$3,536,776	\$4,393,326	\$11,360,952	13.12%	10.60%	8.76%	11%
23	Northwest Energy Coalition	\$260,000	\$435,000	\$430,000	\$1,125,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
24	Northwestern University, J. L. Kellogg Graduate School of Management	\$347,600	\$760,100	n/a	\$1,107,700	\$380,019,569	\$391,638,583	\$436,880,071	\$1,208,538,223	0.09%	0.19%	n/a	0%
25	Tides Center	\$480,000	\$307,500	\$305,000	\$1,092,500	\$41,327,196	\$55,340,861	\$65,168,610	\$161,836,667	1.16%	0.56%	0.47%	1%
26	Western Resource Advocates	\$300,000	\$465,000	\$300,000	\$1,065,000	\$1,290,423	\$1,524,845	\$1,962,623	\$4,777,891	23.25%	30.49%	15.29%	22%
27	Carnegie Institute	\$15,000	\$1,045,712	n/a	\$1,060,712	\$19,192,404	\$17,004,154	\$18,027,170	\$54,223,728	0.08%	6.15%	n/a	2%
28	Northeast States Clean Air Foundation	n/a	n/a	\$1,000,000	\$1,000,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
29	Syracuse University	\$1,000,000	n/a	n/a	\$1,000,000	\$87,196,941	\$78,230,949	\$89,214,963	\$254,642,853	1.15%	n/a	n/a	0%
30	Izaak Walton League of America	\$820,000	n/a	\$150,000	\$970,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
31	Environmental and Energy Study Institute	\$300,000	\$255,000	\$385,000	\$940,000	\$653,931	\$746,684	\$765,083	\$2,165,698	45.88%	34.15%	50.32%	43%
32	Institute for Policy Studies	\$103,400	\$577,250	\$220,000	\$900,650	\$1,738,989	\$2,779,004	\$2,731,272	\$7,249,265	5.95%	20.77%	8.05%	12%
33	Center for Clean Air Policy	\$170,000	\$365,000	\$275,000	\$810,000	\$2,242,766	\$2,652,683	\$2,365,084	\$7,260,533	7.58%	13.76%	11.63%	11%
34	Ozone Action	\$600,000	\$200,000	n/a	\$800,000	\$1,008,787	unk.	unk.	\$1,008,787	59.48%	n/a	n/a	79%
35	Center for Energy and Climate Solutions	\$634,000	\$150,000	n/a	\$784,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
36	International Council for Local Environmental	\$312,000	\$365,000	\$50,000	\$727,000	\$2,308,442	\$1,832,346	\$1,749,326	\$5,890,114	13.52%	19.92%	2.86%	12%
37	California Climate Action Registry	n/a	n/a	\$725,000	\$725,000	unk.	unk.	\$841,393	\$841,393	n/a	n/a	86.17%	86%

	Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities			
		2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
38	Public Interest Research Group Education Fund	\$210,000	\$375,000	\$125,000	\$710,000	\$2,403,949	\$4,662,233	\$7,312,073	\$14,378,255	8.74%	8.04%	1.71%	5%
39	Regulatory Assistance Project	\$230,000	\$215,000	\$230,000	\$675,000	\$1,282,189	\$1,176,707	\$1,080,886	\$3,539,782	17.94%	18.27%	21.28%	19%
40	Woods Hole Research Center	\$50,000	\$475,000	\$130,000	\$655,000	\$6,665,687	\$6,020,056	\$9,298,078	\$21,983,821	0.75%	7.89%	1.40%	3%
41	National Religious Partnership for the Environment	\$22,000	\$213,000	\$395,000	\$630,000	\$2,562,248	\$1,480,547	\$803,504	\$4,846,299	0.86%	14.39%	49.16%	13%
42	Conservation Law Foundation	\$385,000	\$90,000	\$150,000	\$625,000	\$3,294,029	\$4,419,764	\$9,936,158	\$17,649,951	11.69%	2.04%	1.51%	4%
43	Pace Energy Center	\$200,000	\$200,000	\$225,000	\$625,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
44	Renewable Northwest Project	\$170,000	\$410,000	\$35,000	\$615,000	\$318,700	\$775,545	\$577,690	\$1,671,935	53.34%	52.87%	6.06%	37%
45	World Wildlife Fund/Conservation Foundation	\$275,957	\$200,000	\$130,000	\$605,957	\$102,099,979	\$104,281,275	\$90,803,480	\$297,184,734	0.27%	0.19%	0.14%	0%
46	Climate Neutral Network	\$88,000	\$225,000	\$285,000	\$598,000	\$312,504	\$576,387	\$617,698	\$1,506,589	28.16%	39.04%	46.14%	40%
47	Environment Northeast	\$130,000	\$235,000	\$225,000	\$590,000	\$120,605	\$206,500	\$325,000	\$652,105	107.79%	113.80%	69.23%	90%
48	Center for Renewable Energy Development	\$174,600	\$378,000	n/a	\$552,600	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
49	University of Miami School of Marine Atmospheric Science	\$150,000	\$250,000	\$150,000	\$550,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
50	Winrock International Institute for Agricultural Development (WIAD)	\$240,000	\$200,000	\$100,000	\$540,000	\$51,872,013	\$48,170,837	\$40,954,469	\$140,997,319	0.46%	0.42%	0.24%	0%
51	Columbia University	\$288,500	\$250,000	n/a	\$538,500	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
52	Beijing Energy Efficiency Center	\$435,371	\$75,000	n/a	\$510,371	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
53	Center for a Sustainable Economy	\$150,000	\$260,000	\$95,000	\$505,000	\$629,530	\$255,000	\$327,613	\$1,212,143	23.83%	101.96%	29.00%	42%
54	Public Interest Research Group	\$325,000	\$180,000	n/a	\$505,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
55	Keystone Center	\$245,000	\$250,000	n/a	\$495,000	\$998,262	\$2,209,783	\$1,876,390	\$5,084,435	24.54%	11.31%	n/a	10%
56	Land & Water Fund of the Rockies	\$360,000	\$50,000	\$70,000	\$480,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
57	Northeast States for Coordinated Air Use Management Foundation	\$80,000	\$157,000	\$235,000	\$472,000	\$2,420,656	\$3,153,216	\$3,759,298	\$9,333,170	3.30%	4.98%	6.25%	5%
58	Renewable Energy Policy Project	\$50,000	\$50,000	\$332,500	\$432,500	unk.	\$200,300	\$281,510	\$481,810	n/a	24.96%	118.11%	90%
59	Clean Air Task Force	\$75,000	\$350,000	n/a	\$425,000	unk.	\$864,592	unk.	\$864,592	n/a	40.48%	n/a	49%
60	Potsdam Institute for Climate Impact Research (PIK)	\$190,768	\$198,260	\$29,828	\$418,856	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
61	Climate Institute	\$238,000	\$90,000	\$90,000	\$418,000	\$538,281	\$347,273	\$281,750	\$1,167,304	44.21%	25.92%	31.94%	36%
62	Sierra Club Foundation	\$200,000	\$100,000	\$105,000	\$405,000	\$61,059,571	\$67,185,877	\$18,742,493	\$146,987,941	0.33%	0.15%	0.56%	0%
63	Ceres, Inc.	\$10,000	\$290,000	\$100,000	\$400,000	\$1,211,356	\$2,698,158	\$1,278,056	\$5,187,570	0.83%	10.75%	7.82%	8%
64	Johns Hopkins University	\$400,000	n/a	n/a	\$400,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
65	Nat'l Oceanic and Atmos. Admin. (NOAA), Santa Cruz Laboratory, CA		n/a	\$400,000	\$400,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
66	Tennessee Valley Energy Education Foundation	\$240,000	\$140,000	n/a	\$380,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
67	Meridian Institute	\$100,000	\$175,000	\$100,000	\$375,000	\$229,977	\$38,817	\$1,190	\$269,984	43.48%	450.83%	8403.36%	139%
68	Rocky Mountain Institute	\$90,000	\$215,000	\$60,000	\$365,000	\$2,074,136	\$1,292,369	\$2,502,614	\$5,869,119	4.34%	16.64%	2.40%	6%
69	Greenpeace Fund	\$30,000	\$315,000	n/a	\$345,000	\$7,490,882	\$10,539,699	\$8,213,639	\$26,244,220	0.40%	2.99%	n/a	1%
70	Northeast Energy Efficiency Partnership	\$25,000	\$110,500	\$200,000	\$335,500	\$1,755,228	\$1,784,404	\$1,721,359	\$5,260,991	1.42%	6.19%	11.62%	6%
71	Earth Day Network	\$275,000	\$50,000	n/a	\$325,000	\$2,239,927	\$188,025	\$653,767	\$3,081,719	12.28%	26.59%	n/a	11%
72	E and Co	n/a	n/a	\$315,000	\$315,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
73	Citizens Action Coalition Education Fund	n/a	\$246,500	\$67,500	\$314,000	\$175,039	\$521,166	\$369,501	\$1,065,706	n/a	47.30%	18.27%	29%
74	Conservation International	n/a	\$300,000	n/a	\$300,000	\$61,232,712	\$66,339,435	\$221,423,138	\$348,995,285	n/a	0.45%	n/a	0%
75	Corporation for Enterprise Development (CFED)	\$300,000	n/a	n/a	\$300,000	\$8,703,720	\$7,224,558	\$6,927,714	\$22,855,992	3.45%	n/a	n/a	1%
76	International Center for Sustainable Development	n/a	\$300,000	n/a	\$300,000	unk.	\$200,000	\$124,500	\$324,500	n/a	150.00%	n/a	92%

Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities				
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	
	77	National Consumer Law Center	\$100,000	\$100,000	\$100,000	\$300,000	\$1,208,598	\$1,507,200	\$2,504,738	\$5,220,536	8.27%	6.63%	3.99%
78	University of Texas	\$150,000	\$150,000	n/a	\$300,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
79	China Energy Conservation Association	n/a	\$276,000	n/a	\$276,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
80	Public Health Institute	n/a	\$175,000	\$100,000	\$275,000	\$23,937,973	\$35,600,933	\$45,229,919	\$104,768,825	n/a	0.49%	0.22%	0%
81	Public Citizen Foundation	\$126,700	\$145,000	n/a	\$271,700	\$7,926,930	\$5,069,332	\$4,470,166	\$17,466,428	1.60%	2.86%	n/a	2%
82	Coalition for Clean Air	\$110,000	\$75,000	\$85,000	\$270,000	\$385,456	\$502,657	\$429,604	\$1,317,717	28.54%	14.92%	19.79%	20%
83	EcoVenture	\$53,000	\$100,000	\$116,000	\$269,000	\$48,763	\$74,457	\$192,008	\$315,228	108.69%	134.31%	60.41%	85%
84	Minnesota Project	n/a	\$260,000	n/a	\$260,000	\$716,086	\$508,097	\$488,860	\$1,713,043	n/a	51.17%	n/a	15%
85	United Nations Development Programme	\$210,000	n/a	\$50,000	\$260,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
86	American Lung Assn of New York State, Inc	\$252,000	n/a	n/a	\$252,000	\$5,748,438	\$5,731,429	\$5,823,537	\$17,303,404	4.38%	n/a	n/a	1%
87	Citizens for a Sound Economy Educational Foundation	n/a	\$250,250	n/a	\$250,250	\$6,553,376	\$4,385,842	\$3,876,411	\$14,815,629	n/a	5.71%	n/a	2%
88	International Rivers Network	\$250,000	n/a	n/a	\$250,000	\$1,147,653	\$1,675,040	\$1,011,642	\$3,834,335	21.78%	n/a	n/a	7%
89	Third Way Foundation	n/a	n/a	\$250,000	\$250,000	\$1,896,966	\$2,588,362	\$2,637,914	\$7,123,242	n/a	n/a	9.48%	4%
90	University of Colorado Foundation	\$200,000	n/a	\$50,000	\$250,000	\$104,631,220	\$131,277,959	\$79,753,376	\$315,662,555	0.19%	n/a	0.06%	0%
91	China Energy Research Society	n/a	\$97,000	\$150,000	\$247,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
92	University of Minnesota, Interdisciplinary Center for the Study of Global Chan	\$246,840	n/a	n/a	\$246,840	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
93	American Solar Energy Society	\$125,000	\$70,000	\$50,000	\$245,000	\$249,437	\$39,522	\$79,884	\$368,843	50.11%	177.12%	62.59%	66%
94	Oberlin College	\$243,349	n/a	n/a	\$243,349	\$28,616,999	\$21,193,743	\$34,534,262	\$84,345,004	0.85%	n/a	n/a	0%
95	Southern Alliance for Clean Energy	\$40,000	\$40,000	\$163,000	\$243,000	\$247,151	\$172,775	\$847,772	\$1,267,698	16.18%	23.15%	19.23%	19%
96	Texas Fund for Energy and Environmental Education	\$90,000	\$70,000	\$75,000	\$235,000	\$476,617	\$661,859	\$898,214	\$2,036,690	18.88%	10.58%	8.35%	12%
97	Carnegie Mellon	\$100,000	\$125,000	n/a	\$225,000	\$232,010,821	\$255,234,957	\$279,924,448	\$767,170,226	0.04%	0.05%	n/a	0%
98	Princeton University, Center for Energy and Environmental Studies	\$225,000	n/a	n/a	\$225,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
99	Resources for the Future	\$175,000	\$50,000	n/a	\$225,000	\$7,057,291	\$8,901,607	\$7,633,414	\$23,592,312	2.48%	0.56%	n/a	1%
100	Bluewater Network	n/a	n/a	\$223,000	\$223,000	unk.	unk.	\$799,896	\$799,896	n/a	n/a	27.88%	28%
101	Center for International Environmental Law	\$95,000	\$5,000	\$120,000	\$220,000	\$2,149,791	\$2,163,234	\$2,471,177	\$6,784,202	4.42%	0.23%	4.86%	3%
102	Chinese Research Academy of Environmental Sciences	n/a	\$220,000	n/a	\$220,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
103	Energy Research Institute	\$174,600	\$25,000	\$20,000	\$219,600	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
104	Green House Network	\$75,000	\$115,000	\$25,000	\$215,000	unk.	\$287,005	\$233,045	\$520,050	n/a	40.07%	10.73%	41%
105	Earth Island Institute	\$90,000	\$74,000	\$45,000	\$209,000	\$4,513,746	\$3,816,174	\$4,193,160	\$12,523,080	1.99%	1.94%	1.07%	2%
106	Cape and Islands Self-Reliance Corporation	\$115,000	\$50,000	\$40,000	\$205,000	\$256,402	\$187,954	\$280,821	\$725,177	44.85%	26.60%	14.24%	28%
107	Texas Southern University	\$51,000	\$150,000	n/a	\$201,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
108	Connecticut Innovations	n/a	\$200,000	n/a	\$200,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
109	Environmental Defense Fund	\$200,000	n/a	n/a	\$200,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
110	Minnesota Environmental Initiative	\$100,000	\$75,000	\$25,000	\$200,000	\$423,553	\$384,129	\$585,801	\$1,393,483	23.61%	19.52%	4.27%	14%
111	Southern Environmental Law Center	\$200,000	n/a	n/a	\$200,000	\$4,308,961	\$5,708,714	\$5,667,472	\$15,685,147	4.64%	n/a	n/a	1%
112	World Media Foundation	\$200,000	n/a	n/a	\$200,000	\$521,953	\$1,315,650	\$1,179,580	\$3,017,183	38.32%	n/a	n/a	7%
113	Institute for Energy and Environmental Research	\$66,000	\$130,000	n/a	\$196,000	\$646,023	\$794,753	\$557,510	\$1,998,286	10.22%	16.36%	n/a	10%
114	George C. Marshall Institute	\$50,000	\$60,000	\$80,000	\$190,000	\$672,140	\$629,657	\$593,200	\$1,894,997	7.44%	9.53%	13.49%	10%
115	CALPIRG Charitable Trust	n/a	\$130,000	\$50,000	\$180,000	\$303,613	\$468,644	\$787,934	\$1,560,191	n/a	27.74%	6.35%	12%

Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
116 Free the Planet	\$100,000	\$30,000	\$50,000	\$180,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
117 National Association of Conservation Districts	\$90,000	\$90,000	n/a	\$180,000	\$56,512	\$52,613	\$1,917,662	\$2,026,787	159.26%	171.06%	n/a	9%
118 Climate Solutions	\$20,000	\$155,200	n/a	\$175,200	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
119 Citizens for Pennsylvanias Future	n/a	\$100,000	\$75,000	\$175,000	\$2,155,000	\$655,891	\$2,507,304	\$5,318,195	n/a	15.25%	2.99%	3%
120 Environmental Research Institute of Amazonia	n/a	n/a	\$175,000	\$175,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
121 Oregon State University, College of Oceanic and Atmospheric Sciences	\$165,550	n/a	n/a	\$165,550	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
122 Connecticut Clean Air Through Renewable Energy	n/a	n/a	\$162,500	\$162,500	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
123 California Electric Transportation Coalition	\$145,000	\$15,000	n/a	\$160,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
124 Redefining Progress	\$75,000	\$10,000	\$75,000	\$160,000	\$996,694	\$1,315,418	\$921,338	\$3,233,450	7.52%	0.76%	8.14%	5%
125 Physicians for Social Responsibility	\$50,000	\$68,500	\$35,000	\$153,500	\$2,883,385	\$2,399,369	\$4,044,678	\$9,327,432	1.73%	2.85%	0.87%	2%
126 American Council for Capital Formation (ACCF)	n/a	\$150,000	n/a	\$150,000	\$1,453,118	\$1,452,526	\$1,371,382	\$4,277,026	n/a	10.33%	n/a	4%
127 Aspen Institute	n/a	\$80,000	\$70,000	\$150,000	\$267,066	\$389,550	\$20,850	\$677,466	n/a	20.54%	335.73%	22%
128 Battelle, Pacific Northwest National Laboratory	\$150,000	n/a	n/a	\$150,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
129 Delaware Valley Citizens Council for Clean Air	\$150,000	n/a	n/a	\$150,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
130 Ecology Center	n/a	n/a	\$150,000	\$150,000	\$399,673	unk.	unk.	\$399,673	n/a	n/a	n/a	38%
131 Legal Environmental Assistance Foundation (LEAF)	\$100,000	\$50,000	n/a	\$150,000	\$973,294	\$381,084	\$440,804	\$1,795,182	10.27%	13.12%	n/a	8%
132 Missouri Botanical Garden	n/a	\$150,000	n/a	\$150,000	\$22,003,203	\$46,352,464	\$39,880,519	\$108,236,186	n/a	0.32%	n/a	0%
133 National Academy of Sciences, National Research Council	n/a	\$75,000	\$75,000	\$150,000	\$252,258,393	\$205,048,508	\$241,876,228	\$699,183,129	n/a	0.04%	0.03%	0%
134 National Council of the Churches of Christ in the U.S.A.	n/a	\$150,000	n/a	\$150,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
135 Pacific Institute for Studies in Development, Environment and Security	n/a	n/a	\$150,000	\$150,000	unk.	\$1,457,554	\$1,495,532	\$2,953,086	n/a	n/a	10.03%	5%
136 University of California	n/a	n/a	\$150,000	\$150,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
137 University of Washington, College of Ocean and Fishery Sciences	\$150,000	n/a	n/a	\$150,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
138 Tufts University	\$149,000	n/a	n/a	\$149,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
139 China Automotive Technology & Research Center	\$80,000	\$68,000	n/a	\$148,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
140 Frontiers of Freedom Institute	n/a	n/a	\$132,000	\$132,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
141 American Lung Association of California	n/a	\$130,000	n/a	\$130,000	\$4,760,844	\$5,568,382	\$6,794,968	\$17,124,194	n/a	2.33%	n/a	1%
142 Georgians for Clean Energy	\$60,000	\$35,000	\$35,000	\$130,000	\$242,901	\$285,544	\$238,536	\$766,981	24.70%	12.26%	14.67%	17%
143 Iowa Citizen Action Network Education Foundation	\$60,000	\$40,000	\$30,000	\$130,000	\$123,551	\$113,170	\$238,182	\$474,903	48.56%	35.35%	12.60%	27%
144 Tsinghua University Education Foundation	\$30,000	\$76,000	\$20,000	\$126,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
145 Midwest Energy Research Center	\$125,000	n/a	n/a	\$125,000	\$239,695	\$318,568	\$288,598	\$846,861	52.15%	n/a	n/a	15%
146 Yale University	\$25,000	\$100,000	n/a	\$125,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
147 Science and Environment Policy Project	\$46,000	\$46,000	\$30,000	\$122,000	\$190,758	\$126,710	\$109,879	\$427,347	24.11%	36.30%	27.30%	29%
148 Ohio Environmental Enforcement Project	\$120,000	n/a	n/a	\$120,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
149 China National Institute of Standardization	\$55,788	\$60,000	n/a	\$115,788	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
150 South-North Institute for Sustainable Development	\$55,400		\$60,000	\$115,400	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
151 Heartland Institute	\$115,000	n/a	n/a	\$115,000	\$783,635	\$1,103,375	\$1,254,137	\$3,141,147	14.68%	n/a	n/a	4%
152 Southern Alliance for Clean Energy Education	n/a	n/a	\$115,000	\$115,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
153 University of California at San Diego, Scripps Institute on the Global Climate	\$115,000	n/a	n/a	\$115,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
154 Green Energy Ohio	\$30,000	\$44,700	\$40,000	\$114,700	\$72,021	\$192,471	\$183,930	\$448,422	41.65%	23.22%	21.75%	26%

Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
155 Environmental Advocates	n/a		\$110,000	\$110,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
156 Rainforest Action Network	\$110,000	n/a	n/a	\$110,000	\$2,627,516	\$1,971,491	\$1,907,267	\$6,506,274	4.19%	n/a	n/a	2%
157 Breakthrough Technologies Institute	\$109,000	n/a	n/a	\$109,000	\$528,256	\$657,513	\$2,159,087	\$3,344,856	20.63%	n/a	n/a	3%
158 Maryland Public Interest Research Foundation	\$67,000	\$40,000	n/a	\$107,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
159 American Lands Alliance	\$105,000	n/a	n/a	\$105,000	\$1,104,402	\$784,770	\$902,267	\$2,791,439	9.51%	n/a	n/a	4%
160 Chinese Academy of Social Sciences	n/a	\$23,000	\$80,000	\$103,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
161 Center for Public Interest Research	n/a	n/a	\$100,000	\$100,000	\$1,864,880	\$2,355,614	\$2,622,235	\$6,842,729	n/a	n/a	3.81%	1%
162 Consumers Association of Penang	n/a	n/a	\$100,000	\$100,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
163 Economic Policy Institute	\$100,000	n/a	n/a	\$100,000	\$5,298,499	\$5,258,112	\$3,680,785	\$14,237,396	1.89%	n/a	n/a	1%
164 H. John Heinz III Center for Science, Economics and the Environment	n/a	\$100,000	n/a	\$100,000	\$3,972,897	\$3,246,268	\$2,591,129	\$9,810,294	n/a	3.08%	n/a	1%
165 Nature Conservancy	\$100,000	n/a	n/a	\$100,000	\$445,326,081	\$461,001,381	\$628,339,364	\$1,534,666,826	0.02%	n/a	n/a	0%
166 New Buildings Institute	n/a	n/a	\$100,000	\$100,000	\$161,000	\$85,000	\$124,500	\$370,500	n/a	n/a	80.32%	27%
167 Ohio Environmental Council	\$50,000	\$50,000	n/a	\$100,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
168 RAND Corporation	n/a	\$100,000	n/a	\$100,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
169 University of California, Energy and Resources Group	n/a	\$100,000	n/a	\$100,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
170 Verification Research, Training and Information Centre	\$50,000	\$50,000	n/a	\$100,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
171 Beijing Center for Energy Efficiency and Environmental Technology Transfer	n/a	n/a	\$98,000	\$98,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
172 20/20 Vision Education Fund	\$15,000	\$77,000	n/a	\$92,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
173 Beijing Sustainable Development Center	n/a	n/a	\$90,000	\$90,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
174 Renewable Energy in Wisconsin	\$90,000	n/a	n/a	\$90,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
175 Earth Action Network	\$85,000	n/a	n/a	\$85,000	\$389,379	\$167,165	\$504,438	\$1,060,982	21.83%	n/a	n/a	8%
176 Latino Issues Forum	\$40,000	\$35,000	\$10,000	\$85,000	\$1,230,134	\$407,165	\$1,455,148	\$3,092,447	3.25%	8.60%	0.69%	3%
177 Friends of the Earth	n/a	\$40,000	\$40,000	\$80,000	\$3,468,837	\$4,202,799	\$3,564,493	\$11,236,129	n/a	0.95%	1.12%	1%
178 GLOBE USA	n/a	\$80,000	n/a	\$80,000	\$553,500	\$157,859	\$655,025	\$1,366,384	n/a	50.68%	n/a	6%
179 Institute of Systems Engineering, Northern Jiaotong U.	\$80,000	n/a	n/a	\$80,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
180 Iowa Environmental Council	n/a	n/a	\$80,000	\$80,000	\$278,071	\$142,728	\$187,045	\$607,844	n/a	n/a	42.77%	13%
181 National Resource Conservation and Comprehensive Utilization Information Center		\$80,000	n/a	\$80,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
182 Planning & Conservation League Foundation	\$80,000	n/a	n/a	\$80,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
183 Pennsylvania Council of Churches	\$77,000	n/a	n/a	\$77,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
184 Alliance for Affordable Energy	\$50,000	n/a	\$25,000	\$75,000	\$59,721	\$69,943	\$48,978	\$178,642	83.72%	n/a	51.04%	42%
185 Citizen Alert	\$25,000	\$50,000	n/a	\$75,000	\$194,609	\$124,902	unk.	\$319,511	12.85%	40.03%	#VALUE!	23%
186 Colorado Coalition for New Energy Technologies	n/a	n/a	\$75,000	\$75,000	unk.	unk.	\$71,623	\$71,623	n/a	n/a	104.71%	105%
187 Dakota Resource Council, ND	\$75,000	n/a	n/a	\$75,000	\$309,721	\$348,028	\$376,596	\$1,034,345	24.22%	n/a	n/a	7%
188 Forests and the European Union Resource Network (FERN)	n/a	n/a	\$75,000	\$75,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
189 Green Corps	n/a	\$75,000	n/a	\$75,000	\$1,294,826	\$740,964	\$699,171	\$2,734,961	n/a	10.12%	n/a	3%
190 International Center for Technology Assessment	\$25,000	n/a	\$50,000	\$75,000	\$401,355	\$711,511	\$518,807	\$1,631,673	6.23%	n/a	9.64%	5%
191 Midwest Energy Efficiency Alliance	n/a	\$75,000	n/a	\$75,000	\$206,621	\$874,229	\$1,792,486	\$2,873,336	n/a	8.58%	n/a	3%
192 Northwest Sustainable Energy for Economic Development (SEED)	n/a	n/a	\$75,000	\$75,000	unk.	unk.	\$65,716	\$65,716	n/a	n/a	114.13%	114%
193 Oregon Environmental Council	n/a	\$75,000	n/a	\$75,000	\$637,416	\$883,647	\$657,773	\$2,178,836	n/a	8.49%	n/a	3%

Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
194 Toxics Action Center	\$75,000	n/a	n/a	\$75,000	\$297,801	\$350,453	\$411,005	\$1,059,259	25.18%	n/a	n/a	7%
195 Friends of the Earth International	\$35,000	\$35,000	n/a	\$70,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
196 Pennsylvania State University	\$35,000	\$35,000	n/a	\$70,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
197 Safe Energy Communication Council	\$40,000	\$25,000	n/a	\$65,000	\$582,673	\$507,758	\$227,040	\$1,317,471	6.86%	4.92%	n/a	5%
198 Independent Institute	\$20,000	\$12,000	\$30,000	\$62,000	\$1,328,051	\$1,661,358	\$1,528,690	\$4,518,099	1.51%	0.72%	1.96%	1%
199 Global Green USA	n/a	\$60,000	n/a	\$60,000	\$1,946,042	\$2,251,538	\$1,892,149	\$6,089,729	n/a	2.66%	n/a	1%
200 Idaho Conservation League	n/a	\$60,000	n/a	\$60,000	\$802,143	\$1,199,086	\$720,101	\$2,721,330	n/a	5.00%	n/a	2%
201 Interstate Renewable Energy Council	\$30,000	\$30,000	n/a	\$60,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
202 Public Utility Law Project of New York	\$20,000	\$40,000	n/a	\$60,000	\$725,193	\$689,974	\$605,969	\$2,021,136	2.76%	5.80%	n/a	3%
203 Southface Energy Institute	n/a	\$60,000	n/a	\$60,000	\$69,838	\$18,393	\$70,059	\$158,290	n/a	326.21%	n/a	38%
204 Transportation Choices Coalition	n/a	\$60,000	n/a	\$60,000	\$139,879	\$217,906	\$166,688	\$524,473	n/a	27.53%	n/a	11%
205 Community Office for Resource Efficiency	\$15,000	\$20,000	\$20,000	\$55,000	\$265,914	\$227,965	\$338,435	\$832,314	5.64%	8.77%	5.91%	7%
206 David Suzuki Foundation	n/a	\$55,000	n/a	\$55,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
207 Environmental Media Services West	n/a	n/a	\$53,698	\$53,698	unk.	unk.	\$2,438,226	\$2,438,226	n/a	n/a	2.20%	2%
208 Lawrence Berkeley Laboratory	n/a	n/a	\$52,000	\$52,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
209 Alliance for Sustainable Jobs and the Environment	n/a	n/a	\$50,000	\$50,000	unk.	\$176,412	\$174,305	\$350,717	n/a	n/a	28.69%	14%
210 American Corn Growers Foundation	n/a	\$50,000	n/a	\$50,000	\$283,000	\$410,000	\$284,400	\$977,400	n/a	12.20%	n/a	5%
211 American Friends of London School of Hygiene and Tropical Medicine	\$50,000	n/a	n/a	\$50,000	\$20,051,800	\$20,051,855	\$51,080	\$40,154,735	0.25%	n/a	n/a	0%
212 Business for Social Responsibility (BSR) Education Fund	\$50,000	n/a	n/a	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
213 Center for Independent Documentary	n/a	n/a	\$50,000	\$50,000	\$2,382,035	\$2,432,896	\$1,802,937	\$6,617,868	n/a	n/a	2.77%	1%
214 Center for Resource Economics	\$50,000	n/a	n/a	\$50,000	\$1,781,676	\$3,018,473	\$4,235,264	\$9,035,413	2.81%	n/a	n/a	1%
215 Commission on Religion in Appalachia	n/a	\$50,000	n/a	\$50,000	\$620,604	\$549,302	\$496,820	\$1,666,726	n/a	9.10%	n/a	3%
216 Consumers Union of United States	n/a	n/a	\$50,000	\$50,000	\$10,016,848	\$20,257,643	\$10,311,943	\$40,586,434	n/a	n/a	0.48%	0%
217 ForestEthics	n/a	n/a	\$50,000	\$50,000	\$805,371	\$911,218	\$1,112,759	\$2,829,348	n/a	n/a	4.49%	2%
218 Guangdong Energy Techno-Economic Research Center	n/a	n/a	\$50,000	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
219 Institute for Agriculture and Trade Policy	n/a	\$50,000	n/a	\$50,000	\$2,463,154	\$2,788,526	\$2,569,269	\$7,820,949	n/a	1.79%	n/a	1%
220 Low Impact Hydropower Institute	n/a	\$50,000	n/a	\$50,000	\$70,734	\$130,000	\$25,000	\$225,734	n/a	38.46%	n/a	22%
221 Massachusetts Energy Consumers Alliance	n/a	\$50,000	n/a	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
222 Montana Environmental Information Center	n/a	\$50,000	n/a	\$50,000	\$420,813	\$481,438	\$308,333	\$1,210,584	n/a	10.39%	n/a	4%
223 National Public Radio (NPR)	\$50,000	n/a	n/a	\$50,000	\$75,039,757	\$46,934,159	\$37,752,547	\$159,726,463	0.07%	n/a	n/a	0%
224 National Research Center for Science and Technology Development	n/a	n/a	\$50,000	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
225 Nebraska Appleseed Center for Law	\$50,000	n/a	n/a	\$50,000	\$110,330	\$457,062	\$250,026	\$817,418	45.32%	n/a	n/a	6%
226 NY PIRG	\$50,000	n/a	n/a	\$50,000	\$3,222,376	\$4,100,540	\$3,829,768	\$11,152,684	1.55%	n/a	n/a	0%

Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
227 Pace University	\$50,000	n/a	n/a	\$50,000	\$17,061,522	\$19,305,790	\$22,353,043	\$58,720,355	0.29%	n/a	n/a	0%
228 Public Finance Research Institute	n/a	n/a	\$50,000	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
229 Shanghai Academy of Environmental Sciences	n/a	n/a	\$50,000	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
230 Sichuan University, Institute for West Development	n/a	n/a	\$50,000	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
231 TechRocks	n/a	\$50,000	n/a	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
232 Tides Center, Regeneration Project	n/a	\$50,000	n/a	\$50,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
233 Arizona State University, Department of Geography	n/a	\$49,500	n/a	\$49,500	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
234 North Carolina Solar Energy Association	\$45,000	n/a	n/a	\$45,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
235 Regents/U. of California, Riverside	\$45,000	n/a	n/a	\$45,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
236 Utility Reform Network	n/a	n/a	\$45,000	\$45,000	\$771,525	\$1,067,885	\$844,601	\$2,684,011	n/a	n/a	5.33%	2%
237 American Planning Association	n/a	\$40,000	n/a	\$40,000	\$21,893	\$24,152	\$14,510	\$60,555	n/a	165.62%	n/a	66%
238 Better World Fund	n/a	n/a	\$40,000	\$40,000	\$5,947,264	\$7,390,646	\$21,785,596	\$35,123,506	n/a	n/a	0.18%	0%
239 China Electricity Council	n/a	n/a	\$40,000	\$40,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
240 Council on Renewable Energy in the Mekong Region (CORE)	n/a	\$40,000	n/a	\$40,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
241 CUB Educational Fund	n/a	\$40,000	n/a	\$40,000	\$70,597	\$31,492	\$60,904	\$162,993	n/a	127.02%	n/a	25%
242 Economic & Development Research Institute	\$40,000	n/a	n/a	\$40,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
243 Greenpeace U.S.A.	n/a	n/a	\$40,000	\$40,000	\$7,490,882	\$10,539,699	\$8,213,639	\$26,244,220	n/a	n/a	0.49%	0%
244 Illinois Public Interest Research Group Education Fund	n/a	n/a	\$40,000	\$40,000	\$101,986	\$129,262	\$178,926	\$410,174	n/a	n/a	22.36%	10%
245 New York Lawyers for the Public Interest	n/a	n/a	\$40,000	\$40,000	\$1,684,724	\$1,689,995	\$2,750,749	\$6,125,468	n/a	n/a	1.45%	1%
246 Tellus Institute, VA	\$40,000	n/a	n/a	\$40,000	\$3,341,983	\$3,987,566	\$3,517,363	\$10,846,912	1.20%	n/a	n/a	0%
247 Foundation for International Environmental Law and Development	\$35,000	n/a	n/a	\$35,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
248 Great Plains Inst. for Sustainable DevelopmentE	\$35,000	n/a	n/a	\$35,000	\$36,955	\$125,690	\$26,700	\$189,345	94.71%	n/a	n/a	18%
249 Pennsylvania Environmental Council, Inc.	\$25,000	\$10,000	n/a	\$35,000	\$1,022,889	\$2,070,823	\$1,162,114	\$4,255,826	2.44%	0.48%	n/a	1%
250 Reason Foundation, Public Policy Institute	n/a	\$35,000	n/a	\$35,000	\$4,023,261	\$3,885,005	\$3,753,509	\$11,661,775	n/a	0.90%	n/a	0%
251 Netherlands Agency for Energy and the Environment (NOVEM)	n/a	n/a	\$34,648	\$34,648	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
252 United States Energy Association	\$33,334	n/a	n/a	\$33,334	\$8,238,847	\$7,619,594	\$7,983,253	\$23,841,694	0.40%	n/a	n/a	0%
253 Coalition for Consumer Justice Education Project	n/a	\$33,000	n/a	\$33,000	\$292,452	\$262,252	\$125,439	\$680,143	n/a	12.58%	n/a	5%
254 Alternative Energy Resources Organization	n/a	\$30,000	n/a	\$30,000	\$267,382	\$190,172	\$118,792	\$576,346	n/a	15.78%	n/a	5%
255 China Building Energy Efficiency Association	n/a	\$30,000	n/a	\$30,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
256 Coalition for Clean Affordable Energy	n/a	\$30,000	n/a	\$30,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
257 Development Research Center of the State Council (DRC)	n/a	\$30,000	n/a	\$30,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
258 Guangdong Energy Conservation Center	n/a	n/a	\$30,000	\$30,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
259 Idaho Rural Council	n/a	\$30,000	n/a	\$30,000	\$166,434	\$132,896	\$140,273	\$439,603	n/a	22.57%	n/a	7%
260 New Mexico Public Interest Research Group Education Fund	n/a	\$30,000	n/a	\$30,000	\$122,250	\$183,566	\$199,978	\$505,794	n/a	16.34%	n/a	6%
261 Zhejiang Energy Research Institute	n/a	n/a	\$30,000	\$30,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
262 Texas Impact	n/a	\$28,000	n/a	\$28,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
263 Renewable Energy Leadership Group	n/a	n/a	\$25,400	\$25,400	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
264 Alameda Center for Environmental Technologies	n/a	n/a	\$25,000	\$25,000	\$563,113	\$248,000	\$220,050	\$1,031,163	n/a	n/a	11.36%	2%
265 Beijing Jikedian Energy Development Center	\$5,000	\$20,000	n/a	\$25,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a

Recipient of Funds from Foundations	Total Grants for Climate Related Activities				Total Grant Income				Percentage of Funds in Climate-Related Activities			
	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total	2000	2001	2002	3-yr Total
266 Center for Policy Research	\$25,000	n/a	n/a	\$25,000	\$2,217,869	\$2,219,512	\$2,399,175	\$6,836,556	1.13%	n/a	n/a	0%
267 Competitive Enterprise Institute	n/a	n/a	\$25,000	\$25,000	\$2,656,633	\$3,109,944	\$2,935,335	\$8,701,912	n/a	n/a	0.85%	0%
268 Earth Challenge	\$25,000	n/a	n/a	\$25,000	\$51,171	\$5,910	NA	\$57,081	48.86%	n/a	n/a	44%
269 East Kootenay Environmental Society	n/a	\$25,000	n/a	\$25,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
270 Heritage Foundation	n/a	\$25,000	n/a	\$25,000	\$27,378,004	\$26,453,015	\$40,423,462	\$94,254,481	n/a	0.09%	n/a	0%
271 Northeast Sustainable Energy Association	n/a	\$25,000	n/a	\$25,000	\$797,107	\$838,190	\$533,893	\$2,169,190	n/a	2.98%	n/a	1%
272 Ohio Council of Churches	\$25,000	n/a	n/a	\$25,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
273 Population Communications International	\$25,000	n/a	n/a	\$25,000	\$4,776,400	\$4,811,758	\$4,682,144	\$14,270,302	0.52%	n/a	n/a	0%
274 University of Hawaii, International Pacific Research Center	n/a	n/a	\$25,000	\$25,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
275 Connecticut Fund for the Environment	n/a	\$20,000	n/a	\$20,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
276 Institute for the Study of Earth and Man	\$20,000	n/a	n/a	\$20,000	\$663,630	\$238,345	\$176,749	\$1,078,724	3.01%	n/a	n/a	2%
277 Columbia University, Lamont-Doherty Earth Observatory	n/a	\$17,550	n/a	\$17,550	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
278 Center for the Study of Carbon Dioxide and Global Change	\$15,000	n/a	n/a	\$15,000	\$321,500	\$398,214	\$262,575	\$982,289	4.67%	n/a	n/a	2%
279 Enersol Associates	\$15,000	n/a	n/a	\$15,000	\$68,252	\$374,492	\$197,844	\$640,588	21.98%	n/a	n/a	2%
280 National Center for Public Policy Research	n/a	\$15,000	n/a	\$15,000	\$5,159,083	\$5,880,917	\$6,663,849	\$17,703,849	n/a	0.26%	n/a	0%
281 QLF Atlantic Center for the Environment	\$15,000	n/a	n/a	\$15,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
282 Rockefeller Family Fund	\$15,000	n/a	n/a	\$15,000	\$10,429,040	\$4,671,678	\$12,648,882	\$27,749,600	0.14%	n/a	n/a	0%
283 State Development Planning Commission, Market and Price Research Institu	n/a	\$15,000	n/a	\$15,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
284 Tri-State Coalition for Responsible Investment	n/a	\$15,000	n/a	\$15,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
285 Portland State University Foundation	n/a	\$14,000	n/a	\$14,000	\$9,121,975	\$9,693,424	\$10,514,742	\$29,330,141	n/a	0.14%	n/a	0%
286 University of Idaho	n/a	n/a	\$14,000	\$14,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
287 Washington State University Foundation	n/a	n/a	\$14,000	\$14,000	\$32,640,070	\$28,159,424	\$28,006,087	\$88,805,581	n/a	n/a	0.05%	0%
288 Amazon Alliance for Indigenous and Traditional Peoples of the Amazon Basir	\$10,000	n/a	n/a	\$10,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
289 Massachusetts Climate Action Network (MCAN)	n/a	\$10,000	n/a	\$10,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
290 PCL Foundation	n/a	n/a	\$10,000	\$10,000	\$642,188	\$761,592	\$766,023	\$2,169,803	n/a	n/a	1.31%	0%
291 San Jose State University Foundation	n/a	\$10,000	n/a	\$10,000	\$34,741,061	\$35,518,800	\$32,469,678	\$102,729,539	n/a	0.03%	n/a	0%
292 Scenic Hudson	n/a	\$10,000	n/a	\$10,000	\$5,234,221	\$5,192,074	\$2,534,559	\$12,960,854	n/a	0.19%	n/a	0%
293 Illinois Institute of Technology	\$6,000	n/a	n/a	\$6,000	\$72,372,380	\$78,631,522	\$43,221,313	\$194,225,215	0.01%	n/a	n/a	0%
294 McKay High School	n/a	n/a	\$6,000	\$6,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
295 Global Greenlife Institute, Hong Kong	\$5,000	n/a	n/a	\$5,000	unk.	unk.	unk.	unk.	n/a	n/a	n/a	n/a
Totals	\$41,029,740	\$47,336,342	\$36,598,469	\$124,964,551	\$2,599,057,009	\$2,695,208,861	\$3,010,537,460	\$8,304,803,330	1.58%	1.76%	1.22%	1.50%

* those %'s above 100% are a result of multi-year grants in any particular year. Multi-year grants were recorded in full in the first year they appeared as the databases did not provide sufficient detail to know how the multi-year funds were allocated.

Source: Searches in the GuideStar and Foundation Center on-line databases for climate change related information as well as IRS 990 Financial Forms

The total grant income category is a reflection of grants and contributions received in the specific year. These grants are made in the form of direct public support, indirect public support and government grants (Part 1, Line 1D of 990 Form).

Appendix Table 3: Financing for Atmospheric Science R&D by Institution, 1998-2002

(Dollars in Thousands)

Academic Institution	1998			1999			2000			2001			2002		
	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal
Allegheny College	\$0	\$0	n/a	\$39	\$39	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Auburn University, (all)	\$7	\$7	100.0%	\$22	\$22	100.0%	\$17.00	\$17.00	100.0%	\$4.00	\$4.00	100.0%	\$31.00	\$31.00	100.0%
Augsburg College	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$100.00	\$100.00	100.0%	\$176.00	\$176.00	100.0%
Augustana College (Rock Island, IL)	\$1	\$1	100.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Bethune Cookman College	\$8	\$8	100.0%	\$4	\$4	100.0%	\$5.00	\$5.00	100.0%	\$547.00	\$547.00	100.0%	\$0.00	\$0.00	n/a
California State University, Monterey Bay	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$3.00	\$2.00	66.7%	\$3.00	\$2.00	66.7%
California State University-Bakersfield	\$1	\$0	0.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
California State University-Dominguez Hills	\$0	\$0	n/a	\$62	\$37	59.7%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
California State University-Fullerton	\$6	\$2	33.3%	\$12	\$4	33.3%	\$18.00	\$5.00	27.8%	\$25.00	\$6.00	24.0%	\$35.00	\$6.00	17.1%
California State University-Hayward	\$11	\$10	90.9%	\$13	\$12	92.3%	\$16.00	\$14.00	87.5%	\$18.00	\$16.00	88.9%	\$21.00	\$19.00	90.5%
California State University-Los Angeles	\$0	\$0	n/a	\$4	\$4	100.0%	\$73.00	\$72.00	98.6%	\$8.00	\$8.00	100.0%	\$33.00	\$33.00	100.0%
California State University-Northridge	\$0	\$0	n/a	\$40	\$40	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
College of Charleston	\$0	\$0	n/a	\$8	\$6	75.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Colorado State University	\$13,466	\$9,959	74.0%	\$12,350	\$10,551	85.4%	\$12,981.00	\$11,302.00	87.1%	\$14,277.00	\$11,989.00	84.0%	\$18,742.00	\$14,079.00	75.1%
Columbia University in the City of New York	\$0	\$0	n/a	\$3,889	\$3,789	97.4%	\$4,692.00	\$4,387.00	93.5%	\$4,698.00	\$4,354.00	92.7%	\$5,443.00	\$5,071.00	93.2%
Creighton University	\$30	\$30	100.0%	\$48	\$48	100.0%	\$87.00	\$87.00	100.0%	\$71.00	\$71.00	100.0%	\$95.00	\$95.00	100.0%
CUNY City College	\$5	\$1	20.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
CUNY College of Staten Island	\$19	\$0	0.0%	\$3	\$0	0.0%	\$2.00	\$0.00	0.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
CUNY Medgar Evers College	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$116.00	\$116.00	100.0%
Desert Research Institute	\$3,400	\$2,300	67.6%	\$11,105	\$6,868	61.8%	\$12,365.00	\$8,273.00	66.9%	\$14,497.00	\$9,532.00	65.8%	\$14,339.00	\$9,923.00	69.2%
Drexel University	\$691	\$501	72.5%	\$309	\$255	82.5%	\$452.00	\$452.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
East Stroudsburg University of Pennsylvania	\$0	\$0	n/a	\$7	\$5	71.4%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Eastern Kentucky University	\$0	\$0	n/a	\$235	\$71	30.2%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Eastern Michigan University	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$13.00	\$0.00	0.0%
Eastern Washington University	\$12	\$2	16.7%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Embry-Riddle Aeronautical University	\$356	\$332	93.3%	\$356	\$332	93.3%	\$462.00	\$400.00	86.6%	\$812.00	\$712.00	87.7%	\$136.00	\$136.00	100.0%
Evergreen State College	\$0	\$0	n/a	\$0	\$0	n/a	\$4.00	\$4.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Florida International University	\$0	\$0	n/a	\$39	\$37	94.9%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Florida State University	\$5,592	\$4,406	78.8%	\$5,520	\$4,380	79.3%	\$5,241.00	\$4,344.00	82.9%	\$6,693.00	\$4,914.00	73.4%	\$6,669.00	\$4,904.00	73.5%
Fordham University	\$27	\$27	100.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Georgia Institute of Technology, (all)	\$184	\$81	44.0%	\$376	\$161	42.8%	\$444.00	\$184.00	41.4%	\$803.00	\$377.00	46.9%	\$824.00	\$401.00	48.7%
Grinnell College	\$7	\$6	85.7%	\$31	\$12	38.7%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Hamilton College	\$16	\$15	93.8%	\$26	\$18	69.2%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Hampton University	\$939	\$939	100.0%	\$1,517	\$1,517	100.0%	\$3,622.00	\$3,622.00	100.0%	\$908.00	\$818.00	90.1%	\$2,607.00	\$2,507.00	96.2%
Harvard University	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$161.00	\$161.00	100.0%	\$576.00	\$483.00	83.9%
Harvey Mudd College	\$0	\$0	n/a	\$13	\$8	61.5%	\$13.00	\$8.00	61.5%	\$15.00	\$9.00	60.0%	\$16.00	\$10.00	62.5%
Howard University	\$59	\$59	100.0%	\$60	\$60	100.0%	\$97.00	\$97.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Jackson State University	\$644	\$644	100.0%	\$0	\$0	n/a	\$53.00	\$53.00	100.0%	\$106.00	\$94.00	88.7%	\$149.00	\$127.00	85.2%
James Madison University	\$23	\$19	82.6%	\$1	\$0	0.0%	\$21.00	\$0.00	0.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
John Carroll University	\$66	\$66	100.0%	\$9	\$9	100.0%	\$9.00	\$9.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Johns Hopkins University	\$10,749	\$10,735	99.9%	\$10,314	\$10,314	100.0%	\$7,461.00	\$7,461.00	100.0%	\$7,640.00	\$7,640.00	100.0%	\$6,931.00	\$6,931.00	100.0%

Appendix Table 3: Financing for Atmospheric Science R&D by Institution, 1998-2002

(Dollars in Thousands)

Academic Institution	1998			1999			2000			2001			2002		
	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal
Kenyon College	\$0	\$0	n/a	\$4	\$4	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Lamar University-Beaumont	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$107.00	\$107.00	100.0%
Long Island University, (all)	\$7	\$7	100.0%	\$0	\$0	n/a	\$18.00	\$18.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Mankato State University	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$43.00	\$0.00	0.0%
Massachusetts Institute of Technology	\$318	\$261	82.1%	\$8,289	\$8,053	97.2%	\$8,310.00	\$7,880.00	94.8%	\$9,075.00	\$8,085.00	89.1%	\$9,043.00	\$7,662.00	84.7%
Middlebury College	\$0	\$0	n/a	\$4	\$4	100.0%	\$0.00	\$0.00	n/a	\$67.00	\$67.00	100.0%	\$83.00	\$57.00	68.7%
Miles College	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$169.00	\$168.00	99.4%
Montana Tech of the University of Montana	\$0	\$0	n/a	\$0	\$0	n/a	\$303.00	\$291.00	96.0%	\$437.00	\$350.00	80.1%	\$311.00	\$187.00	60.1%
Naval Postgraduate School	\$4,850	\$4,793	98.8%	\$4,850	\$4,793	98.8%	\$5,322.00	\$5,248.00	98.6%	\$5,804.00	\$5,772.00	99.4%	\$6,507.00	\$6,385.00	98.1%
New Jersey Institute Technology	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$1,037.00	\$663.00	63.9%
New Mexico State University, (all)	\$3,271	\$2,912	89.0%	\$1,767	\$1,570	88.9%	\$1,265.00	\$1,137.00	89.9%	\$2,517.00	\$2,276.00	90.4%	\$1,409.00	\$1,186.00	84.2%
North Carolina State University at Raleigh	\$1,481	\$1,320	89.1%	\$8,778	\$4,402	50.1%	\$7,076.00	\$4,020.00	56.8%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Northeastern Illinois University	\$7	\$7	100.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Northern Arizona University	\$187	\$150	80.2%	\$40	\$0	0.0%	\$9.00	\$0.00	0.0%	\$49.00	\$49.00	100.0%	\$1.00	\$1.00	100.0%
Oberlin College	\$0	\$0	n/a	\$0	\$0	n/a	\$7.00	\$7.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Oklahoma State University, (all)	\$15	\$15	100.0%	\$224	\$108	48.2%	\$677.00	\$240.00	35.5%	\$172.00	\$12.00	7.0%	\$192.00	\$171.00	89.1%
Old Dominion University	\$35	\$35	100.0%	\$74	\$0	0.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Oregon Graduate Institute of Science & Tech	\$742	\$708	95.4%	\$592	\$469	79.2%	\$613.00	\$495.00	80.8%	\$715.00	\$461.00	64.5%	\$0.00	\$0.00	n/a
Oregon State University	\$1,590	\$1,525	95.9%	\$1,467	\$1,408	96.0%	\$1,849.00	\$1,753.00	94.8%	\$1,489.00	\$1,412.00	94.8%	\$1,424.00	\$1,370.00	96.2%
Pennsylvania State U, (all)	\$5,959	\$4,088	68.6%	\$6,209	\$4,303	69.3%	\$4,958.00	\$3,334.00	67.2%	\$7,599.00	\$3,616.00	47.6%	\$8,587.00	\$3,989.00	46.5%
Portland State University	\$158	\$153	96.8%	\$121	\$119	98.3%	\$108.00	\$108.00	100.0%	\$176.00	\$98.00	55.7%	\$36.00	\$12.00	33.3%
Princeton University	\$2,245	\$1,783	79.4%	\$2,636	\$2,046	77.6%	\$2,975.00	\$2,185.00	73.4%	\$2,749.00	\$2,143.00	78.0%	\$3,568.00	\$3,071.00	86.1%
Purdue University, (all)	\$1,468	\$946	64.4%	\$1,507	\$929	61.6%	\$1,419.00	\$906.00	63.8%	\$1,427.00	\$930.00	65.2%	\$1,378.00	\$876.00	63.6%
Radcliffe College	\$80	\$80	100.0%	\$88	\$87	98.9%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Reed College	\$0	\$0	n/a	\$14	\$13	92.9%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Rutgers the State Univ of NJ, (all)	\$12	\$0	0.0%	\$47	\$0	0.0%	\$72.00	\$0.00	0.0%	\$117.00	\$41.00	35.0%	\$700.00	\$225.00	32.1%
Sam Houston State University	\$0	\$0	n/a	\$5	\$0	0.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
San Francisco State University	\$0	\$0	n/a	\$41	\$34	82.9%	\$45.00	\$42.00	93.3%	\$45.00	\$42.00	93.3%	\$0.00	\$0.00	n/a
San Jose State University	\$906	\$714	78.8%	\$906	\$714	78.8%	\$906.00	\$714.00	78.8%	\$1,403.00	\$1,160.00	82.7%	\$737.00	\$545.00	73.9%
Savannah State University	\$0	\$0	n/a	\$1	\$1	100.0%	\$2.00	\$2.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
South Dakota School of Mines & Technology	\$2,586	\$1,712	66.2%	\$2,298	\$1,796	78.2%	\$2,857.00	\$2,125.00	74.4%	\$3,182.00	\$1,904.00	59.8%	\$3,386.00	\$1,663.00	49.1%
Southeast Missouri State University	\$0	\$0	n/a	\$1	\$1	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Southwest Texas State University	\$30	\$2	6.7%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
SUNY at Albany	\$6,152	\$2,619	42.6%	\$6,443	\$2,991	46.4%	\$6,231.00	\$3,207.00	51.5%	\$7,226.00	\$3,362.00	46.5%	\$5,693.00	\$2,961.00	52.0%

Appendix Table 3: Financing for Atmospheric Science R&D by Institution, 1998-2002

(Dollars in Thousands)

Academic Institution	1998			1999			2000			2001			2002		
	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal
SUNY at Buffalo, (all)	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$153.00	\$114.00	74.5%	\$3.00	\$3.00	100.0%
SUNY at Stony Brook, (all)	\$2,171	\$1,648	75.9%	\$2,058	\$1,804	87.7%	\$1,729.00	\$1,326.00	76.7%	\$1,599.00	\$1,318.00	82.4%	\$2,175.00	\$1,620.00	74.5%
SUNY College of Env. Sci & Forestry	\$1,267	\$39	3.1%	\$1,478	\$41	2.8%	\$1,557.00	\$46.00	3.0%	\$1,588.00	\$48.00	3.0%	\$1,476.00	\$51.00	3.5%
SUNY Purchase College	\$70	\$70	100.0%	\$146	\$146	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$64.00	\$64.00	100.0%
Texas A&M University Corpus Christi	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$70.00	\$31.00	44.3%	\$0.00	\$0.00	n/a
Texas A&M University Kingsville	\$0	\$0	n/a	\$0	\$0	n/a	\$32.00	\$0.00	0.0%	\$36.00	\$0.00	0.0%	\$0.00	\$0.00	n/a
Texas A&M University, (all)	\$2,702	\$2,201	81.5%	\$3,712	\$2,644	71.2%	\$4,210.00	\$2,675.00	63.5%	\$4,103.00	\$2,361.00	57.5%	\$4,199.00	\$2,482.00	59.1%
Texas Tech University	\$26	\$0	0.0%	\$44	\$0	0.0%	\$43.00	\$0.00	0.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Tufts University	\$0	\$0	n/a	\$1,089	\$59	5.4%	\$1,286.00	\$116.00	9.0%	\$826.00	\$93.00	11.3%	\$1,013.00	\$175.00	17.3%
University of AK Fairbanks, (all)	\$1,171	\$1,171	100.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$12,097.00	\$11,700.00	96.7%	\$37,545.00	\$23,650.00	63.0%
University of AK Southeast	\$2	\$2	100.0%	\$3	\$3	100.0%	\$3.00	\$3.00	100.0%	\$3.00	\$3.00	100.0%	\$6.00	\$6.00	100.0%
University of Alabama in Huntsville	\$5,177	\$4,165	80.5%	\$5,287	\$4,198	79.4%	\$5,241.00	\$4,261.00	81.3%	\$5,772.00	\$4,650.00	80.6%	\$7,003.00	\$5,166.00	73.8%
University of Arizona	\$4,146	\$2,559	61.7%	\$4,308	\$2,625	60.9%	\$3,203.00	\$1,790.00	55.9%	\$3,704.00	\$2,237.00	60.4%	\$3,494.00	\$2,115.00	60.5%
University of Arkansas at Little Rock	\$0	\$0	n/a	\$0	\$0	n/a	\$43.00	\$43.00	100.0%	\$180.00	\$180.00	100.0%	\$180.00	\$180.00	100.0%
University of California-Berkeley	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$9.00	\$0.00	0.0%	\$44.00	\$0.00	0.0%
University of California-Los Angeles	\$3,929	\$3,295	83.9%	\$4,484	\$3,873	86.4%	\$4,920.00	\$4,039.00	82.1%	\$4,463.00	\$3,869.00	86.7%	\$4,245.00	\$3,370.00	79.4%
University of California-San Diego	\$5,992	\$4,374	73.0%	\$11,964	\$10,357	86.6%	\$19,052.00	\$16,918.00	88.8%	\$14,272.00	\$11,624.00	81.4%	\$9,014.00	\$6,268.00	69.5%
University of Central Arkansas	\$0	\$0	n/a	\$0	\$0	n/a	\$9.00	\$6.00	66.7%	\$12.00	\$9.00	75.0%	\$10.00	\$8.00	80.0%
University of Central Florida	\$8,353	\$2,117	25.3%	\$9,068	\$2,420	26.7%	\$8,250.00	\$1,543.00	18.7%	\$9,416.00	\$2,803.00	29.8%	\$9,238.00	\$3,543.00	38.4%
University of Chicago	\$70	\$33	47.1%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of Colorado, (all)	\$40,168	\$34,623	86.2%	\$37,859	\$32,684	86.3%	\$29,125.00	\$26,308.00	90.3%	\$15,537.00	\$14,323.00	92.2%	\$17,644.00	\$16,445.00	93.2%
University of Dayton	\$95	\$95	100.0%	\$194	\$194	100.0%	\$132.00	\$132.00	100.0%	\$1.00	\$1.00	100.0%	\$0.00	\$0.00	n/a
University of Denver	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$1,445.00	\$1,155.00	79.9%	\$0.00	\$0.00	n/a
University of Florida	\$5	\$0	0.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of Guam	\$233	\$200	85.8%	\$73	\$47	64.4%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of Hawaii at Manoa	\$797	\$606	76.0%	\$1,355	\$781	57.6%	\$1,436.00	\$1,130.00	78.7%	\$3,106.00	\$2,623.00	84.4%	\$3,545.00	\$3,091.00	87.2%
University of Houston	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$44.00	\$36.00	81.8%	\$0.00	\$0.00	n/a
University of Houston-Downtown	\$0	\$0	n/a	\$38	\$38	100.0%	\$26.00	\$26.00	100.0%	\$26.00	\$26.00	100.0%	\$0.00	\$0.00	n/a
University of Illinois at Urbana-Champaign	\$2,617	\$2,078	79.4%	\$2,727	\$2,237	82.0%	\$2,870.00	\$2,376.00	82.8%	\$2,666.00	\$2,056.00	77.1%	\$2,757.00	\$2,092.00	75.9%
University of Louisville	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$75.00	\$65.00	86.7%
University of Maine	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$13.00	\$0.00	0.0%	\$0.00	\$0.00	n/a
University of Maryland at College Park	\$6,970	\$5,710	81.9%	\$5,804	\$4,514	77.8%	\$5,196.00	\$3,863.00	74.3%	\$5,117.00	\$3,650.00	71.3%	\$5,185.00	\$4,086.00	78.8%
University of Maryland Baltimore County	\$0	\$0	n/a	\$5,442	\$4,602	84.6%	\$5,373.00	\$4,654.00	86.6%	\$10,412.00	\$9,072.00	87.1%	\$14,734.00	\$13,681.00	92.9%
University of Maryland Eastern Shore	\$7	\$7	100.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of Miami	\$18,658	\$16,672	89.4%	\$16,480	\$14,825	90.0%	\$17,357.00	\$15,663.00	90.2%	\$18,904.00	\$16,490.00	87.2%	\$18,906.00	\$16,474.00	87.1%
University of Michigan, (all)	\$12,777	\$10,610	83.0%	\$1,063	\$777	73.1%	\$160.00	\$0.00	0.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of Missouri, Columbia	\$417	\$163	39.1%	\$274	\$121	44.2%	\$251.00	\$120.00	47.8%	\$325.00	\$150.00	46.2%	\$906.00	\$81.00	8.9%
University of Missouri, Rolla	\$889	\$511	57.5%	\$459	\$220	47.9%	\$184.00	\$56.00	30.4%	\$191.00	\$66.00	34.6%	\$806.00	\$360.00	44.7%
University of Nebraska at Lincoln	\$3,818	\$2,437	63.8%	\$1,152	\$0	0.0%	\$1,068.00	\$0.00	0.0%	\$1,582.00	\$1,346.00	85.1%	\$970.00	\$968.00	99.8%
University of Nebraska at Omaha	\$0	\$0	n/a	\$741	\$581	78.4%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of Nevada-Reno	\$237	\$77	32.5%	\$93	\$81	87.1%	\$70.00	\$51.00	72.9%	\$64.00	\$49.00	76.6%	\$226.00	\$190.00	84.1%

Appendix Table 3: Financing for Atmospheric Science R&D by Institution, 1998-2002

(Dollars in Thousands)

Academic Institution	1998			1999			2000			2001			2002		
	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal	Total Academic R&D Expend	Federally Financed Academic R&D Expend	% Federal
University of New Hampshire	\$9,010	\$4,349	48.3%	\$7,303	\$3,462	47.4%	\$8,263.00	\$3,878.00	46.9%	\$10,036.00	\$4,857.00	48.4%	\$7,340.00	\$4,417.00	60.2%
University of New Mexico, (all)	\$729	\$589	80.8%	\$409	\$364	89.0%	\$500.00	\$414.00	82.8%	\$539.00	\$477.00	88.5%	\$689.00	\$616.00	89.4%
University of North Carolina at Asheville	\$269	\$163	60.6%	\$52	\$52	100.0%	\$54.00	\$54.00	100.0%	\$114.00	\$114.00	100.0%	\$134.00	\$133.00	99.3%
University of North Carolina at Wilmington	\$104	\$21	20.2%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of North Dakota, (all)	\$1,460	\$1,424	97.5%	\$1,312	\$1,270	96.8%	\$1,446.00	\$1,440.00	99.6%	\$1,281.00	\$1,278.00	99.8%	\$1,520.00	\$1,308.00	86.1%
University of Oklahoma, (all)	\$16,252	\$9,416	57.9%	\$19,028	\$11,127	58.5%	\$19,608.00	\$11,410.00	58.2%	\$21,790.00	\$12,086.00	55.5%	\$25,804.00	\$11,765.00	45.6%
University of Rhode Island	\$0	\$0	n/a	\$353	\$353	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of San Francisco	\$0	\$0	n/a	\$1	\$1	100.0%	\$2.00	\$2.00	100.0%	\$2.00	\$2.00	100.0%	\$0.00	\$0.00	n/a
University of Southern California	\$8	\$8	100.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
University of Texas - Pan American	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$12.00	\$12.00	100.0%	\$0.00	\$0.00	n/a
University of Texas at Dallas	\$0	\$0	n/a	\$0	\$0	n/a	\$1,436.00	\$1,020.00	71.0%	\$1,436.00	\$1,020.00	71.0%	\$3,801.00	\$2,991.00	78.7%
University of the District of Columbia	\$132	\$88	66.7%	\$268	\$215	80.2%	\$236.00	\$196.00	83.1%	\$144.00	\$70.00	48.6%	\$176.00	\$61.00	34.7%
University of Toledo	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$8.00	\$6.00	75.0%	\$52.00	\$20.00	38.5%
University of Utah	\$2,260	\$2,059	91.1%	\$1,785	\$1,700	95.2%	\$2,178.00	\$2,105.00	96.6%	\$2,356.00	\$2,259.00	95.9%	\$2,283.00	\$2,134.00	93.5%
University of Virginia, (all)	\$4,771	\$4,048	84.8%	\$5,590	\$4,834	86.5%	\$5,585.00	\$4,865.00	87.1%	\$5,189.00	\$4,382.00	84.4%	\$4,441.00	\$4,081.00	91.9%
University of Washington - Seattle	\$12,676	\$11,941	94.2%	\$13,069	\$12,547	96.0%	\$14,411.00	\$13,496.00	93.7%	\$16,955.00	\$15,623.00	92.1%	\$16,176.00	\$13,936.00	86.2%
University of West Florida	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$146.00	\$146.00	100.0%
University of Wisconsin-Madison	\$14,627	\$12,685	86.7%	\$14,491	\$11,908	82.2%	\$15,181.00	\$12,397.00	81.7%	\$16,355.00	\$16,355.00	100.0%	\$20,286.00	\$16,893.00	83.3%
University of Wyoming	\$3,133	\$2,345	74.8%	\$2,407	\$2,027	84.2%	\$3,962.00	\$2,106.00	53.2%	\$2,519.00	\$1,986.00	78.8%	\$2,519.00	\$1,986.00	78.8%
Utah State University	\$5,889	\$5,197	88.2%	\$5,812	\$5,407	93.0%	\$2,061.00	\$1,695.00	82.2%	\$1,865.00	\$1,470.00	78.8%	\$1,909.00	\$1,382.00	72.4%
Virginia Union University	\$21	\$21	100.0%	\$21	\$21	100.0%	\$21.00	\$21.00	100.0%	\$21.00	\$21.00	100.0%	\$21.00	\$21.00	100.0%
Wentworth Inst of Tech	\$933	\$933	100.0%	\$669	\$669	100.0%	\$452.00	\$452.00	100.0%	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
West Chester University of Pennsylvania	\$167	\$148	88.6%	\$0	\$0	n/a	\$55.00	\$46.00	83.6%	\$55.00	\$46.00	83.6%	\$0.00	\$0.00	n/a
Western Illinois University	\$382	\$338	88.5%	\$182	\$88	48.4%	\$160.00	\$39.00	24.4%	\$152.00	\$78.00	51.3%	\$94.00	\$72.00	76.6%
Western Kentucky University	\$29	\$8	27.6%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Western Michigan University	\$148	\$144	97.3%	\$35	\$25	71.4%	\$117.00	\$0.00	0.0%	\$291.00	\$0.00	0.0%	\$596.00	\$419.00	70.3%
Western Washington University	\$50	\$0	0.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Whitman College	\$3	\$3	100.0%	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a	\$0.00	\$0.00	n/a
Williams College	\$0	\$0	n/a	\$0	\$0	n/a	\$0.00	\$0.00	n/a	\$12.00	\$11.00	91.7%	\$24.00	\$21.00	87.5%
Woods Hole Oceanographic Institution	\$4,488	\$3,785	84.3%	\$4,230	\$3,416	80.8%	\$4,711.00	\$3,688.00	78.3%	\$5,207.00	\$4,101.00	78.8%	\$5,657.00	\$4,336.00	76.6%
Yale University	\$457	\$393	86.0%	\$629	\$570	90.6%	\$936.00	\$857.00	91.6%	\$755.00	\$679.00	89.9%	\$281.00	\$246.00	87.5%
Total	\$269,180	\$209,549	77.8%	\$287,859	\$222,376	77.3%	\$287,358.00	\$221,834.00	77.2%	\$300,465.00	\$232,150.00	77.3%	\$340,778.00	\$249,567.00	73.2%

Source: NSF, Webaspar database