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SCIENCE & TECHNOLOGY

50445, John

THE WHITE HOUSE
WASHINGTON

THE CHIEF of STAFF
has seen

December 21, 1990

MEMORANDUM FOR JOHN H. SUNUNU

FROM: D. ALLAN BROMLEY 
SUBJECT: Congressional Earmarks for R&D

A few days ago I told you I would send you a study identifying the earmarks made by Congress in FY 1991 appropriations for R&D items that are for particular institutions or locations and were not included in the President's budget. That study is attached.

The study identified 492 such earmarks, totaling \$809.6 million. Of these 325 (\$182.2 million) were in Agriculture, where I understand specific earmarking is customary in Congress.

In other areas, R&D earmarking seems on the rise, with 48 in Energy and between 20 to 30 each in Defense, Interior, GSA, and EPA. In Defense \$253.4 million of the "peace dividend" was applied to R&D earmarks, which were exempted from a previously enacted legal requirement for competition. Also noteworthy is the \$60.7 million in a GSA appropriation for R&D construction at 21 universities and other private institutions. As far as I know, neither GSA nor the Treasury-Post Office subcommittees, where these items originated, normally have responsibilities for such items.

The R&D earmarks have put an extra squeeze of at least \$332 million on the R&D programs as proposed in the President's budget. The most serious impacts appear likely to be in Energy and Agriculture. The other \$475 million of R&D earmarks were covered by increases in the R&D accounts, which presumably means that a corresponding squeeze was applied elsewhere in the budget.

At least 25 of the earmarks appear to call for the establishment of new centers, institutions, or other organizations. In most of these cases, continued federal support in future years seems clearly implied. Thus, this year's earmarks have put a built-in squeeze on future budgets, an effect that will be compounded as additional earmarks are made in future years.

I should emphasize that this study covered only R&D related earmarks, not all earmarks. Thus, it did not cover such items as the Lawrence Welk memorial, highway "demonstration" projects, or the \$200 million earmarked for the Weatherization program in the Energy Department.

It should also be noted that the study was based only on a review of the often meager information in the Congressional reports and bills. Therefore, it did not identify the sponsorship of the earmarks and does not provide a basis for judgments on the merits of the earmarked items or on the motivations of the earmarking. A case-by-case review with agency or Congressional staff directly involved would be needed to determine to what degree each earmark was (1) a response to advocacy by an institution, (2) a parochial initiative in Congress, or (3) a recognition by Congress of a significant national or programmatic need.

If you would wish such a sponsorship analysis, it will take a little time, but we will be happy to produce it for you.

Attachments

Shapley/Bromley memorandum of December 17, 1990, with Tables I, II and III and separate tabulation

cc: Richard G. Darman

December 17, 1990

MEMORANDUM FOR D. ALLAN BROMLEY

FROM: WILLIS H. SHAPLEY

SUBJECT: Analysis of Congressional Actions on R&D for FY 1991

As requested, I have reviewed Congressional actions on R&D items for FY 1991, as shown in the pertinent Congressional reports and bills, to quantify the actions on funds appropriated for R&D and to identify Congressional "earmarks" for R&D items not included in the President's budget.

A. Summary of Data

The results of the review are summarized in Table I, with details given in Tables II and III, and a separate tabulation. These materials show that:

- 1) The net impact of Congressional appropriations actions on the \$71.2 billion identified by OMB for R&D in the FY 1991 budget was a reduction of about \$2.6 billion, of which \$2.2 billion was the net reduction in DOD R&D activities. On the non-defense side, reductions for NASA (\$1.1 billion) and NSF (\$.1 billion) were offset in part by increases for HHS (\$.4 billion), Agriculture (\$.1 billion), and various other agencies (\$.3 billion). The analysis reflects explicit Congressional actions on identifiable R&D items covering 92% of the OMB total. Details are shown in Table II. The AAAS analysis, subsequently received, comes to almost exactly the same total, although there are differences in the amounts estimated for individual agencies.
- 2) In the appropriation process, Congress earmarked a total of \$809.6 million for R&D items for specific institutions or locations, the largest amounts being in Agriculture, DOD, and Energy. As shown in Table III, a total of 492 such earmarks were identified, of which 325 were in Agriculture, 48 in Energy, and 28 in DOD. On the basis of the often meager explanations given, 111 earmarks have been classified as for construction or provision of facilities and 381 for R&D operations. A total of 65 of the earmarks were specified in the appropriations bills; the other 381 appeared in appropriations committee reports only. Table III-B shows the number and amounts of the earmarks made by the various appropriations subcommittees. The earmarks identified are listed in detail in the separate tabulation.

B. Some Qualifications

With respect to the earmarks listed, it should be noted that:

- 1) The list excludes (1) programmatic earmarks not pointed at particular institutions or locations; (2) earmarks to established federal and national laboratories; (3) earmarks for non-R&D related purposes (e.g., DOE Weatherization); and (4) "invisible" earmarks communicated by Congress to the agencies in ways other than the appropriation bills or reports.
- 2) The list includes (1) earmarks for R&D operations as well as for construction of facilities; (2) earmarks for on-going activities and for new activities specifically authorized by law where the budget recommended no funding; and (3) earmarks where a specific institution or location appears to be implied although not named.
- 3) In many cases the reports do not characterize the earmarks fully by location, institution, and type of activity; therefore, more or less arbitrary judgments have been necessary in classifying them for analysis.
- 4) The data available do not support judgments on the merits of the earmarks or on the motivations for the earmarking. Without a case-by-case review with agency or Congressional staff directly involved, it is not possible to determine to what degree each earmark was (1) a response to advocacy by an institution, (2) a parochial initiative in Congress, or (3) a recognition by Congress of a significant national or programmatic need.

C. Analysis

The following points emerge from analysis of the data on earmarks:

- 1) Academic Institutions can be identified as the beneficiaries of only about half of the earmarks. Excluding the 271 Agriculture operations earmarks (where the data do not reliably identify academic recipients), there are 221 earmarks totalling \$724.4 million for operations and facilities, of which only 101 (\$348.1 million) are for academic institutions. The other recipients include non-profit institutions, and private, state, local, and cooperative federal-state entities.

For facilities earmarks only, the ratio is somewhat higher. Including those in Agriculture, academic institutions received 67 (\$276.3 million) out of the total of 111 (\$427.5 million). The agency breakdown of the 67 is 30 Agriculture, 15 G.S.A., 13 DOE, 7 DOD, and 2 all others.

- 2) Major science programs: There were no earmarks in most of the major programs supporting science in universities, including NSF, NIH, DOE General Science, NASA, and the Agriculture competitive grants program. The exceptions are the DOE Basic Energy Sciences, Biological and Environmental

Research, and other Energy Supply programs (33 earmarks) and the DOD University Research Initiative (7 earmarks).

- 3) **Trends:** Although comparable data for prior years is not available, it is apparent that there was a significant increase in Congressional earmarking in the FY 1991 appropriations. The study of FY 1990 earmarks by James Savage covered academic earmarks only; his total (excluding all Agriculture) of 34 in FY 1990 appears generally comparable to our corresponding figure of 71 for FY 1991, with the major increases taking place in DOE, DOE and GSA.

This and other evidence indicate a major change this year in Congressional practices with respect to R&D earmarks, especially in three subcommittee areas (see Table III-B). The Energy and Water Resources subcommittees abandoned the relative restraint shown last year and made a total of 33 earmarks. The Defense subcommittees made 28 earmarks and specifically exempted them from previously enacted legislative requirements for competition. The Treasury-Post Office subcommittees inserted funding for 21 earmarks for R&D construction at non-federal institutions into the appropriation of the General Services Administration which normally provides only for construction of federal office buildings. The Veterans-HUD subcommittees appear to have made more earmarks than usual for EPA and for the first time made a few for NASA, in its construction account. It is not clear whether earmarking is on the rise in the Agriculture and Interior subcommittees or if the FY 1991 earmarks are simply a continuation of their normal practices.

- 4) **Impacts:** In general it can be said that any earmarks within a constrained total put a corresponding squeeze on the agency's overall program. But it is a matter of speculation, or at least for specific inquiry in each case, whether if the earmarks had not been made, more money would have been made available for the R&D programs proposed in the budget. The budgetary impacts of Congressional action on R&D programs can be the combined result of three factors: (1) specific reductions or increases in the program as proposed, (2) squeezes by general reductions in appropriations, and (3) squeezes by earmarks of many sorts, including earmarks for technical programs or disciplines and for non-R&D programs, as well as the institution/location earmarks discussed in this report.

Analysis of our data cannot isolate the impact of these earmarks from other factors, but it can indicate some areas of greater or lesser apparent impact. The figures in Table II enable one to compare, for each program area, the amounts earmarked with the net change made by Congress in the FY 1991 budget. To the extent Congress has provided a net increase over the budget for R&D, the squeeze has been applied elsewhere in the budget and the earmarks can be said to have been covered by "new money." To the extent that increases fall short of the amounts earmarked, and in all cases where Congress has reduced the budget, the impact is a squeeze on the R&D budget which the agency will have to find ways to absorb.

On this basis, R&D earmarks totaling \$283.1 million appear to have been covered with "new money" in the cases of Defense Agencies' RDT&E, DOE Fossil Fuels, NOAA, Interior, HHS, GSA, and the "all other CSRS" category in Agriculture. Earmarks totalling \$403.4 million in DOE Energy Supply R&D, EPA, and Agriculture appear to have been partially covered by \$208.9 million in budget increases, so that the squeeze on them could be as little as \$194.5 million. In the few cases where earmarks were made in programs reduced by Congress, such as in RDT&E in the three military departments and NASA construction, the squeeze will be the full amount of the earmarks.

In total, by this analysis, the impact on R&D budgets of the \$809.6 million of earmarks will be squeezes totaling at least \$332.0 million. The squeezes will be greater to the extent that agencies with budget increases are not able to apply the increases as offsets to their earmarks, and could be less to the extent they are able to accept earmarked items as adequate substitutes for programs in the budget.

From all indications, the most serious budgetary impacts would appear to be in the DOE programs budgeted under Energy Supply R&D, in the Agricultural Research Service and the Forest Service. In the other cases the earmarked amounts are a relatively small percent of the total available and can probably be absorbed without serious dislocations. Direct discussions with the responsible officials in the agencies would be necessary to assess the actual impacts in each case.

D. Implications and Concerns

- 1) There are likely to be more rather than fewer R&D earmarks for institutions and locations in future years. Their natural political appeal, the precedents set this year, and the absence of disincentives to Congress point to continued and perhaps expanded use of earmarks, both for new projects and to protect existing projects threatened by overall budget limitations. Establishment of an enlarged formal competitive program for academic research facilities, as has been suggested, might take some pressure off Congress for direct appropriations, but could also whet Congressional interest in participating in or supplementing the allocation process.
- 2) The FY 1991 earmarks include about 25 cases where it is indicated that new centers, institutes, or other entities are to be established. In most (not all) of these cases continued federal support in future years seems clearly implied. Most of the operations earmarks also imply continuing support in future years. Thus this year's earmarks have put a built-in squeeze on future year budgets, an effect that will be compounded as additional earmarks are made each year.
- 3) Over half of the 28 DOD earmarks are for initiatives in broad technology, manufacturing, and other areas that appear to be responses to general national economic and other concerns perhaps more than to identified DOD needs. Granting a valid DOD interest in advanced technology, and some of the other

areas, one can still question whether the DOD budget should become the vehicle for federal support in these areas, especially through the random operation of the earmarking process.

Attachment

Tables I, II and III

TABLE I
CONGRESSIONAL ACTION ON R&D IN THE FY 1991 BUDGET
Summary
(in millions)

Agency	90 Comp.	91 Budget	by Congress	91 Cong.	Cong. Earmarks
Defense	37,864.8	39,171.8	-2,200.4	36,971.4	253.4
Energy	7,162.4	7,382.7	+2.8	7,385.5	185.5
Commerce	439.3	459.1	+28.0	487.1	14.4
Interior	521.5	498.5	+72.1	570.6	17.5
EPA	431.0	479.2	+61.1	540.3	66.9
Health & Human Serv.	8,582.8	9,029.8	+433.5	9,463.3	3.4
Education	162.0	164.7	-.8	163.9	7.6
NASA	7,231.8	9,259.8	-1,069.4	8,190.4	18.0
NSF	1,885.2	2,135.9	-127.8	2,008.1	-
Smithsonian	93.0	105.0	-1.3	103.7	-
General Services Admin.	NA	-0-	+60.7	60.7	60.7
Agriculture	1,226.0	1,287.0	+129.4	1,416.4	182.2
Housing & Urban Dev.	19.5	47.1	-19.5	27.6	-
Transportation	360.3	439.3	+21.0	460.3	-
Veterans	220.2	206.2	+18.3	224.5	-
All Other	534.2	532.9	-0-	532.9	-
TOTAL	66,734.0	71,199.0	-2,592.3	68,606.7	809.6

TABLE II

CONGRESSIONAL ACTION ON R&D IN THE FY 1991 BUDGET
Detail by Major Identifiable Programs
(in millions)

Agency & Program	90 Comp.	91 Budget	by Congress	91 Cong.	Cong. Earmarks
<u>Defense</u>					
RDT&E, Army	5,354.5	6,025.9	-418.5	5,607.4	6.1
RDT&E, Navy	9,739.2	9,102.4	-64.7	9,037.7	44.9
RDT&E, Air Force	13,635.6	13,276.3	-1,315.0	11,961.3	37.9
RDT&E, Defense Ag:					
SDIO	3,573.0	4,195.0	-1,305.0	2,890.0	-
Other	4,540.0	5,054.3	+1,171.4	6,225.7	164.5
Dev T&E + Op T&E	190.9	+38.9	-186.2	252.7	-
Total RDT&E Accounts	37,033.2	38,092.8	-2,118.0	35,974.8	253.4
RDT&E, Chem Agts. Des.	8.0	-0-	+5.3	5.3	-
RDT&E, Drug Interdict.	10.4	20.3	+27.4	47.7	-
Mil. Construc. R&D Items	NA	286.7	-93.1	193.6	-
Total Iden. R&D	37,051.6	38,399.8	-2,178.4	36,221.4	253.4
Adj to OMB basis	813.2	772.0	-22.0	750.0	-
TOTAL DOD R&D	37,864.8	39,171.8	-2,200.4	36,971.4	253.4
<u>Energy</u>					
Fossil Fuels	344.7	167.1	+221.0	388.1	11.6
Clean Coal	-	100.0	-65.0	35.0	-
Energy Conservation	191.2	182.6	-46.3	228.9	7.4
Ener. Supp. Res. Dev.	1,796.7	1,922.9	+50.6	1,973.5	166.5
Gen. Science & Res.	1,098.8	1,273.7	-125.0	1,148.7	-
Natl. Def. Activities	2,718.1	2,710.6	-125.1	2,585.5	-
Total Iden. R&D	6,149.5	6,356.9	+2.8	6,359.7	185.5
Adj to OMB basis	1,012.9	1,025.8	-0-	1,025.8	-
TOTAL DOE R&D	7,162.4	7,382.7	+2.8	7,385.5	185.5

Agency & Program	90 Comp.	91 Budget	by Congress	91 Cong.	Cong. Earmarks
<u>Commerce</u>					
NOAA	250.9	273.4	+26.4	299.8	13.4
NIST	144.4	164.6	+1.6	166.2	-
Total Iden. R&D Adj to OMB basis	395.3 +44.0	438.0 +21.1	+28.0 -0-	466.0 21.1	13.4 1.0
TOTAL DOC R&D	439.3	459.1	+28.0	487.1	14.4
<u>Interior</u>					
USGS	283.5	305.2	+28.3	333.5	.1
Bur. of Mines	111.2	78.0	+34.2	112.2	14.1
Fish & Wildlife	70.9	69.1	+9.6	78.7	3.3
Total Iden. R&D Adj to OMB basis	465.6 +55.9	452.3 +46.2	+72.1 -0-	524.4 +46.2	17.5 -
TOTAL DOI R&D	521.5	498.5	+72.1	570.6	17.5
<u>EPA</u>					
Research & Develop. Adj to OMB basis	229.8 201.2	249.0 230.2	+5.9 +55.2	254.9 285.4	9.3 57.6
TOTAL EPA R&D	431.0	479.2	+61.1	540.3	656.9

Agency & Program	90 Comp.	91 Budget	by Congress	91 Cong.	Cong. Earmarks
<u>Health & Human Services</u>					
NIH	7,289.7	7,636.4	+364.0	8,000.4	-
ADAMHA	741.9	813.2	+52.8	866.0	-
CDC-NIOSH	74.2	74.7	+12.8	87.5	-
Policy Research	5.0	5.0	+3.9	8.9	3.2
Total Iden. R&D	8,110.8	8,529.3	+433.5	8,962.8	3.2
Adj to OMB basis	472.0	500.5	-0-	500.5	.2
TOTAL HHS R&D	8,582.8	9,029.8	+433.5	9,463.3	3.4
 <u>Education</u>					
Research Eval. etc.	50.6	61.3	-.8	60.5	-
Adj to OMB basis	111.4	103.4	-0-	103.4	7.6
TOTAL DEd R&D	162.0	164.7	-.8	163.9	7.6
 <u>NASA</u>					
Research & Develop.	5,227.8	7,074.0	-1,041.4	6,032.6	-
Adj to OMB basis	2,004.0	2,185.8	-28.0	2,157.8	18.0
TOTAL NASA R&D	7,231.8	9,259.8	-1,069.4	8,190.4	18.0

Agency & Program	90 Comp.	91 Budget	by Congress	91 Cong.	Cong. Earmarks
<u>NSF</u>					
Research & Rel. Act.	1,702.4	1,954.0	-249.3	1,704.7	-
Program Dev. & Man	-	-	+101.0	101.0	-
Academic Res. Fac.	19.7	-	+20.5	20.5	-
US Antarctica Prog.	72.0	100.0	-0-	100.0	-
Total Iden. R&D	1,774.4	2,054.0	-127.8	1,926.2	-
Adj to OMB basis	110.8	81.9	-0-	81.9	-
TOTAL NSF R&D	1,885.2	2,135.9	-127.8	2,008.1	-
<u>Smithsonian</u>					
Research	43.8	51.0	-1.3	49.7	-
Const.-R&D Items	1.9	1.6	-	1.6	-
Total Iden. R&D	45.7	52.6	-1.3	51.3	-
Adj to OMB basis	47.3	52.4	-	52.4	-
TOTAL Smithsonian R&D	93.0	105.0	-1.3	103.7	-
<u>General Services Admin.</u>					
New Const.-R&D Items	NA	-0-	+60.7	60.7	60.7

Agency & Program	90 Comp.	91 Budget	by Congress	91 Cong.	Cong. Earmarks
<u>Agriculture</u>					
Agricultural Res. Serv.	596.8	656.1	+9.0	665.1	28.4
Cooperative State Res.	337.7	346.9	+41.6	388.5	53.6
Special Grants	(55.8)	(25.6)	(+36.4)	(62.0)	(41.4)
Competing Grants	(42.5)	(100.0)	(-27.0)	(73.0)	(-)
All other CSRS Res.	(239.4)	(221.3)	(+32.2)	(253.5)	(12.2)
Buildings & Fac.(CSRS)	45.1	-0-	+62.9	62.9	62.9
Forest Service	145.2	148.7	+17.8	166.5	37.3
Economic Res. Serv.	50.6	56.3	-1.9	54.4	-
Total Iden. R&D Adj to OMB basis	1,175.4 +50.6	1,208.0 +79.0	+129.4 -0-	1,337.4 +79.0	182.2 -
TOTAL USDA R&D	1,226.0	1,287.0	+129.4	1,416.4	182.2
<u>Housing & Urban Devel.</u>					
Research & Technology Adj to OMB basis	20.4 -9	23.0 +24.1	+5.5 -25.0	28.5 -9	- -
TOTAL HUD R&D	19.5	47.1	-19.5	27.6	-
<u>Transportation</u>					
FAA Res. Eng. & Dev.	170.2	190.0	+15.0	206.0	-
Coast Guard RDT&E	20.5	23.0	+2.0	25.0	-
Railroad R&D	9.5	17.0	+5.1	22.1	-
FHA Highway Saf R&D	6.1	5.5	-	5.5	-
Transp. Planning R&D	6.7	4.0	-1.1	2.9	-
Total Iden. R&D Adj to OMB basis	213.0 147.3	239.5 199.8	-21.0 -0-	260.5 199.8	- -
TOTAL DOT R&D	360.3	439.3	+21.0	460.3	

Agency & Program	90 Comp.	91 Budget	by Congress	91 Cong.	Cong. Earmarks
<u>Veterans</u>					
Medical & Prosth. Res. Adj to OMB Basis	212.7 7.5	198.5 7.7	+18.3 -0-	216.8 7.7	- -
TOTAL DVA R&D	220.2	206.2	+18.3	224.5	-
<u>Totals Above</u>					
R&D Identified Adj to OMB basis	61,122.6 5,077.2	65,336.2 5,329.9	-2,572.5 -19.8	62,763.7 5,310.1	725.2 84.4
Total R&D Other Agencies R&D	66,199.8 534.2	70,666.1 532.9	-2,592.3 -0-	68,073.8 532.9	809.6 -0-
GRAND TOTAL R&D	66,734.0	71,199.0	-2,592.3	68,606.7	809.6
<u>National Defense R&D</u>					
DOE Natl Def Act R&D Adj to OMB basis	2,718.1 461.2	2,710.6 609.9	-125.1 -0-	2,585.5 609.9	- -
Natl Def R&D, DOE Total DOD R&D	3,179.3 37,864.8	3,320.5 39,171.8	-125.1 -2,200.4	3,195.4 36,971.4	- 253.4
TOTAL NATL DEF R&D	41,044.1	42,492.3	-2,325.5	40,166.8	253.4
NON DEFENSE R&D	25,689.9	28,706.7	-266.8	28,439.9	556.2
GRAND TOTAL R&D	66,734.0	71,199.0	-2,592.3	68,606.7	809.6

TABLE III**CONGRESSIONAL EARMARKS OF R&D ITEMS
FOR SPECIFIC INSTITUTIONS OR LOCATIONS
BY 1991 APPROPRIATIONS****A - BY AGENCY**
(in millions)

Agency	Facilities		Operations		Total		In Law	Repts. Only
	No.	Amt.	No.	Amt.	No.	Amt.		
Defense	8	106.5	20	146.9	28	253.4	16	12
Energy	15	104.1	33	81.4	48	185.5	16	32
Commerce	2	3.0	12	11.4	14	14.4	4	10
Interior	2	.8	23	16.7	25	17.5	-	25
EPA	4	37.2	16	29.7	20	66.9	1	19
HHS	1	.2	1	3.2	2	3.4	1	1
Education	-	-	5	7.6	5	7.6	5	-
NASA	4	18.0	-	-	4	18.0	1	3
NSF	-	-	-	-	-	-	-	-
Smithsonian	-	-	-	-	-	-	-	-
GSA	21	60.7	-	-	21	60.7	21	-
Agriculture	54	97.0	271	85.2	325	182.2	-	325
TOTAL	111	427.5	381	382.1	492	809.6	65	427

B - BY SUBCOMMITTEE
(in millions)

Subcommittee & Agency	Facilities		Operations		Total		In Law	Repts. Only
	No.	Amt.	No.	Amt.	No.	Amt.		
<u>Defense:</u>								
Defense	8	106.5	20	146.9	28	253.4	16	12
<u>Energy & Water Res:</u>								
Energy (part)	15	104.1	18	62.4	33	166.5	11	22
<u>Commerce, Justice, State, Etc.:</u>								
Commerce	2	3.0	12	11.4	14	14.4	4	10
<u>Interior & Rel Agen:</u>								
Interior	(2)	(.8)	(23)	(16.7)	(25)	(17.5)	-	(25)
Energy (part)	-	-	(15)	(19.0)	(15)	(19.0)	(5)	(10)
Agri. Forest Serv.	(5)	(17.1)	(88)	(20.2)	(93)	(37.3)	-	(93)
Total	7	17.9	126	55.9	133	73.8	5	128
<u>Veterans, HUD-Ind:</u>								
EPA	(4)	(37.2)	(16)	(29.7)	(20)	(66.9)	(1)	(19)
NASA	(4)	(18.0)	-	-	(4)	(18.0)	(1)	(3)
NSF	-	-	-	-	-	-	-	-
Total	8	55.2	16	29.7	24	84.9	2	22
<u>Labor, HHS, Educ.:</u>								
HHS	(1)	(.2)	(1)	(3.2)	(2)	(3.4)	(1)	(1)
Education	-	-	(5)	(7.6)	(5)	(7.6)	(5)	-
Total	1	.2	6	10.8	7	11.0	6	1
<u>Treasury, Post Off.:</u>								
GSA	21	60.7	-	-	21	60.7	21	-
<u>Agriculture:</u>								
Agriculture (part)	49	79.9	183	65.0	232	144.9	-	232
TOTAL	111	427.5	381	382.1	492	809.6	65	427

**CONGRESSIONAL EARMARKS OF R&D ITEMS
FOR SPECIFIC INSTITUTIONS OR LOCATIONS
FY 1991 APPROPRIATIONS**

<u>Agencies</u>	<u>Page</u>
Department of Defense	1
Department of Energy	6
Department of Commerce	12
Department of the Interior	14
Environmental Protection Agency	17
Department of Health & Human Services	20
Department of Education	21
National Aeronautics and Space Administration	22
National Science Foundation	23
Smithsonian Institution	23
General Services Administration	23
Department of Agriculture	26

**CONGRESSIONAL EARMARKS OF R&D ITEMS
FOR SPECIFIC INSTITUTIONS OR LOCATIONS
FY 1991 APPROPRIATIONS**

(Amounts in Millions; L = in law, R = in report(s) only;
H, S, C = House, Senate, Conference Report for
the applicable Appropriations Bill--see citations in Appendix B;
* = Facilities item)

Item	Location	State	Amount	L/R	Ref
DEPARTMENT OF DEFENSE					
<u>RD T&E Army:</u>					
1. Dev. & implement "Rapid Acquisition of Spare Parts" (RASP)	Letterkenny Army Depot	PA	3.2	R	H-194
2. Environmental Quality Technology	Natick Res. Dev. & Eng. Cntr.	MA	2.9	R	C-102
<u>RD T&E Navy:</u>					
3. Grant to continue R&D at Natl. Cntr. for Physical Acoustics" on ocean acoustics, etc.	Mississippi Resource Development Corp.	MS	1.0	L	C-104
4. For "Competitive Technologies, Inc." for efforts on ship-building design, etc.	Lehigh University	PA	24.0	L	C-104

Item	Location	State	Amount	L/R	Ref
5. Grant to Univ. of Hawaii	U.H., Manoa	HI	6.0	L	C-9
6. Grant to Univ. of Utah	U.U., Utah	UT	8.9	L	C-9
7. For a "Cntr. of Excellence in Composites Mfg. Tech.	Not specified	?	5.0	R	C-107
8. Allocate full amt. requested for Naval Biodynamics Lab (NBDL)	Not identified	?	?	R	H-181
9. Forbid reducing annual work- load at Naval Blood Research Lab	Boston	MA	?	R	H-181
<u>RD T&E, Air Force:</u>					
10. For the "Natl. Cntr. for Manufacturing Sciences" program in House Auth. Rpt.	Not identified	?	30.0	L	H-217, C-112
11. For establishing a "Cntr. for Tool & Die Manufacture"	Toledo	OH	5.0	R	H-217
12. For continued support of the "Cntr. of Excellence for Adv. Flexible Mfg. Syst."	Not identified	?	2.9	R	H-217, C-112

Item	Location	State	Amount	L/R	Ref
<u>RD T&E Def. Agencies:</u> <u>"University Research Init." earmarks:</u>					
*13. Grant or Contract with a univ. for a facility for collaborative med. research & training of military personnel	Not specified	?	18.0	L	H-222-3, C-116
14. Grant to establish an "Institute for Technology & Adv. Res." at an institution of higher ed.	Not specified	?	10.0	L	C-10, C-114
*15. Grant for facilities & equipment for "Center for Technology & Applied Research"	U. of Scranton	PA	10.0	L	C-10-11, C-114
*16. For a facility under the College of Pharmacy & Health Sciences	Drake Univ.	IA	10.0	L	H-223, C-114
17. For establishment of a "Materials Research Center"	Not specified	?	5.0	L	H-223, C-114
*18. Grant to complete the "Center for Advanced Information & Resource Management"	Loyola College	?	3.5	L	H-223, C-115
19. Est. by DoD of an "Experimental Program to Stimulate Competitive Research" (EPSCoR)	Various	?	7.0	L	H-223, C-114

Item	Location	State	Amount	L/R	Ref
<u>"Research Projects" earmarks:</u>					
20. For establishment of a "Coal Utilization Cntr." with DOE and "at least one univ."	Universities TBD	?	5.0	L	H-229, C-119
21. For a grant to the "Liberty Science Center"	Not identified	?	15.0	L	H-229, C-119
*22. For an "Environmental & Molecular Sciences Lab" (EMSL)	Not specified	?	20.0	R	C-119
<u>Other earmarks:</u>					
23. Grant to the "Advanced Manufacturing Institute"	Stevens Inst. of Tech.	NJ	6.0	L	C-11
*24. Grant from "Defense Research Sciences" funds to construct, equip, & operate a ferrochromium processing facility	South Carolina Research Authority	SC	10.0	L	C-11
25. Support for "Natl. Defense Center for Environ. Excellence	Natl. Def. Environmental Corporation	?	5.0	R	H-72
*26. Establishment of an "Arctic region supercomputing center" for research on "the issue of global environmental change"	"An institution engaged in DoD research located within the Arctic region"	AK	25.0	R	S-235, C-119

Item	Location	State	Amount	L/R	Ref
*27. For a "Critical Technology Institute" to assist OSTP	Not specified	?	5.0	R	S-235, C-116
*28. Secy of Defense "to give high priority" to construction of a lab for univ. research and accessible by a number of companies "to develop manufacturing ability in advanced materials"	Not specified	?	10.0	R	S-226

TOTAL R&D EARMARKS IDENTIFIED, DoD
In Law (L)
In Reports only (R)

253.4
(169.4)
(84.0)

Item	Location	State	Amount	L/R	Ref
DEPARTMENT OF ENERGY					
<u>Fossil Fuels R&D:</u>					
1. Grant to the "Natl. Res. Cntr. for Coal & Energy"	Not identified	?	2.5	L	C-13&63
2. Matching grant for "Univ. of North Dakota Energy & Environmental Res. Cntr." (UNDEERC)	Not specified	ND	2.0	L	C-13&63
3. Alcohol catalysts project by West Virginia Univ. jointly with industry	Morgantown	WVA	1.0	R	C-61
4. Oil recovery technology by New Mexico Tech & Stanford	_____ and Stanford	NM CA	.5	R	C-61
5. Purchase supercomputer time from Univ of Nevada-Las Vegas	Las Vegas	NE	1.82	R	C-62
6. For the Historically Black Colleges for university coal research	Not specified	?	.5	R	C-62
7. Tar sands research at the Univ. of Utah	Salt Lake City (?)	UT	1.0	R	S-118, C-60

Item	Location	State	Amount	L/R	Ref
8. Hawaiian energy study	Not specified	HI	.75	R	S-114,
9. Existing coop. program at the Univ. of Illinois	Champaign (?)	IL	1.5	R	C-60 H-117
<u>Energy Conservation R&D:</u>					
10. Est. of a "Natl. Metal Casting Res. Institute" at the Univ. of Northern Iowa	_____	IA	1.0	L	C-14&64
11. Est. of a "Natl. Metal Casting Res. Institute" at the Univ. of Alabama	_____	AL	1.0	L	C-14&64
12. Grant to the "Natl. Cntr. for Alternative Transportation Fuels"	Not identified	?	2.25	L	C-14&65
13. "For the Univ. of Oregon and Florida Solar Energy Center consortium" industrialized housing program	_____ _____	OR FL	1.5	R	C-64
14. Hawaiian methanol fuels program	Not specified	HI	1.5	R	C-64
15. For "an energy efficient design at the Oregon Art Institute	Not identified	OR	.175	R	C-64

Item	Location	State	Amount	L/R	Ref
<u>Energy Supply Research & Development:</u> (Law earmarks \$89,842,500 for facilities items #16 through #25 below)	See below	-	89.8	L	C-83
*16. Advanced Technology Center	Indiana State Univ.	IN	(4.8)	L	C-83
*17. Center for Energy Resources Management	Univ. of New Orleans	LA	(10.0)	L	C-83
*18. Biomedical Res. Facility, Univ. of Alabama	Birmingham	AL	(10.0)	L	C-83
*19. Biomedical Res. Facility, Case Western Reserve Univ.	Cleveland	OH	(10.0)	L	C-83
*20. Energy Science Res. Facility	Boston College	MA	(10.0)	L	C-83
*21. Center for Nuclear Med. Res.	West. Virginia Univ.	WVA	(10.0)	L	C-83
*22. Gages Cardiac Res. Inst., Med. Univ. of South Carolina	Charleston	SC	(6.0)	L	C-83
*23. Biomed. Res. Institute, LSU	Shreveport	LA	(12.5)	L	C-83
*24. Neurosensory Res. Cntr., Oregon Health Sciences Univ.	_____	OR	(12.5)	L	C-83
*25. Physical Sciences Cntr., Fort Hays State Univ.	Fort Hays	KA	(4.0)	L	C-83

Item	Location	State	Amount	L/R	Ref
26. "Natl. Inst. of Global Environmental Change"	Univ. of Calif, Davis?	CA	9.0	R	C-85
27. Boron Neutron Capture Therapy at the Idaho Natl. Eng. Lab.	INEL	ID	5.5	R	C-84
28. Mod & Op. of Power Burst Fac. at the Idaho Natl. Eng. Lab.	INEL	ID	7.5	R	C-84
29. Wind energy research at the Renewable Energy Res. Cntr., Univ. of Massachusetts	Univ. of MA, Amherst	MA	1.5	R	C-84
30. Ocean Energy Res. funds for "PICHTR-OTEC"	Org. set up by Hawaii	HI	2.25	R	C-84
31. DOE EPSCoR planning grants	TBD	-	2.0	R	C-86
32. DOE EPSCoR grad. traineeships	TBD	-	2.0	R	C-86
33. For tech. transfer demonstrations by "Rural Enterprises, Inc."	Not specified	OK	.2	R	C-86
34. "Supercomputer Computation Res. Institute" at Florida St. Univ.	_____	FL	(= FY 90 amt)	R	C-86-7
35. Geothermal res., State of Hawaii	_____	HI	5.0	R	S-81
36. Geothermal resource evaluation proposed by 3 organizations	Oregon Inst. of Tech. Univ. of Utah Res. Inst. Idaho Water Res. Res. Inst.	OR UT ID	1.5	R	S-81

Item	Location	State	Amount	L/R	Ref
*37. Further planning of proposed res. cntr. in basic sci. of materials by design	West Virginia Univ.	WVA	.25	R	S-89
*38. Cost share with Diagnostic Instrumen. & Analysis Lab. at Miss. State Univ.	_____	MS	4.0	R	S-89
39. Center for Energy & Env. Educ. at Univ. of Northern Iowa	_____	IA	4.0	R	S-90
*40. Assist Clark Atlanta Univ. to complete res. cntr. for sci. & tech.	Atlanta	GA	not spec.	R	S-91
41. Adv. Tech. Res. Cntr., Oklahoma	_____	OK	5.0	R	H-?
42. Nebraska Cntr. for Sci. & Tech.	_____	NE	5.7	R	H-?
43. Jackson State Univ coop. prog. with LBL & Mendez Foundation	_____	?	2.5	R	H-?
44. Purdue University	_____	IN	3.0	R	H-?
45. Cntr. of Excellence, Materials	Not identified	?	5.0	R	S-?
46. Louisiana Tech. Univ., Eng. Res.	_____	LA	.75	R	S-?
*47. PET equip., Children's Hosp., Detroit	Detroit	MI	8.0	R	H-?
*48. 6-MEV accel. Misericordia Hosp.	_____	PA	2.1	R	H-?

Item	Location	State	Amount	L/R	Ref
<u>General Sciences & Research:</u>					
No earmarks					

TOTAL R&D EARMARKS IDENTIFIED, DOE

(185.5)

In Law (L)

(98.6)

In Reports (R)

(84.9)

Item	Location	State	Amount	L/R	Ref
DEPARTMENT OF COMMERCE					
<u>NOAA:</u>					
*1. Stuttgart Fish Farming Exp. Sta.	Stuttgart	AR	2.75	L	S-23, C-13&19
2. Cont. of work at a semi-tropical res. forest	Key Largo	FL	.4	L	H-14, C-13&19
3. For Charleston Harbor Estuary Special Area Management Plan	South Carolina Coastal Council	SC	.4	L	S-17, C-13&19
4. Res. on high salinity estuaries	Univ. of South Carolina and Baruch Institute	SC	.35	R	S-21
5. Res. & demo. on natural resources information system	South Carolina Water Res. Comm.	SC	.9	R	S-21&22
6. Expand wetlands demo project	So. Carolina Wildlife & Marine Res. Dept for Res. Surveys	SC	.5	R	S-22
7. So. Carolina Geodetics Survery	Not identified	SC	.577	R	S-21, C-14
8. "For the Gloucester Laboratories"	Gloucester	MA	1.46	R	C-19
9. "Natl. Undersea Res. Prog." (NURP)	"Inst. of Marine Coastal Sciences," Rutgers Univ.	NJ	2.5	R	C-19

Item	Location	State	Amount	L/R	Ref
10. "Natl. Undersea Res. Prog." (NURP)	Hawaii	HI	2.5	R	C-19
11. Weather modification research	Arizona	AZ	.55	R	H-15
*12. Facilities improvements, Beaufort Lab	Beaufort	NC	.2	R	H-16
13. For cont. support of "Newport Marine Science Center"	Newport	OR	.355	R	S-23
TOTAL Earmarks, NOAA			(13.442)		
<u>Natl. Telecomm. & Info. Admin:</u>					
1. Pan-Pacific Educ. & Cult. Experi- ments by Satellite (PEACESAT)	Univ. of Hawaii	HI	1.0	L	S-33, C-24
<u>Nat. Inst. of Standards & Tech.:</u>					
No items					

TOTAL R&D EARMARKS IDENTIFIED, DOC

In Law (L)

In Reports only (R)

(14.442)

(4.55)

(9.892)

Item	Location	State	Amount	L/R	Ref
DEPARTMENT OF THE INTERIOR					
<u>USGS:</u>					
1. Operate water qual. monitoring station on Alsek River, AK	Alsek River	AK	.078	R	S-44, C-35
TOTAL Earmarks, USGS			(.078)		
<u>Bureau of Mines:</u>					
1. Continue "respirable dust res." at 4 universities	West Virginia Univ. Penn. State Univ. Univ. of Minnesota MIT	WVA PA MN MA	2.5	R	S-49
2. "Rockburst research"	Spokane Res. Cntr.	WA	2.0	R	S-49
3. Testing & dev. of automated and robotic system	Spokane Res. Cntr.	WA	.75	R	S-49
*4. Equipment upgrade	Spokane Res. Cntr.	WA	.675	R	S-49
5. Strategic & critical minerals res. (2 items)	Idaho Natl. Eng. Lab.	ID	2.5	R	S-50, C-37
6. Hazardous mine waste tech. res.	Spokane Res. Cntr.	WA	1.0	R	S-50

Item	Location	State	Amount	L/R	Ref
7. Hazardous mine waste tech. res.	Univ. of Idaho	ID	.5	R	S-50
8. Res. in soil revegetation with Soil Conservation Service in Arkansas	Not identified	AR	.25	R	S-50, C-37
9. For continuing "Mine Land Reclamation Cntr." work "at current funding levels"	Not identified	?	NA		H-55, S-50
10. Mine remediation, Mine Hill, NJ	Mine Hill	NJ	.21	R	H-55
11. Mine remediation, North Arlington, NJ	North Arlington	NJ	1.4	R	H-55, S-50
12. "Marine Minerals Tech. Cntr."	Not identified	?	1.3	R	H-55
13. Oregon metals research initiative	Not identified	OR	1.0	R	H-54
TOTAL Earmarks, Bureau of Mines			(14.085)		
<u>Fish & Wildlife Service:</u>					
1. North Carolina Striped Bass Study	Not identified	NC	.35	R	H-23
2. "Monell Chemical Senses Cntr."	Not identified	?	.2	R	H-23
3. "Sunderland Office of Fisheries Assistance"	Not identified	CT?	.075	R	H-23

Item	Location	State	Amount	L/R	Ref
4. Inter. Cntr. for Preservation of Animals	Not identified	?	.125	R	H-23, C-25
5. Woodland Park Zoo	Seattle	WA	.250	R	H-23
6. Aquaculture res "at Gadsen Junior College in Alabama"	Not identified	AL	.3	R	H-23
7. For "the Southeastern Fish Culture Lab"	Not identified	?	1.2	R	H-23
8. Zebra mussel research, "La Crosse Lab"	Not identified	WI?	.5	R	H-24
9. Zebra mussel research, "Steubenville, OH, fac."	Steubenville	OH	.15	R	H-24
*10. Transfer of Victoria field sta. to Texas A&M	College Station	TX	.15	R	S-17
11. Maintain level of res. at "Pacific NW Res. Station"	_____	?	--	R	S-17
TOTAL Earmarks Fish & Wildlife Serv.			(3.3)		

**TOTAL R&D EARMARKS IDENTIFIED, DOI
In Reports only (R)**

**(17.463)
(17.463)**

Item	Location	State	Amount	L/R	Ref
ENVIRONMENTAL PROTECTION AGENCY					
<u>Research and Development:</u>					
1. For the Cntr. for Environmental Management	Not identified	?	3.15	R	C-31
2. Coop. prog. with Nat. Resources Institute's Minerals Res. Lab.	Not identified	?	4.0	R	C-31
3. For a Denver water re-use demonstration project	Denver	CO	.5	R	C-31
4. Exp. prog. to stimulate competitive research (EPSCoR)	Various	--	1.0	R	C-31
5. For the Inst. for Environmental Issues & Policy Assessment at Southern Univ. of Louisiana	_____	LA	.4	R	C-31
6. Res. on termites, Louisiana State University	_____	LA	.2	R	C-31
<u>Abatement, Control & Compliance:</u>					
7. Lake Pontchartrain demons. proj.	_____	LA	.275	R	C-32
*8. New EPA Cntr. for Ecology Research & Training	Bay City	MI	9.7	L	C-32&34

Item	Location	State	Amount	L/R	Ref
9. Waste management program at St. Vincent College	Latrobe	PA	.575	R	C-32
10. Pesticide program with Michigan State University	East Lansing	MI	.125	R	C-33
11. Two State of New Jersey recycling projects	Trenton (?)	NJ	.45	R	C-33
12. For the "Water Pollution Control Federation Research Foundation"	Not identified	?	.5	R	C-33
<u>Buildings and Facilities:</u>					
*13. For the Ann Arbor Mobile Vehicle Emissions Lab & fac.	Ann Arbor	MI	21.0	R	C-34
*14. Christopher Columbus Cntr. of Marine Research & Exploration	Baltimore	MD	6.0	R	C-34
*15. For the Robert S. Kerr Environmental Research Lab.	Ada	OK	.5	R	C-35
<u>Superfund:</u>					
16. For the Natl. Inst. for Environmental Health Sciences	Not identified	?	10.0	R	C-35

Item	Location	State	Amount	L/R	Ref
17. For Superfund res. at Clark Atlanta University	Atlanta	GA	2.0	R	C-35
18. Pilot prog. for treating mining waste	Butte	MT	3.5	R	C-35
19. For the Energy & Environmental Research Cntr. at the Univ. of North Dakota	_____	ND	.495	R	C-35
20. For the Gulf Coast Hazardous Substances Res. Cntr.	Beaumont	TX	2.5	R	C-35

TOTAL R&D EARMARKS IDENTIFIED, EPA

In Law (L)

In Reports only (R)

(66.87)

(9.7)

(57.17)

Item	Location	State	Amount	L/R	Ref
DEPARTMENT OF HEALTH AND HUMAN SERVICES					
<u>Food & Drug Administration:</u>					
*1. Study of need for a clinical res. fac. at Children's Hospital	Pittsburgh	PA	.2	R	H-122, C-30
<u>Office of Science Policy Research:</u>					
2. Continue res. on poverty at the "Inst. for Research on Poverty"	Not identified	?	3.15	L	C-30

TOTAL R&D EARMARKS IDENTIFIED, DHHS

In Law (L)

In Reports only (R)

(3.35)

(3.15)

(.2)

Item	Location	State	Amount	L/R	Ref
DEPARTMENT OF EDUCATION					
<u>Special Grants:</u>					
1. John McCormack Institute	?	MA	2.928	L	
2. Margaret Chase Smith Library Endowment	?	ME	.976	L	
3. Magnuson Endowment	?	WA	2.928	L	
4. Taft Institute	?	OH	.683	L	
5. Assistance to Guam		GU	.48	L	

**TOTAL EARMARKS IDENTIFIED, DOEd
In Law (L)**

**(7.563)
(7.563)**

Item	Location	State	Amount	L/R	Ref
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION					
*1. Visitor Center, Johnson Space Center	Clear Lake	TX	10.0	L	C-45&46
*2. Wake Shield Facility	Houston	TX	3.0	R	S-124, C-46
*3. "Classroom of the Future," at Shepherd College, West Virginia	_____	WVA	4.0	R	S-145, C-46
*4. Planning for facilities for the "Consortium for Inter. Earth Science Infor. Networks" (CIESIN)	Saginaw (?)	MI	1.0	R	H-?, C-46

TOTAL R&D EARMARKS IDENTIFIED, NASA

In Law (L)

In Reports only (R)

(18.0)

(10.0)

(8.0)

Item	Location	State	Amount	L/R	Ref
NATIONAL SCIENCE FOUNDATION					
No earmarks for specific institutions or locations identified	--	--	(0.0)	--	--
SMITHSONIAN INSTITUTION					
No earmarks for specific institutions or locations identified	--	--	(0.0)	--	--
GENERAL SERVICES ADMINISTRATION					
<u>New Construction:</u>					
*1. Univ. of Idaho Environmental Lab.	Moscow	ID	5.8	L	C-69
*2. Pittsburg State Univ. School of Technology	Pittsburgh	PA	5.0	L	C-69
*3. Univ. of Maryland super-conducting materials res.	College Park	MD	1.375	L	C-69
*4. Brandeis Univ. Natl. Cntr. for Complex Systems	Waltham	MA	4.0	L	C-69
*5. Michigan Tech. Univ. Cntr. for Applied Metallurgical, Minerals & Materials Res.	Houghton	MI	1.75	L	C-69

Item	Location	State	Amount	L/R	Ref
*6. Rochester Inst. of Technology, Strategic Materials Res. Cntr.	Rochester	NY	1.75	L	C-70
*7. El Paso Univ. of Texas	El Paso	TX	1.0	L	C-70
*8. Woods Hole Marine Biol. Lab. Marine Biomedical Institute	Woods Hole	MA	4.75	L	C-69
*9. Grant to Loyola University	Marymount	CA	4.0	L	C-68
*10. Grant for planning & designing the Christopher Columbus Cntr. on Marine Res. & Exploration	Baltimore	MD	4.0	L	C-69
*11. Primate Research Institute	Holloman AFB	NM	4.0	L	C-70
*12. Texas A&M for est. of the Inst. for Natl. Drug Alternative Res.	College Station	TX	1.75	L	
*13. Southwest Forestry Science Complex, No. Arizona Univ.	Flagstaff	AZ	4.5	L	C-68
*14. California State University	East Los Angeles	CA	.35	L	C-68
*15. Natl. Res. Cntr. for Environ- mental Lung Disease	Denver	CO	1.0	L	C-68
*16. Dean Rusk Cntr. for Inter. and Comp. Law, Univ. of Georgia	Athens	GA	1.0	L	C-68
*17. Midwest Supercomputer Ames Cntr., Iowa State Univ.	Ames	IA	2.2	L	C-69

Item	Location	State	Amount	L/R	Ref
*18. McLaughlin Res. Inst. for Biomedical Sciences	Great Falls	MT	5.0	L	C-69
*19. Geo. W. Beadle Cntr. for Genetic & Biomaterials Res.	Lincoln	NE	4.5	L	C-69
*20. Criss Research Building, Creighton Univ.	Omaha	NE	2.0	L	C-69
*21. Center for Disease Prevention, Columbia Univ.	New York	NY	1.0	L	C-69

TOTAL R&D EARMARKS IDENTIFIED, GSA
In Law (L)

(60.725)
(60.725)

Item	Location	State	Amount	L/R	Ref
DEPARTMENT OF AGRICULTURE					
<u>Agricultural Research Service:</u>					
1. Research: 57 items listed in Appendix A-1	Various	--	11.49	R	C-8&9
*2. Building & Facilities: 13 items listed in Appendix A-1	Various	--	16.966	R	C-9
<u>Cooperative State Research Service:</u>					
3. Special Grants: 110 items listed in Appendix A-2	Various	--	41.4	R	C-11&12
4. Critical Agricultural Materials Res.:					
a) for "Natl. Cntr. for Physical Acoustics";	Not identified	?	.5	R	C-13
b) for Polymer Cntr. at the Univ. of Southern Mississippi	_____	MS	.3	R	C-13
5. Op. of Inter. Trade Development Cntr.: 6 items listed in Appendix A-3	Various	--	3.152	R	C-13
6. Federal Administration of CSRS: 8 items listed in Appendix A-3	Various	--	8.32	R	C-14

Item	Location	State	Amount	L/R	Ref
*7. CSRS Buildings & Facilities: 36 items listed in Appendix A-3 [Note--Only earmarks in "Competitive Grants" are for areas of research] Subtotal Earmarks, ARS & CSRS <u>U.S. Forest Service:</u> <u>Forest Protection Research:</u>	Various	--	62.867	R	C-15&16
			(144.955)		
9. The 15 locations listed in Appendix A-4	Various	--	3.3	R	H-88
10. Eastside forest research	Bend	OR	.1	R	C-48
11. Silviculture research	Bozeman	MT	.15	R	C-48
12. Southern pine disease research	Gulfport	MS	.2	R	C-49
13. Insect & forest decline research	Hamden	CT	.268	R	C-49
14. Root disease	Moscow	ID	.1	R	C-49
15. Pest impact assessment	Research Triangle Park	NC	.195	R	C-49

Item	Location	State	Amount	L/R	Ref
<u>Resource Analysis Research:</u>					
16. The 12 locations listed in Appendix A-4	Various	--	3.7	R	H-89
17. Cultural resources research	Albuquerque	NM	.15	R	C-49
18. For "inventory"	St. Paul	MN	.15	R	C-49
<u>Timber Management Research:</u>					
19. The 11 locations listed in Appendix A-4	Various	--	3.4	R	H-89
20. Silviculture research	Boise	ID	.182	R	C-49
21. Reforestation research	Corvallis	OR	.1	R	C-49
22. White spruce research	Fairbanks	AK	.15	R	C-49
23. Alt. management research	Monticello	AR	.3	R	C-49
24. Genetic adaptability	Moscow	ID	.05	R	C-49
25. Southern pine genetics	Normal	AL	.22	R	C-49
26. Spruce fir research	Orono	ME	.253	R	C-49
27. Soil productivity research	Research Triangle Park	NC	.211	R	C-49

Item	Location	State	Amount	L/R	Ref
28. Southern forest productivity grants	Not specified	?	.35	R	C-49
29. Multiple use evaluation	St. Paul	MN	.147	R	C-49
30. New perspectives in forestry, H.J. Andrews Exp. Station	_____	OR	.45	R	C-49
<u>Forest Environment Research:</u>					
31. The 16 locations listed in Appendix A-4	Various	--	3.1	R	H-90
32. Forest environmental research	Boise	ID	.2	R	C-49
33. COPE/integrated resources research	Corvallis	OR	.1	R	C-49
34. Tropical forestry	Honolulu	HI	.124	R	C-49
35. Fish habitat research	Juneau	AK	.05	R	C-49
36. Elk/deer/timber research	LaGrande	OR	.05	R	C-49
37. Snow hydrology research	Laramie	WY	.05	R	C-49
38. Rangeland mgmt. research	Pineville	LA	.2	R	C-49
39. Riparian zones research	Rapid City	SD	.1	R	C-49

Item	Location	State	Amount	L/R	Ref
<u>Forest Products & Harvesting Research:</u>					
40. The 5 locations listed in Appendix A-4	Various	--	1.5	R	H-91
41. Timber bridges	Madison	WI	.3	R	C-49
42. Earmarks for West Virginia Univ. out of total funds for timber bridges	Morgantown	WVA	.25	R	C-50
<u>Construction:</u>					
*43. Forest Serv. share of new res. facility at Univ. of Missouri	Columbia	MO	3.5	R	H-104 & 105
*44. Complete Pacific Southwest res. station headquarters	Not identified	?	1.0	R	H-105
*45. Improvements at H.J. Andrews Experiment Station	_____	OR	1.0	R	H-105
*46. Forestry research lab. at Northern Arizona University	_____	AZ	10.0	R	C-54
*47. Forestry lab. at Mississippi State Univ.	_____	MS	1.629	R	C-54
Subtotal Earmarks, Forest Service			(37.273)		
TOTAL R&D EARMARKS IDENTIFIED, DOA			(182.228)		
In Reports only (R)			(182.228)		

AGRICULTURAL RESEARCH SERVICE

	91 BUDGET	House bill	Senate bill	Conference agreement
	\$ 621,510			610,095
BASE BUDGET				
1 Alternative fuels characterization lab (University of North Dakota)			\$300 000	(*)
2 Animal health consortium, Ames, IA			770 000	\$385 000
3 Aquaculture, Oceanic Institute, HI	\$463 000		463 000	
4 Aquaculture, MV			900 000	450 000
5 Beltsville modernization (transfer from B&F)	7,250 000			
6 BARC research, MD			500 000	250 000
7 Barley (Montana State University)			200 000	100 000
8 Beckley, WV, conservation lab			300 000	150 000
9 Bee research, ID, UT			100 000	50 000
10 Center for food safety and post harvest tech, MS			250 000	125 000
11 Meat animal research center, Clay Center, NE	500 000		875 000	687 000
12 Dairy forage, Prairie du Sac, WI			400 000	200 000
13 Eastern libellid blight, OR	50 000		85 000	67 000
14 Unspecified	7,550 000			
15 Fermentation lab, Raleigh, NC	150 000			150 000
16 Food safety (University of Arkansas)			400 000	200 000
17 Fort Keogh livestock and range lab, Miles City, MT			300 000	150 000
18 Fruit fly eradication, HI	900 000		900 000	900 000
19 Gypsy moth, BARC			500 000	250 000
20 Herd management (Tennessee State University)			750 000	(*)
21 Human nutrition	(2 000 000)	(1 000 000)	(1 500 000)	
a Baylor, TX	500 000		300 000	
b Beltsville, MD	500 000		300 000	
c Grand Forks, ND		500 000	300 000	
d LAIR, CA	500 000		300 000	
e Tufts, MA	500 000		300 000	
22 Human nutrition, Pennington Center, LA	(*)	2 690 000	(*)	
23 Kearneysville, WV, fruit lab		500 000	250 000	
24 Locoweed research, NM	200 000	200 000	200 000	
25 Meadowlark		7 000	3 000	
26 New England plant, soil and water lab, Orono, ME		300 000	150 000	
27 Northern Crops Institute		750 000	325 000	
28 Northern plains soil and water lab, Sidney, MT		500 000	250 000	
29 Oats research			100 000	100 000
a North Dakota State University			100 000	50 000
b Aberdeen, Idaho			250 000	200 000
30 Peach and pecan, Byron, GA	150 000			
31 Peanut research (GA, NC, VA)	300 000		300 000	
32 Pear thrips, VT		58 000	29 000	
33 Plant stress research, Lubbock, TX		150 000	75 000	
34 Potato research				
a Potato beetles	150 000	150 000	150 000	
b Potato varieties	100 000	100 000	100 000	
35 Red River Valley Agriculture Research Center, Fargo, ND			700 000	350 000
36 Rice research, LA			200 000	100 000
37 Russian wheat aphid			400 000	200 000
38 Scrapie/bovine spongiform encephalopathy (BSE)			600 000	300 000
39 Sheep experiment station, Dubois, ID			500 000	250 000
40 Soybean research	350 000	700 000	525 000	
41 Soybean based ink	150 000		75 000	
a Lehigh University			51 000	25 000
42 Spare remote sensing, MS			100 000	50 000
43 Special fund	500 000	500 000	500 000	
44 Sugarcane research, HI	200 000		17 000	
45 Sweet potato research	250 000			250 000
46 Sweet potato whittely	100 000		200 000	150 000
47 Systematic entomology lab, Beltsville, MD			200 000	100 000
48 Turkey osteomyelitis complex	200 000		200 000	200 000
49 Urban pests (University of Georgia)			153 000	(*)
50 Urban pests, Gainesville, FL	100 000			100 000
51 Vegetable oils as fuels (University of Idaho)			200 000	100 000
52 Wheat, sorghum, and forage unit, Lincoln, NE			300 000	150 000
53 Wheat quality labs				
a Wooster, OH		100 000	50 000	

A-1

	91 BUDGET	House bill	Senate bill	Conference agreement
b Manhattan, KS			100 000	50 000
c Pullman, WA			100 000	50 000
d Fargo, ND			100 000	50 000
54 Repair and maintenance			17 364 000	
Total (INCLUDES BASE)	621,510	631 208 000	612 495 000	610,095
* \$250 000 provided under CSRS, Federal administration * \$175 000 provided under CSRS, Federal administration * House and Senate bills provided \$300 000 under CSRS, special grants * A total of \$800 000 provided under CSRS, special grants * A total of \$76 000 provided under CSRS, special grants * Senate bill provided \$17 364 000 under ARS, Buildings and Facilities				

ARA BUILDINGS & FACILITIES

	91 Budget	House bill	Senate bill	Conference agreement
1 Arkansas Rice Research Center, Stuttgart		(*)	(*)	\$223 000
2 California				
a U.S. Salinity Lab, Riverside	\$5 050 000	\$5 050 000	\$5 050 000	
b U.S. Water Management Lab	(*)	(*)	(*)	
3 Colorado National Seed Storage Lab, Fort Collins	2 000 000	4 000 000	3 000 000	
4 Georgia Poultry Disease Lab, Athens	300 000			
5 Illinois Northern Regional Research Center	(*)			(*)
6 Iowa National Animal Disease Center, Ames	300 000	300 000	300 000	
7 Idaho National Small Grains Germ Plasm Repository			200 000	200 000
8 Maryland Beltsville Agricultural Research Center	16.0	8 750 000	16 000 000	16 000 000
9 Minnesota Soil and Water Lab, Morris		300 000		300 000
10 Mississippi		(*)	5 175 000	5 175 000
a Center for Natural Products		(*)	2 140 000	1 200 000
b National Center for Warm Water Aquaculture			425 000	425 000
11 North Dakota Plant science greenhouse complex NDSU				
12 Oklahoma South Central Agricultural Research Center, Lane	1 450 000			1 450 000
13 Oregon Columbia Basin Agricultural Research Center, Pendleton			168 000	168 000
14 Oregon/Washington/Idaho Northwest Small Fruit Center		150 000	200 000	175 000
15 South Carolina U.S. Vegetable Lab, Charleston			5 050 000	
16 Texas				
a ARS Hec Lab, Wristaco	1 700 000			1 700 000
b Plant Stress Lab, Texas Tech University	600 000	4 000 000	600 000	
17 Washington U.S. Fruit and Vegetable Lab, Yakima	10.1	5 050 000	5 050 000	5 050 000
18 Miscellaneous Repair and improvement, ARS facilities		389 000	17 364 000	(*)
Total	32.6	26 039 000	65 122 000	41 016 000
* House bill and Senate bill included \$223 000 under CSRS, Buildings and Facilities * Report on need as specified in the House report * House bill included \$1 250 000 under ARS repair and improvement * House bill included \$3 850 000 under CSRS, Buildings and Facilities account * House bill requested report on facilities requirements * Conference agreement includes \$17 364 000 under ARS				

ALL ITEMS EXCEPT
NOS. 3 & 4 ADDED BY
CONGRESS: \$16,765,000

COOPERATIVE STATE RESEARCH SERVICE SPECIAL GRANTS

(In thousands of dollars)

	FY '91 BUDGET	House bill	Senate bill	Confer- ence agree- ment
(ITEMS MARKED "R")				
Special Research Grants (PL 89-106)				
Allatoxin (IL)	175		131	
Agribusiness management (MS)		100	75	
Agricultural diversification (HI)	154	154	154	
Agricultural management systems (MA)	350		275	
Agricultural trade (ND)		600	596	
Agriculture utilization research (MN)	500	500	500	
Alternative cropping systems (Southeast)	270	285	277	
Alternative crops (ND)		500	497	
Alternative marine and fresh water species (MS)		350	275	
Alternative pest control (AR)		1,400	1,391	
Alternative to dinoseb (OR)	225	225	225	
Animal health	5,705			
Animal sci. food safety consortium (AR, KS, IA)		2,000	1,845	
Animal waste disposal (MI)	75		37	
Apple quality research (MI)	95		94	
Aquaculture (general)	593	720	656	
Aquaculture (Stoneville)	612	588	600	
Asparagus yield decline (MI)	95		94	
Bean and beet (MI)	190		189	
Beef fat content (IA)		400	200	
Belgian endive (MA)	75		67	
Blueberry shoestring virus (MI)	92	92	92	
Broom snakeweed (NM)	150	150	150	
Celery fusarium (MI)	40		39	
Chesapeake Bay aquaculture	375	500	437	
Cool season legume research	250	500	375	
Cottonseed extraction and oil refining (TX)	75	75	75	
Cranberry/blueberry disease and breeding (NI)	260	260	260	
Dairy and beef photoperiod (MI)	33		33	
Dairy goat research (TX)	75	75	75	
Della rural revitalization (MS)	175	175	175	
Dogwood anthracnose (GA, NC, IN)		200	100	
Dried bean (ND)		100	93	
Eastern filbert blight (OR)	50	100	75	
Enhanced livestock production (ND)		300	250	
Environmental research (NY)	350		297	
Enthanol research (AR)	200		100	
Expanded wheat pasture (OK)	275	275	275	
Export services (OR)		450	348	
Floriculture (HI)	296	296	296	
Food and Agriculture Policy Institute (IA, MO)	750	750	750	
Food irradiation (IA)		200	100	
Food marketing policy center (CT)	393	393	393	
Food systems research group (WI)	222	300	261	
Grasshopper biocontrol (ND)	71	75	73	
Human nutrition research (NY)	800		556	
Human nutrition research (IA)	300	300	300	
Human nutrition (IA)	300	300	300	
Integrated forest management (AR)		50	25	
Integrated orchard management (VI)		50	49	
Integrated pest management	R	4,000	4,000	
Integrated production systems (OK)	186		186	
International livestock program (KS)		95	94	
Iowa biotechnology consortium		2,000	1,756	
Irrigation/fish production (AR)		335	167	
Leafy spurge biocontrol (MT)		250	125	
Livestock and dairy policy (NY, TX)	525	525	525	
Lowbush blueberry research (ME)	172	233	202	
Low input aquaculture (MN)	200		171	

GLOBAL CHANGE

Maple research (VI)			100	99
Michigan institute	2,276		2,276	2,246
Midwest biotechnology consortium	2,730	2,730	2,730	
Milk safety (PA)			285	283
Milkweed research (NE)		80	80	80
Minor crop pest control (HI)		285	285	285
Minor use animal drugs (IR 4)	R	450	450	450
Mosquito research (AR, CA, LA, MS, TX)		456		453
Multi cropping strategies for aquaculture (HI)	R	150	150	150
National biological impact assessment		300	300	300
Nematode resistance genetic engineering (NM)		150	150	150
New uses for agricultural products (OH)		150		140
Non food agricultural products (NE)		110	110	110
Oil from jojoba (NM)		200	200	200
Oregon Mass. biotechnology		500	500	500
Pacific agricultural trade (HI)			225	
Peach tree short life (SC)		192	192	192
Peanut breeding (GA)			95	47
Pecan weevil (OK)		50		25
Pesticide clearance (IR 4)	R	3,000	3,000	3,000
Pesticide impact assessment	R	2,968	2,968	2,968
Pesticide research (WA)		250	718	484
Phytophthora root rot (NM)		125	125	125
Plastic from cornstarch (NE)		40	40	40
Polato research		1,327	1,415	1,371
Preservation and processing research (OK)		267		265
Prime farm land reclamation (IL, KY)		675		609
Regional barley gene mapping project		175	350	262
Regionalized implications of farm programs (MO, TX)		350		348
Rural development centers (PA, IA, ND, MS, OR)		500	500	500
Rural economic development (GA)			750	744
Rural environmental research (IL)		150		75
Rural policies institute (AR, NE, MO)			750	375
Russian wheat aphid (WA, OR, ID, CA)		350	350	350
Safflower research (ND, MT)			250	248
Sandhills grazing management practices (NE)		100	40	99
Seafood and aquaculture harvesting, processing, and marketing (MS)		373	400	161
Seedless table grapes (AR)		100		50
Seedstocks enhancement (ND)			200	198
Small fruit research (OR, WA, ID)		250		125
Southwest consortium for plant genetics and water resources		400	400	400
Soybean bioprocessing (IA)			400	200
Soybean cyst nematode (MO)		385		333
STEEP II—water quality in Northwest		980	980	980
Stone fruit decline (MI)		285		283
Stored grain insects (KS)		285	285	285
Subirrigation research (MI)		263		262
Sunflower insects (ND, SD)			200	194
TCK smut (wheat)		250	250	250
Tropical and subtropical		3,341	3,299	3,320
Urban pests (GA)				76
Water management (AL)	R		400	397
Water quality		8,350	8,350	8,000
Wheat genetic research (KS)			200	149
Wild rice research (MN)		100		50
Wood utilization research (OR, MS, MI)		2,852	2,852	2,852
Wool research (TX)		250	146	198
World food systems (IM, OH)		360		357
Youth Science Camp (WV)			115	94
Total Special Research Grants	25,597	56,909	56,811	61,976

* Senate bill included \$2,690,000 under ARS
* Senate bill included \$153,000 under ARS

ITEMS ADDED BY CONGRESS:

\$41,400,000

FY '91
BUDGET

House
bill

Senate
bill

Confer-
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A-2

COOPERATIVE STATE RESEARCH SERVICE

GRANTS FOR OPERATION OF INTERNATIONAL TRADE DEVELOPMENT CENTERS

	'91 Budget (=0)	House bill	Senate bill	Conference agreement
1 CINTRAFOR/IMPACT		\$1,000,000	\$1,000,000	\$1,000,000
2 Iowa State University		1,000,000	1,000,000	1,000,000
3 University of Kentucky		227,000	227,000	227,000
4 West Virginia University			575,000	575,000
5 Oregon Wheat Center			300,000	300,000
6 University of Idaho			50,000	50,000
7 Eastern Europe and Soviet Centers			400,000	
8 New centers or existing centers			1,448,000	
Total	-0-	2,227,000	5,000,000	3,152,000

TOTAL ADDED BY CONGRESS: \$3,152,000

FEDERAL ADMINISTRATION OF CSRS

	'91 Bud.	House bill	Senate bill	Conference agreement
1 Shrimp aquaculture	-0-	\$3,365,000	\$3,365,000	\$3,365,000
2 Mississippi Valley State University	-0-	650,000	635,000	642,000
3 Ag in the Classroom	200	170,000	170,000	170,000
4 Agricultural biotechnology	500	375,000	375,000	375,000
5 Peer panels	400	250,000	250,000	250,000
6 Office of Grants	-0-	575,000		568,000
7 Center for Agriculture and Rural Development (IA)	-0-	750,000		741,000
8 1890 Capacity Building	11,900	8,250,000	8,250,000	8,250,000
9 Vocational aquaculture	-0-	1,000,000		500,000
10 Water quality	-0-	600,000	1,000,000	1,600,000
a Iowa State	-0-	(250,000)	(250,000)	(250,000)
b North Dakota	-0-	()	(750,000)	(750,000)
c Southern Illinois University	-0-	(600,000)	()	(600,000)
11 Geographic Information System	-0-	1,000,000		747,000
12 Maize Genetics Center (ND)	-0-	200,000		100,000
13 Herd management (TN)	-0-		()	375,000
14 Alternative fuels characterization (ND)	139		()	250,000
Other				
Total	12,339	14,985,000	16,245,000	17,933,000

* Senate bill proposed \$750,000 under ARS
* Senate bill proposed \$300,000 under ARS

ADDED BY CONGRESS FOR 8
SPECIFIC LOCATIONS: \$8,324,000

BUILDINGS & FACILITIES - CSRS

A-3

	'91 Budget (=0)	House bill	Senate bill	Conference agreement
1 Alabama: Tuskegee University		\$800,000	\$600,000	\$700,000
2 Arkansas:				
a Center for Alternative Pest Control			1,202,000	811,000
b Poultry and Isolation Facility, University of Arkansas/Fayetteville			428,000	337,000
c Poultry Center of Excellence			4,700,000	3,750,000
d Rice Germplasm Center, Stuttgart	223,000		223,000	()
3 Arizona: Agriculture research complex environmental stress lab			()	()
4 California:				
a Alternative pest control containment and quarantine, University of California		()	()	()
b Grape Importation Facility, University of California at Davis	1,233,000		561,000	897,000
5 Florida: Biotechnology Institute, University of Florida Alachua	500,000		3,850,000	2,690,000
6 Georgia:				
a Biocontainment Research Center, University of Georgia	500,000		3,000,000	1,947,000
b Center for Advanced Water Technology, Savannah			()	()
c National Laboratory for Environmentally Sound Production Agriculture - Tifton			300,000	300,000
d Vidalia onion storage research facility			225,000	()
7 Hawaii: Center for Tropical/Subtropical Agriculture	5,675,000		5,675,000	5,675,000
8 Idaho: Biotechnology Facility			5,900,000	5,900,000
9 Illinois:				
a Biotechnology Center, Northwestern University			()	()
b National Soybean Laboratory, University of Illinois	1,750,000		1,484,000	1,617,000
10 Indiana: Molecular and Cellular Biotech Facility		1,500,000		1,500,000
11 Iowa:				
a Center for Food and Industrial Agriculture Product Development, Iowa State University		3,400,000	2,722,000	3,400,000
b Human Nutrition Center, Iowa State University		1,750,000	2,439,000	1,755,000
12 Kansas: Throckmorton Plant Science Center, Kansas State University		500,000	4,500,000	3,731,000
13 Maine:				
a Food Safety Laboratory, University of Maine			93,000	93,000
b Masardis Research Farm			200,000	157,000
c Presque Isle Farm Building Consolidation			150,000	150,000
14 Maryland: Institute for Natural Resources and Environmental Science, University of Maryland		()	()	()
15 Massachusetts: Center/hunger, poverty, nutrition and policy			()	()
16 Michigan: Food Toxicology Center, Michigan State University	5,190,000			5,076,000
17 Mississippi: Center for Natural Products, University of Mississippi	3,850,000		()	()
18 Missouri: Bennett Living and Learning Center, Lincoln University			()	()
19 Montana: Bioscience Research Laboratory, Montana State University	500,000		2,000,000	1,250,000
20 Nebraska: Center for Advanced Technology, University of Nebraska	4,500,000		4,500,000	4,500,000
21 New Jersey: Plant Bioscience Facility, Rutgers University	5,000,000			2,544,000
22 North Carolina: Biotechnology Facility	750,000		530,000	750,000
23 North Dakota:				
a Animal Care Facility, North Dakota State University			()	()
b Industrial Agriculture and Communication Center, North Dakota State University	500,000		2,511,000	2,511,000
c Inst/Ag Health Science and Rural Medicine, University of North Dakota			4,488,000	2,892,000
d Seed Research and Regulatory Facility, North Dakota State University			()	()
24 New York: New York Botanical Garden			()	()
25 Oregon: Seafood Center, Oregon State University		()		()
26 Pennsylvania: Center for Food Marketing, St. Joseph's University		()	1,200,000	600,000
27 Rhode Island: Building Consolidation, University of Rhode Island			1,904,000	1,901,000
28 South Dakota: Northern Plains Biostress Laboratory, South Dakota State University	500,000		2,261,000	1,970,000
29 Tennessee: Nursery Crop Research Station			250,000	248,000
30 Texas: Inst/Biosciences and Technology, Texas A&M	2,300,000		3,294,000	2,797,000
31 Utah: Biotechnology Laboratory, Utah State University			1,388,000	280,000
32 Vermont: Tree Physiology and Maple Research Laboratory, University of Vermont			375,000	372,000
33 Virginia: Agriculture Biotechnology Facility, Virginia Polytechnic Institute	1,125,000			918,000
34 Washington: Animal Disease Biotechnology Facility, Washington State University	1,415,000		1,005,000	1,210,000
35 Wisconsin:				
a Agriculture Biotechnology/Genetics Facility, University of Wisconsin/Madison	1,700,000		3,500,000	2,600,000
b Research greenhouse			()	()
c Rural health information and technology initiative, Medical College of Wisconsin			()	()
36 Wyoming: Environmental Simulation Facility, University of Wyoming		()	()	()
37 Miscellaneous: Fund for reports	200,000		300,000	300,000
Total	-0-	45,361,000	67,758,000	62,867,000

* Funded under ARS: Buildings and Facilities
* Report on need and support for proposed facility

TOTAL ADDED BY CONG: \$62,867,000

U.S. FOREST SERVICE

A-4

FOREST PROTECTION RESEARCH

Corvallis, OR:	
COPE.....	\$150,000
Western conifer insect pests.....	100,000
Athens, GA—dogwood anthracnose.....	300,000
Berkeley, CA—forest diseases.....	375,000
Pineville, LA—southern pine beetle.....	250,000
Burlington, VT—atmospheric effects.....	59,000
Lincoln, NE—stress physiology.....	50,000
Flagstaff, AZ—western conifer insects.....	100,000
Madison, WI:	
Biological control.....	100,000
Root diseases.....	100,000
Wood product treatments.....	100,000 85,000
East Lansing, MI—wildfire impacts.....	270,000
Stoneville, MS—oak wilt.....	300,000
Honolulu, HI—tropical forestry.....	190,000
LaGrande, OR—western spruce budworm.....	100,000 50,000
Morgantown, WV—gypsy moth.....	500,000
Gypsy moth research in PA.....	300,000
Pear thrip research.....	(150,000)
Delaware, OH—air pollution effects.....	50,000
Total.....	8,544,000 3,334,000

RESOURCE ANALYSIS RESEARCH

Missoula, MT—wilderness research.....	\$100,000
Starkville, MS:	
Satellite/remote sensing.....	600,000
Inventory monitoring cycle.....	250,000
Portland, OR:	
International trade.....	900,000 150,000
Inventory monitoring cycle.....	300,000
St. Paul, MN:	
Inventory monitoring cycle.....	200,000
Research benefits.....	100,000
Asheville, NC—inventory monitoring cycle.....	335,000
Ogden, UT—inventory monitoring cycle.....	200,000
Anchorage, AK—inventory monitoring cycle.....	350,000
Radnor, PA—inventory monitoring cycle.....	300,000
Chicago, IL—urban forestry.....	150,000
Fort Collins, CO:	
Global change.....	75,000
Recreation fees.....	100,000
Rio Piedras, PR—tropical forestry.....	150,000
Syracuse, NY—Chicago urban forest climate study.....	300,000
Total.....	2,740,000 3,660,000

TIMBER MANAGEMENT RES.

Bozeman, MT—high elevation silviculture.....	\$318,000
Olympia, WA—alternative silviculture.....	300,000
Rio Piedras, PR:	
Rehabilitating tropical forest lands.....	800,000 100,000
Sustained use management.....	300,000
Growth and yield.....	100,000
Berkeley, CA—biotechnology.....	160,000
Redding, CA:	
Old growth management.....	187,000
Spotted owl habitat.....	150,000
Starkville, MS—seed quality.....	100,000
Honolulu, HI—tropical forestry.....	296,000
Olympic Natural Resources Center, WA.....	1,450,000 1,250,000
New perspectives in forestry.....	1,000,000
Total.....	4,900,000 3,361,000

FOREST ENVIRONMENT RESEARCH

Logan, UT—water quality.....	\$100,000
Fresno, CA:	
Sierra Nevada birds and wildlife.....	200,000 150,000
Habitat for furbearers.....	150,000
Spotted owl.....	200,000 100,000
La Grande, OR:	
Non-game research.....	200,000
Elk-deer-cattle-timber.....	100,000
Albuquerque, NM—rangeland rehabilitation.....	100,000
Tempe, AZ:	
Water quality.....	100,000
Spotted owl and other TES.....	250,000
University Park, PA—watershed.....	170,000
Amherst, MA—wildlife.....	400,000
Juneau, AK—Sitka deer.....	100,000
Corvallis, OR—COPE (fish habitat).....	125,000
Honolulu, HI—endangered species.....	173,000
Rio Piedras, PR—endangered species.....	100,000
Oxford, MS—water quantity.....	219,000
Arcata, CA:	
Marbled murrelet (old growth).....	77,000
Spotted owl.....	100,000 150,000
Olympia, WA—spotted owl.....	250,000
Wenatchee, WA—spotted owl.....	80,000
Neotropical migratory birds.....	350,000
Total.....	2,744,000 3,094,000

FOREST PRODUCTS & HARVESTING RES.

Madison, WI:	
Timber bridges.....	\$50,000
Adhesives.....	100,000
Wood decay.....	100,000
Biopulping.....	100,000 50,000
Panel products.....	100,000
Weathering.....	100,000
Juvenile wood products.....	100,000
Biotechnology.....	100,000
Wetwood detection.....	78,000
Portland, OR:	
Second-growth Douglas fir.....	100,000
Utilization research.....	100,000
Moscow, ID—engineering research.....	200,000
Surface metallurgy initiative, Forest Products Lab and Oregon Graduate Center.....	400,000
Total.....	1,628,000 1,478,000

APPENDIX B
References
APPROPRIATIONS BILLS, SUBCOMMITTEES, AND REPORTS

Agency	Subcommittee	Bill Number	House Report	Senate Report	Conference Report
Defense	Defense	HR 5803	101-822	101-521	101-938
Energy: Fossil F. & Conserv. All Others	Interior & Rel. Agencies Energy & Water Res.	HR 5769	101-789	101-534	101-971
Commerce	Commerce, Justice, State, etc.	HR 5021	101-537	101-515	101-909
Interior	Interior & Rel. Agencies	HR 5769	101-789	101-534	101-971
EPA	Veterans, HUD, & Ind. Off.	HR 5158	101-556	101-474	101-900
HHS	Labor, HHS, Educ., etc.	HR 5257	101-591	101-516	101-908
Education	Labor, HHS, Educ., etc.	HR 5257	101-591	101-516	101-908
NASA	Veterans, HUD, & Ind. Off.	HR 5158	101-556	101-474	101-900
NSF	Veterans, HUD, & Ind. Off.	HR 5158	101-556	101-474	101-900
Smithsonian	Interior & Rel. Agencies	HR 5769	101-789	101-534	101-971
GSA	Treasury, Post Office, etc.	HR 5241	101-589	101-411	101-906
Agriculture: Forest Service All Others	Interior & Rel. Agencies Agriculture	HR 5769 HR 5268	101-789 101-598	101-534 101-468	101-971 101-907