

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

The 1996 budget for NASA reflects the budget account restructuring that was adopted in FY 1995. The three new restructured accounts are: Human Space Flight; Science, Aeronautics and Technology; and Mission Support. The table below shows a bridge for FY 1994 between the old accounts and the new accounts. The Inspector General account was not included in the restructuring and is excluded from the bridge table.

BRIDGE OF "OLD" APPROPRIATIONS TO 1995 NEW APPROPRIATIONS STRUCTURE

	(In thousands of dollars)			
	Human Space Flight	Science, Aeronautics and Technology	Mission Support	Total
FY 1994:				
Research and development	2,435,400	4,728,800	369,300	7,533,500
Space flight, control and data communications	3,604,600	849,300	381,200	4,835,100
Research and program management	34,300	249,100	1,673,508	1,673,508
Construction of facilities	34,300	249,100	209,300	492,700
Total	6,074,300	5,827,200	2,633,308	14,534,808

Federal Funds

General and special funds:

HUMAN SPACE FLIGHT

For necessary expenses, not otherwise provided for, in the conduct and support of human space flight research and development activities, including research; development; operations; services; maintenance; construction of facilities including repair, rehabilitation, and modification of real and personal property, and acquisition or condemnation of real property, as authorized by law; space flight, spacecraft control and communications activities including operations, production, and services; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft; **[\$5,573,900,000]** \$5,509,600,000, to remain available until September 30, [1996] 1997. (Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 1995.)

Program and Financing (in thousands of dollars)

Identification code: 80-0111-0-1-252	1994 actual	1995 est.	1996 est.
Program by activities:			
Direct program:			
00.01 Space station	1,788,050	1,839,270	
00.02 US/Russian cooperative program	142,595	130,245	
00.03 Payload and utilization operations	304,095	315,255	
00.04 Space shuttle	2,993,040	3,226,005	
00.91 Subtotal, direct program	5,227,780	5,510,775	
01.01 Reimbursable program	106,398	109,466	
10.00 Total obligations	5,334,178	5,620,241	
Financing:			
21.40 Unobligated balance available, start of year: Treasury balance			-287,117
24.40 Unobligated balance available, end of year: Treasury balance	287,117	285,942	
39.00 Budget authority (gross)	5,621,295	5,619,066	
Budget authority:			
Current:			
40.00 Appropriation	5,573,900	5,509,600	
40.75 Procurement reduction pursuant to P.L. 103-327	-59,003		
43.00 Appropriation (total)	5,514,897	5,509,600	
Permanent:			
68.00 Spending authority from offsetting collections	106,398	109,466	

Relation of obligations to outlays:			
71.00	Total obligations	5,334,178	5,620,241
72.40	Obligated balance, start of year: Unpaid obligations:		
	Treasury balance		1,795,636
74.40	Obligated balance, end of year: Unpaid obligations:		
	Treasury balance	-1,795,636	-1,875,773
87.00	Outlays (gross)	3,538,542	5,540,104

Adjustments to gross budget authority and outlays:			
Offsetting collections from:			
88.00	Federal sources	-75,862	-78,062
88.40	Non-Federal sources	-30,536	-31,404
88.90	Total, offsetting collections	-106,398	-109,466
89.00	Budget authority (net)	5,514,897	5,509,600
90.00	Outlays (net)	3,432,144	5,430,638

The appropriation provides for human space flight activities, including development of the Space Station, and operation of the Space Shuttle. This includes support of planned cooperative activities with Russia, upgrades to the performance and safety of the Space Shuttle and required construction projects in direct support of Space Station and Space Shuttle programs.

Performance Objectives:

Space Station.—The Space Station will be an international laboratory in low Earth orbit on which American, Russian, Canadian, European, and Japanese astronauts will conduct unique scientific and technological investigations in a micro-gravity environment. During 1993, the program underwent a major redesign activity to lower program costs. In 1994, the program began making the necessary management and design changes to integrate the augmented capabilities made possible by the addition of Russia to the International Partners. In FY 1995, the program will complete transition to a new program structure, and will begin flight hardware fabrication. Activities are well underway to support crew training, payload processing, and hardware element processing requirements. Hardware fabrication activities will continue in FY 1996. Final fabrication of flight hardware will be the focus of the program. First element launch is scheduled for late 1997.

US/Russian Cooperative Program.—The United States and Russia are planning to undertake a program of joint space missions involving the Space Shuttle and Russian Mir Space Station. In 1994, activities supporting these missions included mission planning, preparation of experiment hardware and procurement of the Shuttle hardware required to enable docking of the Space Shuttle to the Mir Space Station. In 1994, the first Russian cosmonaut flew on the Space Shuttle. In 1995, a U.S. astronaut will spend several months on the Mir Space Station, and the first rendezvous and docking mission between the Space Shuttle and Mir will take place. In FY 1996, three Shuttle flights to Mir are planned. Flight hardware to conduct experiments will be carried on these flights.

Payload and Utilization Operations.—These funds will support the mission planning and hardware preparation activities required to support the payload and experiment infrastructure, including the spacelab which is planned to be flown on the Space Shuttle. The Engineering and Technical Base provides basic engineering and technical capabilities to support the NASA mission assigned to the programs carried out by the human space flight centers. Four Spacelab flights are

General and special funds—Continued

HUMAN SPACE FLIGHT—Continued

planned for 1995 and two Spacelab flights are planned for FY 1996.

Space Shuttle.—The Space Shuttle is a reusable space vehicle which provides several unique capabilities to the United States space program. These include launching spacecraft and retrieving payloads from orbit for reuse, servicing and repairing satellites in space, safely transporting humans to and from space, and operating and returning space laboratories. During FY 1994, eight successful Shuttle missions were accomplished, including two Space Radar Lab missions and the highly successful Hubble Space Telescope repair/revisit mission. In 1995, seven Shuttle missions are planned, including the first docking mission between the Space Shuttle and the Russian Mir Space Station. In FY 1996, seven Shuttle missions are planned. Continued emphasis will be placed on enhancements to the safety and performance of the Space Shuttle.

Object Classification (in thousands of dollars)

Identification code 80-0111-0-1-252	1994 actual	1995 est.	1996 est.
Direct obligations:			
22.0 Transportation of things		6,234	6,572
23.1 Rental payments to GSA		15,805	16,660
23.2 Rental payments to others		4,606	4,855
23.3 Communications, utilities, and miscellaneous charges		75,568	79,659
24.0 Printing and reproduction		7,394	7,794
25.2 Other services		4,930,291	5,197,182
26.0 Supplies and materials		112,706	118,807
31.0 Equipment		68,586	72,298
32.0 Land and structures		4,872	5,136
41.0 Grants, subsidies, and contributions		1,718	1,812
99.0 Subtotal, direct obligations		5,227,780	5,510,775
99.0 Reimbursable obligations		106,398	109,466
99.9 Total obligations		5,334,178	5,620,241

SCIENCE, AERONAUTICS AND TECHNOLOGY

(INCLUDING RESCISSION OF FUNDS)

For necessary expenses, not otherwise provided for, for the conduct and support of science, aeronautics, and technology research and development activities, including research; development; operations; services; maintenance; construction of facilities including repair, rehabilitation and modification of real and personal property, and acquisition or condemnation of real property, as authorized by law; space flight, spacecraft control and communications activities including operations, production, and services; and purchase, lease, charter, maintenance, and operation of mission and administrative aircraft; **[\$5,901,200,000] \$6,006,900,000**, to remain available until September 30, [1996] 1997.

[Of the amounts provided under the heading, "CONSTRUCTION OF FACILITIES", for the Consortium for International Earth Science Information Network in Public Law 102-389, \$10,000,000 are rescinded.] (Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 1995.)

Program and Financing (in thousands of dollars)

Identification code 80-0110-0-1-999	1994 actual	1995 est.	1996 est.
Program by activities:			
Direct program:			
00.01 Space science		1,692,900	1,950,055
00.02 Life and microgravity science		458,945	501,905
00.03 Mission to planet Earth		1,220,880	1,337,365
00.04 Aeronautical research and technology		830,200	921,345
00.05 Space access and technology		575,130	698,840
00.06 Launch services		317,205	16,695
00.07 Mission communication services		457,140	462,295
00.08 Academic Programs		97,090	117,875
00.91 Subtotal, direct program		5,649,490	6,006,375

01.01 Reimbursable program	618,852	648,664
10.00 Total obligations	6,268,342	6,655,039
Financing:		
21.40 Unobligated balance available, start of year: Treasury balance		-311,710
24.40 Unobligated balance available, end of year: Treasury balance	311,710	312,235
39.00 Budget authority (gross)	6,580,052	6,655,564
Budget authority:		
Current:		
40.00 Appropriation	5,901,200	6,006,900
42.00 Transferred from other accounts	60,000	
43.00 Appropriation (total)	5,961,200	6,006,900
Permanent:		
68.00 Spending authority from offsetting collections	618,852	648,664
Relation of obligations to outlays:		
71.00 Total obligations	6,268,342	6,655,039
72.40 Obligated balance, start of year: Unpaid obligations: Treasury balance		2,737,992
74.40 Obligated balance, end of year: Unpaid obligations: Treasury balance	-2,737,992	-3,432,920
87.00 Outlays (gross)	3,530,350	5,960,111
Adjustments to gross budget authority and outlays:		
Offsetting collections from:		
88.00 Federal sources	-592,240	-622,693
88.40 Non-Federal sources	-26,612	-25,971
88.90 Total, offsetting collections	-618,852	-648,664
89.00 Budget authority (net)	5,961,200	6,006,900
90.00 Outlays (net)	2,911,498	5,311,447

This appropriation provides for the research and development activities of the National Aeronautics and Space Administration. Funds are included for the construction, maintenance, and operation of programmatic facilities.

Performance Objectives:

Space Science:

Physics and Astronomy.—This program contributes to our understanding of the origin of the universe, the fundamental laws of physics, and the study of the Earth's and other naturally occurring plasmas in the universe. Development activities will continue in FY 1995-96 on the Advanced X-ray Astrophysics Facility in support of a launch in late 1998. Development activities on the Global Geospace Science program are nearing completion. The first of the two missions (Wind) was launched in November 1994 and initial operations are underway. The second mission (Polar) is in final testing prior to a November 1995 launch. Near-term Shuttle payload missions include the Astro-2 mission in early 1995 and reflight of the Tether Satellite System in mid 1996. In Explorers, the X-ray Timing Explorer is scheduled for launch in August 1995. Development activities continue on the Advanced Composition Explorer for a launch in late 1997. Several significant scientific discoveries were reported in 1994 based on data gathered from the Hubble Space Telescope, and similar results are anticipated in the future. Preparations are currently underway for a second servicing mission in early-mid 1997 which will provide two new science instruments and other servicing requirements as needed.

Planetary Exploration.—This program encompasses the scientific exploration of the solar system including the planets and their satellites, comets and asteroids, and the interplanetary medium. Development activities will continue on the Cassini mission to Saturn for launch in 1997. In FY 1994, the Mars Global Surveyor mission was initiated and launch is planned for late 1996. Funds are also requested in FY 1996 to initiate development of future Mars missions in FY 1998 and beyond. Development of the first two Dis-

covery class missions, Mars Pathfinder and the Near-Earth Asteroid Rendezvous, were also initiated in FY 1994 and are scheduled for launch in 1996. Initial funding is also included beginning in FY 1996 for future Discovery class missions. Preliminary studies are currently underway to prepare for the New Millennium Spacecraft initiative to begin in FY 1996. This program will incorporate critical new technologies into a series of small test missions designed to greatly reduce the mass and cost of future science instruments and spacecraft subsystems. After a six-year cruise period, Galileo will arrive at Jupiter in December 1995 to conduct a two-year tour of the planet and its moons.

Life and Microgravity Sciences.—This program uses the microgravity environment of space to conduct basic and applied research to understand the effect of gravity on living systems and to conduct research in the areas of fluid physics, materials science and biotechnology. In FY 1994, experiment and research activities were conducted in support of the International Materials Laboratory (IML)-2 mission, and a U.S. Microgravity Payload mission (USMP-2). In FY 1995, the first Shuttle rendezvous mission with the Russian Space Station Mir will include experiments in life and microgravity sciences. In addition, a U.S. microgravity Spacelab (USML-2) flight will be conducted in FY 1995. An aggressive four year cooperative program with the National Institute of Child Health and Human Development will begin in FY 1995. Research activities will focus on use of NASA's bioreactor technology in the area of AIDS research. In FY 1996, experiments will be conducted on the Life and Microgravity Spacelab mission (LMS) and on the third U.S. Microgravity Payload mission (USMP-3). Cooperative research with Russia will continue, including two module missions to the Mir Space Station carrying life and microgravity hardware.

Mission to Planet Earth.—The goal of this program is to gain a better understanding of the processes in the atmosphere, oceans, land surface and interior of the Earth, and to advance our knowledge of the interactions between these environments. The Upper Atmosphere Research Satellite and TOPEX, supported by ground-based and airborne observations, continue to gather valuable scientific data on the Earth's environment. In 1994, three Space Shuttle missions were flown (SRL-1 and -2, and ATLAS-3) with Earth Science as the major focus. In FY 1995, development of the first Earth Observing Satellite (EOS) Mission for launch in 1998 and development of the Earth Observing System Data Information System (EOSDIS) will continue. Mission to Planet Earth released EOSDIS Version 0 to the public in August 1994. Launch of the Total Ozone Mapping Spectrometer (TOMS) as a free-flying Earth probe is planned for FY 1995. Launch of TOMS and the NASA Scatterometer is planned for 1996. The release of EOSDIS Version 1 in 1996 will support the 1997 launch of the Tropical Rainfall Measurement Mission (TRMM).

Aeronautical Research and Technology.—The goal of this program is to conduct aeronautical research and develop technology to strengthen U.S. leadership in civil and military aviation. During FY 1994, significant augmentations to the Advanced Subsonic Technology Program took place and funding for continuation of all program elements is included in FY 1995 and FY 1996. Phase II of the High Speed Research program began in FY 1994 and is increasing in FY 1995 and FY 1996 and is directed at developing and verifying technologies essential for an economically viable and environmentally compatible future High Speed Civil Transport system. In the area of High Performance Computing, NASA has pioneered the implementation of design and simulation software on parallel machines and, in FY 1995 and FY 1996, will continue its leadership role in this area. In the Research and Technology base, research activities in various aeronautical disciplines will continue to develop innovative concepts,

the physical understanding and the theoretical and computation tools required for the efficient design and operation of advanced aerospace systems. NASA will continue to operate critical national facilities for aeronautical research and for support of industry, Department of Defense and other NASA programs.

Space Access and Technology.—The goal of this program is to provide new and innovative space technologies to meet the challenges and lower the cost of future space missions. In FY 1994, two proposals were selected for the Advanced Small Satellite Technology Initiative (SSTI). The initial two SSTI spacecraft will be developed and launched within 24 months for an average of about \$55 million each (including launch costs). Launch of these spacecraft, called "Lewis" and "Clark" is scheduled for mid-1996. In FY 1995 and 1996, the Reusable Launch Vehicle (RLV) program will fund technology development and concept definition activities in support of next-generation reusable systems and will also fund flight demonstration of the DC-XA, an upgrade of the DC-X vehicle developed and flown by DOD. Based on results of these activities, a decision will be made by the President no later than December, 1996, on whether to proceed with design, construction and flight testing of a large-scale, reusable launch vehicle demonstrator, designated the X-33.

Launch Services.—In FY 1995, this program provides expendable launch vehicles to launch selected NASA satellites to earth orbit and on to planetary missions. In FY 1996, funds for launch vehicles are included in program budgets.

Mission Communication Services.—The primary goal of this operational program in all years is to provide highly reliable, cost-effective telecommunications services in support of NASA's science and aeronautics programs. Other U.S. agencies, international space-faring agencies, and U.S. commercial enterprises are also supported on a reimbursable basis. Ground network, space network, and mission systems are provided under this program in support of planetary, deep space, Earth-orbiting, aeronautic, and suborbital systems.

Academic Programs.—The goal of this program is to promote excellence in America's education system through enhancing and expanding scientific and technological competence. NASA's education programs span from the elementary through graduate level, and are directed at students as well as faculty. The goal of the Minority University Research Program is to expand opportunities for talented students from underrepresented groups pursuing degrees in science and engineering, as well as strengthening the research capabilities of minority universities and colleges. In FY 1994-1996, the range of activities conducted under this program will continue to capture the interest of all students in science and technology, develop talented students at the undergraduate and graduate levels, provide research opportunities for students and faculty members at NASA centers and strengthen and enhance the research capabilities of the nation's colleges and universities.

Object Classification (in thousands of dollars)

Identification code 80-0110-0-1-999	1994 actual	1995 est.	1996 est.
Direct obligations:			
22.0 Transportation of things		6,754	7,181
23.1 Rental payments to GSA		5,170	5,497
23.2 Rental payments to others		44,616	47,434
23.3 Communications, utilities, and miscellaneous charges		90,469	96,184
24.0 Printing and reproduction		7,189	7,643
25.1 Advisory and assistance services		4,219	4,486
25.2 Other services	5,088,191		5,409,618
26.0 Supplies and materials		137,774	146,477
31.0 Equipment		110,713	117,707
32.0 Land and structures		19,720	20,966
41.0 Grants, subsidies, and contributions		134,675	143,182
99.0 Subtotal, direct obligations		5,649,490	6,006,375

General and special funds—Continued

SCIENCE, AERONAUTICS AND TECHNOLOGY—Continued

(INCLUDING RESCISSION OF FUNDS)—Continued

Object Classification (in thousands of dollars)—Continued

Identification code 80-0110-0-1-999	1994 actual	1995 est.	1996 est.
99.0 Reimbursable obligations		618,852	648,664
99.9 Total obligations		6,268,342	6,655,039

NATIONAL AERONAUTICAL FACILITIES

[(INCLUDING RESCISSION)]

[For construction of new national wind tunnel facilities, including final design, modification of existing facilities, necessary equipment, and for acquisition or condemnation of real property as authorized by law, for the National Aeronautics and Space Administration, \$400,000,000, to remain available until March 31, 1997: *Provided*, That the funds made available under this heading shall be rescinded on July 15, 1995, unless the President requests at least \$400,000,000 in the fiscal year 1996 budget request for the National Aeronautics and Space Administration for continuation of this wind tunnel initiative.] (Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 1995.)

Program and Financing (in thousands of dollars)

Identification code 80-0113-0-1-402	1994 actual	1995 est.	1996 est.
Financing:			
40.00 Budget authority: Appropriation		400,000	
Relation of obligations to outlays:			
71.00 Total obligations			
90.00 Outlays			

Summary of Budget Authority and Outlays

(in thousands of dollars)

	1994 actual	1995 est.	1996 est.
Enacted/requested:			
Budget Authority		400,000	
Outlays			
Supplemental proposal:			
Budget Authority			
Outlays			1,000
Total:			
Budget Authority		400,000	
Outlays			1,000

No budget authority is being requested for FY 1996. Instead NASA will use prior year authority to continue refining design options and working with industry on joint financing arrangements in order to support a possible funding request in the future. The supplemental schedule printed in this volume shows the estimated obligations and outlays.

MISSION SUPPORT

For necessary expenses, not otherwise provided for, in carrying out mission support for human space flight programs and science, aeronautical, and technology programs, including research operations and support; space communications activities including operations, production, and services; maintenance; construction of facilities including repair, rehabilitation, and modification of facilities, minor construction of new facilities and additions to existing facilities, facility planning and design, environmental compliance and restoration, and acquisition or condemnation of real property, as authorized by law; program management; personnel and related costs, including uniforms or allowances therefor, as authorized by law (5 U.S.C. 5901-5902); travel expenses; purchase, lease, charter, maintenance, and

operation of mission and administrative aircraft; not to exceed \$35,000 for official reception and representation expenses; and purchase (not to exceed thirty-three for replacement only) and hire of passenger motor vehicles; [\$2,554,587,000] \$2,726,200,000, to remain available until September 30, [1996: *Provided*, That of the amounts made available under the heading "Research and program management" in Public Law 103-211, \$18,000,000 are rescinded immediately upon enactment of this Act: *Provided further*, That an additional \$18,000,000, to remain available until September 30, 1995, shall be immediately available for research and program management activities, contingent upon the enactment of the rescission in the preceding proviso before October 1, 1994] 1997. (Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 1995.)

Program and Financing (in thousands of dollars)

Identification code 80-0112-0-1-999	1994 actual	1995 est.	1996 est.
Program by activities:			
Direct program:			
00.01 Safety, reliability and quality assurance		36,765	37,655
00.02 Space communication services		198,455	313,875
00.03 Research and program management		2,165,661	2,203,780
00.04 Construction of facilities		81,000	153,840
00.91 Subtotal, direct program		2,481,881	2,709,150
01.00 Total direct program		2,481,881	2,709,150
01.01 Reimbursable program		136,286	138,738
10.00 Total obligations		2,618,167	2,847,888
Financing:			
21.40 Unobligated balance available, start of year: Treasury balance			-90,706
24.40 Unobligated balance available, end of year: Treasury balance		90,706	107,756
39.00 Budget authority (gross)		2,708,873	2,864,938
Budget authority:			
Current:			
40.00 Appropriation		2,572,587	2,726,200
Permanent:			
68.00 Spending authority from offsetting collections		136,286	138,738
Relation of obligations to outlays:			
71.00 Total obligations		2,618,167	2,847,888
72.40 Obligated balance, start of year: Unpaid obligations: Treasury balance			404,623
74.40 Obligated balance, end of year: Unpaid obligations: Treasury balance		-404,623	-558,824
87.00 Outlays (gross)		2,213,544	2,693,687
Adjustments to gross budget authority and outlays:			
Offsetting collections from:			
88.00 Federal sources		-127,457	-129,529
88.40 Non-Federal sources		-8,829	-9,209
88.90 Total, offsetting collections		-136,286	-138,738
89.00 Budget authority (net)		2,572,587	2,726,200
90.00 Outlays (net)		2,077,258	2,554,949

Summary of Budget Authority and Outlays

(in thousands of dollars)

	1994 actual	1995 est.	1996 est.
Enacted/requested:			
Budget Authority		2,572,587	2,726,200
Outlays		2,077,259	2,554,950
Rescission proposal:			
Budget Authority		-1,000	
Outlays		-677	-250
Total:			
Budget Authority		2,571,587	2,726,200
Outlays		2,076,582	2,554,700

This appropriation provides for mission support, including: safety, reliability and quality assurance activities supporting

agency programs; space communication services for NASA programs; salaries and related expenses in support of research in NASA field installations; design, repair, rehabilitation and modification of institutional facilities and construction of new institutional facilities; and other operations activities supporting conduct of agency programs.

Performance Objectives:

Safety, Reliability and Quality Assurance.—The goal of this program is to assure the safety and quality of NASA missions, through the development, implementation and oversight of Agencywide safety, engineering, reliability, maintainability, and quality assurance policies and procedures. During FY 1994-FY 1996, flight program utilization of standards developed in this program will continue.

Space Communication Services.—Activities included in this program provide for the tracking, telemetry, command, data acquisition, communications and data processing required by NASA flight projects. In FY 1994-FY 1996, the networks and support systems which accomplish these tasks will continue operation. In FY 1995, the seventh Tracking and Data Relay Satellite (TDRS) will be launched. Completion of the upgrade of the TDRS White Sands Complex and early development of the TDRS Replenishment Spacecraft will occur in FY 1996.

Research and Program Management.—This activity provides for the salaries, travel support, other personnel expenses of the entire NASA civil service workforce. It also includes vital support to the civil service workforce and to the physical plant at the Centers and at NASA Headquarters.

Construction of Facilities.—This activity provides for the repair, rehabilitation and modification of administrative facilities, environmental compliance and restoration activities, the design of facilities projects, and the advanced planning related to future facilities needs. In FY 1994-FY 1996, activities in support of maintenance and repair of administrative facilities at the NASA centers will be conducted, as well as activities in support of environmental compliance and restoration requirements.

Object Classification (in thousands of dollars)

Identification code 80-0112-0-1-999	1994 actual	1995 est.	1996 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	1,284,655	1,325,762	
11.3 Other than full-time permanent	17,805	18,385	
11.5 Other personnel compensation	31,467	26,769	
11.8 Special personal services payments	6,785	7,372	
11.9 Total personnel compensation	1,340,712	1,378,288	
12.1 Civilian personnel benefits	272,504	278,313	
13.0 Benefits for former personnel	2,181	2,223	
21.0 Travel and transportation of persons	50,794	47,746	
22.0 Transportation of things	2,384	2,200	
23.1 Rental payments to GSA	634	983	
23.2 Rental payments to others	465	574	
23.3 Communications, utilities, and miscellaneous charges	3,458	5,140	
24.0 Printing and reproduction	328	492	
25.1 Advisory and assistance services	27	28	
25.2 Other services	726,227	841,664	
26.0 Supplies and materials	5,525	8,350	
31.0 Equipment	75,388	141,724	
32.0 Land and structures	313	424	
41.0 Grants, subsidies, and contributions	941	1,001	
99.0 Subtotal, direct obligations	2,481,881	2,709,150	
99.0 Reimbursable obligations	136,286	138,738	
99.9 Total obligations	2,618,167	2,847,888	

Personnel Summary

Identification code 80-0112-0-1-999	1994 actual	1995 est.	1996 est.
Direct:			
Total compensable workyears:			
1001 Full-time equivalent employment		22,959	22,908

1005 Full-time equivalent of overtime and holiday hours	220	220
Reimbursable:		
2001 Total compensable workyears: Full-time equivalent employment	116	120

MISSION SUPPORT

(REGO legislative proposal, not subject to PAYGO)

NASA is planning to spend roughly \$1 billion over the next five years to build three communications satellites to link some government spacecraft in orbit to the users and operators on the ground. It is possible that commercial firms could supply some part, perhaps even a major part, of these requirements. The impact to current spacecraft users will be examined prior to full commitment to commercial services. It is estimated that this proposal would achieve savings starting in FY 1997.

Federal Funds

General and special funds:

RESEARCH AND DEVELOPMENT

Program and Financing (in thousands of dollars)

Identification code 80-0108-0-1-999	1994 actual	1995 est.	1996 est.
Program by activities:			
Direct program:			
00.01 Space transportation capability development	706,874	77,541	
00.02 Space station	1,808,783	233,814	
00.14 Physics and astronomy	1,040,571	121,278	
00.15 Planetary exploration	631,694	41,620	
00.22 Life and microgravity science	354,246	130,004	
00.23 Mission to planet earth	1,082,798	151,177	
00.29 Advanced concepts and technology	407,668	85,916	
00.41 Transatmospheric research and technology	19,781	219	
00.42 Aeronautical research and technology	978,155	25,971	
00.43 Safety, reliability and quality assurance	31,111	7,343	
00.44 Academic program	89,745	30,178	
00.45 Tracking and data advanced systems	19,247	768	
00.91 Subtotal, direct program	7,170,673	905,829	
01.01 Reimbursable program	544,772		
10.00 Total obligations	7,715,445	905,829	
Financing:			
21.40 Unobligated balance available, start of year: Treasury balance	-544,119	-905,829	
24.40 Unobligated balance available, end of year: Treasury balance	905,829		
25.00 Unobligated balance expiring	1,117		
39.00 Budget authority (gross)	8,078,272		
Budget authority:			
Current:			
Appropriation:			
40.00 Appropriation	7,529,300		
40.00 Supplemental appropriation	40,000		
40.35 Appropriation rescinded	-63,000		
42.00 Transferred from other accounts	27,200		
43.00 Appropriation (total)	7,533,500		
Permanent:			
68.00 Spending authority from offsetting collections	544,772		
Relation of obligations to outlays:			
71.00 Total obligations	7,715,445	905,829	
Obligated balance, start of year:			
72.10 Receivables from other government accounts	-137,708	-161,545	
72.40 Unpaid obligations: Treasury balance	2,926,196	3,354,868	566,967
Obligated balance, end of year:			
74.10 Receivables from other government accounts	161,545		
74.40 Unpaid obligations: Treasury balance	-3,354,868	-566,967	-106,581
77.00 Adjustments in expired accounts	-7,834		
87.00 Outlays (gross)	7,302,776	3,532,185	460,386
Adjustments to gross budget authority and outlays:			
Offsetting collections from:			
88.00 Federal sources	-527,992		

General and special funds—Continued

RESEARCH AND DEVELOPMENT—Continued

Program and Financing (in thousands of dollars)—Continued

Identification code 80-0108-0-1-999	1994 actual	1995 est.	1996 est.
88.40 Non-Federal sources	-16,780		
88.90 Total, offsetting collections	-544,772		
89.00 Budget authority (net)	7,533,500		
90.00 Outlays (net)	6,758,004	3,532,185	460,386

This appropriation provides for research, development and operations activities of the National Aeronautics and Space Administration. Research and development program activities are listed in the Program and Financing schedule above.

Object Classification (in thousands of dollars)

Identification code 80-0108-0-1-999	1994 actual	1995 est.	1996 est.
Direct obligations:			
21.0 Travel and transportation of persons	323	41	
22.0 Transportation of things	8,573	1,083	
23.1 Rental payments to GSA	6,562	829	
23.2 Rental payments to others	56,629	7,154	
23.3 Communications, utilities, and miscellaneous charges	114,828	14,506	
24.0 Printing and reproduction	9,125	1,153	
25.1 Advisory and assistance services	5,355	676	
25.2 Other services	6,457,870	815,785	
26.0 Supplies and materials	174,870	22,090	
31.0 Equipment	140,523	17,751	
32.0 Land and structures	25,030	3,162	
41.0 Grants, subsidies, and contributions	170,936	21,593	
42.0 Insurance claims and indemnities	38	5	
43.0 Interest and dividends	11	1	
99.0 Subtotal, direct obligations	7,170,673	905,829	
99.0 Reimbursable obligations	544,772		
99.9 Total obligations	7,715,445	905,829	

SPACE FLIGHT, CONTROL AND DATA COMMUNICATIONS

Program and Financing (in thousands of dollars)

Identification code 80-0105-0-1-252	1994 actual	1995 est.	1996 est.
Program by activities:			
Direct program:			
00.01 Shuttle production and capability development	967,772	181,335	
00.02 Operations	2,748,574	95,448	
00.03 Launch services	286,466	72,702	
00.04 Tracking and data acquisition	755,012	61,330	
00.91 Total direct program	4,757,824	410,815	
01.01 Reimbursable program	137,231		
10.00 Total obligations	4,895,055	410,815	
Financing:			
21.40 Unobligated balance available, start of year: Treasury balance	-334,754	-410,815	
24.40 Unobligated balance available, end of year: Treasury balance	410,815		
25.00 Unobligated balance expiring	1,215		
39.00 Budget authority (gross)	4,972,331		
Budget authority:			
Current:			
40.00 Appropriation	4,853,500		
40.35 Appropriation rescinded	-32,000		
42.00 Transferred from other accounts	13,600		
43.00 Appropriation (total)	4,835,100		
Permanent:			
68.00 Spending authority from offsetting collections	137,231		
Relation of obligations to outlays:			
71.00 Total obligations	4,895,055	410,815	

Obligated balance, start of year:			
72.10 Receivables from other government accounts	-56,199	-89,746	
72.40 Unpaid obligations: Treasury balance	1,669,305	1,559,083	265,667
Obligated balance, end of year:			
74.10 Receivables from other government accounts	89,746		
74.40 Unpaid obligations: Treasury balance	-1,559,083	-265,667	-66,879
77.00 Adjustments in expired accounts	-2,354		
87.00 Outlays (gross)	5,036,470	1,614,485	198,788
Adjustments to gross budget authority and outlays:			
Offsetting collections from:			
88.00 Federal sources	-123,927		
88.40 Non-Federal sources	-13,304		
88.90 Total, offsetting collections	-137,231		
89.00 Budget authority (net)	4,835,100		
90.00 Outlays (net)	4,899,239	1,614,485	198,788

This appropriation provides for production, operations and support activities for the Space Transportation System which includes the Space Shuttle and expendable launch vehicles; and for tracking, telemetry, command, and data acquisition support of all NASA flight projects.

Object Classification (in thousands of dollars)

Identification code 80-0105-0-1-252	1994 actual	1995 est.	1996 est.
Direct obligations:			
21.0 Travel and transportation of persons	1,612	139	
22.0 Transportation of things	5,674	490	
23.1 Rental payments to GSA	14,384	1,242	
23.2 Rental payments to others	4,192	362	
23.3 Communications, utilities, and miscellaneous charges	68,775	5,938	
24.0 Printing and reproduction	6,729	581	
25.2 Other services	4,485,466	387,298	
26.0 Supplies and materials	102,574	8,857	
31.0 Equipment	62,420	5,390	
32.0 Land and structures	4,434	383	
41.0 Grants, subsidies, and contributions	1,564	135	
99.0 Subtotal, direct obligations	4,757,824	410,815	
99.0 Reimbursable obligations	137,231		
99.9 Total obligations	4,895,055	410,815	

CONSTRUCTION OF FACILITIES

Program and Financing (in thousands of dollars)

Identification code 80-0107-0-1-999	1994 actual	1995 est.	1996 est.
Program by activities:			
Direct program:			
00.01 Space transportation	89,782	45,633	
00.11 Space science	826	4,083	
00.22 Mission to planet Earth	20,695	71,317	
00.31 Advanced concepts and technology	832	13,433	
00.41 Aeronautical research and technology	43,979	213,197	
00.42 Supporting activity	172,094	190,792	
00.91 Total direct program	328,208	538,455	
01.01 Reimbursable program	4,625		
10.00 Total obligations	332,833	538,455	
Financing:			
Unobligated balance available, start of year:			
21.40 Treasury balance	-370,424	-534,855	
U.S. Securities:			
21.41 Par value	-6,105	-6,325	-2,725
21.42 Unrealized discounts	50	16	16
Unobligated balance available, end of year:			
24.40 Treasury balance	534,855		
U.S. Securities:			
24.41 Par value	6,325	2,725	2,850
24.42 Unrealized discounts	-16	-16	-16
25.00 Unobligated balance expiring	63		
39.00 Budget authority (gross)	497,581		125

Budget authority:			
Current:			
40.00	Appropriation	517,700	
40.35	Appropriation rescinded	-25,000	
43.00	Appropriation (total)	492,700	
Permanent:			
68.00	Spending authority from offsetting collections	4,881	125
Relation of obligations to outlays:			
71.00	Total obligations	332,833	538,455
Obligated balance, start of year:			
72.10	Receivables from other government accounts	-1,416	-1,159
72.40	Unpaid obligations: Treasury balance	365,580	318,334
Obligated balance, end of year:			
74.10	Receivables from other government accounts	1,159	
74.40	Unpaid obligations: Treasury balance	-321,559	-318,334
77.00	Adjustments in expired accounts	-812	-159,778
87.00	Outlays (gross)	375,785	540,521
158,556			
Adjustments to gross budget authority and outlays:			
Offsetting collections from:			
88.00	Federal sources	-3,230	
88.20	Interest on U.S. securities	-256	-125
88.40	Non-Federal sources	-1,395	
88.90	Total, offsetting collections	-4,881	-125
89.00	Budget authority (net)	492,700	
90.00	Outlays (net)	370,904	540,521
158,431			

Summary of Budget Authority and Outlays

(in thousands of dollars)

	1994 actual	1995 est.	1996 est.
Enacted/requested:			
Budget Authority	492,700		
Outlays	370,904	540,521	158,431
Rescission proposal:			
Budget Authority		-27,000	
Outlays		-3,800	-14,664
Total:			
Budget Authority	492,700	-27,000	
Outlays	370,904	536,721	143,767

This appropriation provides for contractual services for the design, repair, rehabilitation, and modification of facilities; the construction of new facilities; the purchase of land and equipment related to construction and modification; environmental compliance activities agencywide; and advanced design related to future facilities.

Object Classification (in thousands of dollars)

Identification code 80-0107-0-1-999	1994 actual	1995 est.	1996 est.
Direct obligations:			
22.0 Transportation of things	-36		
25.2 Other services	34,826	60,353	
26.0 Supplies and materials	1,423	2,319	
31.0 Equipment	-4		
32.0 Land and structures	291,999	475,783	
99.0 Subtotal, direct obligations	328,208	538,455	
99.0 Reimbursable obligations	4,625		
99.9 Total obligations	332,833	538,455	

RESEARCH AND PROGRAM MANAGEMENT

Program and Financing (in thousands of dollars)

Identification code 80-0103-0-1-999	1994 actual	1995 est.	1996 est.
Program by activities:			
Direct program:			
00.01 Space transportation	623,861		
00.11 Space science	194,212		
00.21 Life and microgravity science	137,058		

00.22 Mission to planet Earth	145,563		
00.31 Advanced concepts and technology	150,908		
00.42 Aeronautical research and technology	342,609		
00.43 Safety, reliability and quality assurance	21,230		
00.44 Supporting activity	77,466		
00.91 Total direct program	1,692,907		
01.01 Reimbursable program	19,158		
10.00 Total obligations	1,712,065		
Financing:			
21.40 Unobligated balance available, start of year: Treasury balance	-20,000		
24.40 Unobligated balance available, end of year: Treasury balance			
25.00 Unobligated balance expiring	18,601		
39.00 Budget authority (gross)	1,710,666		

Budget authority:			
Current:			
Appropriation:			
40.00	Appropriation	1,635,508	
40.00	Supplemental appropriation	56,000	
43.00	Appropriation (total)	1,691,508	
Permanent:			
68.00	Spending authority from offsetting collections	19,158	

Relation of obligations to outlays:			
71.00	Total obligations	1,712,065	
Obligated balance, start of year:			
72.10	Receivables from other government accounts	-8,082	-8,231
72.40	Unpaid obligations: Treasury balance	100,747	137,260
Obligated balance, end of year:			
74.10	Receivables from other government accounts	8,231	
74.40	Unpaid obligations: Treasury balance	-137,260	-8,462
77.00	Adjustments in expired accounts	-6,397	-555
87.00	Outlays (gross)	1,669,304	120,567
7,907			

Adjustments to gross budget authority and outlays:			
Offsetting collections from:			
88.00	Federal sources	-18,233	
88.40	Non-Federal sources	-925	
88.90	Total, offsetting collections	-19,158	
89.00	Budget authority (net)	1,691,508	
90.00	Outlays (net)	1,650,146	120,567
7,907			

This appropriation provides for salaries and related expenses in support of research in NASA field installations.

Object Classification (in thousands of dollars)

Identification code 80-0103-0-1-999	1994 actual	1995 est.	1996 est.
Direct obligations:			
Personnel compensation:			
11.1 Full-time permanent	1,267,215		
11.3 Other than full-time permanent	20,188		
11.5 Other personnel compensation	21,035		
11.8 Special personal services payments	6,285		
11.9 Total personnel compensation	1,314,723		
12.1 Civilian personnel benefits	264,845		
13.0 Benefits for former personnel	31,648		
21.0 Travel and transportation of persons	38,949		
22.0 Transportation of things	2,921		
25.1 Advisory and assistance services	3,599		
25.2 Other services	36,222		
99.0 Subtotal, direct obligations	1,692,907		
99.0 Reimbursable obligations	19,158		
99.9 Total obligations	1,712,065		

Personnel Summary

Identification code 80-0103-0-1-999	1994 actual	1995 est.	1996 est.
Direct:			
Total compensable workyears:			
1001 Full-time equivalent employment	23,565		
1005 Full-time equivalent of overtime and holiday hours	210		

General and special funds—Continued

RESEARCH AND PROGRAM MANAGEMENT—Continued

Personnel Summary—Continued

Identification code 80-0103-0-1-999	1994 actual	1995 est.	1996 est.
Reimbursable:			
2001 Total compensable workyears: Full-time equivalent employment	104		

OFFICE OF INSPECTOR GENERAL

For necessary expenses of the Office of the Inspector General in carrying out the provisions of the Inspector General Act of 1978, as amended, **[\$16,000,000]** \$17,300,000. (Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 1995.)

Program and Financing (in thousands of dollars)

Identification code 80-0109-0-1-252	1994 actual	1995 est.	1996 est.
Program by activities:			
10.00 Total obligations	14,726	16,000	17,300
Financing:			
25.00 Unobligated balance expiring	665		
40.00 Budget authority (appropriation)	15,391	16,000	17,300
Relation of obligations to outlays:			
71.00 Total obligations	14,726	16,000	17,300
72.40 Obligated balance, start of year: Unpaid obligations:			
Treasury balance	2,929	2,814	3,590
74.40 Obligated balance, end of year: Unpaid obligations:			
Treasury balance	-2,814	-3,590	-4,194
77.00 Adjustments in expired accounts	180		
90.00 Outlays	15,021	15,224	16,696

The mission of the Office of Inspector General is to conduct audits and investigations of agency activities. The Inspector General keeps the Administrator informed of problems and deficiencies in agency programs and operations.

Object Classification (in thousands of dollars)

Identification code 80-0109-0-1-252	1994 actual	1995 est.	1996 est.
Personnel compensation:			
11.1 Full-time permanent	10,708	11,111	12,125
11.3 Other than full-time permanent	245	340	340
11.5 Other personnel compensation	266	250	260
11.9 Total personnel compensation	11,219	11,701	12,725
12.1 Civilian personnel benefits	2,249	2,554	2,710
13.0 Benefits for former personnel	210		
21.0 Travel and transportation of persons	579	875	875
22.0 Transportation of things	21	75	75
23.2 Rental payments to others		5	5
23.3 Communications, utilities, and miscellaneous charges	3		
25.1 Advisory and assistance services	42	20	20
25.2 Other services	287	295	290
26.0 Supplies and materials	116	30	100
31.0 Equipment		445	500
99.9 Total obligations	14,726	16,000	17,300

Personnel Summary

Identification code 80-0109-0-1-252	1994 actual	1995 est.	1996 est.
Total compensable workyears:			
1001 Full-time equivalent employment	204	210	210
1005 Full-time equivalent of overtime and holiday hours	2	2	2

Trust Funds

ENDEAVOR TEACHER FELLOWSHIP TRUST FUND

Program and Financing (in thousands of dollars)

Identification code 80-8550-0-7-503	1994 actual	1995 est.	1996 est.
Program by activities:			
10.00 Total obligations (object class 41.0)		15	15
Financing:			
Unobligated balance available, start of year:			
21.40 Treasury balance	-3	-3	-3
U.S. Securities:			
Par value	-355	-385	-385
Unrealized discounts	3	18	18
Unobligated balance available, end of year:			
24.40 Treasury balance	3	3	3
U.S. Securities:			
Par value	385	385	385
Unrealized discounts	-18	-18	-18
60.27 Budget authority (appropriation) (trust fund, indefinite)	15	15	15
Relation of obligations to outlays:			
71.00 Total obligations		15	15
90.00 Outlays		15	15

SCIENCE, SPACE, AND TECHNOLOGY EDUCATION TRUST FUND

Program and Financing (in thousands of dollars)

Identification code 80-8978-0-7-503	1994 actual	1995 est.	1996 est.
Program by activities:			
10.00 Total obligations (object class 41.0)	1,000	1,350	1,350
Financing:			
Unobligated balance available, start of year:			
21.40 Treasury balance	-1	-1	-1
U.S. Securities:			
Par value	-15,360	-15,750	-15,750
Unrealized discounts	9	11	11
Unobligated balance available, end of year:			
24.40 Treasury balance	1	1	1
U.S. Securities:			
Par value	15,750	15,750	15,750
Unrealized discounts	-11	-11	-11
60.27 Budget authority (appropriation) (trust fund, indefinite)	1,388	1,350	1,350
Relation of obligations to outlays:			
71.00 Total obligations	1,000	1,350	1,350
72.40 Obligated balance, start of year: Unpaid obligations:			
Treasury balance	462	264	264
74.40 Obligated balance, end of year: Unpaid obligations:			
Treasury balance	-264	-264	-264
90.00 Outlays	1,198	1,350	1,350

MISCELLANEOUS TRUST FUNDS

Program and Financing (in thousands of dollars)

Identification code 80-9971-0-7-252	1994 actual	1995 est.	1996 est.
Program by activities:			
10.00 Total obligations	18	20	20
Financing:			
Unobligated balance available, start of year: Treasury balance	-453	-606	-589
24.40 Unobligated balance available, end of year: Treasury balance	606	589	572
60.27 Budget authority (appropriation) (trust fund, indefinite)	171	3	3
Relation of obligations to outlays:			
71.00 Total obligations	18	20	20

72.40	Obligated balance, start of year: Unpaid obligations:			
	Treasury balance	6		
74.40	Obligated balance, end of year: Unpaid obligations:			
	Treasury balance	-6		
90.00	Outlays	12	26	20

ADMINISTRATIVE PROVISIONS
[INCLUDING TRANSFER OF FUNDS]

[Of the budgetary resources available to the National Aeronautics and Space Administration during fiscal year 1995, \$59,003,000 are permanently canceled. The Administrator of the National Aeronautics and Space Administration shall allocate the amount of budgetary resources canceled among the agency's accounts available for procurement and procurement-related expenses. Amounts available for procurement and procurement-related expenses in each such account shall be reduced by the amount allocated to such account. For the purposes of this paragraph, the definition of "procurement" includes all stages of the process of acquiring property or services, beginning with the process of determining a need for a product or service and ending with contract completion and closeout, as specified in 41 U.S.C. 403(2).]

Notwithstanding the limitation on the availability of funds appropriated for "Human space flight", "Science, aeronautics and technology", or "Mission support" by this appropriations Act, when any activity has been initiated by the incurrence of obligations for construction of facilities as authorized by law, the amount available for such activity shall remain available until expended. This provision does not apply to the amounts appropriated in "Mission support" pursuant to the authorization for repair, rehabilitation and modification of facilities, minor construction of new facilities and additions to existing facilities, and facility planning and design.

Notwithstanding the limitation on the availability of funds appropriated for "Human space flight", "Science, aeronautics and technology", or "Mission support" by this appropriations Act, the amounts appropriated for construction of facilities shall remain available until September 30, [1997] 1998.

Notwithstanding the limitation on the availability of funds appropriated for "Mission support" and "Inspector General", amounts made available by this Act for personnel and related costs and travel expenses of the National Aeronautics and Space Administration shall remain available until September 30, [1995] 1996 and may be used

to enter into contracts for training, investigations, cost associated with personnel relocation, and for other services, to be provided during the next fiscal year.

[No amount appropriated pursuant to this or any other Act may be used for the lease or construction of a new contractor-funded facility for exclusive use in support of a contract or contracts with the National Aeronautics and Space Administration under which the Administration would be required to substantially amortize through payment or reimbursement such contractor investment, unless an appropriations Act specifies the lease or contract pursuant to which such facilities are to be constructed or leased or such facility is otherwise identified in such Act. The Administrator may authorize such facility lease or construction, if he determines, in consultation with the Committees on Appropriations, that deferral of such action until the enactment of the next appropriations Act would be inconsistent with the interest of the Nation in aeronautical and space activities.]

The unexpired balances of prior appropriations to NASA for activities for which funds are provided under this Act may be transferred to the new account established for the appropriation that provides funds for such activity under this Act. Balances so transferred may be merged with funds in the newly established account and thereafter may be accounted for as one fund to be available for the same purposes and under the same terms and conditions.

[The fourth proviso in the paragraph under the heading "Science, space, and technology education trust fund" in the Department of Housing and Urban Development—Independent Agencies Appropriations Act, 1989 (Public Law 101-404, 102 Stat. 1014, 1028) is amended by striking out "for a ten-year period" and inserting in lieu thereof "hereafter".]

[Notwithstanding any other provision of law or regulation, the National Aeronautics and Space Administration shall convey, without reimbursement, to the City of Slidell, Louisiana, all rights, title, and interest of the United States in the property, including all improvements thereon, known as the Slidell Computer Complex, and consisting of approximately 14 acres in the City of Slidell, St. Tammany Parish, Louisiana: *Provided*, That appropriated funds may be used to effect this conveyance: *Provided further*, That in consideration of this conveyance, the National Aeronautics and Space Administration may require such other terms and conditions as the Administrator deems appropriate to protect the interests of the United States.] (*Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations Act, 1995.*)