

The Chart Page

Edited by Colleen A. Nash, Associate Editor

Details of the Budget Drop

In January, President Bush presented to Congress a DoD budget request for Fiscal Year 1991 that is 2.6 percent below the FY 1990 level, adjusted for inflation. The proposal for the **entire defense program** (DoD activities and some activities in the Department of Energy and other federal agencies) is \$306.9 billion in budget authority and \$303.3 billion in outlays for FY 1991. The **direct program** (DoD activities only) is \$295.1 billion in budget authority and \$292.1 billion in outlays.

The Pentagon says that at the levels proposed in the 1991 request, defense spending will have declined by a cumulative 15.9 percent (after inflation) since 1985. "By 1995, defense spending will be at its lowest level, measured either as a share of GNP or as a portion of total federal spending, since before World War II," says Secretary of Defense Dick Cheney.

While he recognizes the political imperative, he warns against cutting too deeply. "We need to maintain the quality of the force, our ability to attract first-class people, and military readiness—the measure of proficiency of our forces."

Funding levels can be expressed in several ways. Totals are most frequently stated as **budget authority** (the value of new obligations, including some to be met in later years, which the government is authorized to incur) or **outlays** (actual expenditures, some of which are funded by budget authority in previous years).

Another difference concerns the value of money. When funding is in **constant or real dollars**, the effect of inflation has been factored out to make direct comparisons between budget years possible. A specific year, often the present one, is chosen as a baseline for constant dollars. When funding is in **current or then-year dollars**, no adjustment has taken place. This is the actual amount that has been spent, budgeted, or forecast.

The following charts address only the direct program. In some instances, numbers on the charts in this section may not sum to totals shown because of rounding.

The Fall in the FYDP

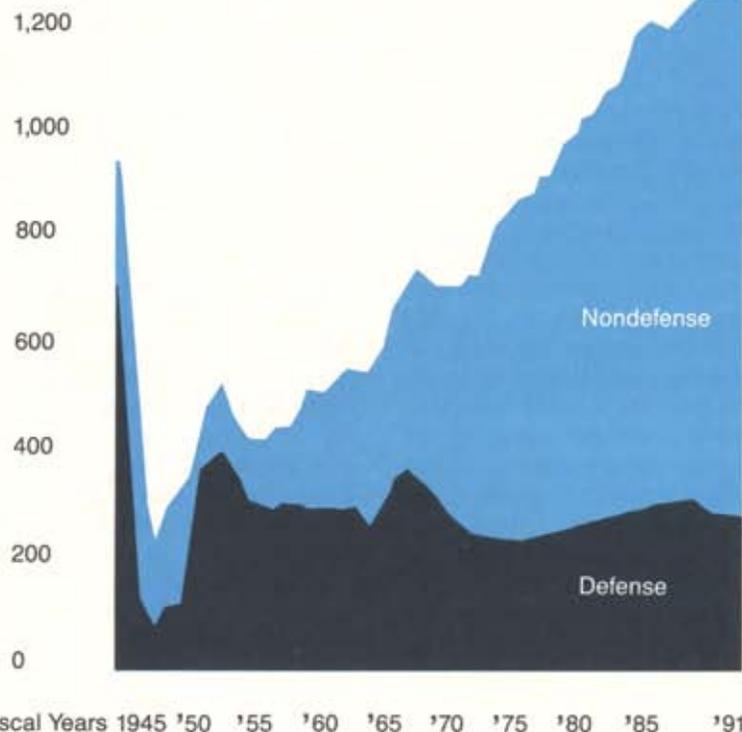
(Budget authority in current \$ billions)

	Fiscal Year					Cumulative 1990—94
	1990	1991	1992	1993	1994	
April 1989 Plan	295.6	317.5	332.4	351.0	369.4	1,665.9
Cuts	-4.2	-22.4	-32.4	-46.6	-61.4	-167.0
January 1990 Plan	291.4	295.1	300.0	304.4	308.0	1,498.9

The FY 1991 budget request is \$22.4 billion (adjusted for inflation and other economic factors) below the Administration's April 1989 budget plan. It takes another \$167 billion out of the Five-Year Defense Program. Including previous reductions, the FYDP has been cut by \$231 billion in the past year.

Federal Spending Profile

(Outlays in billions of constant FY 1991 dollars)



The real growth in federal spending since 1945 has been in such nondefense areas as social and entitlement programs and interest payments. Planned defense outlays represent a declining share of total federal outlays.

The Relative Burden of Defense

Fiscal Year	Federal Outlays as Percent of GNP	DoD Outlays as Percent of Federal Outlays	DoD Outlays as Percent of GNP	Non-DoD Outlays as Percent of Federal Outlays	Non-DoD Outlays as Percent of GNP
1950	16.0	27.5	4.4	72.5	11.6
1955	17.6	51.5	9.1	48.5	8.6
1960	18.2	45.0	8.2	55.0	10.0
1965	17.5	38.8	6.8	61.2	10.7
1970	19.8	39.4	7.8	60.6	12.0
1971	19.9	35.4	7.0	64.6	12.8
1972	20.0	32.6	6.5	67.4	13.5
1973	19.1	29.8	5.7	70.2	13.4
1974	19.0	28.8	5.5	71.2	13.5
1975	21.8	25.5	5.6	74.5	16.2
1976	21.9	23.6	5.2	76.4	16.7
1977	21.1	23.4	4.9	76.6	16.2
1978	21.1	22.5	4.7	77.5	16.4
1979	20.5	22.8	4.7	77.2	15.8
1980	22.2	22.5	5.0	77.5	17.2
1981	22.7	23.0	5.2	77.0	17.5
1982	23.7	24.5	5.8	75.5	17.9
1983	24.3	25.4	6.2	74.6	18.2
1984	23.1	25.9	6.0	74.1	17.1
1985	24.0	25.9	6.2	74.1	17.8
1986	23.6	26.8	6.3	73.2	17.3
1987	22.6	27.3	6.2	72.7	16.4
1988	22.3	26.5	5.9	73.5	16.3
1989	22.2	25.6	5.7	74.4	16.5
1990	21.8	24.0	5.2	76.0	16.6
1991	21.0	23.7	5.0	76.3	16.0

Where the Money Goes

(Budget authority in \$ millions)

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991
Current Dollars								
Military Personnel	48,363	67,773	67,794	74,010	76,584	78,477	78,548	79,054
Retired Pay	16,503	—	—	—	—	—	—	—
Operations & Maintenance	70,950	77,803	74,888	79,607	81,629	86,221	86,761	90,092
Procurement	86,161	96,842	92,506	80,234	80,053	79,390	82,561	77,855
Research, Development, Test and Evaluation (RDT&E)	26,867	31,327	33,609	35,644	36,521	37,530	36,809	37,972
Military Construction	4,510	5,517	5,281	5,093	5,349	5,738	5,266	5,578
Family Housing	2,669	2,890	2,803	3,075	3,199	3,276	3,221	3,458
Other	2,127	4,650	4,508	1,807	419	204	-1,796	1,123
Total	258,150	286,802	281,390	279,469	283,755	290,837	291,369	295,131
Constant FY 1991 Dollars								
Military Personnel	63,155	80,110	77,261	82,442	82,100	81,460	81,142	79,054
Retired Pay	20,872	—	—	—	—	—	—	—
Operations & Maintenance	88,314	94,934	90,434	93,034	92,451	93,680	90,885	90,092
Procurement	110,696	120,712	111,707	93,481	89,698	85,559	85,627	77,855
RDT&E	34,311	38,819	40,562	41,706	41,198	40,653	38,306	37,972
Military Construction	5,820	6,905	6,423	5,973	6,021	6,203	5,469	5,578
Family Housing	3,355	3,535	3,349	3,576	3,604	3,546	3,356	3,458
Other	2,700	5,710	5,385	2,100	473	221	-1,872	1,123
Total	329,224	350,724	335,123	322,311	315,546	311,324	302,915	295,131
Percent Real Growth								
Military Personnel	1.2	26.8	-3.6	6.7	-0.4	-0.8	-0.4	-2.6
Retired Pay	-1.2	-100.0	0.0	0.0	0.0	0.0	0.0	0.0
Operations & Maintenance	5.2	7.5	-4.7	2.9	-0.6	1.3	-3.0	-0.9
Procurement	3.8	9.0	-7.5	-16.3	-4.0	-4.6	0.1	-9.1
RDT&E	13.6	13.1	4.5	2.8	-1.2	-1.3	-5.8	-0.9
Military Construction	-3.2	18.6	-7.0	-7.0	0.8	3.0	-11.8	2.0
Family Housing	-4.4	5.4	-5.2	6.8	0.8	-1.6	-5.4	3.0
Total	4.6	6.5	-4.4	-3.8	-2.1	-1.3	-2.7	-2.6

The constant dollar (adjusted for inflation) portion of this chart makes it possible to compare the real gains and losses. Lower budget authority in the Military Personnel Accounts in FY 1986 reflects the congressional direction to finance \$4.5 billion for the military pay raise and retirement accrual costs by transfers from prior-year unobligated balances. From 1985 on, Retired Pay accrual is included in the Military Personnel appropriation.

Service Shares

(Budget authority in \$ millions)

	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991
Current Dollars								
Army	62,181	74,270	73,128	73,984	75,813	78,079	77,606	75,798
Navy	82,088	99,015	96,113	93,500	100,281	97,675	99,609	99,484
Air Force	86,108	99,420	94,870	91,624	88,324	94,685	92,944	94,817
Defense Agencies/OSD/JCS	10,746	13,126	15,520	19,195	17,021	18,154	17,855	21,175
Defense-wide	17,027	970	1,759	1,168	2,315	2,245	3,356	3,858
Total	258,150	286,802	281,390	279,469	283,755	290,837	291,369	295,131
Constant FY 1991 Dollars								
Army	80,613	90,936	86,997	85,305	83,959	83,236	80,557	75,798
Navy	104,583	121,238	114,555	107,752	111,475	104,511	103,514	99,484
Air Force	108,512	120,836	112,464	105,289	98,230	101,442	96,780	94,817
Defense Agencies/OSD/JCS	13,977	16,514	18,986	22,604	19,275	19,705	18,574	21,175
Defense-wide	21,540	1,200	2,120	1,362	2,608	2,429	3,490	3,858
Total	329,224	350,724	335,123	322,311	315,546	311,324	302,915	295,131
Percent of Real Growth								
Army	4.2	12.8	-4.3	-1.9	-1.6	-0.9	-3.2	-5.9
Navy	-2.8	15.9	-5.5	-5.9	3.5	-6.2	-1.0	-3.9
Air Force	13.6	11.4	-6.9	-6.4	-6.7	3.3	-4.6	-2.0
Defense Agencies/OSD/JCS	11.8	18.2	15.0	19.1	-14.7	2.2	-5.7	14.0
Defense-wide	-1.8	-94.4	76.6	-35.8	91.5	-6.9	43.7	10.5
Total	4.6	6.5	-4.4	-3.8	-2.1	-1.3	-2.7	-2.6
Service Percentages								
Army	24.1	25.9	26.0	26.5	26.7	26.9	26.6	25.7
Navy	31.8	34.5	34.2	33.5	35.3	33.6	34.2	33.7
Air Force	33.4	34.7	33.7	32.8	31.1	32.6	31.9	32.1
Defense Agencies/Defense-wide	10.6	4.9	6.1	7.3	6.8	7.0	7.3	8.5

The bulge in the Navy budget for 1988 reflects funding for two *Nimitz*-class carriers. From 1985 on, budgets of the individual services include Retired Pay accrual.

Manpower Trends

(End strength in thousands)

	Actual										Programmed	
	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984	FY 1985	FY 1986	FY 1987	FY 1988	FY 1989	FY 1990	FY 1991
Active Component Military												
Army	777	781	780	780	780	781	781	781	772	770	744	728
Navy	527	540	553	557	565	571	581	587	593	593	591	585
Marine Corps	189	191	192	194	196	198	199	199	197	197	197	197
Air Force	562	575	588	597	597	601	608	607	576	571	545	530
Total	2,055	2,087	2,113	2,128	2,138	2,151	2,169	2,174	2,138	2,131	2,077	2,040
Reserve Component Military (Selected Reserve)												
Army National Guard	366.6	389.0	407.6	417.2	434.3	440.0	446.2	451.9	455.2	457.0	447.3	447.3
Army Reserve	213.2	232.0	256.7	266.2	275.1	292.1	309.7	313.6	312.8	319.2	309.2	309.2
Naval Reserve	97.1	98.3	104.8	109.1	120.6	129.8	141.5	148.1	149.5	151.2	153.4	149.7
Marine Corps Reserve	35.7	37.3	40.5	42.7	40.6	41.6	41.6	42.3	43.6	43.6	44.0	43.9
Air National Guard	96.3	98.3	100.6	102.2	105.0	27.3	112.6	114.6	115.2	116.1	116.2	116.3
Air Force Reserve	59.8	62.3	64.4	67.2	70.3	75.2	78.5	80.4	82.1	83.2	84.9	85.2
Total	868.7	917.2	974.6	1,004.6	1,045.9	1,006.0	1,130.1	1,150.9	1,158.4	1,170.6	1,155.0	1,151.6
Direct Hire Civilian												
Army ¹	312	318	321	332	343	359	353	358	337	347	334	334
Navy	298	310	309	328	332	343	332	343	337	343	337	330
Air Force ¹	231	233	235	238	240	250	250	252	241	249	249	246
Defense Agencies	75	79	80	82	85	91	92	96	95	98	98	103
Total	916	940	945	980	1,000	1,043	1,027	1,049	1,010	1,037	1,018	1,013

¹These totals include Army and Air National Guard technicians, who were converted from state to federal employees in FY 1979.

General-Purpose Force Trends

	FY 1980	FY 1984	FY 1986	FY 1988	FY 1989	FY 1990	FY 1991
Land Forces							
Army Divisions							
Active	16	16	18	18	18	18	16
Reserve	8	8	10	10	10	10	10
Marine Corps Divisions							
Active	3	3	3	3	3	3	3
Reserve	1	1	1	1	1	1	1
Army Separate Brigades¹							
Active	8	8	7	8	8	8	8
Reserve	26	23	20	20	20	19	19
Army Special Forces Groups							
Active	2	4	4	4	4	5	5
Reserve	4	4	4	4	4	4	4
Army Ranger Regiment							
	0	0	1	1	1	1	1
Tactical Air Forces (Primary Aircraft Authorized/Squadrons)							
Air Force Attack and Fighter Aircraft							
Active	1,608/74	1,734/77	1,764/78	1,868/79	1,769/79	1,743/75	1,746/75
Reserve	758/36	852/43	876/43	909/43	897/42	867/42	849/42
Conventional Bombers							
B-52G	0	0	0	0	61	33	33
Navy Attack and Fighter Aircraft							
Active	696/60	616/63	758/65	758/67	730/65	698/66	684/66
Reserve	120/10	75/ 9	107/10	121/10	118/10	61/10	116/10
Marine Corps Attack and Fighter Aircraft							
Active	329/25	256/24	333/25	346/25	335/25	348/26	383/27
Reserve	84/ 7	90/ 8	94/ 8	96/ 8	90/ 8	102/ 8	102/ 8
Naval Forces							
Strategic Forces Ships	48	41	45	43	42	40	41
Battle Forces Ships	384	425	437	437	434	412	397
Support Forces Ships	41	46	55	60	64	66	68
Reserve Forces Ships	6	12	18	25	26	33	40
Total Deployable Battle Forces	479	524	555	565	566	551	546
Other Reserve Forces Ships							
Other Reserve Forces Ships	44	24	21	21	21	21	17
Other Auxiliaries	8	9	7	5	3	3	3
Total Other Forces	52	33	28	26	24	24	20

¹Does not include roundout brigades; does include the Eskimo scout group and the armored cavalry regiments.

Personnel Cuts

	FY 1990 Reduction	FY 1991 Reduction	Cumulative Reduction
Active Military			
Army	-26,000	-16,000	-42,000
Navy	-2,000	-6,000	-8,000
Marine Corps	—	—	—
Air Force	-26,000	-15,000	-41,000
Selected Reserves	-16,000	-3,000	-19,000
Civilians	-16,000	-5,000	-21,000
Total	-86,000	-45,000	-131,000



—Staff photo by Guy Aceto

Army and Air Force active-duty manpower levels will be at their lowest since 1950. A civilian hiring freeze and other measures have been taken in hopes of achieving the reduction by attrition.

Impact on Force Structure

(Dollars in millions)

	FY 1991	FY 1992-1994
Deactivate Two Army Divisions	-\$1,227	-\$4,940
Retire Two Battleships	-75	-534
Retire Two Nuclear Cruisers	+9	+99
Deactivate Eight SSNs	-232	-105
Marine Corps Artillery Batteries	-5	-44
Deactivate Fourteen B-52s	-71	-246
Minuteman II	-128	TBD
WC-130 Weather Reconnaissance	+5	—
Total	-\$1,724	-\$5,770

Program Terminations

(Budget authority in current \$ billions)

System	FY 1991	FY 1991-94
V-22 Osprey	-1,395 ¹	-6,468
F-14D Aircraft	-469 ¹	-1,991
Army Helicopter Improvement Program (AHIP)	-328 ¹	-1,400
Phoenix Missile	-333 ¹	-614
M-88A2 Improved Recovery Vehicle	-90 ¹	-309
F-15E Aircraft	+303 ¹	-3,317
Apache Helicopter	-682	-2,528
M1 Tank	-1,086	-6,249
Maverick Missile	-367	-743
Air Force Airborne Self-Protection Jammer	-264	-1,199
Combined Effects Munition	-142	-399
Sea Lance ASW Standoff Weapon	-156	-975
Non-Line-of-Sight Missile	-131	-1,202
Advanced Short-Range Air-to-Air Missile	-7	-46
Follow-On to F-4G Wild Weasel	-12	-176
Air Base Survivability	-19	-130
Chaparral Missile	-26	-157
MK 19 Grenade Launcher	-20	-130
OV-1D Aircraft Mod Program	-37	-120
Autonomous Precision Guided Munition	-27	-114
Total	-5,288	-28,267

¹Terminated in FY 1990 budget, but funding planned in outyears (FY 1991-94).

The Tempo of Training

	FY 1989	FY 1990 ¹	FY 1991 ¹
Flying Hours per Crew per Month			
Army Combat Forces	14.6	15.0	14.5
Army Reserve	8.0	8.0	8.0
Army National Guard	9.0	9.0	9.0
Navy/Marine Tacair/ASW			
USNR/MCR Tacair/ASW	25.0	25.0	25.0
Air Force Tacair			
Air National Guard	11.0	11.0	11.0
Air Force Reserve	11.0	11.0	11.0
Air Force Airlift	31.0	30.1	30.2
Air National Guard	15.0	15.0	15.0
Air Force Reserve	15.0	15.0	15.0
Air Force Strategic	18.2	17.7	17.6
Air National Guard	16.0	16.0	16.0
Air Force Reserve	16.0	16.0	16.0
Navy Steaming Days per Quarter			
Deployed Fleets	52.5	50.5	50.5
Nondeployed Fleets	27.5	29.0	29.0
US Naval Reserve Nondeployed Fleets	21.0	21.0	21.0
Army Ground Miles per Year			
Army Reserve	820	800	800
Army National Guard	200	200	200
	288	288	288

¹Requested.

DoD says that it will maintain operating tempos at the levels needed to ensure ready forces. For the most part, training operations will continue at the FY 1990 budgeted level.

Funding for Major USAF Systems

(Budget authority in \$ millions)

	FY 1989	FY 1990	FY 1991
Aircraft			
AC-130U Gunship	400.8	262.6	55.1
C-17 Airlifter	2,014.4	2,319.3	2,716.8
C-130H (Guard and Reserve)	406.9	308.2	120.0
Civil Air Patrol Aircraft	1.8	2.5	1.9
F-15E Fighter	1,554.8	1,534.9	1,844.7
F-16 Fighter	3,199.3	3,220.2	2,972.7
KC-135 Reengining	750.5	574.6	459.7
LANTIRN Night Precision Attack System	709.0	261.8	200.3
MC-130H Combat Talon	377.4	227.0	139.2
NH-60G Helicopter	78.5	66.9	43.5
TTTS Tanker/Transport Trainer	13.6	148.0	195.5
E-8A Joint STARS Aircraft	232.1	88.1	232.5
C-27A Mission Support Aircraft	—	83.6	90.6
B-2 Bomber	5,307.6	4,302.1	5,535.9
HC-130 Tanker Rescue Aircraft	—	42.6	—
C-20 Jet Transport	—	49.2	—
C-26 Transport Aircraft	—	36.0	—
Missiles			
AMRAAM Air-air Missile ¹	801.1	698.6	915.5
HARM Air-ground Missile ¹	217.4	81.0	33.6
IIR Maverick Air-ground Missile ¹	261.1	173.5	7.3
Peacekeeper ICBM	1,266.1	1,723.7	2,836.3
Sidewinder Air-air Missile ¹	37.1	.5	.4
Sparrow Air-air Missile ¹	54.0	—	—
SRAM II Air-ground Missile	190.9	226.3	183.4
Have Nap Air-ground Missile	36.1	24.7	27.9
Advanced Cruise Missile (ACM)	97.0	367.6	540.9
Other Procurement			
9-mm Handgun ³	1.9	—	—
Defense Meteorological Satellite Program (DMSP)	208.7	164.2	197.5
Defense Satellite Communications System (DSCS)	86.3	73.3	80.4
HMMWV 5/4-Ton Truck ²	4.3	—	—
Mobile Armored Recon Vehicle (MARV)	20.6	.3	—
Medium Launch Vehicle (MLV)	255.4	164.9	269.7
Navstar Global Positioning System	120.8	80.9	250.6
Over-the-Horizon Backscatter Radar (OTH-B)	201.1	219.6	254.5
Space Boosters	801.9	680.8	472.1
Space Shuttle Operations	44.3	82.8	34.2
North Warning System (NWS)	198.5	196.0	7.6
R&D			
Advanced Tactical Fighter	674.5	1,045.9	1,047.4
Aircraft Engine Component Improvement Program ¹	132.9	111.6	135.5
Advanced Launch System	—	86.2	60.3
Joint Programs			
Unmanned Aerial Vehicles (UAVs)	90.4	111.2	103.6
Strategic Defense Initiative	3,710.4	3,581.7	4,471.3
Air Defense Initiative	155.1	149.9	246.9
Long-Range Conventional Standoff Weapon	33.4	18.8	55.4
National Aerospace Plane	228.4	192.5	158.0

¹ Navy and Air Force funding involved.

² Army, Navy, and Air Force funding involved.

³ All services.