PROGRAM ACQUISITION COSTS BY WEAPON SYSTEM



Department of Defense Budget for Fiscal Year 2001

February 2000

This document is prepared for the convenience and information of the public and the press. It is based on the best information available at the time of publication.

DEPARTMENT OF DEFENSE FY 2001 BUDGET PROGRAM ACQUISITION COSTS

(Dollars in Millions)

Weapon Programs by Service & Name

	, ,				Page
<u>Army</u>	<u>AIRCRAFT</u>	FY 1999	FY2000	FY2001	No.
AH-64D	Longbow Apache	633.2	826.6	775.0	1
RAH-66	Comanche Helicopter	352.2	463.1	614.0	2
UH-60	Blackhawk Helicopter	273.3	225.7	116.7	3
<u>Navy</u> AV-8B	Horrion	206.4	257.0	070.0	4
CH-60S	Harrier Helicopter	396.1 175.4	357.0 410.9	273.2 270.7	4 5
EA-6B	Prowler	269.9	399.6	258.6	5 6
E-2C	Hawkeye	453.4	431.9	352.7	7
E-2C F/A-18E/F	Hornet	3,097.6	3,059.8	3,080.6	8
T-45TS	Goshawk	3,097.6	343.5	280.6	9
SH-60R		199.7	343.5 348.9	246.8	10
3H-00K	Helicopter	199.7	340.9	240.0	10
Air Force					
B-2	Stealth Bomber	406.0	493.7	145.2	11
C-17	Airlift Aircraft	3,174.3	3,540.0	3,081.0	12
CAP	Civil Air Patrol	3.0	2.5	2.5	13
E-8C	Joint Surveillance Target Attack				
	Radar System (Joint Stars)	666.7	507.4	427.3	14
F-15A	Eagle Multi-Mission Fighter	101.0	417.8	61.3	15
F-16 C/D	Falcon Multi-Mission Fighter	156.6	422.1	149.2	16
F-22	Raptor	2,356.7	2,225.6	3,957.9	17
ABL	Airborne Laser	252.4	304.2	148.6	18
DoD Wide/					
Joint					
JPATS	Joint Primary Aircraft				
017110	Training System	147.2	200.5	210.2	19
JSF	Joint Strike Fighter	924.9	489.0	856.7	20
V-22	Osprey	1,044.7	1,207.3	1,843.1	21
C-130J	Airlift Aircraft	558.5	250.2	435.7	22
Army	<u>MISSILES</u>				
<u>Army</u> ATACMS	Army Tactical Missile System	279.3	361.8	272.9	23
BAT	Brilliant Anti-Armor Submunition	279.3 226.4	285.7	272.9	23 24
JAVELIN	AAWS-M	345.5	265.7 349.6	379.3	24 25
LONGBOW	Longbow Hellfire Missile	343.3	349.6 292.9	285.4	26 26
MLRS	Multiple Launch Rocket System	151.0	292.9	264.1	20 27
AVENGER	Missile System	34.7	34.2	32.7	28
AVENUEIX	WIISSIIC CYSICITI	J 4 .1	J -1 .2	JZ.1	20

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DEPARTMENT OF DEFENSE FY 2001 BUDGET PROGRAM ACQUISITION COSTS

(Dollars in Millions)

Weapon Programs by Service & Name

News	MICCH FC	EV 4000	EV2000	EV2004	Page
<u>Navy</u> RAM	MISSILES Rolling Airframe Missile	FY 1999 51.2	FY2000 53.4	FY2001 29.4	<u>No.</u> 29
STANDARD	Missile (Air Defense)	231.8	212.4	186.7	30
TOMAHAWK	Cruise Missile	592.1	142.6	91.4	31
TRIDENT II	Sub Launched Ballistic Missile	353.4	525.5	496.0	32
Marina Carna					
<u>Marine Corps</u> JAVELIN	AAWS-M	83.4	93.8	30.4	33
PREDATOR	Predator Short Range Attack	14.7	10.7	43.9	34
	The second secon				
DoD WIDE/					
JOINT	Advanced Medium Dance				
AMRAAM	Advanced Medium Range Air-to-Air Missile	179.3	202.0	203.7	35
JASSM	Joint Air-to-Surface Standoff	179.5	202.0	203.7	33
<i>o.</i> 100	Missile	122.9	166.4	122.3	36
JSOW	Joint Standoff Weapon	228.5	195.9	285.0	37
AIM-9X	Sidewinder	106.4	117.2	100.1	38
Navy	VESSELS				
CVN-77	Aircraft Carrier	284.8	997.6	4,377.3	39
DDG-51	AEGIS Destroyer	2,899.2	3,005.9	3,385.8	40
NSSN	New Attack Submarine	2,293.4	1,118.6	2,031.6	41
LPD-12	San Antonio Class Amphibious	0040	4 547 0	4 500 4	40
ADC (X)	Transport Ship Auxilliary Dry Cargo Ship	634.2 5.7	1,517.9 450.7	1,536.4 339.0	42 43
ADC (A)	Additionally Dry Cargo Ship	5.7	450.7	559.0	40
<u>Army</u>	COMBAT VEHICLES				
MAV	Medium Armored Vehicle	-	-	646.4	44
M1A2	Abrams Tank Upgrade	707.6	679.3	610.4	45 46
M2A3 Crusader	Bradley Base Sustainment Artillery System	429.4 300.5	413.8 266.2	390.9 355.5	46 47
Clusadel	Artillery System	300.5	200.2	333.3	41
<u>Army</u>	SPACE PROGRAMS				
DSCS	Defense Satellite Communications				
	System (Ground System)	123.9	89.2	93.1	48

DEPARTMENT OF DEFENSE FY 2001 BUDGET PROGRAM ACQUISITION COSTS

(Dollars in Millions)

Weapon Programs by Service & Name

	SPACE PROGRAMS				Page
Air Force		FY 1999	FY2000	FY2001	<u>No.</u>
DSP	Defense Support Program	101.2	115.8	115.9	49
MLV	Medium Launch Vehicles	175.8	64.0	55.9	50
MILSTAR	Satellite Communications	514.0	357.2	236.8	51
NAVSTAR GPS	NAVSTAR Global Positioning				
	System	189.4	232.9	460.5	52
TITAN	Heavy Launch Vehicle	605.4	474.0	495.5	53
EELV	Evolved Expendable Launch Vehicle	242.0	386.1	620.9	54
SBIRS-H	Space Based Infrared Systems-High	508.5	420.5	569.2	55
SBIRS-L	Space Based Infrared Systems-Low	181.3	225.6	241.0	56
	OTHER PROGRAMS				
<u>Army</u>					
FHTV	Family of Heavy Tactical Vehicles	199.1	194.8	166.1	57
FMTV	Family of Medium Tactical Vehicles	335.6	426.1	440.3	58
HMMWV	High Mobility Multipurpose				
	Wheeled Vehicles	73.7	99.2	120.6	59
SADARM	Sense and Destroy Armor Munition	61.6	39.0	67.7	60
Air Force					
SFW	Sensor Fuzed Weapon	125.8	97.0	107.2	61
WCMD	Wind Corrected Munitions Dispenser	26.2	52.5	104.0	62
	54				
DoD WIDE/					
<u>JOINT</u>					
BMD	Ballistic Missile Defense	4,970.3	4,207.9	4,727.0	64
TMD	Theater Missile Defense	2,730.7	3,244.4	2,808.3	66
NMD	National Missile Defense	1,092.2	1,544.2	1,916.3	67
JADM	Joint Direct Attack Munition	159.8	288.9	271.6	68
UAV	Unmanned Aerial Vehicles	413.8	253.4	296.2	69

LONGBOW APACHE

<u>Description</u>: Longbow Apache consists of a mast mounted Fire Control Radar (FCR) integrated into an upgraded and enhanced AH-64 airframe. The FCR effort is being accomplished by a joint venture team comprised of two companies, Lockheed-Martin Corporation, Bethesda, MD and Northrup Grumman, Baltimore, MD. Boeing Corporation is the prime contractor for the Longbow Apache program.

<u>Mission</u>: Longbow Apache will provide the AH-64 a fire and forget HELLFIRE capability, greatly increasing weapon system effectiveness and aircraft survivability.

	FY 1999 Oty Amt	FY 2000 Oty Amt	FY 2001 Oty Amt
Item	(-) 616.4	(-) 781.4	(-) 744.5
Initial Spares	<u>16. 8</u>	8.1	<u>13.1</u>
Subtotal	633.2	789.5	757.6
RDT&E	-	37.1	17.4
Military Construction	_		-
TOTAL	633.2	826.6	775.0

RAH-66 COMANCHE HELICOPTER

<u>Description</u>: The RAH-66 Comanche Helicopter program will develop an armed reconnaissance helicopter which will replace the Army's rapidly aging fleet of OH-58 and AH-1 aircraft. Two development contracts have been awarded. Airframe and avionics development is being done by a joint venture between United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT and Boeing Vertol of Philadelphia, PA. Engine development for the T-800 growth engine is being done by Light Helicopter Turbine Engine Company, a partnership of Allied Signal Aerospace, Phoenix, AZ and Allison Engine Company, Indianapolis, IN.

Mission: The RAH-66 will be used for armed reconnaissance and light attack missions.

	<u>FY 1999</u> <u>Oty Amt</u>	<u>FY 2000</u> <u>Oty Amt</u>	FY 2001 Oty Amt
Procurement			
Item	(-)	- (-)	- (-) -
Initial Spares			-
Subtotal	-	-	-
RDT&E	352.2	463.1	614.0
Military Construction			-
TOTAL	352.2	463.1	614.0

UH-60 UTILITY HELICOPTER (BLACKHAWK)

Description: The BLACKHAWK is a twin engine, single-rotor helicopter that is designed to carry a crew of four and a combat equipped squad of eleven or an equal cargo load. It is also capable of carrying external loads of up to 6,000 lbs. The prime contractor is United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT.

<u>Mission</u>: The BLACKHAWK provides a highly maneuverable, air transportable, troop carrying helicopter for all intensities of conflict, without regard to geographical location or environmental conditions. It moves troops, equipment and supplies into combat and performs aeromedical evacuation and multiple functions in support of the Army's air mobility doctrine for employment of ground forces.

Program Acquisition Costs

225.7

116.7

	(\$ Millions)			
	<u>FY 1999</u> <u>Qty Amt</u>	FY 2000 Oty Amt	FY 2001 Qty Amt	
Procurement				
Item	(29) 269.8	(19) 215.9	(6) 86.8	
Initial Spares	3.5			
Subtotal	273.3	215.9	86.8	
RDT&E	-	9.8	29.9	
Military Construction	-	-	<u></u>	

273.3

TOTAL

AV-8B (V/STOL) HARRIER

Description: The AV-8B Harrier is a single-seat, single-engine, transonic jet aircraft capable of Vertical/Short Takeoff and Landing (V/STOL). This V/STOL capability, combined with high performance and combat effectiveness, provides the Marine Corps forces with a quick reaction weapon system. Prime contractors are Boeing Aircraft Corporation, St. Louis, MO for the airframe, Rolls Royce, Ltd. of Bristol, England for the engine, and British Aerospace of Kingston, England for the aft fuselage. The last year of new production for the AV-8B aircraft for the United States was FY 1992. The AV-8B Remanufacture program converts older AV-8B day attack configured aircraft to the most recent production radar/night attack configuration. The budget request supports continuation of a 3-year multiyear procurement for airframes.

<u>Mission</u>: The mission of the AV-8B aircraft is to provide close air support for Marine Corps forces in amphibious operations, and direct support of ground forces from austere forward bases.

	<u>FY 1999</u> <u>Oty Amt</u>	<u>FY 2000</u> <u>Oty</u> <u>Amt</u>	<u>FY 2001</u> <u>Oty</u> <u>Amt</u>
Procurement AV-8B	(11) 331.7	(11) 300.5	(10) 226.6
Initial Spares	24.3	<u>18.1</u>	<u>8.5</u>
Subtotal	356.0	318.6	235.1
RDT&E,N	40.1	38.4	38.1
Military Construction			
TOTAL	396.1	357.0	273.2

CH-60S Helicopter

Description: The CH-60S is a versatile twin-engine helicopter used to maintain forward deployed fleet sustainability through rapid airborne delivery of materials and personnel, and to support amphibious operations through search and rescue coverage. The budget request supports participation in the Army's multiyear procurement. The prime contractor is Sikorsky Aircraft of Stratford, CT.

<u>Mission</u>: The CH-60S will conduct vertical replenishment (VERTREP), day/night ship-to-ship, ship-to shore, and shore-to-ship external transfer of cargo; internal transport of passengers, mail and cargo, vertical onboard delivery; air operations; and day/night search and rescue.

	FY 1999		FY 2000	FY 2001
Procurement	<u>Qty</u>	<u>Amt</u>	Oty Amt	Oty Amt
CH-60	(5)	135.3	(17) 357.5	(15) 245.5
Initial Spares		3.3	8.8	<u>12.0</u>
Subtotal		138.6	366.3	257.5
RDT&E,N		36.8	44.6	13.2
Military Construction		<u>_</u>	<u>_</u>	
TOTAL		175.4	410.9	270.7

EA-6B PROWLER

<u>Description</u>: The EA-6B Prowler is a 4-seat twin engine derivative of the A-6 Attack aircraft that is equipped with a computer-controlled electronic surveillance and control system and high power jamming transmitters. The overall goals of the modification program are to upgrade the airframe structure and avionics systems to increase the life of the aircraft and to expand the aircraft's jamming capabilities. Contractors are Northrop Grumman, Tracor Aerospace, and AIL Systems.

<u>Mission</u>: The mission of the EA-6B aircraft is to provide all weather electronic countermeasures (ECM) in support of Navy and Marine Corps strike forces. The budget request includes funding to modify the EA-6B aircraft.

	FY 1999	FY 2000	FY 2001
-	Oty Amt	Oty Amt	Oty Amt
Procurement Modifications	- 208.9	- 264.5	203.1
Initial Spares	-	-	-
Subtotal	208.9	264.5	203.1
RDT&E,N	61.0	135.1	55.5
Military Construction	-		
TOTAL	269.9	399.6	258.6

E-2C HAWKEYE

<u>Description</u>: The E-2C Hawkeye is an all weather, carrier-based, airborne early warning aircraft. Prime contractors are Northrop-Grumman Corporation of St. Augustine, FL for the airframe and General Motors Corporation, Allison Division, Indianapolis, IN for the engine. The budget request supports continuation of a 5-year multiyear procurement.

<u>Mission</u>: The missions of the E-2C aircraft are airborne early warning, strike and control, radar surveillance, search and rescue assistance, communication relay and automatic tactical data exchange.

	Program Acquisition Costs (\$ Millions)				
	FY	<u> 1999</u>	FY 2000	FY :	<u> 2001</u>
D	<u>Qty</u>	<u>Amt</u>	<u>Qty</u> <u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement E-2C	(3)	395.8	(3) 382.6	(5)	320.9
Initial Spares		12.4	13.0		<u>13.1</u>
Subtotal		408.2	395.6		334.0
RDT&E,N		45.2	36.3		18.7
Military Construction		<u> </u>			<u>_</u>
TOTAL		453.4	431.9		352.7

F/A-18E/F HORNET

Description: The F/A-18E/F is a twin-engine, high-performance, multi-mission, tactical aircraft for deployment in Navy and Marine Corps fighter and attack squadrons. The development of the F/A-18E/F began in FY 1991. The F/A-18E/F possesses enhanced range, payload and survivability features compared with the current C/D model aircraft. It will replace the F/A-18C/D and will partially replace the A-6E and the F-14A. Prime contractors are Boeing Aircraft Corporation of St. Louis, MO for the airframe and General Electric Company, Aircraft Engine Division of Lynn, MA for the engines. Northrop Grumman Corporation, Hawthorne, CA is a major subcontractor. The budget request provides for completion of operational evaluation and supports continuation of a 5 year multiyear procurement.

<u>Mission</u>: The F/A-18E/F is a strike fighter capable of performing the following missions: strike, interdiction, close air support, fighter escort, and fleet air defense.

	Program Acquisition Costs				
	<u>FY 1999</u> <u>Qty</u> <u>Aı</u>	<u>FY</u>	llions) <u>2000</u> <u>Amt</u>	<u>FY</u> <u>Oty</u>	2001 Amt
Procurement F/A-18E/F	(30) 2,81	6.4 (36)	2,837.8	(42)	2,919.6
Initial Spares	8	<u>3.5</u>	80.2	_	141.8
Subtotal	2,89	9.9	2,918.0		3,061.4
RDT&E,N	19	7.7	141.8		19.2
Military Construction		<u> </u>	<u>-</u>		
TOTAL	3,09	7.6	3,059.8		3,080.6

T-45 GOSHAWK

Description: The T-45 GOSHAWK is a derivative of the British Aerospace HAWK aircraft. The T-45 Training System will integrate aircraft, simulators, academics, and a training management system into a replacement for current intermediate and advanced phase training aircraft. The prime contractor is Boeing Aircraft Company, St. Louis, MO; British Aerospace of Kingston, England provides the center and aft fuselage; and Rolls Royce, Ltd of Bristol, England provides the engine. The budget request supports procurement of the airframes.

<u>Mission</u>: The T-45 will provide undergraduate jet pilot training for Navy and Marine Corps aviators.

	FY 1999	FY 2000	FY 2001
Procurement	Qty Amt	Qty Amt	Qty Amt
T-45	(15) 300.6	(15) 332.9	(12) 273.7
Initial Spares	11.3	10.6	<u>6.9</u>
Subtotal	311.9	343.5	280.6
RDT&E,N	-	-	-
Military Construction		<u></u>	
TOTAL	311.9	343.5	280.6

SH-60R HELICOPTER

<u>Description</u>: The SH-60R is a remanufacture of the H-60 series helicopter which will improve the capability of the LAMPS MK III Weapons system to provide battle group protection by adding significant capability in coastal littorals and regional conflicts. The remanufacturing scope includes an upgrade, service life extension, standard Depot Level Maintenance, and incorporation of Engineering Change Proposals. Prime contractors are Sikorsky Aircraft of Stratford, CT for the airframe and Lockheed Martin of Owego, NY for the avionics.

<u>Mission</u>: The SH-60R will be the forward deployed fleet's primary Anti-Submarine and Anti-Surface Warfare platform. This request provides funding for the remanufacture of H-60 series helicopters.

	FY 1 Oty	<u>1999</u> Amt	<u>FY</u> Oty	2000 Amt	<u>FY</u> Oty	2001 Amt
Procurement Item	(-)		(7)	216.7	(4)	162.3
Initial Spares		<u>_</u>		<u>14.2</u>		<u>14.6</u>
Subtotal		-		230.9		176.9
RDT&E,N		199.7		118.0		69.9
Military Construction		<u>_</u>			-	
TOTAL		199.7		348.9		246.8

B-2 STEALTH BOMBER

Description: The B-2 is an intercontinental bomber that employs low observable technology to achieve its mission. The bomber is an all-wing, two-place aircraft with twin weapon bays. Four General Electric F-118-GE100 aircraft engines power the B-2. The F-118 engine is a derivative of the F-100 engine, currently used in the F-16 fighter and is in the 19,000lb thrust class. Northrop-Grumman Corporation, Pico Rivera, CA is the prime contractor for the (21) B-2s; the engines are manufactured by General Electric, Evendale, OH. The FY 2001 budget request includes funding to continue development and for various post production support costs.

<u>Mission</u>: The primary mission of the B-2 is to enable any theater commander to hold at risk and, if necessary, attack an enemy's war-making potential, especially those time critical targets that, if not destroyed in the first hours or days of a conflict, would allow unacceptable damage to be inflicted on the friendly side. The B-2 will also retain its potential as a nuclear bomber, reinforcing the deterrence of nuclear conflict.

	<u>FY 1999</u> <u>Oty Amt</u>	FY 2000 Oty Amt	<u>FY 2001</u> <u>Oty</u> <u>Amt</u>
Procurement			
Item Initial Spares	243.4 <u>54.0</u>	112.3 60.5	61.3 22.9
Subtotal	297.4	172.8	84.2
RDT&E	108.6	297.9	48.3
Military Construction		23.0	12.7
TOTAL	406.0	493.7	145.2

C-17 AIRLIFT AIRCRAFT

Description: The C-17 program is a wide body, four engine, turbofan aircraft that meets the requirement to modernize the U.S. strategic airlift capability. The C-17 is capable of performing the entire spectrum of airlift missions and is specifically designed to effectively and efficiently operate in both the intertheater and intratheater environments. The major contractors are Boeing, Long Beach, CA (Airframe) and Pratt-Whitney, East Hartford, CT (Engine). The FY 2001 budget requests funding for operational development to continue aircraft production for a total procurement of 134 aircraft and to make product improvements.

<u>Mission</u>: The C-17 will provide outsize intratheater airland/airdrop capability not available in the current airlift force and eventually replace C-141s as they begin to retire after the turn of the century.

Procurement	FY 1999 Oty Amt	FY 2000 Oty Amt	FY 2001 Oty Amt
Item	(13) 2,873.0	(15) 3,354.9	(12) 2,890.9
Initial Spares	109.9	-	
Subtotal	2,982.9	3,354.9	2,890.9
RDT&E	120.4	159.0	176.4
Military Construction	<u>71.0</u>	<u>26.1</u>	13.7
TOTAL	3,174.3	3,540.0	3,081.0

CIVIL AIR PATROL (CAP) AIRCRAFT

<u>Description</u>: The Civil Air Patrol aircraft will be new or used propeller-driven commercial aircraft to be provided to the Civil Air Patrol by the Air Force from various contractors. When originally established, the Civil Air Patrol was to receive its operating equipment from excess inventory in the Department of Defense. In recent years, the inventory of propeller-driven aircraft in the Department of Defense has been decreasing, allowing for fewer aircraft for modernization of the CAP. The Congress, in recognition of this fact, has permitted the Air Force to procure used or new aircraft specifically for transfer to the CAP. The FY 2001 budget requests funding for the continued procurement of aircraft.

<u>Mission</u>: The CAP aircraft will be utilized by the CAP to perform its mission of emergency search and rescue services and to provide aeronautical education for its members and the public.

	<u>FY 1</u> <u>Oty</u>	999 <u>Amt</u>	FY 2 Oty	2000 Amt	FY 2 Oty	001 <u>Amt</u>
Procurement						
Item	(27)	3.0	(27)	2.5	(27)	2.5
Initial Spares		<u> </u>		<u> </u>		<u> </u>
Subtotal		3.0		2.5		2.5
RDT&E			-		-	-
Military Construction		<u></u>		<u></u>		
TOTAL		3.0		2.5		2.5

E-8C JOINT STARS

<u>Description</u>: The E-8C Joint Surveillance Target Attack Radar System (Joint STARS) aircraft is a Boeing 707 class aircraft modified to operate a target attack radar system to detect and track both moving and fixed enemy ground targets. Northrop-Grumman Corporation, Melbourne, FL is the prime contractor. The FY 2001 budget requests funding for continuation of development activities and aircraft production.

<u>Mission</u>: Joint STARS will provide battlefield surveillance, attack planning and control and post-attack damage assessment.

	<u>FY 1999</u> <u>Qty Amt</u>	$\frac{\text{FY 2000}}{\text{Qty}} \frac{\text{Amt}}{\text{A}}$	$\begin{array}{cc} \underline{FY\ 2001} \\ \underline{Oty} & \underline{Am} t \end{array}$
Procurement			
Item	(2) 508.9	(1) 287.6	(1) 260.6
Initial Spares	66.1	72.2	22.6
Subtotal	575.0	359.8	283.2
RDT&E	91.7	147.6	144.1
Military Construction	_	-	
TOTAL	666.7	507.4	427.3

F-15A EAGLE MULTI MISSION FIGHTER

<u>Description</u>: The F-15E is a twin-engine, two man crew, fixed swept wing aircraft. The F-15E maintains the basic F-15 air superiority characteristics while adding air-to-surface weapons capability. Prime contractors are Boeing of St. Louis, MO for the airframe, and Pratt and Whitney of East Hartford, CT for the engine. The FY 2001 budget request provides for continuation of development activities.

<u>Mission</u>: The F-15E performs both air superiority and all-weather, deep penetration, and night/under-the-weather attack with large air-to-surface weapon payloads.

	<u>FY 1999</u> <u>Oty Amt</u>	<u>FY 2000</u> <u>Oty Amt</u>	<u>FY 2001</u> <u>Oty Amt</u>
Procurement	<u> </u>	<u> </u>	<u> </u>
Item	-	(5) 291.6	-
Initial Spares			<u></u>
Subtotal	-	291.6	
RDT&E	101.0	126.2	61.3
Military Construction			
TOTAL	101.0	417.8	61.3

F-16 FALCON MULTI-MISSION FIGHTER

<u>Description</u>: The F-16 is a single seat, fixed wing, high performance fighter aircraft powered by a single engine. The advanced technology features include a blended wing body, reduced static margin, and fly-by-wire flight control system. Prime contractors are Lockheed-Martin of Fort Worth, TX for the airframe and Pratt and Whitney of East Hartford, CT and General Electric, Evendale, OH for the engine. The FY 2001 budget request provides for continued development activities.

<u>Mission</u>: The F-16 aircraft is a lightweight, high performance, multipurpose fighter capable of performing a broad spectrum of tactical air warfare tasks at affordable cost well into the next century.

Program Acquisition Costs (Dollars in Millions)

	<u>FY</u> <u>Oty</u>	<u>1999</u> <u>Amt</u>	FY :	2000 <u>Amt</u>	<u>FY 2001</u> <u>Oty Amt</u>
Procurement					
Item	(1)	36.2	(10)	262.2	-
Initial Spares				45.7	24.3
Subtotal		36.2		307.9	24.3
RDT&E		120.4		114.2	124.9
Military Construction		<u></u>		<u></u>	<u></u>
TOTAL		156.6		422.1	149.2

F-22 RAPTOIR

Description: The F-22 program will develop the next generation air superiority fighter for the first part of the next century. The F-22 is being designed to penetrate enemy airspace and achieve first-look, first-kill capability against multiple targets. The contractors for Engineering & Manufacturing Development are Lockheed Martin, Marietta, GA, and Ft. Worth, TX; Boeing, Seattle, WA for the airframe; and Pratt & Whitney, West Palm Beach, FL for the engine. The FY 2001 budget request provides for continued development funding and the production of ten aircraft.

<u>Mission</u>: The F-22 will enhance U.S. air superiority capability against the projected threat and will eventually replace the F-15 aircraft.

	<u>FY 1999</u> <u>Oty Amt</u>	<u>FY 2000</u> <u>Oty Amt</u>	<u>FY 2001</u> <u>Oty</u> <u>Amt</u>
Procurement			
Item	(2) 770.0	(-) 280.5	(10) 2,546.1
Initial Spares	24.9	<u> -</u>	
Subtotal	794.9	280.5	2,546.1
RDT&E	1,561.8	1,945.1	1,411.8
Military Construction			
TOTAL	2,356.7	2,225.6	3,957.9

AIRBORNE LASER

<u>Description</u>: The Airborne Laser (ABL), designated the YAL-1A Attack Laser Aircraft, provides a rapidly deployable airborne platform equipped with a long-range laser weapon. Installed on a modified Boeing 747-400F freighter, ABL will employ an advanced beam control and atmospheric compensation system to precisely direct a multi-megawatt high-energy chemical laser on a boosting missile. The new weapon system is being designed and built by the Boeing led Team ABL, which includes TRW for high-energy lasers, Lockheed Martin for beam and fire control, and Boeing for system integration, aircraft modification, and battle management. The ABL program planned production is for 7 ABL (2 refurbished test aircraft and 5 production aircraft). The FY 2001 budget request includes funding to continue the design, fabrication, integration, and test (lethal demonstration) of a prototype ABL weapon system.

<u>Mission</u>: The primary mission of the ABL is to provide a rapidly deployable airborne platform equipped with long-range laser weapon, capable of autonomously detecting, acquiring, tracking, identifying, and negating both liquid and solid-fueled Theater Ballistic Missiles (TBM) during the boost phase of flight. The ABL is listed as a core Upper Tier Theater Missile Defense program worked in coordination with the Ballistic Missile Defense Organization (BMDO).

	<u>FY 1999</u> <u>Oty Amt</u>	<u>FY 2000</u> <u>Oty Amt</u>	<u>FY 2001</u> <u>Qty Amt</u>
Procurement			
Item	-	-	-
Initial Spares		<u></u> :	<u> </u>
Subtotal	-	-	-
RDT&E	252.4	304.2	148.6
Military Construction		<u></u> :	
TOTAL	252.4	304.2	148.6

AIRCRAFT PROGRAMS DOD-WIDE/JOINT

JOINT PRIMARY AIRCRAFT TRAINING SYSTEM (JPATS)

<u>Description</u>: The Joint Primary Aircraft Training System (JPATS) is a joint Air Force/Navy program to replace both Service's fleets of primary trainer aircraft (T-37 and T-34, respectively) and associated Ground Based Training Systems (GBTS). The program includes the purchase of aircraft, simulators, ground-based training devices, training management systems, instructional courseware, and logistics support. The contractor is Beech Aircraft Corporation, Wichita, KS (airframe). The FY 2001 budget provides funding for continued development activities and production aircraft.

<u>Mission</u>: The mission of the JPATS is to support joint Air Force and Navy specialized undergraduate pilot training. It will support training of student aviators in the fundamentals of flying prior to transition into advanced training.

	FY Oty	1999 <u>Amt</u>	FY 2 Oty	2000 <u>Amt</u>	FY Oty	2001 Amt
Procurement						
Item Air Force Navy	(22)	108.2	(29) (12)	111.4 55.5	(27) (21)	113.8 74.4
Initial Spares						
Subtotal	(22)	108.2	(41)	166.9	(41)	188.2
RDT&E Air Force Navy Subtotal		38.4 6 39.0		33.3 3 33.6	_	21.7 .3 22.0
Military Construction		39.0 		-		
Total Air Force Navy		146.6 .6		144.7 55.8		135.5 74.7
TOTAL		147.2		200.5		210.2

AIRCRAFT PROGRAMS DOD-WIDE/JOINT

JOINT STRIKE FIGHTER (JSF)

Description: The Joint Strike Fighter (JSF), formerly the Joint Advanced Strike Technology (JAST) Program, was established to support development of an affordable next-generation strike fighter for the Air Force, Marine Corps, Navy and U.S. allies. This joint program will facilitate the development of affordable operational concepts for next-generation strike fighter aircraft and related systems and transition key technologies and common components to support future joint strike fighter requirements while reducing cost and risk. The Navy and Air Force will each provide approximate equal shares of development funding for the program during the Future Years Defense Program (FYDP). The Defense Advanced Research Projects Agency (DARPA) also contributed funding for the concept flight demonstration effort. The program will develop several technology demonstrator aircraft to explore different technologies that could be incorporated into future aircraft. From these technology demonstrators, prototype aircraft will be developed to help choose the nextgeneration strike fighter, possibly using advanced short takeoff and vertical landing (ASTOVL) technology. The FY 2001 budget requests completes efforts prior to entering the engineering and manufacturing development (EMD) phase of the program. Contracts have been awarded to Lockheed Martin of Bethesda, MD, Boeing of Seattle, WA for the airframe; and Pratt and Whitney, FL for the propulsion system. EMD begins in FY 2001

<u>Mission</u>: JSF will ultimately result in the acquisition of one or more aircraft to replace Air Force F-16s, Marine Corps AV-8Bs, and F/A-18s and provide the Navy a first day of war survivable strike fighter to complement the F/A-18E/F.

	<u>FY 1999</u> <u>Oty Amt</u>	<u>FY 2000</u> <u>Oty Amt</u>	<u>FY 2001</u> <u>Oty Amt</u>
Procurement			
Item	(-)	- (-)	- (-)
Initial Spares			
Subtotal	-	-	-
RDT&E Navy Air Force	471.3 453.6	239.9 249.1	427.6 429.1
Military Construction		-	
TOTAL	924.9	489.0	856.7

AIRCRAFT PROGRAMS Defense-Wide/Joint

V-22 OSPREY

Description: The V-22 Osprey is a tilt-rotor, vertical takeoff and landing aircraft designed to meet the amphibious/vertical assault needs of the Marine Corps, long range special operations forces (SOF) missions for USSOCOM, and the strike rescue needs of the Navy. The aircraft will be capable of flying 2,100 miles with one refueling, giving the services the advantage of a V/STOL aircraft that could rapidly self-deploy to any location in the world. Procurement objective is 458 (360 MV-22 aircraft for the Marine Corps; 50 CV-22 aircraft for USSOCOM; and 48 HV-22 aircraft for the Navy). The MV-22 will replace the CH-46E and CH-53D helicopters. The contractors are Textron, Inc., Bell Helicopter Division, Fort Worth, TX and Boeing Vertol, Philadelphia, PA, for the air vehicle and General Motors Corporation, Allison Division, Indianapolis, IN, for the engine. The budget request supports procurement for 16 MV-22 aircraft for the Marine Corps and 4 CV-22 aircraft for the Air Force.

<u>Mission</u>: The V-22 mission includes airborne assault, vertical lift, combat search and rescue, and special operations.

	TOW.	1000	Program Acquisition Costs (\$ Millions)		7 2001
		<u> 1999</u>	FY 2000		2001
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u> <u>Amt</u>	Qty	<u>Amt</u>
Procurement					
MV-22 (USMC)	(7)	657.4	(11) 921.9	(16)	1,208.4
Initial spares	()	29.2	<u>61.8</u>	(- /	106.5
Subtotal		686.6	983.7		1,314.9
Subtotal		000.0	703.1		1,314.9
CV-22 (AF)	(-)	22.0	(-) 41.7	(4)	363.0
Initial spares	()	_	_	()	_17.0
Subtotal		22.0	41.7		$\frac{-27.0}{380.0}$
Subtotal		22.0	41.7		300.0
Subtotal	(7)	708.6	(11) 1,025.4	(20)	1,694.9
RDT&E,N		336.1	181.9		148.2
MILCON			-		
Total		1,044.7	1,207.3		1,843.1

AIRCRAFT PROGRAMS DOD-WIDE/JOINT

C-130J AIRLIFT AIRCRAFT

<u>Description</u>: The Hercules C-130J is planned to be a tactical airlift aircraft that will address the need to modernize the U.S. tactical airlift capability. The C-130J will be capable of performing a number of tactical airlift missions including deployment and redeployment of troops and/or supplies within and between command areas in a theater of operation, aeromedical evacuation, air logistic support and augmentation of strategic airlift forces. The major contractors are Lockheed Martin Corporation, Marietta, GA for the airframe and General Motors Corporation, Allison Division, Indianapolis, IN for the engine. The FY 2001 budget requests funding for two C-130J and two KC130J aircraft.

Mission: The mission of the C-130J is the immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas through air-landing, extraction, airdrop, or other delivery techniques; and the air logistic support of all theater forces, including those engaged in combat operations. These aircraft will eventually replace C-130Es as they begin to retire after the turn of the century. The KC-130J provides aerial refueling service as well as assault air transport for personnel, equipment and supplies.

	FY Oty	<u>1999</u> <u>Amt</u>	<u>FY</u> <u>Oty</u>	2000 <u>Amt</u>	FY Oty	2001 Amt
Procurement						
Air Force						
C-130H	(-)	7.0	(-)	-	(-)	-
C-130J	(-)	29.1	(-)	46.4	(2)	208.1
WC-130J	(1)	74.5	(-)		(-)	-
EC-130J	(1)	83.9	(1)	87.0	(-)	-
Initial Spares (C-130J	J)	60.7	, ,	-	`,	-
Subtotal	(2)	$2\overline{55.2}$	(1)	133.4	(2)	208.1
Navy						
KC-130J	(2)	111.3	(1)	76.7	(2)	154.8
Initial Spares (KC-13	30J)	-	,	-	. ,	12.3
Subtotal	(2)	111.3	(1)	76.7	(2)	$1\overline{67.1}$
Air National Guard						
C-130J	(3)	192.0	(-)	-	(-)	-
RDT&E, AF				40.1		<u>60.5</u>
TOTAL	(7)	558.5	(2)	250.2	(4)	435.7

ARMY TACTICAL MISSILE SYSTEM (ATACMS)

Description: ATACMS is a surface-to-surface deep fire guided missile used to attack high value targets such as missile sites and command, control and communications complexes. The ATACMS missiles are fired from modified Multiple Launch Rocket System (MLRS) launchers. The Block I variants are armed with an anti-personnel/anti-material warhead. The Block IA integrates Global Positioning System (GPS) into the guidance system of the missile to provide more accurate information for orientation of the missile in position and azimuth. The Block IA carries fewer M74 bomblets than the Block I (down to 300 from 950) which gives the Block IA a range approximately twice that of the ATACMS Block I missile. The ATACMS Block II will be the delivery vehicle for the guided antiarmor Brilliant Anti Armor (BAT) submunition. The FY 2001 buy is 55 Block II missiles. The ATACMS prime contractor is the Lockheed Martin Missiles and Fire Control Systems of Dallas, TX.

<u>Mission</u>: To provide deep fires in near all-weather conditions, day or night. All ATACMS missiles are capable of effectively engaging high priority targets at ranges beyond the capability of cannons and rockets. The Block I configurations will be used to attack tactical surface-to-surface missile sites, air defense systems, logistics elements and other fixed facilities. The ATACMS Block II will be used against deep enemy armor.

	<u>FY</u> <u>Oty</u>	1999 <u>Amt</u>	<u>FY 2</u> <u>Oty</u>	2000 <u>Amt</u>	Oty	2001 Amt
Procurement						
Item Block IA	(96)	90.6	(110)	90.7	(-)	15.0
Block II	(24)	<u>149.7</u>	(48)	<u>228.1</u>	(55)	<u>230.3</u>
Subtotal	(120)	240.3	(158)	318.8	(55)	245.3
RDT&E		39.0		43.0		27.6
Military Construction						
Military Construction		<u>—</u>				
TOTAL		279.3		361.8		272.9

BRILLIANT ANTI-ARMOR (BAT) SUBMUNITION

<u>Description</u>: The BAT is a dual-sensor (acoustics and infrared) smart submunition that autonomously seeks, identifies, and destroys moving armored targets. The BAT submunition is an unpowered, aerodynamically stable, glider approximately 36 inches long, 5.5 inches in diameter, and weighing 44 pounds. BAT's large footprint is designed to compensate for target location errors. A pre-planned product improvement (P3I) BAT combines acoustic, millimeter wave radar, and imaging infrared sensors through a common aperture to improve BAT's performance against cold stationary targets and other postulated high payoff targets, as well as enhancing its countermeasure resistance and inclement weather performance. BAT and P3I BAT are carried deep into enemy territory by the Block II variant of the Army Tactical Missile System (ATACMS). Northrop Grumman Corporation is the prime contractor for the BAT submunition, while Lockheed Martin Missile and Fire Control Systems Corporation is the contractor for the ATACMS Block II missile.

<u>Mission</u>: Deep attack of moving armored vehicles before they can influence the battle. In addition, P3I BAT's mission includes cold stationary targets, multiple rocket launchers, and surface-to-surface missile transporter erector launchers.

Program Acquisition Costs

285.7

236.0

(\$ Millions) **FY 2000** FY 2001 **Qty** Amt Amt Amt **Procurement Item** (304)94.5 (609)142.9 **(741)** 134.9 **Initial Spares** Subtotal 142.9 139.9 94.5 RDT&E 131.9 142.8 96.1

Military Construction

TOTAL

226.4

JAVELIN ADVANCED ANTI-TANK WEAPON SYSTEM-MEDIUM (AAWS-M)

<u>Description</u>: The Javelin Advanced Anti-tank Weapon System-Medium is a man-portable fire and forget weapon system that is replacing the existing DRAGON anti-armor missile system in Army Infantry, Combat Engineer, and Scout units. Javelin is highly lethal against tanks with conventional and reactive armor. Special features of Javelin are the choice of top attack or direct fire mode, integrated day/night sight, soft launch permitting fire from enclosures, and imaging infrared seeker. Procurement funds buy Missiles, Command Launch Units (CLU) and Training Devices. The prime contractor is the Raytheon TI and Lockheed Martin Javelin Joint Venture at Tucson, AZ and Orlando, FL.

Mission: To defeat armor targets.

		<u>FY 1999</u> <u>Qty Amt</u>		<u>FY 2000</u> <u>Oty Amt</u>		FY 2001 Qty Amt	
D	<u> </u>	<u> </u>	<u> </u>	11110	<u> </u>	11111	
Procurement							
Item	(3,569)	337.8	(2,525)	344.6	(3,754)	372.2	
Initial Spares		3.7		4.5	_	6.6	
Subtotal		341.5		349.1		378.8	
RDT&E		4.0		<u>.5</u>		<u>.5</u>	
TOTAL		345.5		349.6		379.3	

LONGBOW HELLFIRE MISSILE

<u>Description</u>: Longbow Hellfire integrates fire and forget technology in the Hellfire missile by incorporating a millimeter wave radar seeker in the Hellfire II aft section bus. The fire and forget guidance, which allows the helicopter to launch and then immediately re-mask, improves weapons system survivability by minimizing exposure to enemy fire. The Longbow system will be used on the Apache and Comanche helicopters. The primary advantages of the Longbow Hellfire missile include adverse weather capability (rain, snow, fog, smoke, and battlefield obscurants); millimeter wave countermeasures survivability; an advanced warhead capable of defeating all projected armor threats into the 21st century; and the capability of reprogramming the missile to adapt to changing threats and mission requirements. Work is being accomplished by the Longbow Limited Liability Company, a joint venture of Lockheed Martin Corporation, Orlando, FL and Northrop Grumman, Huntsville, AL.

<u>Mission</u>: Longbow Hellfire will provide an adverse weather, fire and forget, heavy antiarmor capability for the Apache and Comanche helicopters.

	<u>FY 1999</u> <u>Qty Amt</u>	$\frac{\text{FY 2000}}{\text{Qty}} \frac{\text{Amt}}{\text{A}}$	FY 2001 Oty Amt
Procurement			
Item	(2,000) 343.3	(2,200) 292.9	(2,200) 285.4
Initial Spares			<u>_</u>
Subtotal	343.3	292.9	285.4
RDT&E	Ξ	<u>=</u>	z
TOTAL	343.3	292.9	285.4

MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)

<u>Description</u>: The Multiple Launch Rocket System (MLRS) consists of a tracked, self-propelled launcher loader, disposable rocket pods, and fire control equipment. Starting in FY 1998, an Improved Fire Control System and an Improved Launcher Mechanical System upgraded the MLRS launcher to the M270A1 configuration. The MLRS M270A1 is capable of firing all current and future MLRS rockets and attack missiles. The FY 2000 and 2001 buys continue LRIP production. The prime contractor is Lockheed Martin Missiles and Fire Control, Dallas, TX.

<u>Mission</u>: To neutralize or suppress enemy field artillery and air defense systems and supplement cannon artillery fires.

		<u>1999</u>		2000	FY 2001	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	Oty A	<u>mt</u>
Procurement						
Rockets	(-)	-	(-)	3.7	(-)	9.4
Launchers	(24)	121.1	(39)	137.5	(66) 18	88.7
Initial Spares		4.8		6.2		<u>6.5</u>
Subtotal		125.9		147.4	20)4.6
RDT&E		25.1		66.6	5	59.5
Military Construction		<u></u>		<u></u>	_	<u>-</u> -
TOTAL		151.0		214.0	26	54.1

AVENGER

<u>Description</u>: The Avenger is a light-weight highly mobile and transportable surface-to-air missile system consisting of a Stinger missile launcher mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). Part of the Forward Area Air Defense System (FAADS), the Avenger is designed to counter hostile cruise missiles, unmanned aerial vehicles, and low-flying, high-speed aircraft. The Avenger is equipped with eight ready Stinger missiles and .50 caliber machine gun. It has a two-man crew and can operate in day or night, clear or adverse weather conditions. The Avenger prime contractor is Boeing Aerospace, Huntsville, AL.

Mission: Provides line of sight low altitude air defense protection.

	<u>FY 1</u> <u>Oty</u>	<u>999</u> <u>Amt</u>	<u>FY</u> <u>Oty</u>	2000 Amt	<u>FY 2</u> <u>Oty</u>	<u>2001</u> <u>Amt</u>
Procurement						
Item	(15)	34.7	(15)	34.2	(7)	29.9
Initial Spares		<u> </u>				2.8
Subtotal	(15)	34.7	(15)	34.2	(7)	32.7
RDT&E		-		-		-
Military Construction		<u></u>		_		<u></u>
TOTAL		34.7		34.2		32.7

MISSILE PROGRAMS NAVY

ROLLING AIRFRAME MISSILE (RAM)

<u>Description</u>: The Rolling Airframe Missile (RAM) is a high fire-power, low cost, lightweight complementary self-defense system to engage anti-ship cruise missiles. The prime contractor is Raytheon Corporation, Tucson, AZ.

<u>Mission</u>: The mission of the RAM is to provide high firepower close-in defense of combatant and auxiliary ships by utilizing a dual mode, passive radio frequency/infrared missile in a compact 21 cell launcher.

	FY:	<u> 1999</u>	FY 2	<u> 2000</u>	FY 2	<u> 2001</u>
Procurement	<u>Oty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Item	(95)	44.3	(90)	45.3	(0)	23.1
Initial Spares		1.9		<u>1.7</u>		<u>2.5</u>
Subtotal		46.2		47.0		25.6
RDT&E		5.0		6.4		3.8
Military Construction		<u> </u>		<u>-</u> -		
Total		51.2		53.4		29.4

MISSILE PROGRAMS NAVY

STANDARD MISSILE

<u>Description</u>: The STANDARD missile family consists of various air defense missiles including supersonic, medium and extended range, surface-to-air and surface-to-surface missiles. The prime contractor is Raytheon Corporation, Tucson, AZ.

<u>Mission</u>: The mission of the STANDARD missile family is to provide all-weather, anti-aircraft and surface-to-surface armament for cruisers, destroyers and guided missile frigates.

	<u>FY</u> <u>Qty</u>	<u>1999</u> <u>Amt</u>	<u>FY 2</u> <u>Oty</u>	2000 <u>Amt</u>	Oty 2	<u>2001</u> <u>Amt</u>
Procurement						
Item	(114)	212.7	(86)	198.1	(96)	170.4
Initial Spares	_	8.2		13.2	_	15.1
Subtotal		220.9		211.3		185.5
RDT&E		10.9		1.1		1.2
Military Construction	_	<u>-</u>	_	<u>-</u>	_	
TOTAL		231.8		212.4		186.7

MISSILE PROGRAMS NAVY

TOMAHAWK CRUISE MISSILE

<u>Description</u>: The TOMAHAWK cruise missile weapon system is a long-range conventionally or nuclear armed system which is sized to fit torpedo tubes and capable of being deployed from a variety of surface ship and submarine platforms. The prime contractor is Raytheon, Tucson, AZ. FY 2001 continues development efforts for tactical TOMAHAWK.

<u>Mission</u>: The mission of the TOMAHAWK is to provide a long-range cruise missile launched from a variety of platforms against land and sea targets.

	<u>FY</u> <u>Qty</u>	1999 <u>Amt</u>	<u>FY</u> <u>Qty</u>	2000 <u>Amt</u>	<u>FY</u> <u>Qty</u>	2001 Amt
Procurement						
Item	(-)	439.2	(-)	0	(-)	0
Initial Spares	_	3.1		1.2	_	0
Subtotal		442.3		1.2		0
RDT&E		149.8		141.4		91.4
Military Construction	_		_	<u>-</u>	_	
TOTAL		592.1		142.6		91.4

MISSILE PROGRAMS NAVY

TRIDENT II

<u>Description</u>: The TRIDENT II (D-5) is a submarine launched ballistic missile with greater range, payload capability and accuracy than the TRIDENT I. The major contractor is Lockheed Martin Missiles and Space Company, Sunnyvale, CA.

<u>Mission</u>: The mission of the TRIDENT II is to deter nuclear war by means of assured retaliation in response to a major attack on the U.S. and to enhance nuclear stability by providing no incentive for enemy first strike.

	<u>FY :</u> Oty	1999 <u>Amt</u>	Oty FY 2	2000 <u>Amt</u>	FY 20 Oty	001 <u>Amt</u>
Procurement						
Item Facility Support Initial Spares	(5)	310.3 .2 5.5	(12)	487.1 2.2	(12)	462.7 1.2
Subtotal		316.0		489.3		463.9
RDT&E		37.4		36.2		32.1
				-		
TOTAL		353.4		525.5		496.0

MISSILE PROGRAMS MARINE CORPS

JAVELIN ADVANCED ANTITANK WEAPON SYSTEM-MEDIUM (AAWS-M)

<u>Description</u>: The JAVELIN Advanced Antitank Weapon System-Medium will replace the existing DRAGON as the infantry medium antitank weapon for the Marine Corps. It is a manportable fire and forget weapon system for the dismounted infantry capable of defeating both conventional and reactive armor. Highly lethal, the JAVELIN can operate in day/night adverse weather conditions, and in the presence of battlefield obscurants. Special features of JAVELIN are the choice of top attack or direct fire mode, integrated day/night sight, soft launch permitting fire from enclosures, and imaging infrared seeker. Procurement funds buy both missiles and Command Launch Units (CLU). The prime contractor is the Raytheon TI and Lockheed Martin Javelin Joint Venture at Lewisville, TX and Orlando, FL.

Mission: To defeat armor targets.

	<u>FY</u> <u>Qty</u>	<u>1999</u> <u>Amt</u>	Oty	2000 <u>Amt</u>	<u>FY 2</u> <u>Qty</u>	2001 Amt
Procurement						
Item	(741)	82.7	(998)	92.7	(293)	29.1
Initial Spares		0.5		.9		1.1
Subtotal	_	83.2	_	93.6	_	30.2
RDT&E		.2		.2		.2
Military Construction	_		_	-	_	-
TOTAL		83.4		93.8		30.4

MISSILE PROGRAMS MARINE CORPS

PREDATOR SHORT RANGE ANTITANK WEAPON (SRAW)

Description: The Predator SRAW is a one man portable, fire-and-forget system designed to defeat the next generation of advanced armor threats, including those equipped with explosive reactive or supplemental armor. The system consists of a missile and disposable launcher. It is lightweight (less than 21 pounds) and features an advanced warhead coupled with a guidance system capable of hitting both stationary and moving targets. The Predator is capable of soft launch which increases the gunner's survivability and allows the weapon to be fired from enclosures. Once launched, Predator travels in a top-attack profile using magnetic and optical sensors to detect the target; and explosively formed penetrator warhead defeats the target. Procurement funds buy missiles and launchers. The prime contractor is Lockheed Martin Electronics and Missiles Division in Troy, AL.

Mission: To defeat armor targets.

	<u>FY</u> <u>Oty</u>	<u>1999</u> <u>Amt</u>	<u>FY 2</u> <u>Qty</u>	2000 <u>Amt</u>	Oty	2001 Amt
Procurement						
Item	-	-	-	-	(698)	43.4
Initial Spares		-		-		-
Subtotal		-		-	_	43.4
RDT&E		14.7		10.7		.5
Military Construction	_	_			_	-
TOTAL		14.7		10.7		43.9

ADVANCED MEDIUM RANGE AIR-TO- AIR MISSILE (AMRAAM)

<u>Description</u>: The Advanced Medium Range Air-to-Air Missile (AMRAAM) is an all-weather, all-environment radar guided missile developed to improve capabilities against very low-altitude and high-altitude, high-speed targets in an electronic countermeasures environment. AMRAAM is a joint Navy/Air Force program led by the Air Force. The prime contractor is Raytheon Corporation, Lowell, MA. The FY 2001 program provides for continuation of production.

<u>Mission</u>: The mission of the AMRAAM is to destroy low and high altitude, high-speed enemy targets in an electronic countermeasures environment.

	FY	<u> 1999</u>	FY	2000	FY :	<u> 2001</u>
Procurement	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	Amt
Air Force Navy	(180) (100)	89.7 50.5	(187) (100)	89.7 46.1	(204) (75)	98.7 38.9
Item Subtotal	(280)	140.2	(287)	135.8	(279)	137.6
Air Force Navy		.7 . <u>4</u>		.2 . <u>4</u>		.1 .2
Initial Spares Subtotal		1.1		.6		.3
Procurement Subtotal		141.3		136.4		137.9
RDT&E						
Air Force		33.5		<i>52.1</i>		53.7
Navy		4.5		13.5		12.1
RDT&E Subtotal		38.0		65.6		65.8
Military Construction		-		-		-
Subtotals	_		_			
Air Force		123.9		<i>142.0</i>		152.5
Navy		55.4		60.0		51.2
TOTAL		179.3		202.0		203.7

JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)

Description: The Joint Air-to-Surface Standoff Missile (JASSM) is a joint Air Force and Navy development program led by the Air Force to provide a conventional precision guided, long range standoff cruise missile that can be delivered from both fighters and bombers. Lockheed Martin Integrated Systems, Inc., Orlando, FL is the contractor. FY 2000/01 funding supports continued development. Production is scheduled to begin in FY 2002.

<u>Mission</u>: The mission of the JASSM is to destroy targets from a long-range standoff position deliverable by both fighters and bombers.

	FY 1999	FY 2000	FY 2001
	<u>Qty</u> <u>Amt</u>	Oty Amt	Oty Amt
Procurement			
Item	(-)	- (-)	- (-) -
Initial Spares	-		-
Subtotal			
Subtotal	-	-	-
RDT&E			
Air Force	121.1	164.4	120.3
Navy	<u>1.8</u>	<u>2.0</u>	2.0
Subtotal	122.9	166.4	122.3
Military Construction	<u></u>		<u></u>
TOTAL	122.9	166.4	122.3

JOINT STANDOFF WEAPON (JSOW)

<u>Description</u>: The Joint Standoff Weapon (JSOW - AGM-154) program is a joint development effort to provide day, night and adverse weather environment munition capability. The JSOW has three variants and development is shared between the Navy and the Air Force. The JSOW baseline development (BLU-97 Submunition) is led by the Navy and provides a day, night, and all-weather environment munition. The JSOW BLU-108 development is led by the Air Force and incorporates the Sensor Fuzed Weapon (SFW), providing a "smart" JSOW munition. The JSOW unitary warhead development is led by the Navy and provides terminal accuracy via Automatic Target Acquisition Seeker Technology. Flexible variants on a common truck reduces integration costs. The prime contractor is Raytheon Missile Systems Corp., Tucson, AZ. The FY 2001 budget request continues production.

<u>Mission</u>: JSOW is a primary standoff precision guided munition. The day/night, adverse weather capability provides continuous munitions operations from a survivable standoff range.

	<u>FY</u> <u>Qty</u>	1999 <u>Amt</u>	Qty	2000 <u>Amt</u>	Qty	2001 Amt
Procurement						
Air Force	(86)	47.8	(74)	40.1	(174)	90.8
Navy	(328)	118.1	(454)	115.1	(636)	171.6
Item Subtotal	(414)	165.9	(528)	155.2	(810)	262.4
Initial Spares (Navy) Subtotal		$\frac{.5}{166.4}$.1 155.3		.3 262.7
RDT&E						
Air Force		17.2		10.2		1.5
Navy		<u>44.9</u>		<u>30.4</u>		20.8
Subtotal		$\overline{62.1}$		40.6		22.3
Military Construction		-		-		-
Subtotal						
Air Force		65.0		50.3		92.3
Navy		<u>163.5</u>		<u>145.6</u>		192.7
TOTAL		228.5		195.9		285.0

AIM-9X, Sidewinder Missile

Description: The AIM-9X Sidewinder program is a joint Navy/Air Force program, with the Navy as the lead service, that provides the next generation short range air-to-air missile. The threshold aircraft are the F-15C/D and the F/A-18C/D using the Joint Helmet Mounted Cueing System. Objective aircraft include the F-16 and F-22. The AIM-9X program is a flagship program for Cost as an Independent Variable. The contractor is Raytheon Corporation, Tucson, AZ.. The FY 2001 budget request includes funding to continue the Engineering and Manufacturing Development (EMD) and begin production.

<u>Mission</u>: The primary mission of the AIM-9X is a launch and leave, air combat munition that uses passive infrared energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air to Air Missile.

	FY :	<u> 1999</u>	FY 2	<u> 2000</u>	FY	<u> 2001</u>
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement Air Force Navy	(-) (-)	-	(-) (-)	- -	(80) (63) (155)	28.4 27.5 55.9
Initial Spares Navy	(-)	-	(-)	-	(-)	.8
RDT&E Navy Air Force		57.1 49.3		64.6 52.6		21.7 2 <u>1.7</u>
RDT&E Subtotal		106.4		117.2		43.4
Military Construction						-
TOTAL		106.4		117.2		100.1

AIRCRAFT CARRIERS (CVN-77)

<u>Description</u>: The Carrier Replacement Program provides for the new construction of aircraft carriers. Currently, there are twelve active carriers in the Navy's fleet. Eight of these are Nimitz class carriers. An additional Nimitz class carrier is currently under construction, the USS Reagan (CVN-76), and will deliver in December 2002 to replace the Constellation (CV-64) which will retire in FY 2003. In FY 2001, construction of the last of the Nimitz Class carriers, CVN-77, will commence. CVN-77 will also serve as the "bridge" platform for technologies that will enable the Navy to transition from the Nimitz class to the next generation aircraft carrier (CVNX). CVN-77 will include new technologies such as an integrated topside island which includes a new multi-function radar, new propulsion plant monitoring improvements, and manpower reduction initiatives. The CVNX class of aircraft carriers is scheduled to begin construction in FY 2006. Construction of CVN-77 will take place at Newport News Shipbuilding, Newport News, VA.

<u>Mission</u>: Nuclear Aircraft Carriers support and operate aircraft to engage in attacks on targets afloat and ashore which threaten our use of the sea and to engage in sustained operations in support of other forces.

	<u>FY</u> <u>Qty</u>	1999 <u>Amt</u>	<u>FY 2</u> <u>Qty</u>	2000 <u>Amt</u>	<u>FY</u> <u>Qty</u>	2001 Amt
Procurement						
Item	(-)	122.9	(-)	749.6	(1)	4,075.5
Outfitting		3.7		2.1		15.3
Post Delivery Subtotal		21.4 148.0		751.7		4,090.8
RDT&E		136.8		245.9		286.5
Military Construction		<u> </u>		-		-
TOTAL		284.8		997.6		4,377.3

DDG-51 AEGIS DESTROYER

Description: The ARLEIGH BURKE Flight IIA Class Guided Missile Destroyer is 471 feet long and displaces 9,300 tons (full load). It is armed with a Vertical Launching System accommodating 96 missiles, including TOMAHAWK, SM-2 and ASROC. Prime features include the SPY-1D and SPS-67(V)3 radars, SQS-53C sonar, three MK-99 illuminators, 5"/54 rapid fire gun with SEAFIRE fire control system, SLQ-32 Electronic Warfare System and decoy launchers, and 6 torpedo tubes in 2 triple mounts. The ship also carries two LAMPS (Light Airborne Multi-Purpose System) Mk III helicopters. The DDG-51 is powered by four General Electric LM2500 gas turbines which can drive the ship in excess of 31 knots. The lead ship was awarded to Bath Iron Works, Bath, ME in FY 1985. Ingalls Shipbuilding Division of Pascagoula, MS has also been awarded contracts for follow-on ships. The FY 2001 budget supports the continuation of the FY 1998-2001 multi-year procurement of 13 DDG-51 ships (3 ships per year with an option for a fourth that was exercised in FY 1998) The ships acquired under the current multi-year contract are equipped with additional warfighting upgrades, including CEC, SPY-ID (V), ESSM, 5"/62 Gun, SQQ-89 (V)15 and AIEWS.

<u>Mission</u>: The DDG-51 Class ships operate defensively and offensively as units of Carrier Battle Groups and Surface Action Groups, in support of Underway Replenishment Groups and the Marine Amphibious Task Force in multi-threat environments that include air, surface, and subsurface threats.

	<u>FY 1999</u> <u>Oty Amt</u>	FY 2000 Oty Amt	<u>FY 2001</u> <u>Oty</u> <u>Amt</u>
Procurement			
Item	(3) 2,642.5	(3) 2,674.7	(3) 3,070.4
Outfitting	32.7	43.3	57.5
Post Delivery	48.4	31.4	<u>78.2</u>
Subtotal	2,723.6	2,749.8	3,206.1
RDT&E	175.6	256.1	179.7
Military Construction			
TOTAL	2,899.2	3,005.9	3,385.8

NEW ATTACK SUBMARINE (NSSN)

Description: The NSSN program provides for the development of a new nuclear powered attack submarine to replace existing ships as they are retired. The NSSN will be 366 feet long and will displace 7,506 tons while submerged. The first NSSN was funded in FY 1998. The FY 2001 RDT&E funding provides for the continued development of technologies for the NSSN. The FY 2001 procurement amount funds the long lead non-nuclear components for the third submarine. The contractors are Newport News Shipbuilding, Newport News, VA and Electric Boat Division of General Dynamics, Groton, CT.

<u>Mission</u>: NSSN is being designed to meet the potential threats of the next century in a multi-mission capable submarine that has the ability to provide covert sustained presence in denied waters. NSSN operational missions will include: surveillance, strike warfare, mine countermeasures, and anti-submarine warfare.

	<u>FY</u> <u>Qty</u>	7 1999 <u>Amt</u>	<u>FY</u> <u>Oty</u>	2000 <u>Amt</u>	<u>FY</u> <u>Oty</u>	2001 Amt
Procurement						
Item	(1)	1,950.4	(-)	746.6	(1)	1,711.2
Outfitting		-		-		-
Post Delivery				<u> </u>		<u>-</u>
Subtotal	(1)	1,950.4	(-)	746.6	(1)	1,711.2
RDT&E		343.0		372.0		320.4
Military Construction		<u>-</u>		<u>-</u>	_	
TOTAL		2,293.4		1,118.6		2,031.6

LPD-17 SAN ANTONIO CLASS AMPHIBIOUS TRANSPORT DOCK

<u>Description</u>: The SAN ANTONIO Class Amphibious Transport Dock ships are functional replacements for 41 ships of four classes of amphibious ships. The LPD 17 design includes systems configurations that reduce operating and support costs and facilitate operational performance improvements. System engineering and integration efforts have developed further reductions in life cycle costs and integrated performance upgrades in a rapid, affordable manner. Possible improvements include composite masts, advanced sensors, advanced computers, advanced command and control software, advanced information systems technologies, and ship based logistics concepts. The contractors are Avondale Industries, New Orleans, LA, and Bath Iron Works, Bath, Maine.

<u>Mission</u>: The LPD-17 class ships embark, transport, and land elements of Marine landing forces in an amphibious assault by helicopters, landing craft, and amphibious vehicles. As tactics, techniques, and tools for naval expeditionary warfare continue to evolve, the LPD-17 class configuration must have the flexibility to respond to this evolutionary process, since these ships are expected to be in service until almost 2050.

	FY 1999 Oty Amt	<u>FY 2000</u> Qty <u>Amt</u>	FY 2001 Oty Amt
Procurement			
Item	(1) 632.9	(1) 1,504.4	(2) 1,510.0
Outfitting	-	12.2	23.8
Subtotal	632.9	1,516.6	1,533.8
RDT&E	1.3	1.3	2.6
Military Construction	n <u>-</u>	-	
TOTAL	634.2	1,517.9	1,536.4

ADC(X) AUXILIARY DRY CARGO SHIP

Description: ADC(X) is a new United States Navy ship acquisition program. The ADC(X) will replace the aging fleet of refrigerated cargo and food stores ships (designated AFS Class) and ammunition ships (designated AE Class) in the Navy's Combat Logistics Force. The contract for the first ship is being completed and will be awarded in the fourth quarter of FY 2000.

<u>Mission</u>: The ADC(X) class ships will provide a steady stream of ammunition, spare parts and provisions (dry, refrigerated and frozen) to naval forces at sea in its role as a shuttle ship.

	<u>FY 1999</u>	FY 2000	FY 2001
	Qty Amt	Qty Amt	Qty Amt
Procurement			
Item	-	(1) 438.8	(1) 339.0
Outfitting	-	-	-
Post Delivery	-	-	-
Subtotal	-	438.8	339.0
RDT&E	5.7	11.9	_
Military Construction	on <u>-</u>	-	-
TOTAL	5.7	450.7	339.0

TRACKED COMBAT VEHICLES ARMY

MEDIUM ARMORED VEHICLES

Description: The Medium Armored Vehicle (MAV) program is a program to meet the Army's new vision in support of the Army's transformation, and to bridge the combat vehicle gap until the Army develops and fields the Future Combat System (FCS). The MAV program will explore commonality of medium weight vehicular platforms for combat, combat support and combat service support functions. Tactical requirements require that the combat vehicle be highly mobile, lethal, survivable, sustainable, and be capable of deployment by C130 aircraft.

<u>Mission</u>: The MAV program provides a medium weight fighting vehicle with enhanced mobility, lethality, survivability and sustainability to meet the Army's transformation strategy in support of the Army's new vision of full spectrum dominance and strategic mobility.

	FY 19	999	<u>FY</u>	<u> 2000</u>	FY :	<u> 2001</u>
	<u>Qty</u>	Amt	<u>Qty</u>	Amt	Qty	Amt
Procurement						
Item		-		-		537.1
Initial Spare						
Subtotal		-		-		537.1
RDT&E		-		-		109.3
Military Construction	1			<u></u>		
TOTAL		_		-		646.4

TRACKED COMBAT VEHICLES ARMY

ABRAMS (M1) TANK UPGRADE PROGRAM

<u>Description</u>: The M1 Tank Upgrade program provides continued modernization to the Abrams tank fleet by upgrading older M1 tanks to the latest M1A2 configuration. Current upgrades include adding improved armor, a 120mm gun, a Commander's Independent Thermal Viewer, an Improved Commander's Weapon Station, digitized communications and nuclear, biological and chemical protection. The latest configuration, the M1A2 System Enhancement Program (SEP), began delivery in August 1999. The M1A2 SEP also includes 2nd Generation Forward Looking infrared sensors, a thermal Management System and Force XXI Battle Command, Brigade and Below (FBCB2) digital C2/SA software. The prime contractor is General Dynamics Land Systems of Sterling Heights, MI.

<u>Mission</u>: The mission of the M1 Upgrade program is to provide a main battle tank with increased survivability, mobility, firepower, and lethality for U.S. armor forces.

Program Acquisition Costs (\$ Millions)
EX 2000

		<u> 1999</u>		<u> 2000</u>		<u> 2001</u>
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(120)	689.1	(120)	633.1	(80)	512.9
Initial Spares		9.7		9.7		<u>14.8</u>
Subtotal		698.8		642.8		527.7
RDT&E		8.8		36.5		82.7
Military Construction						
TOTAL		707.6		679.3		610.4

TRACKED COMBAT VEHICLES ARMY

BRADLEY BASE SUSTAINMENT PROGRAM

<u>Description</u>: The Bradley Base Sustainment Program originated as a program to upgrade first generation Bradley AO's to a Bradley A2 configuration and bridge a production gap until the introduction of the of the Bradley A3 upgrade program. Variants produced under this procurement line have been the Bradley AO-A2 conversion and Bradley Stinger Fighting Vehicle (Linebacker). Active procurement within this program is the Bradley M2/M3A3 (fully embedded digital system with improved fire control) program. Bradley variant fielding and Bradley A0 to M2/M3A3 Operation Desert Storm (ODS) configuration (which incorporates tactical navigation system and eye-safe laser range-finder), as well as other modification upgrades for the Army National Guard.

The prime contractor is United Defense Limited Partnership, San Jose, CA.

<u>Mission</u>: The mission of the Bradley Base Sustainment program preserves the private sector Bradley Fighting Vehicle industrial base by continuing major modifications and upgrades to Bradley Fighting Vehicle Systems. These upgrades implement the Army's Armored System Modernization effort in support of National Military Strategy.

	FY 1999		FY	FY 2000		2001
	<u>Qty</u>	<u>Amt</u>	<u>Oty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>
Procurement						
Item	(-)	361.6	(-)	379.9	(-)	379.4
Initial Spares		<u>7.0</u>		<u>9.1</u>		<u>11.5</u>
Subtotal		368.6		389.0		390.9
RDT&E		<u>60.8</u>		<u>24.8</u>		<u> </u>
TOTAL		429.4		413.8		390.9

TRACKED COMBAT VEHICLES ARMY

CRUSADER

Description: The Crusader system is the Army's next generation self-propelled howitzer (SPH) and Artillery re-supply vehicle (RSV) designed to support Army XXI and the Objective force. Crusader will incorporate advanced technologies to increase rate-of-fire in excess of 250%, improve accuracy, mobility and ammunition handling while reducing ownership costs by 25% and crew size by 33%. This system provides the firepower and deployability required to support the force commander's goals of dominating the maneuver battle, leveraging information dominance, and protecting the force. The prime contractor is United Defense Limited Partnership, (UDLP) Minneapolis, MN.

On 15 November 1994 Crusader entered the Program Definition and Risk Reduction (PDRR) acquisition phase. The Army will field 480 Crusader systems between FY 07 and FY 12 displacing the M109A6, Paladin, SPH (an upgraded 40 year-old howitzer) and M992, Field Artillery Ammunition Supply Vehicle.

<u>Mission</u>: Provides the advanced Direct Support/General Support 155mm self propelled howitzer (SPH) and resupply vehicles (RSV) (1 towed and 1 tracked RSV for each 2 howitzers required to support the future maneuver force of Army XXI and the Objective Force fire support and artillery ammunition resupply capability to the maneuver force.

	<u>FY 1999</u> <u>Oty Amt</u>	FY 2000 Oty Amt	FY 2001 Oty Amt
Procurement			
Item	(-) -	(-) -	(-)
Initial Spares	-	-	-
Subtotal	-		-
RDT&E	300.5	266.2	355.3
Military Construction			<u>.</u>
TOTAL	300.5	266.2	355.5

SPACE PROGRAMS ARMY

DEFENSE SATELLITE COMMUNICATIONS SYSTEM (GROUND SYSTEMS) (DSCS)

<u>Description</u>: The Defense Satellite Communications System (Ground Systems) develops strategic and tactical Ground Subsystem equipment to support unique and vital Command, Control, Communications and Intelligence (C3I) systems for the worldwide Super High Frequency (SHF) Defense Satellite Communications System (DSCS) program. DSCS provides war-fighters multiple channels of tactical connectivity as well as interface with strategic networks and national level decision-makers.

<u>Mission</u>: DSCS provides SHF wide-band and anti-jam satellite communications supporting critical national strategic and tactical C3I requirements.

	FY 1999 Oty Amt	FY 2000 Oty Amt	FY 2001 Oty Amt
Procurement			
Item	(-) 93.9	(-) 68.5	(-) 72.0
Initial Spares	14.8	11.8	<u>11.2</u>
Subtotal	108.7	80.3	83.2
RDT&E	15.2	8.9	9.9
Military Construction	-		
TOTAL	123.9	89.2	93.1

DEFENSE SUPPORT PROGRAM (DSP)

<u>Description</u>: The Defense Support Program provides worldwide missile attack warning and surveillance. It specifically provides an early detection and warning of ballistic missiles and space launches during the boost phase. It is also capable of providing detection and reporting of nuclear detonations. A total of 23 DSP satellites have been procured, 4 of which remain to be launched over the next four years. DSP 19 was launched April 1999 but did not reach its proper orbit due to an upper stage failure. DSP-20 through DSP-22 will be launched with Titan IV boosters using an Inertial Upper Stage (IUS). DSP-23 will be launched with the heavy variant of the Evolved Expendable Launch Vehicle (EELV). The prime contractor for DSP is TRW, Los Angeles, CA. Aerojet, Los Angeles, CA makes the primary sensor.

<u>Mission</u>: Improves U.S. capability to detect and assess missile launches and detonations both in and outside of earth atmosphere.

	FY 199 Oty	<u>99</u> Amt	<u>FY 2</u> <u>Qty</u>	2000 <u>Amt</u>	<u>FY 2</u> Oty	2001 Amt
Procurement						
Item	(-)	87.0	(-)	108.4	(-)	106.4
Initial Spares	-	<u> </u>				
Subtotal		87.0		108.4		106.4
RDT&E		14.0		7.4		9.5
Military Construction	-	<u> </u>		<u></u>		<u>_</u>
TOTAL	1	01.0		115.8		115.9

MEDIUM LAUNCH VEHICLES (MLV)

<u>Description</u>: Provides for procurement and launch of Medium Launch Vehicles (MLVs) for use in launching medium weight satellites into orbit. The prime contractor for the Delta MLV is Boeing, Huntington Beach, California. The prime contractor for the Atlas MLV is Lockheed Martin, Denver, Colorado.

<u>Mission</u>: The Delta MLV launches NAVSTAR Global Positioning System satellites. The Atlas MLV launches Defense Satellite Communications System (DSCS) satellites.

		<u> 1999</u>		FY 2000		FY 2001	
	<u>Oty</u>	<u>Amt</u>	<u>Oty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	
Procurement							
Item	(5)	172.3	(-)	64.0	(-)	55.9	
Initial Spares		<u> </u>				<u> </u>	
Subtotal		172.3		64.0		55.9	
RDT&E		3.5		0.0		0.0	
Military Construction				<u></u>		<u>_</u>	
TOTAL		175.8		64.0		55.9	

MILSTAR

<u>Description</u>: Milstar is a joint service program to develop and acquire communications satellites featuring Extremely High Frequency (EHF) transponders for survivable, jam-resistant, worldwide, secure communications for both strategic and tactical users. These satellites are launched with Titan IV boosters with a Centaur Upper Stage. The first two satellites were launched in 1994 and 1996 and provide low data rate communications. The third satellite, which would have been the first medium data rate satellite, was a launch failure in May 1999. The remaining 3 satellites will be launched from 2001 through 2002 and will provide medium data rate communications. The prime contractor for the Milstar Program is Lockheed Martin Corp., Sunnyvale, California. Principal subcontractors are TRW, Redondo Beach, California, and Hughes, El Segundo, California.

<u>Mission</u>: The Milstar system will support the highly survivable, jam-resistant, worldwide, secure communications needs of the President and commanders for the command and control of U.S. strategic and tactical forces through all levels of conflict.

	Qty	<u>1999</u> <u>Amt</u>	<u>FY</u> <u>Qty</u>	2000 <u>Amt</u>	<u>FY</u> <u>Qty</u>	2001 <u>Amt</u>
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-	_	-	_	-
RDT&E		514.0		357.2		236.8
Military Construction				<u> </u>		
TOTAL		514.0		357.2		236.8

NAVSTAR GLOBAL POSITIONING SYSTEM (NAVSTAR GPS)

Description: The NAVSTAR Global Positioning System (NAVSTAR GPS) provides a global, three-dimensional positioning, velocity and time information system for aircraft, artillery, ships, tanks and other weapons delivery systems. Boeing, Seal Beach, California, manufactured the 28 Block II/IIA satellites, the last of which was launched in November 1997. Prime contractor for the 21 Block IIR satellites is Lockheed Martin, Valley Forge, Pennsylvania. The first Block IIR satellite was launched in mid 1997. Boeing, Seal Beach, California, is manufacturing 6 Block IIF satellites awarded in FY 1997 and FY 1998. Additional Block IIF satellites will be procured in FY 2003 and subsequent years. Block IIR satellites are launched with Delta boosters, and Block IIF will be launched with the Evolved Expendable Launch Vehicle (EELV). The fully operational GPS constellation consists of 24 satellites in orbit at all time.

The budget includes funds to modernize the GPS constellation. The last 12 Block IIR satellites will incorporate a second civil signal as well as a new military signal. All Block IIF satellites will include a second and third civil signal and the new military signal. The seventh and subsequent Block IIF satellites will also have a 20 dB spot beam.

Mission: To provide a global system of satellites for navigation and position locating purposes

	FY Oty	<u>1999</u> <u>Amt</u>	<u>FY</u> :	2000 <u>Amt</u>	<u>FY</u> :	2001 Amt
Procurement						
Item	(3)	87.8	(-)	125.4	(-)	210.3
Initial Spares		<u></u>				<u></u>
Subtotal		87.8		125.4		210.3
RDT&E		101.6		107.5		250.2
Military Construction	_	<u>-</u>	_	<u> </u>	_	<u>-</u>
TOTAL		189.4		232.9		460.5

TITAN SPACE LAUNCH VEHICLES

<u>Description</u>: Provides for the procurement and launch of Titan IV and the conversion of Titan II ICBMs into space launch vehicles. The Titan IV is used to launch the Department's heavier payloads and can accommodate either the Centaur upper stage or the Inertial Upper Stage (IUS). A total of 39 Titan IV boosters have been procured, of which 11 remain to be launched over the next 4 years. A total of 14 Titan IIs were modified for spacelift, of which 5 remain available for launch. Lockheed Martin, Denver, Colorado is the prime contractor. Alliant, Salt Lake City, Utah makes the solid rocket motors. Aeroject, Sacramento, California makes the liquid rocket engines. Boeing, Seattle, WA provides the IUS.

<u>Mission</u>: Program provides the capability to launch critical DoD heavyweight operational payloads through FY 2002.

	<u>FY</u> <u>Qty</u>	<u>1999</u> <u>Amt</u>	<u>FY</u> <u>Qty</u>	2000 Amt	Oty	2001 Amt
Procurement						
Item	(-)	535.6	(-)	429.2	(-)	469.7
Initial Spares						
Subtotal		535.6		429.2		469.7
RDT&E		69.8		44.8		25.8
Military Construction						
TOTAL		605.4		474.0		495.5

EVOLVED EXPENDABLE LAUNCH VEHICLE (EELV)

<u>Description</u>: EELV will replace the current families of Delta, Atlas, and Titan expendable launch vehicles with a new, lower cost program for the acquisition of space launch services for 2002 and subsequent years. The goal of EELV is to reduce launch costs 25-50 percent over current systems by redesigning launch hardware and ground processing facilities and by introducing commercial business practices. The cost of developing EELV will be shared by the Air Force and the two EELV contractors. EELV began the Demonstration and Validation (Dem/Val) phase in December 1996 and entered Engineering and Manufacturing Development (EMD) in October 1998. Two contractors will develop and produce their own EELVS. The contractors are Boeing, Huntington Beach, California, and Lockheed Martin, Denver, Colorado.

<u>Mission</u>: EELV will provide the DoD, the NRO, and other government and commercial purchasers of launch services with low cost, highly reliable access to space for medium to heavy lift class of satellites starting in FY 2002.

	<u>FY</u>	<u>1999</u> <u>Amt</u>	<u>FY :</u> <u>Qty</u>	2000 <u>Amt</u>	<u>FY</u> :	2001 Amt
Procurement						
Item	(-)	-	(1)	68.1	(3)	288.0
Initial Spares		-		-		-
Subtotal		-	_	68.1	_	288.0
RDT&E		242.0		318.0		332.9
Military Construction				<u> </u>		
TOTAL		242.0		386.1		620.9

SPACE BASED INFRARED SYSTEM (SBIRS) - HIGH

Description: SBIRS is a "system of systems" that will include both a High and a Low space segment and a consolidated ground processing system. SBIRS High will field a constellation of four satellites in geosynchronous orbit (GEO) and two satellites in highly elliptical orbit (HEO) to provide initial warning of a ballistic missile attack against the United States, its deployed forces, or its allies. SBIRS High will support National Missile Defense and will also be used to collect a variety of technical intelligence. The High segment, which will replace the Defense Support Program (DSP), entered Engineering and Manufacturing Development (E&MD) in October 1996. The first two GEO satellites and the two HEO satellites will be acquired with RDT&E appropriations. The third, fourth, and fifth GEO satellites will be funded with Procurement appropriations. SBIRS High will be launched with a medium variant Evolved Expendable Launch Vehicle (EELV). Lockheed Martin, Sunnyvale, California, is the prime contractor for SBIRS High. The first launch of SBIRS High is now scheduled for late 2004.

<u>Mission</u>: SBIRS High will use new technologies to enhance detection and improve reporting of strategic and tactical ballistic missile launches.

	Qty	1999 <u>Amt</u>	<u>FY</u> <u>Qty</u>	2000 <u>Amt</u>	<u>FY</u> <u>Qty</u>	2001 Amt
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-	_	-	_	-
RDT&E		508.5		420.5		569.2
Military Construction						
TOTAL		508.5		420.5		569.2

SPACE BASED INFRARED SYSTEM (SBIRS) - LOW

<u>Description</u>: SBIRS is a "system of systems" that will include both a High and a Low space segment and a consolidated ground processing system. SBIRS Low, formerly known as the Strategic Missile Tracking System (SMTS), will field a constellation of approximately 24 satellites in low earth orbit (LEO) to provide midcourse tracking and discrimination data for National and Theater Missile Defense. SBIRS Low will enhance ground based radars for missile targeting and tracking for National Missile Defense. It will also be used for battlefield characterization and for technical intelligence. The program entered the program definition (PD) phase in August when contracts were awarded to TRW (teamed with Raytheon) and Spectrum Astro (teamed with Northrop Grumman. At the conclusion of the PD phase, only one of the two PD teams will be continued into Engineering and Manufacturing Development (E&MD) and production. First launch of an operational satellite is now scheduled for late 2006.

<u>Mission</u>: SBIRS Low will use new technologies to provide midcourse tracking and discrimination data for defense against strategic and tactical ballistic missiles.

	<u>FY</u> Oty	<u>1999</u> <u>Amt</u>	Qty	2000 <u>Amt</u>	Qty	2001 Amt
Procurement						
Item	(-)	-	(-)	-	(-)	-
Initial Spares		-		-		-
Subtotal		-	_	-	_	-
RDT&E		181.3		225.6		241.0
Military Construction						<u></u>
TOTAL		181.3		225.6		241.0

FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)

<u>Description</u>: The FHTV consists of the Palletized Load System (PLS), Heavy Equipment Transporter System (HETS) and Heavy Expanded Mobility Tactical Truck (HEMTT) and Forward Repair System (FRS). The PLS consists of a 16.5-ton tactical vehicle composed of a truck (10x10 with central tire inflation system (CTIS)) with integral self-load/ unload capability, 16.5-ton companion trailer and de-mountable cargo beds (flatracks). HETS consists of the M1070 tractor (8x8 w/CTIS) and the M1000 semi-trailer (70-ton). The HEMTT is a 10-ton (8x8) which comes in six configurations (M977-Cargo w/Crane, M978-Fuel Tanker 2500 gallons, M983-Tractor, M984A1-Wrecker, M985-Cargo w/Medium Crane) and HEMTT Load Handling System (LHS). The prime contractor is Oshkosh Truck Corporation of Oshkosh, WI.

<u>Mission</u>: PLS is a key transportation component of the Maneuver Ammunition Distribution System (MOADS). PLS is assigned to self-propelled artillery units, Forward Support Battalions, and selected ammunition and transportation companies and is a key combat service support (CSS) enabler for division XXI. HETS provides the transportation and evacuation of the M1 Main Battle Tank. HEMTT provides resupply of combat vehicles, helicopter and missile systems in combat support units across all tactical mobility levels. HEMTT LHS and FRS are key enablers for the transformation brigades and division XXI.

	<u>FY 1999</u> <u>Qty Amt</u>		FY 2000 Qty Amt		<u>FY</u> Qty	2001 Amt
	Qty	Amt	<u>Qty</u>	Amt	Qty	Ame
Procurement						
Item	(-)	191.1	(-)	193.4	(-)	166.1
Initial Spares		<u>_</u>		<u>_</u>		
Subtotal		191.1		193.4		166.1
RDT&E		8.0		1.4		=
Military Construction						
TOTAL		199.1		194.8		166.1

FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)

Description: The FMTV is a family of diesel powered trucks in the 2 1/2 ton (4x4) and 5 ton (6x6) payload classes that will modernize and improve the existing medium-tactical wheeled vehicle fleet. This Non-Developmental Item (NDI) procurement capitalizes on current state of the art automotive technology including a diesel engine, automatic transmission, and central tire inflation system (CTIS). The FMTV consists of multiple body styles: cargo, wrecker, dump, tractor, airdrop, etc. The FMTV with its enhanced mobility, state of the art components, and logistics commonality between Light (4x4 LMTV) and Medium (6x6 MTV) will improve unit operational capabilities and reduce Operation and Support (O&S) costs. The prime contractor is Stewart and Stevenson, Inc. in Sealy, TX.

<u>Mission</u>: FMTV performs numerous unit mobility and unit resupply missions including the transport of equipment and personnel. FMTVs numerous models perform a wide variety of missions including cargo transport (cargo model), vehicle recovery operations (wrecker), construction (dump), line haul (tractor), and airdrop missions (Low Velocity Air Drop (LVAD) model). FMTVs support combat support and combat service support unit missions as well as civil disaster relief.

	FY 1999	FY 2000	FY 2001
Procurement	Qty Amt	Qty Amt	Oty Amt
Item	335.5	424.1	438.3
Initial Spares	1	<u></u>	
Subtotal	335.6	424.1	438.3
RDT&E		2.0	2.0
Military Construction	<u></u>	<u></u>	<u></u>
TOTAL	335.6	426.1	440.3

HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV)

<u>Description</u>: The High Mobility Multipurpose Wheeled Vehicle (HMMWV) is a light, highly mobile, diesel powered air transportable and air dropable, 4-wheel drive tactical vehicle. The HMMWV can be configured through the use of common components and kits to become a cargo/troop carrier, armament carrier, shelter carrier, ambulance, and TOW and Stinger weapons carrier. The prime contractor is AM General of Mishawaka, IN.

<u>Mission</u>: The HMMWV fulfills specific missions such as serving as the platform for several weapon systems and as an uparmored vehicle for scout and military police missions.

	<u>FY 1999</u> <u>Oty </u>	FY 2000 Oty Amt	<u>FY 2001</u> <u>Oty Amt</u>
Procurement			
Item	(675) 73.	6 (841) 91.7	(1002) 110.7
Initial Spares		.11	<u> </u>
Subtotal	73.	7 91.8	3 110.7
RDT&E		- 7.4	9.9
Military Construction		<u>.</u> .	
TOTAL	73.	7 99.2	120.6

SENSE AND DESTROY ARMOR (SADARM)

Description: The 155MM Sense and Destroy Armor (SADARM) projectile is a fire and forget, multi-sensor smart munition designed to detect and destroy countermeasure armored vehicles, primarily self-propelled artillery. SADARM is delivered to the target area in 155MM artillery projectiles. Each projectile carries 2 SADARM submunitions. Once dispensed, each submunition detects targets using dual-mode millimeter-wave and infrared sensor and fires an explosively formed penetrator through the top of the target. These capabilities will be enhanced by the SADARM Product Improvements Program. SADARM is manufactured by Aerojet Electronic System Division, Azusa, CA.

<u>Mission</u>: The 155MM SADARM projectile provides enhanced fire/counterfire support against stationary, armored vehicles, primarily self propelled artillery, well beyond the forward line of troops. SADARM enables rapid engagement under inclement weather, degraded battlefield conditions and Nuclear, Biological, and Chemical (NBC) environments, both day and night.

	FY 1999		FY 2	FY 2000		FY 2001	
	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	<u>Qty</u>	<u>Amt</u>	
Procurement							
SADARM	(30)	31.3	(-)	14.9	(-)	14.9	
Initial Spares		<u></u>				<u></u>	
Subtotal		31.3		14.9		14.9	
RDT&E		30.3		24.1		52.8	
Military Construction							
TOTAL		61.6		39.0		67.7	

OTHER PROGRAMS AIR FORCE

SENSOR FUZED WEAPON (SFW)

<u>Description</u>: The Sensor Fuzed Weapon (CBU-97/B), is a cluster munition designed for direct attack against armored targets. The SFW is manufactured by Textron Defense Systems, Wilmington, MA. The FY 2001 budget request continues production.

<u>Mission:</u> The objective of the SFW is to develop and produce a conventional munition capable of multiple kills per pass against operating armored vehicles, air defense units, and other support vehicles.

	FY 1 Oty	<u>1999</u> <u>Amt</u>	<u>FY 2</u> <u>Oty</u>	2000 Amt	<u>FY 2</u> <u>Oty</u>	001 <u>Amt</u>
Procurement						
Sensor Fuzed Weapon	(386)	118.0	(214)	85.4	(300)	107.2
Initial Spares				<u></u>		
Subtotal		118.0		85.4		107.2
RDT&E		7.8		11.6		0
Military Construction		<u></u>				<u></u>
TOTAL		125.8		97.0		107.2

OTHER PROGRAMS AIR FORCE

WIND CORRECTED MUNITIONS DISPENSER (WCMD)

<u>Description</u>: The Wind Corrected Munitions Dispenser (WCMD) guidance kit for the CBU-87/B, CBU-89/B and the CBU-97/B provides inertial navigation to correct for the effects of wind transients and ballistic errors caused by wind when these CBU munitions are released from medium to high altitudes. The contractor is Lockheed Martin, Orlando, FL. The FY 2001 budget request continues production.

<u>Mission:</u> The objective of the WCMD is to improve the war-fighting effectiveness of both bombers and fighters.

	<u>FY 1</u> <u>Qty</u>	999 Amt	Oty	2 <u>000</u> Amt	Oty	001 Amt
Procurement						
Dispensers	(676)	14.9	(2,990)	48.6	(6,308)	104.0
Initial Spares	_	<u>-</u>	_		_	
Subtotal		14.9		48.6		104.0
RDT&E		11.3		3.9		-
Military Construction	_	<u>-</u>	_	<u>-</u>	_	-
TOTAL		26.2		52.5		104.0

BALLISTIC MISSILE DEFENSE (BMD)

Description: The Ballistic Missile Defense (BMD) program provides for the acquisition of weapon systems capable of defending U.S. interests from ballistic missile attacks. The FY 2001 program emphasizes the development of the Theater Missile Defense (TMD) and the National Missile Defense (NMD) systems. The primary components of the TMD program are the Patriot Advance Capability - 3 (PAC-3) missile; the Theater High Altitude Area Defense (THAAD) system; the Navy Area Theater Ballistic Missile Defense (TBMD) system; and the Navy Theater-Wide (NTW) program. The FY 2001 BMD programs also provide for the continued development of technology leading to future deployment of a National Missile Defense (NMD) capability. The Airborne Laser program is provided separately in the Air Force Aircraft section.

<u>Mission</u>: To conduct research and development of defensive technologies and related systems that may enable the destruction of ballistic missiles and warheads in flight; and to develop systems that protect the U.S. as well as U.S. and allied forces from a missile attack.

	Program Acquisition Costs					
	(\$ Millions)					
\mathbf{F}	Y 1999	FY 2000	FY 2001			
Qt		Qty Amt	Qty Amt			
RDT&E (BMDO)						
National Missile Defense	1,678.2	950.2	1,740.2			
Supplemental*	150.0	707.0	.0			
THÂAD	431.9	602.9	549.9			
Supplemental*	0.0	38.0	.0			
Support Technologies	366.9	301.2	130.9			
Navy Area	241.9	307.3	274.2			
Navy Theater Wide	366.3	375.8	382.7			
Supplemental*	10.0	20.0	0.0			
Patriot PAC-3	237.3	179.1	81.0			
Supplemental*	0.0	75.0	0.0			
MEADS	11.7	48.6	63.2			
Joint TMD	204.2	196.6	0.0			
Family of Systems	94.4	145.7	231.2			
BMD Technical Operations	188.3	214.4	270.7			
Other Programs**	88.8	<u> 105.9</u>	<u>219.3</u>			
Subtotal BMDO	3,123.8	3,427.7	3,943.2			
Supp. Subtotal*	160.0	840.0	0.0			
RDT&E (AF) Airborne Laser	252.5	304.2	148.6			
Space Based Laser	<u>32.6</u>	<u>72.8</u>	<u>63.2</u>			
Subtotal	$2\overline{85.1}$	$3\overline{77.0}$	211.8			
RDT&E (Army) Jlens	13.0	24.9	<u>25.1</u>			
Subtotal RDT&E	4,208.0	3,829.6	4,180.1			
Military Construction (BMDO)	9.7	16.4	103.5			

BALLISTIC MISSILE DEFENSE (BMD) (Cont.)

		(\$ Millions)	
	<u>FY 1999</u> <u>Oty Amt</u>	FY 2000 Oty Amt	<u>FY 2001</u> <u>Oty Amt</u>
Procurement (BMDO)			
Patriot PAC-3	187.4	343.8	365.5
TMD BMC3	22.5	0.0	3.9
NMD	0.0	0.0	74.5
Navy Area	42.7	<u> 18.1</u>	0.0
Subtotal Procurement	252.6	361.9	443.9
TOTAL BMD	4,970.3	4,207.9	4,727.0
Supplemental Total*	160.0	840.0	0.0

st The amounts included for BMD programs using FY 1999 Emergency Supplemental no year funding are a non-add entry and are provided to show how the supplemental is being executed.

^{**} Includes Int'l Cooperative, Threat and Countermeasures, Boost Phase Intercept and Pentagon renovation.

THEATER MISSILE DEFENSE (TMD)

Description: The Ballistic Missile Defense (BMD) program provides for the acquisition of weapon systems capable of defending U.S. interests from ballistic missile attacks. The FY 2001 program emphasizes the development of the Theater Missile Defense (TMD) and the National Missile Defense (NMD) systems. The primary components of the TMD program are the Patriot Advance Capability - 3 (PAC-3) missile; the Theater High Altitude Area Defense (THAAD) system; the Navy Area Theater Ballistic Missile Defense (TBMD) system; and the Navy Theater-Wide (NTW) program. The Air Force provides for the Airborne Laser program. The Space Based Laser program is funded jointly between the Air Force and BMDO.

<u>Mission</u>: To conduct research and development of defensive technologies and related systems that may enable the destruction of ballistic missiles and warheads in flight; and to develop systems that protect U.S. and allied forces from a missile attack.

	Program Acquisition Costs*					
	(\$ Millions)					
	FY 1999	FY 2000	FY 2001			
	Oty Amt	Oty Amt	Oty Amt			
RDT&E (BMDO)						
THAAD	429.3	602.9	549.9			
THAAD supplement	0.0	38.0	0.0			
Support Technologies	364.7	301.2	130.9			
Navy Area	241.8	307.3	272.2			
Navy Theater Wide	334.3	375.7	382.1			
Supplemental	10.	20.0	(0.0)			
Patriot PAC-3	237.3	179.1	81.0			
Supplemental	-	75.0	(0.0)			
MEADS	11.6	48.6	63.2			
Space Based Laser	0.0	0.0	74.5			
Joint TMD	203.2	196.6	0.0			
Family of Systems	93.8	145.7	231.2			
BMD Technical Operations	187.2	214.4	270.7			
Other Programs**	88.1	105.9	144.4			
Subtotal BMDO	2,191.3	2,477.4	2,200.1			
Supp. Subtotal	10.0	133.0	0.0			
RDT&E (AF)						
Airborne Laser	253.9	304.2	148.6			
Space Based Laser	32.6	<u>72.8</u>	63.2			
Subtotal Air Force	286.5	377.0	211.8			
RDT&E (Army) JLENS	13.0	24.9	<u>25.1</u>			
Subtotal RDT&E	2,490.7	3,014.1	2,437.0			

THEATER MISSILE DEFENSE (TMD) (Cont.)

Military Construction (BMDO)	.3	1.4	1.9
Procurement (BMDO)			
Patriot PAC-3	184.5	343.8	365.5
TMD BMC3	27.5	0.0	3.9
Navy Area	47.7	18.1	<u>0.0</u>
Subtotal Procurement	249.7	361.9	369.4
TOTAL TMD	2,730.7	3,244.4	2,808.3
Supplemental Total	10.0	133.0	0.0

st The totals include funding from the FY 1999 Emergency Supplemental in the year it would be executed.

^{**} Includes Int'l Cooperative, Threat and Countermeasures, Boost Phase Intercept and pentagon renovation.

NATIONAL MISSILE DEFENSE (NMD)

<u>Description</u>: The Ballistic Missile Defense (BMD) program provides for the acquisition of weapon systems capable of defending U.S. interests from ballistic missile attacks. The FY 2001 BMD program provides for the continued development of technology leading to future deployment of a National Missile Defense (NMD) capability.

Mission: To develop systems that protect the U.S. from a missile attack.

	Program Acquisition Costs* (\$ Millions)					
	<u>FY 1999</u> <u>Oty Amt</u>	FY 2000 Oty Amt	FY 2001 Oty Amt			
RTD&E Supplemental	932.5 150.0	822.2 707.0	1,740.2			
Subtotal RDT&E	1,082.5	1,083.2	1,740.2			
Military Construction	9.7	15.0	101.6			
Procurement	-	-	<u>74.5</u>			
TOTAL NMD	1.092.2	1.544.2	1.916.3			

^{*} The totals include funding from the FY 1999 Emergency Supplemental in the year it would be executed.

JOINT DIRECT ATTACK MUNITION

Description: The Joint Direct Attack Munition (JDAM) program is a joint AF/Navy program led by the Air Force. JDAM improves the existing inventory of MK83, MK84 and BLU-109 weapons by integrating a Global Positioning System (GPS) inertial navigation guidance capability that improves accuracy and adverse weather capability. The prime contractor is Boeing, St. Louis, MO. The FY 2001 budget request continues production.

<u>Mission</u>: This program will enhance current DoD conventional strike system capabilities by providing the ability to precisely attack time-critical, high value fixed, relocateable or maritime targets under adverse environmental conditions and from all altitudes.

	FY 1999		FY 2000		FY 2001	
Procurement	<u>Oty</u>	<u>Amt</u>	<u>Oty</u>	<u>Amt</u>	<u>Oty</u>	<u>Amt</u>
Item Air Force Navy	(3778) (745)	99.5 37.6	(8,158) (1,864)	189.7 81.2	(9,098) (672)	219.8 24.4
Item Subtotal	(4,523)	137.1	(10,022)	270.9	(9,770)	244.2
Initial Spares		<u>-</u>	_	<u> </u>		<u>-</u>
Subtotal		137.1		270.9		244.2
RDT&E Air Force Navy		11.5 <u>11.2</u>		6.3 11.7	_	1.2 26.2
RDT&E Subtotal		22.7		18.0		27.4
Military Construction	_	-	_	-	_	-
Air Force Navy		111.0 48.8		196.0 92.9		221.0 50.6
TOTAL		159.8		288.9		271.6

UNMANNED AERIAL VEHICLES (UAV)

<u>Description</u>: The Department is acquiring a family of Unmanned Aerial Vehicles (UAV) to satisfy tactical reconnaissance mission requirements. Each air vehicle system is being specifically tailored to conduct continuous overhead surveillance in all weather conditions during the day and night, in direct support of the Joint Forces Commander. The UAVs are equipped with electro-optical and Synthetic Aperture Radar (SAR), and other sensors to perform their mission. The systems being developed and procured are: Tactical UAV; Medium Altitude Endurance UAV (Predator) and High Altitude Endurance UAV (Global Hawk).

<u>Mission</u>: The purpose of airborne reconnaissance UAVs is to collect and transmit intelligence information to the combat forces. The function of the UAVs in an airborne reconnaissance environment is to transport sensor, information-processing, and communications systems to locations where the desired information can be collected, to provide an acceptable level of survivability throughout the mission, and to return for repeated use.

	FY 1 Oty	<u>1999</u> <u>Amt</u>	FY 2 Oty	2000 <u>Amt</u>	FY Oty	2001 Amt
Procurement						
Predator UAV (AF) Global Hawk (AF) Subtotal	(7)	129.8 129.8	(7)	57.1 57.1	(7)	22.1 22.4 44.5
RDT&E Army (TUAV) Navy (TUAV) Air Force (EUAV) Subtotal		50.2 50.8 183.0 284.0		43.1 75.3 <u>77.9</u> 196.3		29.4 113.1 109.2 251.7
Military Construction						
TOTAL		413.8		253.4		296.2