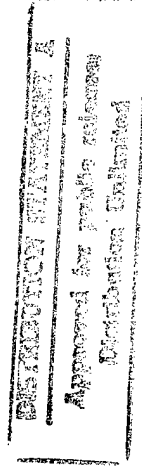


RDTE PROGRAMS (R-1)



Department of Defense Budget for Fiscal Years 2000/2001

February 1999

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Preface

The RDT&E Programs (R-1) is derived from and consistent with the Budget Review System database.

The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal of the President's Budget. This document is also provided to OASD (PA) for use by non-DoD activities, and is available to the public on the Internet at <http://www.dtic.mil/comptroller>.

Office of the Under Secretary of Defense (Comptroller)

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DEPARTMENT OF DEFENSE

FY 2000/2001 RDT&E PROGRAM

FEB 1999

SUMMARY
(\$ IN THOUSANDS)

<u>APPROPRIATION</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Research Development Test & Eval, Army	5,023,313	5,032,198	4,426,194	4,750,578
Research Development Test & Eval, Navy	7,887,810	8,660,809	7,984,016	7,974,893
Research Development Test & Eval, AF	14,278,446	13,700,553	13,077,829	12,756,201
Research Development Test & Eval, Defwide	9,714,240	9,756,624	8,609,289	8,529,630
Developmental Test & Eval, Defense	250,380	258,606	253,457	253,523
Operational Test & Eval, Defense	29,794	34,245	24,434	24,004
Total Research, Development, Test & Evaluation	37,183,983	37,443,035	34,375,219	34,288,829

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DEPARTMENT OF DEFENSE

FY 2000/2001 RDT&E PROGRAM

SUMMARY
(\$ IN THOUSANDS)

FEB 1999

Summary Recap of Budget Activities

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Basic Research	1,011,935	1,107,943	1,113,151	1,098,428
Applied Research	2,910,319	3,150,745	2,959,014	2,948,803
Advanced Technology Development	3,789,993	3,532,392	3,314,086	3,266,906
Demonstration and Validation	6,556,312	7,236,605	5,580,346	5,131,271
Engineering and Manufacturing Development	8,284,420	7,930,520	7,537,619	8,207,099
RDT&E Management Support	3,515,855	2,930,370	2,405,889	2,501,244
Operational Systems Development	11,115,149	11,554,460	11,465,114	11,135,078
Total Research, Development, Test & Evaluation	37,183,983	37,443,035	34,375,219	34,288,829

Summary Recap of FYDP Programs

Strategic Forces	125,130	140,294	158,654	158,441
General Purpose Forces	2,774,356	2,899,617	2,974,198	2,623,281
Intelligence and Communications	7,831,895	7,750,332	7,569,320	7,567,899
Mobility Forces	112,218	153,394	236,529	189,215
Research and Development	25,861,815	25,904,222	22,922,061	23,180,614
Central Supply and Maintenance	217,304	327,745	288,015	292,426
Training Medical and Other	1,249			
Administration and Associated Activities	78,116	40,750	34,925	43,301
Support of Other Nations	30,637	11,474	3,750	3,807
Special Operations Forces	151,263	215,207	187,767	229,845
Total Research, Development, Test & Evaluation	37,183,983	37,443,035	34,375,219	34,288,829

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DEPARTMENT OF THE ARMY

FY 2000/2001 RDT&E PROGRAM

FEB 1999

SUMMARY
(\$ IN THOUSANDS)

<u>Summary Recap of Budget Activities</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Basic Research	177,269	183,727	186,872	191,101
Applied Research	663,035	628,091	555,258	563,386
Advanced Technology Development	677,814	653,024	524,925	494,101
Demonstration and Validation	536,628	497,598	405,723	281,322
Engineering and Manufacturing Development	1,130,519	1,267,285	1,495,741	1,893,978
RDT&E Management Support	1,216,038	1,136,691	665,304	739,807
Operational Systems Development	622,010	665,782	592,371	586,883
Total Research Development Test & Eval, Army	5,023,313	5,032,198	4,426,194	4,750,578
<u>Summary Recap of FYDP Programs</u>				
Strategic Forces	29,910	14,572	24,903	25,141
General Purpose Forces	406,087	409,270	384,051	343,190
Intelligence and Communications	82,800	161,300	80,710	93,655
Research and Development	4,431,764	4,391,575	3,870,363	4,222,286
Central Supply and Maintenance	60,044	52,501	66,167	66,306
Administration and Associated Activities	2,561			
Support of Other Nations	10,147	2,980		
Total Research Development Test & Eval, Army	5,023,313	5,032,198	4,426,194	4,750,578

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DEPARTMENT OF THE ARMY
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
1	0601101A	In-House Laboratory Independent Research	1	13,325	13,574	14,193	14,499	U
2	0601102A	Defense Research Sciences	1	120,211	125,314	125,613	128,578	U
3	0601104A	University and Industry Research Centers	1	43,733	44,839	47,066	48,024	U
		Basic Research		177,269	183,727	186,872	191,101	
4	0602104A	TRACTOR ROSE	2			6,766	6,667	U
5	0602105A	Materials Technology	2	12,319	13,012	13,849	13,825	U
6	0602120A	Sensors and Electronic Survivability	2	25,545	16,614	22,978	23,723	U
7	0602122A	TRACTOR HIP	2	6,872	11,603	9,298	7,191	U
8	0602211A	Aviation Technology	2	22,698	24,943	30,165	31,184	U
9	0602270A	EW Technology	2	15,927	16,116	17,487	18,082	U
10	0602303A	Missile Technology	2	22,199	30,130	32,892	31,469	U
11	0602308A	Modeling and Simulation Technology	2	19,660	21,494	24,955	24,799	U
12	0602601A	Combat Vehicle and Automotive Technology	2	62,141	39,208	39,749	41,625	U
13	0602618A	Ballistics Technology	2	36,678	27,229	36,287	37,687	U
14	0602622A	Chemical, Smoke and Equipment Defeating Technology	2	3,500	5,078	3,996	4,042	U
15	0602623A	Joint Service Small Arms Program	2	8,714	5,188	5,187	5,428	U
16	0602624A	Weapons and Munitions Technology	2	27,962	28,913	34,687	37,487	U
17	0602705A	Electronics and Electronic Devices	2	23,974	25,238	25,796	27,719	U
18	0602709A	Night Vision Technology	2	16,563	19,008	20,111	20,966	U
19	0602712A	Countermine Systems	2	9,928	10,547	10,321	10,453	U
20	0602716A	Human Factors Engineering Technology	2	16,577	16,473	16,392	16,270	U

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DEPARTMENT OF THE ARMY
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S	E
					FY 1999	FY 2000	FY 2001 C		
21	0602720A	Environmental Quality Technology	2	58,711	64,386	12,758	14,041	U	
22	0602782A	Command, Control, Communications Technology	2	16,197	22,359	19,613	21,010	U	
23	0602783A	Computer and Software Technology	2	658	2,170	5,210	4,012	U	
24	0602784A	Military Engineering Technology	2	55,978	52,074	41,085	42,820	U	
25	0602785A	Manpower/Personnel/Training Technology	2	10,736	8,533	12,071	11,904	U	
26	0602786A	Warfighter Technology	2	17,372	18,420	23,971	23,405	U	
27	0602787A	Medical Technology	2	171,362	138,264	70,136	68,014	U	
28	0602789A	ARMY Artificial Intelligence Technology	2	764	1,156	1,276	1,346	U	
29	0602805A	Dual Use Applications Program	2		9,935	18,222	18,217	U	
		Applied Research		663,035	628,091	555,258	563,386		
30	0603001A	Warfighter Advanced Technology	3	33,126	30,430	31,287	16,337	U	
31	0603002A	Medical Advanced Technology	3	202,504	229,325	10,539	12,591	U	
32	0603003A	Aviation Advanced Technology	3	85,778	44,834	34,167	38,585	U	
33	0603004A	Weapons and Munitions Advanced Technology	3	23,694	24,858	39,893	38,686	U	
34	0603005A	Combat Vehicle and Automotive Advanced Technology	3	38,694	61,300	90,941	97,200	U	
35	0603006A	Command, Control, Communications Advanced Technology	3	24,884	23,747	20,883	21,508	U	
36	0603007A	Manpower, Personnel and Training Advanced Technology	3	3,913	2,949	3,030	3,074	U	
37	0603009A	TRACTOR HIKE	3	13,901	9,807	12,553	13,537	U	
38	0603013A	TRACTOR DIRT	3	3,178	48			U	
39	0603017A	TRACTOR RED	3	5,190	4,559	4,582	2,830	U	

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DEPARTMENT OF THE ARMY
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EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
40	0603020A	TRACTOR ROSE	3	10,379	2,001	11,151	10,950	U
41	0603105A	Military HIV Research	3	17,541	5,672	5,976	5,926	U
42	0603122A	TRACTOR HIP	3			2,432	986	U
43	0603238A	Global Surveillance/Air Defense/ Precision Strike Technology Demonstration	3	12,174	9,907	24,618	21,434	U
44	0603270A	EW Technology	3	7,672	11,425	16,169	17,008	U
45	0603313A	Missile and Rocket Advanced Technology	3	91,280	71,394	43,639	24,011	U
46	0603322A	TRACTOR CAGE	3	5,758	4,377	2,665	3,083	U
47	0603606A	Landmine Warfare and Barrier Advanced Technology	3	30,529	23,777	47,456	44,935	U
48	0603607A	Joint Service Small Arms Program	3	8,784	9,608	4,869	5,468	U
49	0603654A	Line-Of-Sight Technology Demonstration	3	4,683	11,920	41,619	52,940	U
50	0603710A	Night Vision Advanced Technology	3	17,628	27,273	36,628	37,035	U
51	0603728A	Environmental Quality Technology Development	3			1,337	1,626	U
52	0603734A	Military Engineering Advanced Technology	3	18,922	15,523	15,881	5,240	U
53	0603772A	Advanced Tactical Computer Science and Sensor Technology	3	17,602	18,257	22,610	19,111	U
54	0604280A	Joint Tactical Radio	3		10,033			U
		Advanced Technology Development		677,814	653,024	524,925	494,101	
55	0603308A	Army Missile Defense Systems Integration (Dem/Val)	4	72,009	38,957	12,353	12,580	U
56	0603619A	Landmine Warfare and Barrier - Adv Dev	4	14,845	6,707	4,099	19,832	U
57	0603639A	Armament Enhancement Initiative	4	36,036	35,784	36,937	42,511	U

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DEPARTMENT OF THE ARMY
FY 2000/2001 RDT&E PROGRAM

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Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
58	0603640A	Artillery Propellant Development	4	7,983				U
59	0603645A	Armored System Modernization - Adv Dev	4	1,130				U
60	0603653A	Advanced Tank Armament System (ATAS)	4	8,485	8,867	1,937	8,870	U
61	0603713A	Army Data Distribution System	4	19,785	15,162	10	17	U
62	0603747A	Soldier Support and Survivability	4	6,196	7,522	12,804	13,642	U
63	0603766A	Tactical Electronic Surveillance System - Adv Dev	4	18,957				U
64	0603774A	Night Vision Systems Advanced Development	4	2,152	2,664	3,188	4,036	U
65	0603790A	NATO Research and Development	4	7,885	4,132	1,872	1,971	U
66	0603801A	Aviation - Adv Dev	4	14,869	11,404	5,746	5,870	U
67	0603802A	Weapons and Munitions - Adv Dev	4			1,751	2,810	U
68	0603804A	Logistics and Engineer Equipment - Adv Dev	4	6,570	18,845	6,514	6,265	U
69	0603805A	Combat Service Support Control System Evaluation and Analysis	4	7,037	14,056	11,062	8,839	U
70	0603807A	Medical Systems - Adv Dev	4	9,181	11,329	12,723	12,235	U
71	0603851A	TRACTOR CAGE (Dem/Val)	4	1,779	960	1,087	985	U
72	0603854A	Artillery Systems - Dem/Val	4	301,160	313,526	282,937	120,457	U
73	0603856A	SCAMP Block II Dem/Val	4	569	7,683	10,703	20,402	U
		Demonstration and Validation		536,628	497,598	405,723	281,322	
74	0604201A	Aircraft Avionics	5	32,504	14,780	6,372	2,990	U
75	0604223A	Comanche	5	262,601	364,784	427,069	565,800	U
76	0604270A	EW Development	5	84,106	86,258	78,603	81,037	U
77	0604280A	Joint Tactical Radio	5			36,797	68,296	U

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DEPARTMENT OF THE ARMY
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
78	0604321A	All Source Analysis System	5	25,275	33,776	49,684	46,399	U
79	0604325A	Follow-on to TOW	5	9,002				U
80	0604328A	TRACTOR CAGE	5	11	1,777	2,848	2,934	U
81	0604601A	Infantry Support Weapons	5				1,747	U
82	0604604A	Medium Tactical Vehicles	5	2,917		1,973	1,971	U
83	0604609A	Smoke, Obscurant and Target Defeating Sys-Eng Dev	5		701	918	2,480	U
84	0604611A	JAVELIN	5	7,512	5,242	493	493	U
85	0604619A	Landmine Warfare	5	21,448	23,036	13,318		U
86	0604622A	Family of Heavy Tactical Vehicles	5	4,683	8,244			U
87	0604633A	Air Traffic Control	5	6,750	1,724	1,981	2,035	U
88	0604640A	Advanced Command and Control Vehicle (AC2V)	5	9,382				U
89	0604641A	Tactical Unmanned Ground Vehicle (TUGV)	5	2,397	2,452			U
90	0604642A	Light Tactical Wheeled Vehicles	5			7,498	9,954	U
91	0604645A	Armored Systems Modernization (ASM)-Eng. Dev.	5		4,470	2,899	6,064	U
92	0604649A	Engineer Mobility Equipment Development	5	52,388	70,590	58,321	37,741	U
93	0604710A	Night Vision Systems - Eng Dev	5	33,338	21,167	30,644	31,270	U
94	0604713A	Combat Feeding, Clothing, and Equipment	5	58,579	67,674	110,829	136,899	U
95	0604715A	Non-System Training Devices - Eng Dev	5	75,977	63,778	71,034	51,925	U
96	0604716A	Terrain Information - Eng Dev	5	2,831	6,157	5,348	6,120	U
97	0604726A	Integrated Meteorological Support System	5	1,823	1,777	2,318	1,782	U

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DEPARTMENT OF THE ARMY
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			FY 2001	S E C
					FY 1999	FY 2000	C		
98	0604739A	Integrated Broadcast Service	5	4,215	4,400	4,552	6,096	U	
99	0604741A	Air Defense Command, Control and Intelligence - Eng Dev	5	20,591	11,458	7,995	8,942	U	
100	0604746A	Automatic Test Equipment Development	5	7,925	9,962	10,252	12,632	U	
101	0604760A	Distributive Interactive Simulations (DIS) - Engineering Development	5	19,572	2,727	7,657	20,646	U	
102	0604766A	Tactical Exploitation of National Capabilities - EMD (TIARA)	5	17,221	43,950	70,940	57,008	U	
103	0604768A	Brilliant Anti-Armor Submunition (BAT)	5	225,241	128,521	128,026	112,149	U	
104	0604770A	Joint Surveillance/Target Attack Radar System	5	6,464	5,463	11,535	26,871	U	
105	0604778A	Positioning Systems Development (SPACE)	5	405	377	443	435	U	
106	0604780A	Combined Arms Tactical Trainer (CATT) Core	5	14,950	7,472	19,925	18,627	U	
107	0604801A	Aviation - Eng Dev	5	5,402	11,519	6,312	9,264	U	
108	0604802A	Weapons and Munitions - Eng Dev	5	18,114	35,566	54,943	55,077	U	
109	0604804A	Logistics and Engineer Equipment - Eng Dev	5	21,591	25,820	22,996	16,074	U	
110	0604805A	Command, Control, Communications Systems - Eng Dev	5	14,352	16,280	23,987	23,842	U	
111	0604807A	Medical Materiel/Medical Biological Defense Equipment - Eng Dev	5	4,200	5,299	9,705	9,448	U	
112	0604808A	Landmine Warfare/Barrier - Eng Dev	5	4,040	52,680	40,916	39,187	U	
113	0604814A	Sense and Destroy Armament Missile - Eng Dev	5	10,485	31,602	19,366	9,775	U	
114	0604817A	Combat Identification	5	19,227	13,379	8,658	2,395	U	

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DEPARTMENT OF THE ARMY
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			FY 2001	C	S	E
					FY 1999	FY 2000					
115	0604818A	Army Tactical Command & Control Hardware & Software	5	20,600	32,548	35,299		33,620	U		
116	0604820A	Radar Development	5		6,742	5,128		8,481	U		
117	0604823A	Firefinder	5	2,400	20,583	32,353		37,589	U		
118	0604824A	DUAP Commercial Operations and Support Savings	5		21,457				U		
119	0604854A	Artillery Systems - EMD	5		1,093	65,806		327,883	U		
		Engineering and Manufacturing Development		1,130,519	1,267,285	1,495,741		1,893,978			
120	0604256A	Threat Simulator Development	6	15,501	12,837	13,680		13,791	U		
121	0604258A	Target Systems Development	6	11,149	13,038	13,397		14,423	U		
122	0604759A	Major T&E Investment	6	40,256	37,030	39,380		40,190	U		
123	0605103A	Rand Arroyo Center	6	15,983	16,685	17,656		17,995	U		
124	0605301A	Army Kwajalein Atoll	6	117,096	133,027	140,344		140,958	U		
125	0605326A	Concepts Experimentation Program	6		13,948	16,990		73,006	U		
126	0605502A	Small Business Innovative Research	6	106,048					U		
127	0605601A	Army Test Ranges and Facilities	6	114,970	118,571	137,193		134,335	U		
128	0605602A	Army Technical Test Instrumentation and Targets	6	30,518	43,638	30,470		33,332	U		
129	0605604A	Survivability/Lethality Analysis	6	30,263	34,131	30,138		33,916	U		
130	0605605A	DOD High Energy Laser Test Facility	6	28,048	23,848	14,230		14,260	U		
131	0605606A	Aircraft Certification	6	2,734	2,893	3,021		3,169	U		
132	0605702A	Meteorological Support to RDT&E Activities	6	6,235	6,628	6,843		6,952	U		
133	0605706A	Material Systems Analysis	6	27,120	9,617	8,796		8,718	U		
134	0605709A	Exploitation of Foreign Items	6	7,277	4,004	4,143		3,605	U		

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DEPARTMENT OF THE ARMY
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
135	0605712A	Support of Operational Testing	6	74,656	65,460	68,946	69,038	U
136	0605716A	Army Evaluation Center	6		25,313	24,255	26,362	U
137	0605801A	Programwide Activities	6	79,128	64,047	64,121	73,259	U
138	0605803A	Technical Information Activities	6	15,795	16,006	15,973	16,330	U
139	0605805A	Munitions Standardization, Effectiveness and Safety	6	10,707	10,422	10,537	10,814	U
140	0605853A	Environmental Conservation	6	2,435	3,174			U
141	0605854A	Pollution Prevention	6	4,773	10,624			U
142	0605856A	Environmental Compliance	6	55,058	48,986			U
143	0605876A	Minor Construction (RPM) - RDT&E	6	4,003	4,177			U
144	0605878A	Maintenance and Repair (RPM) - RDT&E	6	79,639	80,059			U
145	0605879A	Real Property Services (RPS) - RDT&E	6	84,756	86,441			U
146	0605896A	Base Operations - RDT&E	6	224,968	229,573			U
147	0605898A	Management Headquarters (Research and Development)	6	24,361	22,514	5,191	5,354	U
148	0909999A	Financing for Cancelled Account Adjustments	6	2,561				U
		RDT&E Management Support		1,216,038	1,136,691	665,304	739,807	
149	0603778A	MLRS Product Improvement Program	7	33,022	25,159	36,540	58,591	U
150	0102419A	Aerostat Joint Project Office	7	29,910	14,572	24,903	25,141	U
151	0203610A	Domestic Preparedness Against Weapons of Mass Destruction	7		15,000			U
152	0203726A	Adv Field Artillery Tactical Data System	7	36,225	34,646	36,222	34,528	U
153	0203735A	Combat Vehicle Improvement Programs	7	151,520	104,000	29,544	23,938	U

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EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element No	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
154	0203740A	Maneuver Control System	7	23,712	28,623	45,125	25,682	U
155	0203744A	Aircraft Modifications/Product Improvement Programs	7	21,847	26,628	51,644	61,033	U
156	0203752A	Aircraft Engine Component Improvement Program	7	2,756	6,901	2,900	2,946	U
157	0203758A	Digitization	7	91,248	46,240	28,180	26,830	U
158	0203759A	Force XXI Battle Command, Brigade and Below (FBCB2)	7		52,121	44,225	28,876	U
159	0203761A	Force Twenty-One (XXI), Warfighting Rapid Acquisition Progra	7	8,686	26,942	55,921	66,058	U
160	0203762A	STRIKER (WRAP)	7	3,654				U
161	0203763A	Radio Frequency Technology (RF TAGS) - ICS3	7	1,592				U
162	0203801A	Missile/Air Defense Product Improvement Program	7	29,471	15,151	29,985	28,649	U
163	0203802A	Other Missile Product Improvement Programs	7	1,613	1,239	9,914	14,817	U
164	0203806A	TRACTOR RUT	7	1,967				U
165	0203808A	TRACTOR CARD	7	6,146	3,967	3,898	3,861	U
166	0208010A	Joint Tactical Communications Program (TRI-TAC)	7	20,815	35,664	18,432	19,666	U
167	0208053A	Joint Tactical Ground System	7	4,835	12,148	28,061	6,306	U
168	0301359A	Special Army Program	7	10,543	9,704	6,584	5,471	U
169	0303140A	Information Systems Security Program	7	11,406	11,338	9,426	8,178	U
170	0303142A	SATCOM Ground Environment (SPACE)	7	45,679	52,447	36,230	47,743	U
171	0303150A	WMMCCS/Global Command and Control System	7	14,094	17,339	11,606	14,295	U

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Date: FEB 1999

APPROPRIATION: 2040A Research Development Test & Eval, Army

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E
				FY 1998	FY 1999	FY 2000	FY 2001 C	
172	0305114A	Traffic Control, Approach and Landing System-FY 1987 and Prior	7	610				788 U
173	0305128A	Security and Investigative Activities	7	468	944			U
174	0305204A	Tactical Unmanned Aerial Vehicles	7		53,224	3,866		4,309 U
175	0305206A	Airborne Reconnaissance Systems	7		7,451	4,932		4,928 U
176	0305208A	Distributed Common Ground Systems	7		8,853	8,066		7,943 U
177	0708045A	End Item Industrial Preparedness Activities	7	60,044	52,501	66,167		66,306 U
178	1001018A	NATO Joint STARS	7	10,147	2,980			U
Operational Systems Development				622,010	665,782	592,371	586,883	
Total Research Development Test & Eval, Army				5,023,313	5,032,198	4,426,194	4,750,578	

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SUMMARY
(\$ IN THOUSANDS)Summary Recap of Budget Activities

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Basic Research	331,444	361,499	376,748	391,477
Applied Research	467,359	566,801	523,839	538,460
Advanced Technology Development	518,617	593,176	519,523	536,010
Demonstration and Validation	2,222,171	2,408,520	2,086,062	1,770,199
Engineering and Manufacturing Development	2,153,289	2,199,737	1,953,882	2,207,381
RDT&E Management Support	677,567	598,664	646,489	652,271
Operational Systems Development	1,517,363	1,932,412	1,877,473	1,879,095
Total Research Development Test & Eval, Navy	7,887,810	8,660,809	7,984,016	7,974,893

Summary Recap of FYDP Programs

Strategic Forces	64,472	95,208	82,341	80,150
General Purpose Forces	866,095	977,224	951,720	779,029
Intelligence and Communications	534,904	711,982	724,641	915,793
Research and Development	6,357,212	6,730,351	6,106,543	6,095,798
Central Supply and Maintenance	51,892	146,044	118,771	104,123
Administration and Associated Activities	13,235			
Total Research Development Test & Eval, Navy	7,887,810	8,660,809	7,984,016	7,974,893

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Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
1	0601152N	In-House Laboratory Independent Research	1	13,268	14,663	15,630	16,421	U
2	0601153N	Defense Research Sciences	1	318,176	346,836	361,118	375,056	U
		Basic Research		331,444	361,499	376,748	391,477	
3	0602111N	Air and Surface Launched Weapons Technology	2	22,886	40,823	37,616	39,572	U
4	0602121N	Ship, Submarine & Logistics Technology	2	43,430	55,456	43,786	42,967	U
5	0602122N	Aircraft Technology	2	22,428	28,367	20,660	22,372	U
6	0602131M	Marine Corps Landing Force Technology	2	12,478	12,970	10,534	9,867	U
7	0602228N	Historically Black Colleges and Universities (HBCU)	2		6,684			U
8	0602232N	Communications, Command and Control, Intel, Surveillance	2	54,084	67,008	68,823	70,272	U
9	0602233N	Human Systems Technology	2	40,405	31,426	30,586	29,631	U
10	0602234N	Materials, Electronics and Computer Technology	2	76,194	87,698	77,957	82,631	U
11	0602270N	Electronic Warfare Technology	2	16,982	22,743	24,659	25,462	U
12	0602314N	Undersea Warfare Surveillance Technology	2	39,758	49,710	51,406	51,213	U
13	0602315N	Mine Countermeasures, Mining and Special Warfare	2	35,221	45,496	45,022	51,008	U
14	0602435N	Oceanographic and Atmospheric Technology	2	74,767	68,726	60,334	62,084	U
15	0602633N	Undersea Warfare Weaponry Technology	2	28,726	39,717	34,066	33,255	U
16	0602805N	Dual Use Applications Program	2		9,977	18,390	18,126	U
		Applied Research		467,359	566,801	523,839	538,460	

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APPROPRIATION: 1319N Research Development Test & Eval, Navy

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
17	0603217N	Air Systems and Weapons Advanced Technology	3	38,082	47,398	42,046	37,969	U
18	0603238N	Precision Strike and Air Defense Technology	3	57,426	69,466	52,580	67,678	U
19	0603270N	Advanced Electronic Warfare Technology	3	18,352	18,093	18,984	18,429	U
20	0603508N	Surface Ship & Submarine HM&E Advanced Technology	3	48,369	52,889	41,515	35,353	U
21	0603640M	Marine Corps Advanced Technology Demonstration (ATD)	3	58,467	56,187	56,943	59,410	U
22	0603706N	Medical Development	3	57,372	68,505	15,064	15,929	U
23	0603707N	Manpower, Personnel and Training Adv Tech Dev	3	20,340	26,466	20,632	21,196	U
24	0603712N	Environmental Quality and Logistics Advanced Technology	3	27,327	23,373	23,809	22,513	U
25	0603727N	Navy Technical Information Presentation System	3		15,900	41,840	46,181	U
26	0603747N	Undersea Warfare Advanced Technology	3	44,548	57,341	57,956	58,712	U
27	0603782N	Mine and Expeditionary Warfare Advanced Technology	3	40,352	44,220	48,711	45,869	U
28	0603792N	Advanced Technology Transition	3	86,094	73,652	75,635	77,756	U
29	0603794N	C3 Advanced Technology	3	21,888	39,686	23,808	29,015	U
		Advanced Technology Development		518,617	593,176	519,523	536,010	
30	0603207N	Air/Ocean Tactical Applications	4	25,829	25,643	30,109	30,885	U
31	0603216N	Aviation Survivability	4	15,359	11,103	7,280	7,667	U
32	0603254N	ASW Systems Development	4	23,263	25,872	17,780	21,107	U
33	0603261N	Tactical Airborne Reconnaissance	4	12,874	1,474	1,975	1,981	U
34	0603382N	Advanced Combat Systems Technology	4	4,813	6,634	6,828	12,043	U

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Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
35	0603502N	Surface and Shallow Water Mine Countermeasures	4	70,143	88,211	82,465	89,610	U
36	0603504N	Advanced Submarine Combat Systems Development	4	58,849	67,766			U
37	0603506N	Surface Ship Torpedo Defense	4		4,989	640		U
38	0603512N	Carrier Systems Development	4	54,046	109,208	142,783	138,976	U
39	0603513N	Shipboard System Component Development	4	56,961	100,748	108,334	114,643	U
40	0603514N	Ship Combat Survivability	4	2,201				U
41	0603525N	PILOT FISH	4	114,648	116,393	94,085	70,026	U
42	0603527N	RETRACT LARCH	4			7,834	7,803	U
43	0603536N	RETRACT JUNIPER	4	9,365	11,030	5,983		U
44	0603542N	Radiological Control	4	2,863	3,587	605	573	U
45	0603553N	Surface ASW	4	3,738	1,075	2,949	2,963	U
46	0603561N	Advanced Submarine System Development	4	106,790	60,321	115,767	114,926	U
47	0603562N	Submarine Tactical Warfare Systems	4	3,950	4,517	4,667	4,330	U
48	0603563N	Ship Concept Advanced Design	4	5,264	7,077	5,318	5,675	U
49	0603564N	Ship Preliminary Design & Feasibility Studies	4	17,721	8,929	12,012	17,000	U
50	0603570N	Advanced Nuclear Power Systems	4	121,590	118,067	146,208	169,213	U
51	0603573N	Advanced Surface Machinery Systems	4	29,514	24,344	17,727	3,664	U
52	0603576N	CHALK EAGLE	4	130,232	121,316	95,329	65,724	U
53	0603582N	Combat System Integration	4	11,059	21,774	46,740	24,239	U
54	0603609N	Conventional Munitions	4	36,870	40,596	34,309	31,318	U
55	0603611M	Marine Corps Assault Vehicles	4	67,202	103,966	94,843	110,584	U

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Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
56	0603612M	Marine Corps Mine/Countermeasures Systems - Adv Dev	4		1,953			U
57	0603635M	Marine Corps Ground Combat/Support System	4	41,118	54,251	42,654	17,698	U
58	0603654N	Joint Service Explosive Ordnance Development	4	10,142	10,458	11,168	10,882	U
59	0603658N	Cooperative Engagement	4	200,512	200,635	114,931	98,203	U
60	0603713N	Ocean Engineering Technology Development	4	9,953	15,219	16,813	16,289	U
61	0603721N	Environmental Protection	4	50,718	71,170	70,793	64,373	U
62	0603724N	Navy Energy Program	4	4,005	4,571	4,984	4,962	U
63	0603725N	Facilities Improvement	4	6,387	1,853	1,985	1,916	U
64	0603734N	CHALK CORAL	4	90,767	97,251	42,707	46,243	U
65	0603739N	Navy Logistic Productivity	4		2,993			U
66	0603746N	RETRACT MAPLE	4	111,723	115,198	122,217	125,577	U
67	0603748N	LINK PLUMERIA	4	32,489	21,775	48,254	43,620	U
68	0603751N	RETRACT ELM	4	20,619	19,415	19,535	13,343	U
69	0603755N	Ship Self Defense - Dem/Val	4	9,253	12,120	5,654	7,707	U
70	0603764N	LINK EVERGREEN	4			7,879	9,841	U
71	0603787N	Special Processes	4	82,074	81,490	69,332	63,344	U
72	0603790N	NATO Research and Development	4	5,526	8,852	5,461	9,053	U
73	0603795N	Land Attack Technology	4	61,282	78,858	101,489	93,494	U
74	0603800N	Joint Strike Fighter (JSF) - Dem/ Val	4	448,236	468,509	241,238	25,762	U
75	0603851M	Nonlethal Weapons - Dem/Val	4	16,073	34,512	23,277	23,782	U
76	0603857N	All Service Combat Identification Evaluation Team (ASCIET)	4			13,027	13,248	U

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APPROPRIATION: 1319N Research Development Test & Eval, Navy

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
77	0603860N	Joint Precision Approach and Landing Systems - Dem/Val	4	2,825				U
78	0603889N	Counterdrug RDT&E Projects	4	15,883				U
79	0604327N	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	4	4,582	2,993	4,924		U
80	0604707N	Space and Electronic Warfare (SEW) Architecture/Engineering Support	4	12,860	19,804	35,170	35,912	U
		Demonstration and Validation		2,222,171	2,408,520	2,086,062	1,770,199	
81	0603208N	Training System Aircraft	5	278	594	311		U
82	0604212N	Other Helo Development	5	56,675	56,641	48,776	24,611	U
83	0604214N	AV-8B Aircraft - Eng Dev	5	10,315	30,807	38,599	38,726	U
84	0604215N	Standards Development	5	35,044	50,811	74,325	88,342	U
85	0604216N	Multi-Mission Helicopter Upgrade Development	5	68,903	213,451	118,701	31,332	U
86	0604217N	S-3 Weapon System Improvement	5	2,081	4,266	2,095	461	U
87	0604218N	Air/Ocean Equipment Engineering	5	5,738	5,966	6,095	6,156	U
88	0604221N	P-3 Modernization Program	5	12,403	2,828	3,010	3,063	U
89	0604231N	Tactical Command System	5	37,058	49,867	41,599	49,371	U
90	0604245N	H-1 Upgrades	5	81,290	120,254	157,683	108,820	U
91	0604261N	Acoustic Search Sensors	5	17,652	30,367	25,953	20,031	U
92	0604262N	V-22A	5	487,649	345,782	182,885	151,275	U
93	0604264N	Air Crew Systems Development	5	16,985	11,322	6,801	11,198	U
94	0604270N	EW Development	5	93,797	134,873	163,077	83,597	U
95	0604300N	SC-21 Total Ship System Engineering	5	58,548	125,964	162,056	250,719	U
96	0604307N	Surface Combatant Combat System Engineering	5	110,136	182,476	204,480	192,265	U

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Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
97	0604310N	Arsenal Ship	5	13,020				U
98	0604311N	LPD-17 Class Systems Integration	5	13,743	1,340	2,608		283 U
99	0604312N	Tri-Service Standoff Attack Missile	5	5,251	2,055	2,020		2,036 U
100	0604355N	Vertical Launch ASROC	5	8,488				U
101	0604366N	Standard Missile Improvements	5	501	11,291	1,140		1,205 U
102	0604373N	Airborne MCM	5	17,297	30,877	50,642		51,279 U
103	0604503N	SSN-688 and Trident Modernization	5	55,988	61,863	48,896		34,899 U
104	0604504N	Air Control	5	8,632	7,477	8,696		7,895 U
105	0604507N	Enhanced Modular Signal Processor	5	1,493	1,535	970		1,026 U
106	0604512N	Shipboard Aviation Systems	5	8,774	8,430	9,052		9,975 U
107	0604518N	Combat Information Center Conversion	5	10,196	4,565	8,126		3,740 U
108	0604524N	Submarine Combat System	5	16,960	11,399	6,546		3,538 U
109	0604528N	SWATH (Small Waterplane Area Twin Hull) Oceanographic Ship	5	45,000				U
110	0604558N	New Design SSN	5	299,470	230,336	241,456		204,078 U
111	0604561N	SSN-21 Developments	5	49,553	21,735	32,001		6,546 U
112	0604562N	Submarine Tactical Warfare System	5	39,515	27,816	13,353		11,412 U
113	0604567N	Ship Contract Design/ Live Fire T&E	5	35,098	45,263	61,135		69,531 U
114	0604574N	Navy Tactical Computer Resources	5	31,582	28,059	3,300		3,454 U
115	0604601N	Mine Development	5	2,294	15	3,315		5,891 U
116	0604603N	Unguided Conventional Air-Launched Weapons	5	28,158	5,122	1,598		2,928 U
117	0604610N	Lightweight Torpedo Development	5	15,773	7,929	9,297		8,684 U

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Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
118	0604612M	Marine Corps Mine Countermeasures Systems - Eng Dev	5	616	3,791	1,002	897	U
119	0604618N	Joint Direct Attack Munition	5	15,389	11,160	11,782	26,455	U
120	0604654N	Joint Service Explosive Ordnance Development	5	6,399	7,021	7,133	7,207	U
121	0604703N	Personnel, Training, Simulation, and Human Factors	5	980	1,232	1,252	1,283	U
122	0604710N	Navy Energy Program	5	2,830	3,530	5,446	5,586	U
123	0604721N	Battle Group Passive Horizon Extension System	5	4,141	4,012	1,791	2,256	U
124	0604727N	Joint Standoff Weapon Systems	5	74,151	47,346	30,567	21,133	U
125	0604755N	Ship Self Defense - EMD	5	151,868	130,841	96,580	56,909	U
126	0604771N	Medical Development	5	15,656	5,807	4,285	4,400	U
127	0604777N	Navigation/ID System	5	39,826	45,992	19,808	16,586	U
128	0604784N	Distributed Surveillance System	5	40,095	49,167	14,910	20,933	U
129	0604800N	Joint Strike Fighter (JSF) - EMD	5				535,757	U
130	0604805N	Commercial Operations and Support Savings Initiative	5		16,462	18,729	19,612	U
		Engineering and Manufacturing Development		2,153,289	2,199,737	1,953,882	2,207,381	
131	0604256N	Threat Simulator Development	6	12,254	24,309	29,644	24,807	U
132	0604258N	Target Systems Development	6	41,268	53,630	52,265	54,240	U
133	0604759N	Major T&E Investment	6	33,564	21,232	42,621	42,461	U
134	0605152N	Studies and Analysis Support - Navy	6	6,770	5,031	8,531	8,124	U
135	0605154N	Center for Naval Analyses	6	39,346	41,882	43,694	44,307	U
136	0605155N	Fleet Tactical Development	6	2,624	2,739	3,103	2,883	U
137	0605502N	Small Business Innovative Research	6	124,069				U

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Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	Thousands of Dollars			FY 2001 C	S	E
				FY 1998	FY 1999	FY 2000			
138	0605804N	Technical Information Services	6	6,522	5,995	6,696	5,786	U	
139	0605853N	Management, Technical & International Support	6	15,156	17,625	19,447	19,836	U	
140	0605856N	Strategic Technical Support	6	1,897	1,813	2,371	2,376	U	
141	0605861N	RDT&E Science and Technology Management	6	52,025	59,868	52,777	57,581	U	
142	0605862N	RDT&E Instrumentation Modernization	6	10,219	8,483	9,258	10,487	U	
143	0605863N	RDT&E Ship and Aircraft Support	6	62,178	71,731	73,163	72,840	U	
144	0605864N	Test and Evaluation Support	6	227,818	242,787	270,992	271,894	U	
145	0605865N	Operational Test and Evaluation Capability	6	8,723	9,054	9,172	9,020	U	
146	0605866N	Navy Space and Electronic Warfare (SEW) Support	6	2,395	3,466	2,436	3,360	U	
147	0605867N	SEW Surveillance/Reconnaissance Support	6	11,316	16,096	12,121	14,014	U	
148	0605873M	Marine Corps Program Wide Support	6	6,188	12,923	8,198	8,255	U	
149	0909999N	Financing for Cancelled Account Adjustments	6	13,235				U	
		RDT&E Management Support		677,567	598,664	646,489	652,271		
150	0604227N	HARPOON Modifications	7		1,954			U	
151	0101221N	Strategic Sub & Weapons System Support	7	35,556	56,437	45,907	45,225	U	
152	0101224N	SSBN Security Technology Program	7	23,169	30,691	33,239	34,054	U	
153	0101226N	Submarine Acoustic Warfare Development	7	5,747	8,080	3,195	871	U	
154	0204136N	F/A-18 Squadrons	7	288,698	302,033	315,714	238,250	U	
155	0204152N	E-2 Squadrons	7	58,303	46,622	16,132	12,941	U	

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EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			FY 2001	C	S	E
					FY 1999	FY 2000					
156	0204163N	Fleet Telecommunications (Tactical)	7	14,495	16,112	9,947	10,353	U			
157	0204229N	Tomahawk and Tomahawk Mission Planning Center (TMPC)	7	101,679	165,685	147,223	109,786	U			
158	0204311N	Integrated Surveillance System	7	9,256	19,372	18,025	18,414	U			
159	0204413N	Amphibious Tactical Support Units	7	649	1,869		2,952	U			
160	0204571N	Consolidated Training Systems Development	7	59,768	38,226	26,257	29,178	U			
161	0204575N	Electronic Warfare (EW) Readiness Support	7	1,574	3,707	9,162	9,316	U			
162	0205601N	HARM Improvement	7	38,640	30,532	23,642	20,400	U			
163	0205604N	Tactical Data Links	7	40,873	49,151	46,666	22,619	U			
164	0205620N	Surface ASW Combat System Integration	7	12,190	12,953	16,633	19,595	U			
165	0205632N	MK-48 ADCAP	7	10,285	17,428	20,426	15,609	U			
166	0205633N	Aviation Improvements	7	47,600	62,098	53,293	61,083	U			
167	0205667N	F-14 Upgrade	7	11,116	12,834	1,390	1,472	U			
168	0205675N	Operational Nuclear Power Systems	7	54,604	54,058	53,564	53,987	U			
169	0206313M	Marine Corps Communications Systems	7	37,828	53,015	90,293	83,323	U			
170	0206623M	Marine Corps Ground Combat/ Supporting Arms Systems	7	12,654	18,185	39,941	35,487	U			
171	0206624M	Marine Corps Combat Services Support	7	5,288	4,044	9,817	4,450	U			
172	0207161N	Tactical AIM Missiles	7	55,120	64,626	40,051	17,503	U			
173	0207163N	Advanced Medium Range Air-to-Air Missile (AMRAAM)	7	5,475	4,674	13,544	12,311	U			
174	0301303N	Maritime Intelligence	7								

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Date: FEB 1999

APPROPRIATION: 1319N Research Development Test & Eval, Navy

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
175	0301327N	Technical Reconnaissance and Surveillance	7					
176	0303109N	Satellite Communications (SPACE)	7	18,062	17,523	38,921	12,946	U
177	0303140N	Information Systems Security Program	7	17,287	21,003	22,978	23,712	U
178	0303150N	WMCCS/Global Command and Control System	7	473	468			U
179	0304111N	Special Activities	7					
180	0305160N	Navy Meteorological and Ocean Sensors-Space (METOC)	7	4,610	11,614	14,507	19,127	U
181	0305188N	Joint C4ISR Battle Center (JBC)	7		5,337	8,125	8,303	U
182	0305192N	Joint Military Intelligence Programs	7	2,277	2,297	2,064	1,862	U
183	0305204M	Tactical Unmanned Aerial Vehicles	7		5,986			U
184	0305204N	Tactical Unmanned Aerial Vehicles	7		51,074	69,742	67,058	U
185	0305206N	Airborne Reconnaissance Systems	7		16,411	4,958	8,889	U
186	0305207N	Manned Reconnaissance Systems	7	327	30,140	30,958	27,849	U
187	0305208N	Distributed Common Ground Systems	7		4,955	5,583	6,042	U
188	0305927N	Naval Space Surveillance	7	387	398	712	724	U
189	0305972N	Space Activities	7		14,546			U
190	0308601N	Modeling and Simulation Support	7	4,212		9,621	9,677	U
191	0702207N	Depot Maintenance (Non-IF)	7		58,202	39,986	24,562	U
192	0708011N	Industrial Preparedness	7	51,892	68,886	59,104	60,179	U
193	0708730N	Maritime Technology (MARITECH)	7		18,956	19,681	19,382	U
		Operational Systems Development			1,932,412	1,877,473	1,879,095	
		Total Research Development Test & Eval, Navy			8,660,809	7,984,016	7,974,893	

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SUMMARY
(\$ IN THOUSANDS)Summary Recap of Budget Activities

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Basic Research	188,216	209,731	209,505	177,513
Applied Research	546,697	592,259	507,637	536,919
Advanced Technology Development	460,570	465,589	465,687	508,956
Demonstration and Validation	1,109,092	1,231,121	1,076,853	1,000,698
Engineering and Manufacturing Development	4,293,088	3,720,796	3,023,074	3,125,028
RDT&E Management Support	1,035,154	558,893	592,480	596,939
Operational Systems Development	6,645,629	6,922,164	7,202,593	6,810,148
Total Research Development Test & Eval, AF	14,278,446	13,700,553	13,077,829	12,756,201

Summary Recap of FYDP Programs

Strategic Forces	30,748	30,514	51,410	53,150
General Purpose Forces	1,475,703	1,485,062	1,610,037	1,471,742
Intelligence and Communications	5,103,908	5,143,293	5,214,153	4,984,242
Mobility Forces	112,218	153,394	236,529	189,215
Research and Development	7,424,515	6,774,791	5,858,565	5,932,230
Central Supply and Maintenance	79,965	103,164	96,412	114,605
Training Medical and Other	1,249			
Administration and Associated Activities	29,650	6,737	6,973	7,210
Support of Other Nations	20,490	3,598	3,750	3,807
Total Research Development Test & Eval, AF	14,278,446	13,700,553	13,077,829	12,756,201

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EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 3600F Research Development Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
1	0601102F	Defense Research Sciences	1	188,216	209,731	209,505	177,513	U
				188,216	209,731	209,505	177,513	
		Basic Research						
2	0602102F	Materials	2	65,628	73,855	63,334	69,521	U
3	0602201F	Aerospace Flight Dynamics	2	55,734	64,063	43,898	47,142	U
4	0602202F	Human Effectiveness Applied Research	2	70,027	58,114	51,512	56,629	U
5	0602203F	Aerospace Propulsion	2	58,054	68,329	62,012	66,607	U
6	0602204F	Aerospace Sensors	2	57,766	63,719	64,988	69,245	U
7	0602269F	Hypersonic Technology Program	2	9,115	16,586			U
8	0602601F	Phillips Lab Exploratory Development	2	113,000	125,585	115,313	110,811	U
9	0602602F	Conventional Munitions	2	36,687	40,386	42,205	46,840	U
10	0602702F	Command Control and Communications	2	80,686	71,661	46,448	52,283	U
11	0602805F	Dual Use Science and Technology Program	2		9,961	17,927	17,841	U
		Applied Research						
				546,697	592,259	507,637	536,919	
12	0603106F	Logistics Systems Technology	3	14,115	9,069	10,786	14,015	U
13	0603108F	Integrated Data Systems	3	19,660				U
14	0603112F	Advanced Materials for Weapon Systems	3	25,826	32,900	25,890	25,702	U
15	0603202F	Aerospace Propulsion Subsystems Integration	3	22,253	27,722	29,825	31,022	U
16	0603203F	Advanced Aerospace Sensors	3	23,944	28,534	29,405	32,330	U
17	0603205F	Flight Vehicle Technology	3	4,998	7,007	5,992	4,258	U
18	0603211F	Aerospace Structures	3	9,593	12,411	13,749	15,182	U
19	0603216F	Aerospace Propulsion and Power Technology	3	31,398	36,867	38,778	39,061	U

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Date: FEB 1999

APPROPRIATION: 3600F Research Development Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
20	0603227F	Personnel, Training and Simulation Technology	3	5,655	6,595	4,827	6,538	U
21	0603231F	Crew Systems and Personnel Protection Technology	3	28,052	29,818	14,841	15,276	U
22	0603245F	Flight Vehicle Technology Integration	3	5,618	7,642	8,335	9,711	U
23	0603253F	Advanced Sensor Integration	3	11,825	10,462	9,443	11,984	U
24	0603270F	Electronic Combat Technology	3	33,170	25,476	27,334	26,775	U
25	0603302F	Space and Missile Rocket Propulsion	3	15,407	23,982	11,231	10,863	U
26	0603311F	Ballistic Missile Technology	3	7,485	15,955			U
27	0603401F	Advanced Spacecraft Technology	3	91,754	75,542	76,229	116,300	U
28	0603410F	Space Systems Environmental Interactions Technology	3	2,828	3,436	3,677	4,021	U
29	0603601F	Conventional Weapons Technology	3	22,406	22,791	21,479	22,077	U
30	0603605F	Advanced Weapons Technology	3	51,753	53,317	38,995	34,225	U
31	0603707F	Weather Systems Technology	3	1,869	1,564			U
32	0603723F	Environmental Engineering Technology	3	3,562	2,579			U
33	0603726F	C3I Subsystem Integration	3	7,591	10,993	9,122	4,920	U
34	0603728F	Advanced Computing Technology	3	7,520	7,748	4,507	5,932	U
35	0603789F	C3 Advanced Development	3	12,288	13,179	17,402	14,985	U
36	0603876F	Space-Based Laser	3			63,840	63,779	U
		Advanced Technology Development		460,570	465,589	465,687	508,956	
37	0603260F	Intelligence Advanced Development	4	4,298	4,602	4,534	4,442	U
38	0603319F	Airborne Laser Program	4	153,539	265,679	308,634	241,057	U
39	0603430F	Advanced EHF MILSATCOM (SPACE)	4	37,249	54,150	97,066	248,587	U

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APPROPRIATION: 3600F Research Development Test & Eval, AF

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
40	0603432F	Polar MILSATCOM (SPACE)	4	14,415	41,367	39,678	26,300	U
41	0603434F	National Polar-orbiting Operational Environmental Satellite Sys (SPACE) - D	4	31,221	64,438	80,137	113,234	U
42	0603438F	Space Control Technology	4		7,479	9,822	9,814	U
43	0603441F	Space Based Infrared Architecture (SPACE) - Dem/Val	4	213,459	159,008	151,378	113,242	U
44	0603617F	Command, Control, and Communication Applications	4	6,469	7,731	7,833	7,898	U
45	0603742F	Combat Identification Technology	4	1,317	6,158	7,393	8,529	U
46	0603790F	NATO Research and Development(H)	4	10,343	4,105	4,283	5,558	U
47	0603800F	Joint Strike Fighter	4	444,277	454,789	235,374	22,558	U
48	0603850F	Integrated Broadcast Service (Dem/ Val)	4			24,446	24,706	U
49	0603851F	Intercontinental Ballistic Missile - Dem/Val	4	44,119	27,254	28,628	41,693	U
50	0603852F	C-130J - Dem/Val	4	3,714				U
51	0603853F	Evolved Expendable Launch Vehicle Program (SPACE) - Dem/Val	4	64,754				U
52	0603854F	Wideband MILSATCOM (Space)	4	70,224	69,376	53,344	97,756	U
53	0603856F	Air Force/NRO Partnership (AFNP)	4		2,107	2,905	3,371	U
54	0603860F	Joint Precision Approach and Landing Systems - Dem/Val	4		21,456	16,488	18,253	U
55	0603876F	Space-Based Laser	4		34,884			U
56	0604237F	Variable Stability In-Flight Simulator Test Aircraft	4	5,611	3,989			U
57	0604327F	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	4	4,083	2,549	4,910		U

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Date: FEB 1999

APPROPRIATION: 3600F Research Development Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
58	0604441F	Space Based Infrared System (SBIRS) High EMD	4			13,700	U	
Demonstration and Validation								
59	0604012F	Joint Helmet Mounted Cueing System (JHMCS)	5	1,109,092	1,231,121	1,076,853	1,000,698	
60	0604201F	Integrated Avionics Planning and Development	5	14,769	10,643	723	718	
61	0604218F	Engine Model Derivative Program (EMDP)	5	356			U	
62	0604222F	Nuclear Weapons Support	5	4,445	4,963	8,489	9,175	
63	0604226F	B-1B	5	202,496	194,549	203,544	143,911	
64	0604227F	Distributed Mission Training (DMT)	5	5,575	1,896	3,835	3,816	
65	0604233F	Specialized Undergraduate Pilot Training	5	66,345	55,030	38,656	21,864	
66	0604239F	F-22 EMD	5	2,010,717	1,570,970	1,222,232	976,601	
67	0604240F	B-2 Advanced Technology Bomber	5	434,890	131,038	201,765	72,443	
68	0604243F	Manpower, Personnel and Training Development	5	377			U	
69	0604270F	EW Development	5	72,987	97,990	90,347	55,314	
70	0604441F	Space Based Infrared System (SBIRS) High EMD	5	337,943	539,361	328,653	461,557	
71	0604442F	Space Based Infrared System (SBIRS) Low EMD	5		33,218	77,651	147,933	
72	0604479F	Milstar LDR/MDR Satellite Communications (SPACE)	5	609,676	546,509	361,308	225,757	
73	0604480F	Global Positioning System Block IIF (SPACE)	5	69,152	73,339		U	
74	0604600F	Munitions Dispenser Development	5	17,605	7,315		U	
75	0604602F	Armament/Ordnance Development	5	3,641	11,823	8,887	8,956	

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APPROPRIATION: 3600F Research Development Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			FY 2001	C	S	E
					FY 1999	FY 2000					
76	0604604F	Submunitions	5	4,716	4,791	4,798	4,817	U			
77	0604617F	Agile Combat Support	5	1,251	2,485	946	674	U			
78	0604618F	Joint Direct Attack Munition	5	21,054	11,954	1,385	1,169	U			
79	0604703F	Aeromedical/Chemical Defense Systems	5	2,964	3,104	7,135	5,982	U			
80	0604706F	Life Support Systems	5	4,155	6,108	6,135	8,388	U			
81	0604708F	Civil, Fire, Environmental, Shelter Engineering	5	2,510	2,682	2,719	2,770	U			
82	0604727F	Joint Standoff Weapons Systems	5	21,458	14,756	10,307	1,512	U			
83	0604735F	Combat Training Ranges	5	18,998	13,999	6,220	12,670	U			
84	0604740F	Computer Resource Technology Transition (CRTT)	5	3,796	2,194	196	216	U			
85	0604750F	Intelligence Equipment	5	1,174	1,296	1,345	1,311	U			
86	0604754F	Joint Tactical Information Distribution System (JTIDS)	5	7,318	7,087	8,705	8,822	U			
87	0604762F	Common Low Observables Verification System (CLOVERS)	5	500	4,882	5,893	11,723	U			
88	0604779F	Joint Interoperability of Tactical Command & Control Systems (JINTACCS)	5	4,738	5,687	5,837	5,877	U			
89	0604800F	Joint Strike Fighter EMD	5				536,586	U			
90	0604805F	Commercial Operations and Support Savings Initiative	5		15,892	30,485	30,434	U			
91	0604851F	Intercontinental Ballistic Missile - EMD	5	142,648	81,205	38,804	30,388	U			
92	0604853F	Evolved Expendable Launch Vehicle Program (SPACE) - EMD	5	23,252	259,143	324,803	307,502	U			
93	0605011F	RDT&E for Aging Aircraft	5		4,887	4,889	14,310	U			

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APPROPRIATION: 3600F Research Development Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
94	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	5	161,856				U
95	0207414F	Combat Intelligence System	5	11,760				U
96	0305176F	Combat Survivor Evader Locator	5	7,966		13,412	10,507	U
		Engineering and Manufacturing Development		4,293,088	3,720,796	3,023,074	3,125,028	
97	0603402F	Space Test Program (SPACE)	6	37,865				U
98	0604256F	Threat Simulator Development	6	52,267	34,086	32,391	36,848	U
99	0604258F	Target Systems Development	6	4,250	6,572	192	192	U
100	0604759F	Major T&E Investment	6	53,000	40,416	47,334	56,238	U
101	0605101F	RAND Project Air Force	6	20,607	19,991	20,560	20,294	U
102	0605306F	Ranch Hand II Epidemiology Study	6	10,216	4,273	4,510	4,554	U
103	0605502F	Small Business Innovation Research	6	210,201				U
104	0605712F	Initial Operational Test & Evaluation	6	27,388	27,294	23,819	28,689	U
105	0605807F	Test and Evaluation Support	6	366,928	353,531	392,104	380,635	U
106	0605808F	Development Planning	6	4,194	4,053	5,696	5,751	U
107	0605853F	Environmental Conservation	6	11,213				U
108	0605854F	Pollution Prevention	6	5,322	5,144	2,553	2,566	U
109	0605856F	Environmental Compliance	6	16,069				U
110	0605860F	Rocket Systems Launch Program (SPACE)	6	26,163	14,496	7,913	7,976	U
111	0605864F	Space Test Program (STP)	6		45,439	51,658	49,389	U
112	0605876F	Minor Construction (RPM) - RDT&E	6	1,623				U
113	0605878F	Maintenance and Repair (RPM) - RDT&E	6	48,256				U

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Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
114	0605879F	Real Property Services (RPS) - RDT&E	6	47,813				U
115	0605896F	Base Operations - RDT&E	6	65,059				U
116	0909900F	Financing for Expired Account Adjustments	6	8,995				U
117	0909980F	Judgment Fund Reimbursement	6	14,158				U
118	1001004F	International Activities	6	3,567	3,598	3,750	3,807	U
		RDT&E Management Support		1,035,154	558,893	592,480	596,939	
119	0603690F	Information Operations Technology	7			491	491	U
120	0101113F	B-52 Squadrons	7	6,112	6,418	32,139	39,240	U
121	0101120F	Advanced Cruise Missile	7	2,299		688	785	U
122	0101122F	Air-Launched Cruise Missile (ALCM)	7			5,344	6,514	U
123	0102325F	Joint Surveillance System	7	1,687	2,099			U
124	0102326F	Region/Sector Operation Control Center Modernization Program	7	18,586	21,428	13,239	6,611	U
125	0102411F	North Atlantic Defense System	7	2,064	569			U
126	0207027F	Air and Space Command and Control Agency (ASC2A)	7			2,946		U
127	0207131F	A-10 Squadrons	7		2,305	8,108	9,085	U
128	0207133F	F-16 Squadrons	7	94,631	139,631	112,520	93,058	U
129	0207134F	F-15E Squadrons	7	120,713	103,857	112,670	100,330	U
130	0207136F	Manned Destructive Suppression	7	11,659	2,392	5,402	1,472	U
131	0207141F	F-117A Squadrons	7	8,902	5,097	4,807	2,847	U
132	0207161F	Tactical AIM Missiles	7	51,199	52,604	41,007	17,399	U
133	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	7	39,181	35,663	49,783	54,184	U

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APPROPRIATION: 3600F Research Development Test & Eval, AF

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
134	0207217F	Podded Reconnaissance System	7	280				U
135	0207247F	AF TENCAP	7	13,485	6,328	10,102	9,914	U
136	0207248F	Special Evaluation Program	7	67,254	91,638	85,168	66,943	U
137	0207253F	Compass Call	7		12,419	4,908	5,886	U
138	0207268F	Aircraft Engine Component Improvement Program	7	93,487	96,589	160,212	168,410	U
139	0207320F	Sensor Fused Weapons	7	15,804	7,504	11,785		U
140	0207325F	Joint Air-to-Surface Standoff Missile (JASSM)	7		128,796	166,408	71,022	U
141	0207412F	Theater Air Control Systems	7	374	427	467	450	U
142	0207414F	Combat Intelligence System	7		9,635			U
143	0207417F	Airborne Warning and Control System (AWACS)	7	48,716	33,173	33,393	49,170	U
144	0207423F	Advanced Communications Systems	7	2,330	2,176	2,864	2,892	U
145	0207424F	Evaluation and Analysis Program	7	67,880	70,398	73,336	77,247	U
146	0207428F	Air Warfare Center - Nelles Range Complex	7		10,000			U
147	0207433F	Advanced Program Technology	7	93,788	76,491	54,046	58,003	U
148	0207438F	Theater Battle Management (TBM) C4I	7	29,208	30,254	43,727	41,433	U
149	0207581F	Joint Surveillance and Target Attack Radar System (Joint STARS)	7	112,699	100,453	130,488	121,699	U
150	0207590F	Seek Eagle	7	15,755	18,767	23,133	19,645	U
151	0207591F	Advanced Program Evaluation	7	217,251	206,254	248,342	235,027	U
152	0207601F	USAF Modeling and Simulation	7	19,670	14,478	19,299	17,782	U
153	0207605F	Wargaming and Simulation Centers	7		5,272	5,192	5,508	U
154	0208006F	Mission Planning Systems	7	12,911	16,204	16,764	16,940	U

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DEPARTMENT OF THE AIR FORCE
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 3600F Research Development Test & Eval, AF

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
155	0208019F	Tactical Information Program (TIP)	7	2,000				U
156	0208021F	Information Warfare Support	7					
157	0208031F	War Reserve Materiel - Equipment/ Secondary Items	7		1,466	1,467	1,489	U
158	0208060F	Theater Missile Defenses	7	26,688	30,352	26,129	28,551	U
159	0208160F	Technical Evaluation System	7	97,123	111,651	92,990	119,055	U
160	0208161F	Special Evaluation System	7	37,810	60,420	61,198	74,900	U
161	0301310F	National Air Intelligence Center	7					
162	0301314F	COBRA BALL	7					
163	0301315F	Missile and Space Technical Collection	7					
164	0301324F	FOREST GREEN	7			3,200	1,200	U
165	0301357F	NUDET Detection System	7					
166	0301398F	Management Headquarters GDIP	7					
167	0302015F	E-4B National Airborne Operations Center (NAOC)	7		2,137	12,666	40,516	U
168	0303110F	Defense Satellite Communications System (SPACE)	7	8,486	14,003	8,985	8,593	U
169	0303131F	Minimum Essential Emergency Communications Network (MEECN)	7	28,865	38,788	45,907	15,438	U
170	0303140F	Information Systems Security Program	7	5,654	9,277	7,992	7,284	U
171	0303141F	Global Combat Support System	7	19,513	17,906	19,389	20,919	U
172	0303144F	Joint Spectrum Center (JSC)	7	7,337				U
173	0303150F	Global Command and Control System	7		13,137	3,929	3,777	U
174	0303152F	World-Wide Military Command and Control Systems, Information System	7	6,695				U

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Date: FEB 1999

APPROPRIATION: 3600F Research Development Test & Eval, AF

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E
				FY 1998	FY 1999	FY 2000	FY 2001 C	
175	0303601F	MILSATCOM Terminals	7	15,320	2,159	7,026	14,955	U
176	0304111F	Special Activities	7					
177	0304311F	Selected Activities	7	2,902	3,000	3,000	3,000	U
178	0305099F	Global Air Traffic Management (GATM)	7	864	26,521	6,517	8,584	U
179	0305110F	Satellite Control Network (SPACE)	7	62,554	55,812	61,918	85,064	U
180	0305111F	Weather Service	7	8,070	10,398	19,069	15,089	U
181	0305114F	Air Traffic Control, Approach, and Landing System (ATCAL)	7	7,876	4,389	5,588	11,854	U
182	0305119F	Medium Launch Vehicles (SPACE)	7	2,002	7,338	1,179	1,963	U
183	0305128F	Security and Investigative Activities	7	3,301	1,403	466	471	U
184	0305137F	National Airspace System (NAS) Plan	7	11,635	1,780	1,756	201	U
185	0305138F	Inertial Upper Stage (IUS)	7	10	555			U
186	0305142F	Applied Technology and Integration	7					
187	0305144F	Titan Space Launch Vehicles (SPACE)	7	62,401	77,176	45,379	26,062	U
188	0305158F	Tactical Terminal	7	240	234	239	240	U
189	0305159F	Defense Reconnaissance Support Activities (SPACE)	7			36,824	36,520	U
190	0305160F	Defense Meteorological Satellite Program (SPACE)	7	12,284	17,397	21,535	25,938	U
191	0305164F	NAVSTAR Global Positioning System (User Equipment) (SPACE)	7	43,141	36,234	53,963	41,471	U
192	0305165F	NAVSTAR Global Positioning System (Space and Control Segments)	7	27,248	21,065	98,890	108,851	U
193	0305172F	Combined Advanced Applications	7					

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Date: FEB 1999

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Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
194	0305182F	Spacelift Range System (SPACE)	7	31,736	24,457	43,186	49,130	U
195	0305205F	Endurance Unmanned Aerial Vehicles	7	13,437	188,423	70,835	26,788	U
196	0305206F	Airborne Reconnaissance Systems	7		126,402	124,608	136,591	U
197	0305207F	Manned Reconnaissance Systems	7	11,282	44,241	9,388	14,619	U
198	0305208F	Distributed Common Ground Systems	7		20,906	12,820	14,018	U
199	0305906F	NCMC - TW/AA System	7	6,678	7,333	16,408	19,481	U
200	0305910F	SPACETRACK (SPACE)	7	37,977	45,375	54,806	1,178	U
201	0305911F	Defense Support Program (SPACE)	7	17,624	11,811	7,459	7,445	U
202	0305913F	NUDET Detection System (SPACE)	7	12,878	13,050	14,430	17,241	U
203	0305917F	Space Architect	7	13,408	13,560	9,898	10,470	U
204	0305953F	Evolved Expendable Launch Vehicle (EELV) (Space)	7		3,305			U
205	0308601F	Modeling and Simulation Support	7		1,090	1,069	1,188	U
206	0308699F	Shared Early Warning (SEW)	7			11,532	4,220	U
207	0401119F	C-5 Airlift Squadrons	7	3,069	33,594	63,041	56,416	U
208	0401130F	C-17 Aircraft	7	101,822	118,228	170,718	132,307	U
209	0401214F	Air Cargo Material Handling (463-L) (Non-IF)	7	5,557	482	502		U
210	0401218F	KC-135s	7	1,770	1,090	2,268	492	U
211	0702207F	Depot Maintenance (Non-IF)	7	1,387	1,496	1,500	1,529	U
212	0708011F	Industrial Preparedness	7	42,831	52,351	51,814	53,480	U
213	0708026F	Productivity, Reliability, Availability, Maintain. Prog Ofc (PRAMPO)	7	21,613	10,440	9,382	17,341	U
214	0708071F	Joint Logistics Program - Ammunition Standard System	7	8,342	16,021	11,333	11,338	U

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EXHIBIT R-1

APPROPRIATION: 3600F Research Development Test & Eval, AF

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
215	0708611F	Support Systems Development	7	5,792	22,856	22,383	30,917 U
216	0804734F	Cryptologic/SIGINT-Related Skill Training	7	1,249			U
217	0901218F	Civilian Compensation Program	7	6,497	6,737	6,973	7,210 U
218	1001018F	NATO Joint STARS	7	16,923			U
		Operational Systems Development		6,645,629	6,922,164	7,202,593	6,810,148
		Total Research Development Test & Eval, AF		14,278,446	13,700,553	13,077,829	12,756,201

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FY 2000/2001 RDT&E PROGRAM

FEB 1999

SUMMARY

(\$ IN THOUSANDS)

Summary Recap of Budget Activities

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Basic Research	315,006	352,986	340,026	338,337
Applied Research	1,233,228	1,363,594	1,372,280	1,310,038
Advanced Technology Development	2,132,992	1,820,603	1,803,951	1,727,839
Demonstration and Validation	2,688,421	3,099,366	2,011,708	2,079,052
Engineering and Manufacturing Development	707,524	742,702	1,064,922	980,712
RDT&E Management Support	306,922	343,271	223,725	234,700
Operational Systems Development	2,330,147	2,034,102	1,792,677	1,858,952
Total Research Development Test & Eval, Defwide	9,714,240	9,756,624	8,609,289	8,529,630

Summary Recap of FYDP Programs

General Purpose Forces	26,471	28,061	28,390	29,320
Intelligence and Communications	2,110,283	1,733,757	1,549,816	1,574,209
Research and Development	7,368,150	7,714,654	6,808,699	6,652,773
Central Supply and Maintenance	25,403	26,036	6,665	7,392
Administration and Associated Activities	32,670	34,013	27,952	36,091
Support of Other Nations		4,896		
Special Operations Forces	151,263	215,207	187,767	229,845
Total Research Development Test & Eval, Defwide	9,714,240	9,756,624	8,609,289	8,529,630

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SUMMARY
(\$ IN THOUSANDS)Summary Recap of Defensewide

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
Special Operations Command	151,263	215,207	187,767	229,845
Chemical and Biological Defense Program	337,672	341,723	339,517	358,097
National Imagery And Mapping Agency				
Defense Threat Reduction Agency	283,994	344,674	350,742	344,365
Ballistic Missile Defense Organization	3,451,644	3,844,636	2,944,448	2,935,460
Office Of Secretary Of Defense	1,634,022	1,029,561	1,070,370	1,038,120
Defense Adv Research Projects Agcy	2,004,033	1,930,256	2,002,684	1,883,858
National Security Agency				
Defense Support Project Office	51,198	44,478		
Joint Chiefs of Staff	53,945	161,241	49,073	46,256
Defense Information Systems Agency	51,835	126,105	115,690	117,735
Defense Intelligence Agency				
Defense Logistics Agency	167,815	71,865	37,236	40,969
Defense Security Cooperation Agency		9,333	941	1,932
Defense Security Service	405	417	437	442
Total Research Development Test & Eval, Defwide	9,714,240	9,756,624	8,609,289	8,529,630

* Includes \$770 million from the FY 1999 Emergency Supplemental that is currently unavailable for obligation.

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
1	0601101D8Z	In-House Laboratory Independent Research	1	1,495	2,167	2,033	2,021	U
2	0601101E	Defense Research Sciences	1	66,706	64,429	64,293	68,792	U
3	0601103D8Z	University Research Initiatives	1	214,600	228,415	216,778	210,332	U
4	0601105D8Z	Gulf War Illness	1		23,674	19,185	19,098	U
5	0601111D8Z	Government/Industry Cosponsorship of University Research	1	6,942	4,801	6,351	6,762	U
6	0601384BP	Chemical and Biological Defense Program	1	25,263	29,500	31,386	31,332	U
		Basic Research		315,006	352,986	340,026	338,337	
7	0602110E	Next Generation Internet	2	39,313	49,504	40,000		U
8	0602173C	Support Technologies - Applied Research	2	109,888	97,436	65,328	52,992	U
9	0602227D8Z	Medical Free Electron Laser	2	19,137	14,496	9,719	9,698	U
10	0602228D8Z	Historically Black Colleges and Universities (HBCU) Science	2	10,724		14,329	14,338	U
11	0602234D8Z	Lincoln Laboratory Research Program	2	17,197	19,271	20,774	20,739	U
12	0602301E	Computing Systems and Communications Technology	2	296,646	323,959	322,874	331,023	U
13	0602302E	Extensible Information Systems	2			70,000	70,000	U
14	0602383E	Biological Warfare Defense	2	58,452	84,754	145,850	151,000	U
15	0602384BP	Chemical and Biological Defense Program	2	69,329	63,992	64,780	68,024	U
16	0602702E	Tactical Technology	2	140,997	169,759	137,626	123,937	U
17	0602708E	Integrated Command and Control Technology	2	43,994	39,607	31,296	32,000	U
18	0602712E	Materials and Electronics Technology	2	213,386	278,286	235,321	219,063	U

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
19	0602715BR	WMD Related Technology	2	203,785	211,363	203,512	206,467	U
20	0602787D8Z	Medical Technology	2	8,559	9,212	8,903	8,742	U
21	0305108K	Command and Control Research	2	1,821	1,955	1,968	2,015	U
		Applied Research		1,233,228	1,363,594	1,372,280	1,310,038	
22	0603002D8Z	Medical Advanced Technology	3	2,848	2,130	2,007	2,057	U
23	0603104D8Z	Explosives Demilitarization Technology	3	11,285	14,442	11,183	11,029	U
24	0603120D8Z	Demining	3	15,112				U
25	0603121D8Z	Alternative to Landmines	3	2,760	4,687			U
26	0603122D8Z	Counterterror Technical Support	3	40,826	37,667	52,223	54,791	U
27	0603160BR	Counterproliferation Support - Adv Dev	3	80,209	52,951	81,245	75,841	U
28	0603160D8Z	Counterproliferation Support - Adv Dev	3	74,196				U
29	0603173C	Support Technologies - Advanced Technology Development	3	298,207	272,820	173,704	180,826	U
30	0603225D8Z	Joint DoD-DoE Munitions Technology Development	3	16,242	13,007	14,786	14,790	U
31	0603232D8Z	Automatic Target Recognition	3	5,904	5,010	7,775	7,588	U
32	0603285E	Advanced Aerospace Systems	3			19,664	19,000	U
33	0603384BP	Chemical and Biological Defense Program - Advanced Development	3	43,517	52,212	40,910	44,881	U
34	0603704D8Z	Special Technical Support	3	11,147	11,176	10,948	10,855	U
35	0603711BR	Verification Technology Demonstration	3		57,347	58,455	55,325	U
36	0603712S	Generic Logistics R&D Technology Demonstrations	3	33,945	23,718	17,336	19,676	U

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			FY 2001 C	S E
					FY 1999	FY 2000			
37	0603716D8Z	Strategic Environmental Research Program	3	56,716	58,771	53,506	51,729	U	
38	0603727D8Z	Joint Warfighting Program	3	8,255	18,679	7,872	7,790	U	
39	0603728D8Z	Agile Port Demonstration	3	4,617				U	
40	0603738D8Z	Cooperative DoD/VA Medical Research	3	18,437	5,915			U	
41	0603739E	Advanced Electronics Technologies	3	272,020	265,442	246,023	233,198	U	
42	0603746E	Maritime Technology	3	32,750				U	
43	0603747E	Electric Vehicles	3	15,000	9,000			U	
44	0603750D8Z	Advanced Concept Technology Demonstrations	3	74,756	88,598	117,969	119,298	U	
45	0603752D8Z	Commercial Technology Insertion Program	3	18,000				U	
46	0603753S	Electronic Commerce Resource Centers	3	46,421				U	
47	0603755D8Z	High Performance Computing Modernization Program	3	139,023	152,585	159,099	145,140	U	
48	0603760E	Command, Control and Communications Systems	3	147,525	177,492	222,888	213,380	U	
49	0603761E	Communication and Simulation Technology	3	70,165	52,258			U	
50	0603762E	Sensor and Guidance Technology	3	160,881	209,971	232,319	211,893	U	
51	0603763E	Marine Technology	3	19,597	23,659	22,538	21,964	U	
52	0603764E	Land Warfare Technology	3	79,319	88,613	97,825	101,376	U	
53	0603765E	Classified DARPA Programs	3	124,194	50,040	77,780	49,600	U	
54	0603800E	Joint Strike Fighter (JSF) - Dem/Val	3	21,134				U	
55	0603805E	Dual Use Applications Programs	3	115,784				U	

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

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Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
56	0603805S	Dual Use Application Programs	3		5,982		U
57	0603832D8Z	Joint Wargaming Simulation Management Office	3	60,059	60,518	68,456	U
58	0605160D8Z	Counterproliferation Support	3			1,495	U
59	0303132G	Global Grid Communications	3				
60	0304211G	National Activities	3				
61	0305166G	Special Development	3				
		Advanced Technology Development		2,132,992	1,820,603	1,803,951	1,727,839
62	0603228D8Z	Physical Security Equipment	4	17,801	25,465	37,107	U
63	0603708D8Z	Integrated Diagnostics	4	2,742	3,394		U
64	0603709D8Z	Joint Robotics Program	4	26,806	16,013	12,937	U
65	0603714D8Z	Advanced Sensor Applications Program	4	14,279	17,918	15,345	U
66	0603736D8Z	CALS Initiative	4	6,172	7,765	1,652	U
67	0603790D8Z	NATO Research and Development	4	7,939			U
68	0603790T	NATO Research and Development	4		5,735		U
69	0603851D8Z	Environmental Security Technical Certification Program	4	14,500	16,836	23,260	U
70	0603857J	All Service Combat Identification Evaluation Team (ASCIET)	4		12,976		U
71	0603861C	Theater High-Altitude Area Defense System - TMD - Dem/Val	4	387,260	433,922	34,133	U
72	0603868C	Navy Theater Wide Missile Defense System	4	437,896	364,284	329,768	U
73	0603869C	Meads Concepts - Dem/Val	4	49,728	9,915	48,597	U
74	0603870C	Boost Phase Intercept Theater Missile Defense Acquisition - Dem/ Val	4	13,994	6,426		U

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			FY 2001 C	S E
				FY 1998	FY 1999	FY 2000		
75	0603871C	National Missile Defense - Dem/Val	4	935,737	1,533,532	836,555	866,680	U
76	0603872C	Joint Theater Missile Defense - Dem/Val	4	684,181	200,133	195,722	218,608	U
77	0603873C	Family-of Systems Engineering and Integration (FoS E&I)	4		95,721	141,821	128,551	U
78	0603874C	BMD Technical Operations	4		184,842	190,650	160,295	U
79	0603875C	International Cooperative Programs	4		58,903	36,650	36,719	U
80	0603876C	Threat and Countermeasures	4		23,263	16,497	22,763	U
81	0603884BP	Chemical and Biological Defense Program - Dem/Val	4	51,886	60,227	62,033	89,510	U
82	0603892D8Z	ASAT	4	37,500				U
83	0603920D8Z	Humanitarian Demining	4		18,498	15,847	14,819	U
84	0603923D8Z	Coalition Warfare	4			12,781	12,124	U
85	0605104T	Technical Studies, Support and Analysis	4		980	353	1,284	U
86	0605110T	Critical Technology Support	4		2,618			U
		Demonstration and Validation		2,688,421	3,099,366	2,011,708	2,079,052	
87	0604384BP	Chemical and Biological Defense Program - EMD	5	120,624	110,943	116,365	100,296	U
88	0604709D8Z	Joint Robotics Program - EMD	5		15,115	12,004	11,742	U
89	0604764K	Advanced IT Services Joint Program Office (AITS-JPO)	5		15,179	15,172	15,075	U
90	0604771D8Z	Joint Tactical Information Distribution System (JTIDS)	5	50,312	30,125	29,382	16,401	U
91	0604805D8Z	Commercial Operations and Support Savings Initiative	5		7,901	16,976	15,129	U
92	0604861C	Theater High-Altitude Area Defense System - TMD - EMD	5			577,493	556,178	U

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

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Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			FY 2001	S E C
					FY 1999	FY 2000			
93	0604865C	Patriot PAC-3 Theater Missile Defense Acquisition - EMD	5	242,690	320,842	29,141		39,119	U
94	0604867C	Navy Area Theater Missile Defense - EMD	5	292,063	242,597	268,389		226,772	U
95	0305889D8Z	Counterdrug Intelligence Support	5	1,835					U
		Engineering and Manufacturing Development		707,524	742,702	1,064,922		980,712	
96	0603858D8Z	Unexploded Ordnance Detection and Clearance	6		1,259	1,226		1,221	U
97	0604942D8Z	Assessments and Evaluations	6		3,868	4,900		5,000	U
98	0605104D8Z	Technical Studies, Support and Analysis	6	30,592	29,641	29,506		30,016	U
99	0605104T	Technical Studies, Support and Analysis	6			588		648	U
100	0605110BR	USD(A&T)--Critical Technology Support	6			2,215		2,103	U
101	0605110D8Z	USD(A&T)--Critical Technology Support	6	2,487					U
102	0605114E	BLACK LIGHT	6	4,522	4,985	5,000		5,000	U
103	0605116D8Z	General Support to C3I	6			2,000		2,000	U
104	0605117D8Z	Foreign Material Acquisition and Exploitation	6	34,782	34,591	34,937		35,458	U
105	0605122D8Z	Industrial Capabilities Assessments	6			3,299		3,373	U
106	0605126J	Joint Theater Air and Missile Defense Organization	6	14,764	109,599	17,079		16,713	U
107	0605128BR	Classified Programs	6		13,706				U
108	0605128D8Z	Classified Program USD(P)	6	8,397	3,346				U
109	0605160BR	Counterproliferation Support	6		9,307	5,315		4,629	U
110	0605160D8Z	Counterproliferation Support	6	6,310					U

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
111	0605384BP	Chemical and Biological Defense Program	6	21,441	24,849	24,043	24,054	U
112	0605502BP	Small Business Innovative Research - Chemical Biological Def	6	5,612				U
113	0605502D8Z	Small Business Innovative Research	6	31,858				U
114	0605502E	Small Business Innovative Research	6	45,869				U
115	0605710D8Z	Classified Programs - C3I	6	929	6,359	627	645	U
116	0605790D8Z	Small Business Innovation Research Administration	6	1,609	1,799	1,713	1,757	U
117	0605798S	Defense Technology Analysis	6	8,542	7,978	4,974	5,076	U
118	0605801K	Defense Technical Information Services (DTIC)	6		45,335	46,655	45,729	U
119	0605801S	Defense Technical Information Center	6	45,413				U
120	0605803S	R&D in Support of DoD Enlistment, Testing and Evaluation	6	8,016	8,151	8,261	8,825	U
121	0605898E	Management Headquarters (Research and Development)	6	35,633	38,498	31,387	32,632	U
122	0908612C	Acquisition Program Stability Reserve	6				9,821	U
123	0909999E	Financing for Cancelled Account Adjustments	6	146				U
RDT&E Management Support				306,922	343,271	223,725	234,700	
124	0208045K	C3 Interoperability	7	24,457	26,219	27,366	28,962	U
125	0208052J	Joint Analytical Model Improvement Program	7	2,014	1,842	1,024	358	U
126	0301011G	Cryptologic Activities	7					
127	0301301L	General Defense Intelligence Program	7					

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DEFENSE-WIDE
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E
					FY 1999	FY 2000	FY 2001 C	
128	0302016K	National Military Command System- Wide Support	7	1,662	1,186	613	645	U
129	0302019K	Defense Info Infrastructure Engineering and Integration	7	3,986	4,777	5,316	5,521	U
130	0303126K	Long-Haul Communications (DCS)	7	13,387	11,510	1,316	1,425	U
131	0303127K	Support of the National Communications System	7	4,280	4,415	4,274	5,049	U
132	0303131K	Minimum Essential Emergency Communications Network (MEECN)	7	2,242	3,052	3,799	4,023	U
133	0303140G	Information Systems Security Program	7					
134	0303149J	C4I for the Warrior	7	2,387	2,811	3,018	2,915	U
135	0303149K	C4I for the Warrior	7		3,664	388	407	U
136	0303153K	Joint Spectrum Center	7		8,813	8,823	8,884	U
137	0304345BQ	National Imagery and Mapping Program	7					
138	0305102BQ	Defense Imagery and Mapping Program	7	115,238	108,677	88,401	63,624	U
139	0305127V	Foreign Counterintelligence Activities	7	405	417	437	442	U
140	0305159I	Defense Reconnaissance Support Activities (SPACE)	7	51,198	44,478			U
141	0305188J	Joint C4ISR Battle Center (JBC)	7	2,331				U
142	0305190D8Z	C3I Intelligence Programs	7	8,827	9,551	9,480	10,332	U
143	0305204D8Z	Tactical Unmanned Aerial Vehicles	7	53,871				U
144	0305205D8Z	Endurance Unmanned Aerial Vehicles	7	181,165				U
145	0305206D8Z	Airborne Reconnaissance Systems	7	186,090				U
146	0305206G	Airborne Reconnaissance Systems	7					

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DEFENSE-WIDE
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
147	0305207D8Z	Manned Reconnaissance Systems	7	26,402			U	
148	0305207G	Manned Reconnaissance Systems	7					
149	0305208BQ	Distributed Common Ground Systems	7					
150	0305208D8Z	Distributed Common Ground Systems	7	34,879			U	
151	0305208G	Distributed Common Ground Systems	7					
152	0305208L	Distributed Common Ground Systems	7		1,000		U	
153	0305209D8Z	DARP Integration and Support	7	7,101			U	
154	0305884L	Intelligence Planning and Review Activities	7					
155	0305885G	Tactical Cryptologic Activities	7				U	
156	0305889G	Counterdrug Intelligence Support	7	6,946			U	
157	0305898L	Management Headquarters (Auxiliary Forces)	7	1,864			U	
158	0708011S	Industrial Preparedness	7	25,403	26,036	6,665	U	
159	0902298J	Management Headquarters (OJCS)	7	9,068	9,332	9,531	U	
160	0902740J	Joint Simulation System	7	23,381	24,681	18,421	U	
161	0909999S	Financing for Cancelled Account Adjustments	7	75			U	
162	1001017D8Z	Partnership for Peace Activities	7		4,896		U	
163	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	7	3,120	4,068		U	
164	1160401BB	Special Operations Technology Development	7	3,890	3,750	7,093	U	
165	1160402BB	Special Operations Advanced Technology Development	7	8,050	28,409	7,990	U	
166	1160404BB	Special Operations Tactical Systems Development	7	101,520	121,845	106,671	U	

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FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
167	1160405BB	Special Operations Intelligence Systems Development	7	9,516	8,793	1,407	2,899 U
168	1160407BB	SOF Medical Technology Development	7	1,879	1,962	2,039	2,078 U
169	1160408BB	SOF Operational Enhancements	7	23,288	46,380	62,567	76,284 U
		Operational Systems Development		2,330,147	2,034,102	1,792,677	1,858,952
		Total Research Development Test & Eval, Defwide		9,714,240	9,756,624	8,609,289	8,529,630

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DEFENSE-WIDE

FY 2000/2001 RDT&E PROGRAM

SUMMARY
(\$ IN THOUSANDS)

FEB 1999

Summary Recap of Budget Activities

	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
RDT&E Management Support	250,380	258,606	253,457	253,523
Total Developmental Test & Eval, Defense	250,380	258,606	253,457	253,523

Summary Recap of FYDP Programs

Research and Development	250,380	258,606	253,457	253,523
Total Developmental Test & Eval, Defense	250,380	258,606	253,457	253,523

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EXHIBIT R-1

DEFENSE-WIDE
FY 2000/2001 RDT&E PROGRAM

APPROPRIATION: 0450D Developmental Test & Eval, Defense

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
1	0604940D8Z	Central Test and Evaluation Investment Development (CTEIP)	6	118,718	131,669	121,741	121,943 U
2	0605130D8Z	Foreign Comparative Testing	6	32,657	32,684	31,876	31,947 U
3	0605804D8Z	Development Test and Evaluation	6	99,005	94,253	99,840	99,633 U
		RDT&E Management Support		250,380	258,606	253,457	253,523
		Total Developmental Test & Eval, Defense		250,380	258,606	253,457	253,523

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DEFENSE-WIDE

FY 2000/2001 RDT&E PROGRAM

SUMMARY
(\$ IN THOUSANDS)

FEB 1999

<u>Summary Recap of Budget Activities</u>	<u>FY 1998</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>
RDT&E Management Support	29,794	34,245	24,434	24,004
Total Operational Test & Eval, Defense	29,794	34,245	24,434	24,004
<u>Summary Recap of FYDP Programs</u>				
Research and Development	29,794	34,245	24,434	24,004
Total Operational Test & Eval, Defense	29,794	34,245	24,434	24,004

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DEFENSE-WIDE
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0460D Operational Test & Eval, Defense

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
1	0605118D8Z	Operational Test and Evaluation	6	16,154	15,311	14,602	14,249 U
2	0605131D8Z	Live Fire Testing	6	13,640	18,934	9,832	9,755 U
		RDT&E Management Support		29,794	34,245	24,434	24,004
		Total Operational Test & Eval, Defense		29,794	34,245	24,434	24,004

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Special Operations Command
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
163	1160279BB	Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog	7	3,120	4,068		U
164	1160401BB	Special Operations Technology Development	7	3,890	3,750	7,093	7,706 U
165	1160402BB	Special Operations Advanced Technology Development	7	8,050	28,409	7,990	8,126 U
166	1160404BB	Special Operations Tactical Systems Development	7	101,520	121,845	106,671	132,752 U
167	1160405BB	Special Operations Intelligence Systems Development	7	9,516	8,793	1,407	2,899 U
168	1160407BB	SOF Medical Technology Development	7	1,879	1,962	2,039	2,078 U
169	1160408BB	SOF Operational Enhancements	7	23,288	46,380	62,567	76,284 U
		Operational Systems Development		151,263	215,207	187,767	229,845
		Total Special Operations Command		151,263	215,207	187,767	229,845

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**Chemical and Biological Defense Program
FY 2000/2001 RDT&E PROGRAM**

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

				Thousands of Dollars				S E C	
Line No	Program Element Number	Item	Act	FY 1998	FY 1999	FY 2000	FY 2001	C	
6	0601384BP	Chemical and Biological Defense Program	1	25,263	29,500	31,386	31,332	U	
	Basic Research			25,263	29,500	31,386	31,332		
15	0602384BP	Chemical and Biological Defense Program	2	69,329	63,992	64,780	68,024	U	
	Applied Research			69,329	63,992	64,780	68,024		
33	0603384BP	Chemical and Biological Defense Program - Advanced Development	3	43,517	52,212	40,910	44,881	U	
	Advanced Technology Development			43,517	52,212	40,910	44,881		
81	0603884BP	Chemical and Biological Defense Program - Dem/Val	4	51,886	60,227	62,033	89,510	U	
	Demonstration and Validation			51,886	60,227	62,033	89,510		
87	0604384BP	Chemical and Biological Defense Program - EMD	5	120,624	110,943	116,365	100,296	U	
	Engineering and Manufacturing Development			120,624	110,943	116,365	100,296		
111	0605384BP	Chemical and Biological Defense Program	6	21,441	24,849	24,043	24,054	U	
112	0605502BP	Small Business Innovative Research - Chemical Biological Def	6	5,612				U	
	RDT&E Management Support			27,053	24,849	24,043	24,054		
	Total Chemical and Biological Defense Program			337,672	341,723	339,517	358,097		

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National Imagery And Mapping Agency
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E C
				FY 1998	FY 1999	FY 2000	FY 2001 C	
137	0304345BQ	National Imagery and Mapping Program	7					
138	0305102BQ	Defense Imagery and Mapping Program	7	115,238	108,677	88,401	63,624	U
149	0305208BQ	Distributed Common Ground Systems Operational Systems Development	7					
Total National Imagery And Mapping Agency								

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**Defense Threat Reduction Agency
FY 2000/2001 RDT&E PROGRAM**

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E C
				FY 1998	FY 1999	FY 2000	FY 2001 C	
19	0602715BR	WMD Related Technology	2	203,785	211,363	203,512	206,467	U
		Applied Research		203,785	211,363	203,512	206,467	
27	0603160BR	Counterproliferation Support - Adv Dev	3	80,209	52,951	81,245	75,841	U
35	0603711BR	Verification Technology Demonstration	3		57,347	58,455	55,325	U
		Advanced Technology Development		80,209	110,298	139,700	131,166	
100	0605110BR	USD(A&T)--Critical Technology Support	6			2,215	2,103	U
107	0605128BR	Classified Programs	6		13,706			U
109	0605160BR	Counterproliferation Support	6		9,307	5,315	4,629	U
		RDT&E Management Support			23,013	7,530	6,732	
		Total Defense Threat Reduction Agency		283,994	344,674	350,742	344,365	

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Ballistic Missile Defense Organization
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E C
				FY 1998	FY 1999	FY 2000	FY 2001	
8	0602173C	Support Technologies - Applied Research	2	109,888	97,436	65,328	52,992	U
Applied Research								
29	0603173C	Support Technologies - Advanced Technology Development	3	298,207	272,820	173,704	180,826	U
Advanced Technology Development								
71	0603861C	Theater High-Altitude Area Defense System - TMD - Dem/Val	4	387,260	433,922	34,133	3,519	U
72	0603868C	Navy Theater Wide Missile Defense System	4	437,896	364,284	329,768	369,049	U
73	0603869C	Meads Concepts - Dem/Val	4	49,728	9,915	48,597	63,568	U
74	0603870C	Boost Phase Intercept Theater Missile Defense Acquisition - Dem/Val	4	13,994	6,426			U
75	0603871C	National Missile Defense - Dem/Val	4	935,737	1,533,532	836,555	866,680	U
76	0603872C	Joint Theater Missile Defense - Dem/Val	4	684,181	200,133	195,722	218,608	U
77	0603873C	Family-of Systems Engineering and Integration (FoS E&I)	4		95,721	141,821	128,551	U
78	0603874C	BMD Technical Operations	4		184,842	190,650	160,295	U
79	0603875C	International Cooperative Programs	4		58,903	36,650	36,719	U
80	0603876C	Threat and Countermeasures	4		23,263	16,497	22,763	U
Demonstration and Validation								
92	0604861C	Theater High-Altitude Area Defense System - TMD - EMD	5	2,508,796	2,910,941	1,830,393	1,869,752	U
93	0604865C	Patriot PAC-3 Theater Missile Defense Acquisition - EMD	5	242,690	320,842	29,141	39,119	U

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Ballistic Missile Defense Organization
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E C
				FY 1998	FY 1999	FY 2000	FY 2001	
94	0604867C	Navy Area Theater Missile Defense - EMD	5	292,063	242,597	268,389	226,772	U
		Engineering and Manufacturing Development		534,753	563,439	875,023	822,069	
122	0908612C	Acquisition Program Stability Reserve	6				9,821	U
		RDT&E Management Support					9,821	
		Total Ballistic Missile Defense Organization		3,451,644	3,844,636	2,944,448	2,935,460	

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Office of Secretary of Defense
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E C
				FY 1998	FY 1999	FY 2000	FY 2001	
1	0601101D8Z	In-House Laboratory Independent Research	1	1,495	2,167	2,033	2,021	U
3	0601103D8Z	University Research Initiatives	1	214,600	228,415	216,778	210,332	U
4	0601105D8Z	Gulf War Illness	1		23,674	19,185	19,098	U
5	0601111D8Z	Government/Industry Cosponsorship of University Research	1	6,942	4,801	6,351	6,762	U
Basic Research				223,037	259,057	244,347	238,213	
9	0602227D8Z	Medical Free Electron Laser	2	19,137	14,496	9,719	9,698	U
10	0602228D8Z	Historically Black Colleges and Universities (HBCU) Science	2	10,724		14,329	14,338	U
11	0602234D8Z	Lincoln Laboratory Research Program	2	17,197	19,271	20,774	20,739	U
20	0602787D8Z	Medical Technology	2	8,559	9,212	8,903	8,742	U
Applied Research				55,617	42,979	53,725	53,517	
22	0603002D8Z	Medical Advanced Technology	3	2,848	2,130	2,007	2,057	U
23	0603104D8Z	Explosives Demilitarization Technology	3	11,285	14,442	11,183	11,029	U
24	0603120D8Z	Demining	3	15,112				U
25	0603121D8Z	Alternative to Landmines	3	2,760	4,687			U
26	0603122D8Z	Counterterror Technical Support	3	40,826	37,667	52,223	54,791	U
28	0603160D8Z	Counterproliferation Support - Adv Dev	3	74,196				U
30	0603225D8Z	Joint DoD-DoE Munitions Technology Development	3	16,242	13,007	14,786	14,790	U
31	0603232D8Z	Automatic Target Recognition	3	5,904	5,010	7,775	7,588	U
34	0603704D8Z	Special Technical Support	3	11,147	11,176	10,948	10,855	U
37	0603716D8Z	Strategic Environmental Research Program	3	56,716	58,771	53,506	51,729	U

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Office Of Secretary Of Defense
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
38	0603727D8Z	Joint Warfighting Program	3	8,255	18,679	7,872	7,790 U
39	0603728D8Z	Agile Port Demonstration	3	4,617			U
40	0603738D8Z	Cooperative DoD/VA Medical Research	3	18,437	5,915		U
44	0603750D8Z	Advanced Concept Technology Demonstrations	3	74,756	88,598	117,969	119,298 U
45	0603752D8Z	Commercial Technology Insertion Program	3	18,000			U
47	0603755D8Z	High Performance Computing Modernization Program	3	139,023	152,585	159,099	145,140 U
57	0603832D8Z	Joint Wargaming Simulation Management Office	3	60,059	60,518	68,456	68,250 U
58	0605160D8Z	Counterproliferation Support	3			1,495	1,493 U
		Advanced Technology Development		560,183	473,185	507,319	494,810
62	0603228D8Z	Physical Security Equipment	4	17,801	25,465	37,107	36,201 U
63	0603708D8Z	Integrated Diagnostics	4	2,742	3,394		U
64	0603709D8Z	Joint Robotics Program	4	26,806	16,013	12,937	10,492 U
65	0603714D8Z	Advanced Sensor Applications Program	4	14,279	17,918	15,345	15,646 U
66	0603736D8Z	CALS Initiative	4	6,172	7,765	1,652	1,623 U
67	0603790D8Z	NATO Research and Development	4	7,939			U
69	0603851D8Z	Environmental Security Technical Certification Program	4	14,500	16,836	23,260	27,601 U
82	0603892D8Z	ASAT	4	37,500			U
83	0603920D8Z	Humanitarian Demining	4		18,498	15,847	14,819 U
84	0603923D8Z	Coalition Warfare	4			12,781	12,124 U
		Demonstration and Validation		127,739	105,889	118,929	118,506

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Office of Secretary of Defense
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
88	0604709D8Z	Joint Robotics Program - EMD	5		15,115	12,004	11,742	U
90	0604771D8Z	Joint Tactical Information Distribution System (JTIDS)	5	50,312	30,125	29,382	16,401	U
91	0604805D8Z	Commercial Operations and Support Savings Initiative	5		7,901	16,976	15,129	U
		Engineering and Manufacturing Development		50,312	53,141	58,362	43,272	
95	0305889D8Z	Counterdrug Intelligence Support	5	1,835				U
		Engineering and Manufacturing Development		1,835				
96	0603858D8Z	Unexploded Ordnance Detection and Clearance	6		1,259	1,226	1,221	U
97	0604942D8Z	Assessments and Evaluations	6		3,868	4,900	5,000	U
98	0605104D8Z	Technical Studies, Support and Analysis	6	30,592	29,641	29,506	30,016	U
101	0605110D8Z	USD(A&T)--Critical Technology Support	6	2,487				U
103	0605116D8Z	General Support to C3I	6			2,000	2,000	U
104	0605117D8Z	Foreign Material Acquisition and Exploitation	6	34,782	34,591	34,937	35,458	U
105	0605122D8Z	Industrial Capabilities Assessments	6			3,299	3,373	U
108	0605128D8Z	Classified Program USD(P)	6	8,397	3,346			U
110	0605160D8Z	Counterproliferation Support	6	6,310				U
113	0605502D8Z	Small Business Innovative Research	6	31,858				U
115	0605710D8Z	Classified Programs - C3I	6	929	6,359	627	645	U
116	0605790D8Z	Small Business Innovation Research Administration	6	1,609	1,799	1,713	1,757	U
		RDT&E Management Support		116,964	80,863	78,208	79,470	
142	0305190D8Z	C3I Intelligence Programs	7	8,827	9,551	9,480	10,332	U

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Office Of Secretary Of Defense
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001 C	
143	0305204D8Z	Tactical Unmanned Aerial Vehicles	7	53,871				U
144	0305205D8Z	Endurance Unmanned Aerial Vehicles	7	181,165				U
145	0305206D8Z	Airborne Reconnaissance Systems	7	186,090				U
147	0305207D8Z	Manned Reconnaissance Systems	7	26,402				U
150	0305208D8Z	Distributed Common Ground Systems	7	34,879				U
153	0305209D8Z	DARP Integration and Support	7	7,101				U
	Operational Systems Development							
				498,335	9,551	9,480	10,332	
162	1001017D8Z	Partnership for Peace Activities	7		4,896			U
	Operational Systems Development							
					4,896			
	Total Office Of Secretary Of Defense				1,029,561	1,070,370	1,038,120	

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Defense Adv Research Projects Agcy
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E C
				FY 1998	FY 1999	FY 2000	FY 2001	
2	0601101E	Defense Research Sciences	1	66,706	64,429	64,293	68,792	U
		Basic Research		66,706	64,429	64,293	68,792	
7	0602110E	Next Generation Internet	2	39,313	49,504	40,000		U
12	0602301E	Computing Systems and Communications Technology	2	296,646	323,959	322,874	331,023	U
13	0602302E	Extensible Information Systems	2			70,000	70,000	U
14	0602383E	Biological Warfare Defense	2	58,452	84,754	145,850	151,000	U
16	0602702E	Tactical Technology	2	140,997	169,759	137,626	123,937	U
17	0602708E	Integrated Command and Control Technology	2	43,994	39,607	31,296	32,000	U
18	0602712E	Materials and Electronics Technology	2	213,386	278,286	235,321	219,063	U
		Applied Research		792,788	945,869	982,967	927,023	
32	0603285E	Advanced Aerospace Systems	3			19,664	19,000	U
41	0603739E	Advanced Electronics Technologies	3	272,020	265,442	246,023	233,198	U
42	0603746E	Maritime Technology	3	32,750				U
43	0603747E	Electric Vehicles	3	15,000	9,000			U
48	0603760E	Command, Control and Communications Systems	3	147,525	177,492	222,888	213,380	U
49	0603761E	Communication and Simulation Technology	3	70,165	52,258			U
50	0603762E	Sensor and Guidance Technology	3	160,881	209,971	232,319	211,893	U
51	0603763E	Marine Technology	3	19,597	23,659	22,538	21,964	U
52	0603764E	Land Warfare Technology	3	79,319	88,613	97,825	101,376	U
53	0603765E	Classified DARPA Programs	3	124,194	50,040	77,780	49,600	U
54	0603800E	Joint Strike Fighter (JSF) - Dem/ Val	3	21,134				U

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Defense Adv Research Projects Agcy
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	FY 1999	FY 2000	FY 2001	S E C
55	0603805E	Dual Use Applications Programs	3	115,784	876,475	919,037	850,411	U
		Advanced Technology Development		1,058,369				
102	0605114E	BLACK LIGHT	6	4,522	4,985	5,000	5,000	U
114	0605502E	Small Business Innovative Research	6	45,869				U
121	0605898E	Management Headquarters (Research and Development)	6	35,633	38,498	31,387	32,632	U
		RDT&E Management Support		86,024	43,483	36,387	37,632	
123	0909999E	Financing for Cancelled Account Adjustments	6	146				U
		RDT&E Management Support		146				
		Total Defense Adv Research Projects Agcy		2,004,033	1,930,256	2,002,684	1,883,858	

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National Security Agency
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
59	0303132G	Global Grid Communications	3				
60	0304211G	National Activities	3				
61	0305166G	Special Development	3				
		Advanced Technology Development					
126	0301011G	Cryptologic Activities	7				
133	0303140G	Information Systems Security Program	7				
146	0305206G	Airborne Reconnaissance Systems	7				
148	0305207G	Manned Reconnaissance Systems	7				
151	0305208G	Distributed Common Ground Systems	7				
155	0305885G	Tactical Cryptologic Activities	7				
156	0305889G	Counterdrug Intelligence Support	7				
		Operational Systems Development					
		Total National Security Agency					

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Defense Support Project Office
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
140	0305159I	Defense Reconnaissance Support Activities (SPACE)	7	51,198	44,478		
				51,198	44,478		
		Operational Systems Development					
		Total Defense Support Project Office		51,198	44,478		

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Joint Chiefs of Staff
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001 C	
70	0603857J	All Service Combat Identification Evaluation Team (ASCIET)	4		12,976			U
Demonstration and Validation								
					12,976			
106	0605126J	Joint Theater Air and Missile Defense Organization	6	14,764	109,599	17,079	16,713	U
RDT&E Management Support								
				14,764	109,599	17,079	16,713	
125	0208052J	Joint Analytical Model Improvement Program	7	2,014	1,842	1,024	358	U
Operational Systems Development								
				2,014	1,842	1,024	358	
134	0303149J	C4I for the Warrior	7	2,387	2,811	3,018	2,915	U
141	0305188J	Joint C4ISR Battle Center (JBC)	7	2,331				U
Operational Systems Development								
				4,718	2,811	3,018	2,915	
159	0902298J	Management Headquarters (OJCS)	7	9,068	9,332	9,531	9,947	U
160	0902740J	Joint Simulation System	7	23,381	24,681	18,421	16,323	U
Operational Systems Development								
				32,449	34,013	27,952	26,270	
Total Joint Chiefs of Staff								
				53,945	161,241	49,073	46,256	

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Defense Information Systems Agency
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

				Thousands of Dollars			S E C	
Line No	Program Element Number	Item	Act	FY 1998	FY 1999	FY 2000	FY 2001	C
21	0305108K	Command and Control Research	2	1,821	1,955	1,968	2,015	U
		Applied Research		1,821	1,955	1,968	2,015	
89	0604764K	Advanced IT Services Joint Program Office (AITS-JPO)	5		15,179	15,172	15,075	U
		Engineering and Manufacturing Development			15,179	15,172	15,075	
118	0605801K	Defense Technical Information Services (DTIC)	6		45,335	46,655	45,729	U
		RDT&E Management Support			45,335	46,655	45,729	
124	0208045K	C3 Interoperability	7	24,457	26,219	27,366	28,962	U
		Operational Systems Development		24,457	26,219	27,366	28,962	
128	0302016K	National Military Command System- Wide Support	7	1,662	1,186	613	645	U
129	0302019K	Defense Info Infrastructure Engineering and Integration	7	3,986	4,777	5,316	5,521	U
130	0303126K	Long-Haul Communications (DCS)	7	13,387	11,510	1,316	1,425	U
131	0303127K	Support of the National Communications System	7	4,280	4,415	4,274	5,049	U
132	0303131K	Minimum Essential Emergency Communications Network (MEECN)	7	2,242	3,052	3,799	4,023	U
135	0303149K	C4I for the Warrior	7		3,664	388	407	U
136	0303153K	Joint Spectrum Center	7		8,813	8,823	8,884	U
		Operational Systems Development		25,557	37,417	24,529	25,954	
		Total Defense Information Systems Agency		51,835	126,105	115,690	117,735	

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Defense Intelligence Agency
FY 2000/2001 RDT&E PROGRAM

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APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars			S E C
				FY 1998	FY 1999	FY 2000	
127	0301301L	General Defense Intelligence Program	7				
152	0305208L	Distributed Common Ground Systems	7		1,000		1,000 U
154	0305884L	Intelligence Planning and Review Activities	7				
157	0305898L	Management Headquarters (Auxiliary Forces)	7	1,864			U
		Operational Systems Development					
		Total Defense Intelligence Agency					

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Defense Logistics Agency
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	FY 1998	Thousands of Dollars			S E C
					FY 1999	FY 2000	FY 2001	
36	0603712S	Generic Logistics R&D Technology Demonstrations	3	33,945	23,718	17,336	19,676	U
46	0603753S	Electronic Commerce Resource Centers	3	46,421				U
56	0603805S	Dual Use Application Programs	3		5,982			U
		Advanced Technology Development						
				80,366	29,700	17,336	19,676	
117	0605798S	Defense Technology Analysis	6	8,542	7,978	4,974	5,076	U
119	0605801S	Defense Technical Information Center	6	45,413				U
120	0605803S	R&D in Support of DoD Enlistment, Testing and Evaluation	6	8,016	8,151	8,261	8,825	U
		RDT&E Management Support						
				61,971	16,129	13,235	13,901	
158	0708011S	Industrial Preparedness	7	25,403	26,036	6,665	7,392	U
		Operational Systems Development						
				25,403	26,036	6,665	7,392	
161	0909999S	Financing for Cancelled Account Adjustments	7	75				U
		Operational Systems Development						
				75				
		Total Defense Logistics Agency		167,815	71,865	37,236	40,969	

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Defense Security Cooperation Agency
FY 2000/2001 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Date: FEB 1999

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E C
				FY 1998	FY 1999	FY 2000	FY 2001 C	
68	0603790T	NATO Research and Development	4		5,735			U
85	0605104T	Technical Studies, Support and Analysis	4		980	353		1,284 U
86	0605110T	Critical Technology Support	4		2,618			U
		Demonstration and Validation			9,333	353		1,284
99	0605104T	Technical Studies, Support and Analysis	6			588		648 U
		RDT&E Management Support				588		648
		Total Defense Security Cooperation Agency			9,333	941		1,932

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**Defense Security Service
FY 2000/2001 RDT&E PROGRAM**

EXHIBIT R-1

Date: FEB 1999

APPROPRIATION: 0400D Research Development Test & Eval, Defwide

Line No	Program Element Number	Item	Act	Thousands of Dollars				S E
				FY 1998	FY 1999	FY 2000	FY 2001	
139	0305127V	Foreign Counterintelligence Activities	7	405	417	437	442	U
		Operational Systems Development		405	417	437	442	
		Total Defense Security Service		405	417	437	442	