

# **RDTE PROGRAMS (R-1)**



EXHIBITION STATEMENT &  
Approved by [Signature] Director  
Inspection Directorate

## *Department of Defense Budget for Fiscal Year 1997*

*March 1996*

19960530 060

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ERRATA SHEETS FOR  
RDT&E PROGRAMS (R-1)

FY 1997 DEPARTMENT OF DEFENSE BUDGET

## UNCLASSIFIED

Department of Defense  
FY 1997 R D T & E Program

Exhibit R-1

## Summary

Date: MAR 1996

Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
Basic Research	1,175,735	1,132,498	1,155,990
Applied Research	2,932,705	2,860,528	2,697,153
Advanced Technology Development	3,821,183	3,519,951	3,367,426
Demonstration and Validation	4,403,490	4,972,039	4,596,506
Engineering and Manufacturing Development	8,683,317	8,716,709	8,763,321
RDTE Management Support	3,697,794	3,350,456	2,907,665
Operational Systems Development	9,740,345	10,589,494	11,257,611
Total Research, Development, Test & Evaluation	34,454,569	35,141,675	34,745,672
Summary Recap of FYDP Programs			
Strategic Forces	143,934	145,455	140,704
General Purpose Forces	3,515,522	3,271,943	2,922,132
Intelligence and Communications	5,646,151	6,495,498	7,946,377
Mobility Forces	19,749	22,165	95,930
Research and Development (FYDP Program 6)	24,878,632	24,833,871	23,342,248
Central Supply and Maintenance	29,688	199,085	129,581
Training Medical and Other	1,441	1,017	1,887
Administration and Assoc Activities	17,885	16,714	40,829
Support of Other Nations	1,849	8,106	3,633
Special Operations Forces	199,718	147,821	122,351
Total Research, Development, Test & Evaluation	34,454,569	35,141,675	34,745,672

UNCLASSIFIED

Page III

UNCLASSIFIED

FY 1997 R D T & E Program

Exhibit R-1

Summary

Date: MAR 1996

Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
Basic Research	328,561	339,189	330,631
Applied Research	1,189,378	1,233,337	1,147,607
Advanced Technology Development	2,054,462	1,997,561	2,042,798
Demonstration and Validation	1,948,509	2,307,836	1,642,738
Engineering and Manufacturing Development	451,168	642,083	972,956
RDT&E Management Support	419,539	337,143	224,122
Operational Systems Development	2,211,855	2,178,975	2,037,984
Total Research Development Test & Eval Defwide	8,603,472	9,036,124	8,398,836

Summary Recap of FYDP Programs

General Purpose Forces	33,907	23,192	24,268
Intelligence and Communications	1,984,917	1,992,122	1,851,478
Research and Development (FYDP Program 6,	6,379,301	6,855,330	6,358,996
Central Supply and Maintenance		6,659	6,831
Administration and Assoc Activities	5,629	11,000	34,912
Special Operations Forces	199,718	147,821	122,351
Total Research Development Test & Eval Defwide	8,603,472	9,036,124	8,398,836

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FY 1997 R D T & E Program  
Defensewide

Exhibit R-1

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Date: MAR 1996

Thousands of Dollars

Line Element No Number	Program Element No Number	Item	Act	FY 1995	FY 1996	FY 1997 c
1	0601101D	In-House Laboratory Independent Research	1	2,242	3,411	2,154 U
2	0601101E	Defense Research Sciences	1	85,069	77,600	74,923 U
3	0601103D	University Research Initiatives	1	235,674	222,043	209,235 U
4	0601110D	Focused Research Initiatives	1	5,576	8,654	15,580 U
5	0601384BP	Chemical and Biological Defense Program	1		27,481	28,739 U
		Basic Research		328,561	339,189	330,631
6	0602160D	Counterproliferation Support	2		13,882	U
7	0602173C	Support Technologies/Follow-on Technologies	2	80,948	89,230	94,023 U
8	0602227D	Medical Free Electron Laser	2	22,070	25,223	23,457 U
9	0602228D	Historically Black Colleges and Universities	2	21,268	14,195	11,163 U
10	0602234D	Lincoln Laboratory Research Program	2		12,393	20,068 U
11	0602301E	Computing Systems and Communications Technology	2	376,490	363,038	346,957 U
12	0602384BP	Chemical and Biological Defense Program	2	9,721	67,683	65,273 U
13	0602702E	Tactical Technology	2	118,755	127,205	117,944 U
14	0602708E	Integrated Command and Control Technology	2	79,375	48,342	45,000 U
15	0602712E	Materials and Electronics Technology	2	260,979	235,159	218,539 U
16	0602715H	Defense Nuclear Agency	2	210,793	227,964	195,131 U
17	0602787D	Medical Technology	2	7,339	7,204	8,196 U
18	0305108K	Command and Control Research	2	1,640	1,819	1,856 U
		Applied Research		1,189,378	1,233,337	1,147,607

Page D-1

UNCLASSIFIED

UNCLASSIFIED

FY 1997 R D T & E Program Exhibit R-1

Date: MAR 1996

Appropriation: 0400 D Research Development Test & Eval Defwide

Thousands of Dollars

Line Element No	Program Item	Act	FY 1995	FY 1996	FY 1997 c
19	0603002D Medical Advanced Technology	3	3,884	3,926	3,363 U
20	0603104D Explosives Demilitarization Technology	3	3,794	15,000	U
21	0603105D Military HIV Research	3	19,212		U
22	0603120D Demining	3			7,746 U
23	0603122D Counterterror Technical Support	3	7,765	17,608	16,521 U
24	0603160D Counterproliferation Support - Adv Dev	3	23,708	62,753	54,142 U
25	0603173C Support Technologies/Follow-on Technologies -	3	126,585	125,537	132,319 U
26	0603225D Joint DoD-DoE Munitions Technology Development	3	23,172	20,939	16,158 U
27	0603226E Experimental Evaluation of Major Innovative	3	581,818	582,616	635,553 U
28	0603232D Automatic Target Recognition	3			4,841 U
29	0603384BP Chemical and Biological Defense Program -	3		34,349	41,685 U
30	0603569E Advanced Submarine Technology	3	31,400	31,687	U
31	0603570D Defense Laboratory Partnership Program	3	58,971		U
32	0603570E Defense Reinvestment	3	208,067	185,741	U
33	0603704D Special Technical Support	3	16,332	17,470	12,068 U
34	0603711H Verification Technology Demonstration	3	34,411	32,527	26,199 U
35	0603712S Generic Logistics R&D Technology Demonstrations	3		11,539	18,162 U
36	0603716D Strategic Environmental Research Program	3	52,340	55,859	54,880 U
37	0603724D Biological Defense - Advanced Development	3	50,001		U
38	0603726D Joint Technology Insertion Program	3		3,339	14,523 U

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Defensewide  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

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 Thousands of Dollars  
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Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c
39	0603736D	CALS Initiative	3	13,102		U
40	0603738D	Cooperative DoD/VA Medical Research	3	41,845	24,013	U
41	0603739E	Advanced Electronics Technologies	3	383,459	393,144	332,100 U
42	0603744E	Advanced Simulation	3	27,910	4,887	U
43	0603745E	Semiconductor Manufacturing Technology	3	88,327	37,296	U
44	0603746E	Maritime Technology	3	38,780	47,196	37,408 U
45	0603747E	Electric Vehicles	3	14,170	14,694	U
46	0603750D	Advanced Concept Technology Demonstrations	3	29,952	37,087	98,471 U
47	0603752D	Commercial Technology Insertion Program	3	61,797	114,961	48,411 U
48	0603755D	High Performance Computing Modernization Program	3	23,109		99,880 U
49	0603756D	Consolidated DoD Software Initiative	3	19,097		U
50	0603771S	Industrial Preparedness Manufacturing Technology	3			U
51	0603800E	Joint Advanced Strike Technology - Dem/Val	3		29,557	78,400 U
52	0603805E	Dual Use Applications Programs	3			250,000 U
53	0603832D	Joint Wargaming Simulation Management Office	3	51,636	74,624	59,968 U
54	0603889E	Counterdrug RDT&E Projects	3	38,970		U
		Advanced Technology Development		2,054,462	1,997,561	2,042,798
55	0603228D	Physical Security Equipment	4	25,915	19,299	18,676 U
56	0603708D	Integrated Diagnostics	4	10,818	9,861	9,742 U

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Defensewide  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars					
57	0603709D Joint Robotics Program	4	22,978	16,566	23,744 U
58	0603714D Advanced Sensor Applications Program	4	31,226	29,900	24,001 U
59	0603715D AIM-9 Consolidated Program	4	48,024		U
60	0603734J Island Sun Support	4	2,698	1,359	1,246 U
61	0603736D CALS Initiative	4		5,789	1,936 U
62	0603790D NATO Research and Development	4	29,377	22,573	22,776 U
63	0603851D Environmental Security Technical Certification	4	43,111	26,038	14,155 U
64	0603861C Theater High-Altitude Area Defense System - TMD -	4	452,384	554,755	269,000 U
65	0603862C Theater Missile Defense Ground Based Radar (GBR-	4	169,993		U
66	0603863C HAWK Upgrades Theater Missile Defense Acquisition	4	26,800	22,312	U
67	0603864C Battle Management and C4I for TMD Acquisition -	4	19,893	23,160	U
68	0603867C Navy Lower Tier TMD Acquisition - Dem/Val	4	139,834	187,258	60,000 U
69	0603868C Navy Upper Tier TMD - Dem/Val	4	75,000	194,565	58,171 U
70	0603869C CORPS Surface-to-Air Missile - TMD - Dem/Val	4	14,223	19,675	56,232 U
71	0603870C Boost Phase Intercept Theater Missile Defense	4	40,610		U
72	0603871C National Missile Defense - Dem/Val	4	387,105	720,750	508,437 U
73	0603872C Other Theater Missile Defense/Follow-on TMD	4	408,520	421,185	520,111 U
74	0603884BP Chemical and Biological Defense Program - Dem/Val	4		32,791	54,511 U
Demonstration and Validation					
			1,948,509	2,307,836	1,642,738

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FY 1997 Defensewide  
R D T & E Program

Exhibit R-1

Date: MAR 1996

Appropriation: 0400 D Research Development Test &amp; Eval Defwide

Line Element No	Program Item	Act	FY 1995	FY 1996	FY 1997	Thousands of Dollars
75	0604160D Counterproliferation Support - EMD	5	2,031	2,676	2,651	U
76	0604384BP Chemical and Biological Defense Program - EMD	5	15,200	88,196	89,915	U
77	0604771D Joint Tactical Information Distribution System	5	81,709	59,619	44,501	U
78	0604861C Theater High-Altitude Area Defense System - TMD -	5		13,885	212,798	U
79	0604864C Battle Management and C4I for TMD Acquisition -	5		363,008	381,509	U
80	0604865C Patriot PAC-3 Theater Missile Defense Acquisition	5	275,450	18,967		U
81	0604866C ERINT/Patriot PAC-3 Risk Reduction - TMD - EMD	5	69,328	95,732	241,582	U
82	0604867C Navy Lower Tier TMD Acquisition - EMD	5	500			U
83	0604889K Counterdrug Engineering and Manufacturing	5	6,950			U
84	0305889D Counterdrug Intelligence Support	5				U
	Engineering and Manufacturing Development		451,168	642,083	972,956	
85	0605104D Technical Studies, Support and Analysis	6	24,720	31,248	35,101	U
86	0605110D Technical Support to USD(A)--Critical Technology	6	2,566	2,547	2,743	U
87	0605114E BLACK LIGHT	6	4,725	4,623	4,730	U
88	0605117D Foreign Material Acquisition and Exploitation	6	99,963	44,510	40,750	U
89	0605128D Classified Program USD(P)	6		1,700	11,400	U
90	0605129D Technical Assistance	6			4,785	U
91	0605160D Counterproliferation Support	6	5,671	6,214	8,563	U
92	0605218C Ballistic Missile Defense RDT&E Program	6	157,359	146,530		U

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FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Thousands of Dollars

Program Line Element No Number	Item	Act	FY 1995	FY 1996	FY 1997 c
93	0605384BP Chemical and Biological Defense Program	6	1,700	4,752	16,708 U
94	0605502D Small Business Innovative Research	6	29,390		U
95	0605710D Classified Programs - C3I	6	1,000	2,411	2,311 U
96	0605790D Small Business Innovative Research Administration	6	1,461	1,511	1,628 U
97	0605798S Defense Support Activities	6	14,653	16,912	13,796 U
98	0605801S Defense Technical Information Center	6	42,684	40,086	45,238 U
99	0605898E Management Headquarters (Research and Development	6	29,921	34,099	36,369 U
100	0909900E Financing for Expired Account Adjustments	6	3,726		U
RDT&E Management Support					
101	0201135J CINC C2 Initiatives	7	1,456		U
102	0208045K C3 Interoperability (Joint Tactical C3 Agency)	7	32,451	23,192	24,268 U
103	0301011G Cryptologic Activities	7			
104	0301301L General Defense Intelligence Program	7			
105	0301308L Missile Intelligence Agency	7			
106	0302016K National Military Command System-Wide Support	7	3,536	1,995	2,047 U
107	0302019K Joint/Defense Information Systems Engineering and	7	9,774	3,745	4,594 U
108	0303126K Long-Haul Communications (DCS)	7	27,166	20,060	23,361 U
109	0303127K Support of the National Communications System	7	4,229	3,733	3,910 U
110	0303129K Defense Message System	7			2,532 U
			419,539	337,143	224,122

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Ballistic Missile Defense Organization  
 FY 1997 R D T & E Program

Exhibit R-1

Date: MAR 1996

Appropriation: 0400 D Research Development Test & Eval Defwide

Line No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars						
7	0602173C	Support Technologies/Follow-on Technologies	2	80,948	89,230	94,023 U
		Applied Research		80,948	89,230	94,023
25	0603173C	Support Technologies/Follow-on Technologies -	3	126,585	125,537	132,319 U
		Advanced Technology Development		126,585	125,537	132,319
64	0603861C	Theater High-Altitude Area Defense System - TMD -	4	452,384	554,755	269,000 U
65	0603862C	Theater Missile Defense Ground Based Radar (GBR-	4	169,993		U
66	0603863C	HAWK Upgrades Theater Missile Defense Acquisition	4	26,800	22,312	U
67	0603864C	Battle Management and C4I for TMD Acquisition -	4	19,893	23,160	U
68	0603867C	Navy Lower Tier TMD Acquisition - Dem/Val	4	139,834	187,258	60,000 U
69	0603868C	Navy Upper Tier TMD - Dem/Val	4	75,000	194,565	58,171 U
70	0603869C	CORPS Surface-to-Air Missile - TMD - Dem/Val	4	14,223	19,675	56,232 U
71	0603870C	Boost Phase Intercept Theater Missile Defense	4	40,610		U
72	0603871C	National Missile Defense - Dem/Val	4	387,105	720,750	508,437 U
73	0603872C	Other Theater Missile Defense/Follow-on TMD	4	408,520	421,185	520,111 U
		Demonstration and Validation		1,734,362	2,143,660	1,471,951
78	0604861C	Theater High-Altitude Area Defense System - TMD -	5			212,798 U
79	0604864C	Battle Management and C4I for TMD Acquisition -	5		13,885	U
80	0604865C	Patriot PAC-3 Theater Missile Defense Acquisition	5	275,450	363,008	381,509 U

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Ballistic Missile Defense Organization  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c
81	0604866C	ERINT/Patriot PAC-3 Risk Reduction - TMD - EMD	5	69,328	18,967	U
82	0604867C	Navy Lower Tier TMD Acquisition - EMD	5	95,732	241,582	U
		Engineering and Manufacturing Development		344,778	835,889	
92	0605218C	Ballistic Missile Defense RDT&E Program	6	157,359	146,530	U
		RDT&E Management Support		157,359		
Total Ballistic Missile Defense Organization				2,444,032	2,996,549	2,534,182

Thousands of Dollars

## **Preface**

**The R. D. T. & E. Programs (R-1) exhibit is derived from and consistent with the DoD Future Years Defense Program R. D. T. & E. Annex data base.**

**The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal by the President of the Budget of the United States Government. This document is also provided to OASD(PA) for use by non-DoD activities.**

**Office of the Under Secretary of Defense (Comptroller)**

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**TABLE OF CONTENTS**

**PAGE**

<b><u>DoD Component Summary</u></b>	
<b><u>Army</u></b>	
Army Summary	A-I
Army R-1 Detail	A-1 through A-10
<b><u>Navy</u></b>	
Navy Summary	N-I
Navy R-1 Detail	N-1 through N-10
<b><u>Air Force</u></b>	
Air Force Summary	F-I
Air Force R-1 Detail	F-1 through F-11
<b><u>Defense Agencies</u></b>	
Defensewide Summary	D-I & D-II
Defensewide R-1 Detail	D-1 through D-8
Director, Test and Evaluation Summary	D-9
Director, Test and Evaluation R-1 Detail	D-10
Director, Operational Test and Evaluation Summary	D-11
Director, Operational Test and Evaluation R-1 Detail	D-12
Individual Defense Agency R-1 Detail	D-13 through D-32

**UNCLASSIFIED**

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Department of Defense  
 FY 1997 R D T & E Program

Exhibit R-1

Summary

Date: MAR 1996

Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary By Appropriation			
Research Development Test & Eval Army	5,403,477	4,738,172	4,320,640
Research Development Test & Eval Navy	8,606,317	8,419,734	7,334,734
Research Development Test & Eval AF	11,583,999	12,677,976	14,417,456
Research Development Test & Eval Defwide	8,603,472	9,036,124	8,398,836
Director of Test & Eval Defense	234,342	247,082	252,038
Director of Operational Test & Evaluation	22,962	22,587	21,968
Total Research, Development, Test & Evaluation	34,454,569	35,141,675	34,745,672

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Demonstration and Validation	4,403,490	4,987,989	4,570,958
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RDT&E Management Support	3,697,794	3,352,067	2,907,665
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Department of the Army  
 FY 1997 R D T & E Program

Exhibit R-1

Summary  
 Date: MAR 1996  
 Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
Basic Research	213,912	187,109	203,671
Applied Research	598,986	446,230	447,605
Advanced Technology Development	747,283	585,429	448,765
Demonstration and Validation	445,874	459,550	485,129
Engineering and Manufacturing Development	1,563,371	1,156,935	1,063,776
RDT&E Management Support	1,273,465	1,172,702	1,029,544
Operational Systems Development	560,586	730,217	642,150
Total Research Development Test & Eval Army	5,403,477	4,738,172	4,320,640

	FY 1995	FY 1996	FY 1997
Summary Recap of FYDP Programs			
Strategic Forces		12,993	38,940
General Purpose Forces	419,545	552,171	447,783
Intelligence and Communications	83,227	66,523	74,314
Research and Development (FYDP Program 6)	4,900,077	4,078,558	3,742,761
Central Supply and Maintenance		27,927	16,842
Administration and Assoc Activities	628		
Total Research Development Test & Eval Army	5,403,477	4,738,172	4,320,640

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Department of the Army  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 2040 A Research Development Test & Eval Army

Date: MAR 1996

Line Element No	Program Number	Item	Act	FY 1995	FY 1996	FY 1997
Thousands of Dollars						
1	0601101A	In-House Laboratory Independent Research	1	12,826	13,950	14,701 U
2	0601102A	Defense Research Sciences	1	192,833	124,742	141,682 U
3	0601104A	University and Industry Research Centers	1	8,253	48,417	47,288 U
Basic Research						
4	0602104A	TRACTOR ROSE	2	7,256	2,546	2,131 U
5	0602105A	Materials Technology	2	19,768	9,901	10,841 U
6	0602120A	Sensors and Electronic Survivability	2	25,877	26,952	23,608 U
7	0602122A	TRACTOR HIP	2	10,972	5,725	8,152 U
8	0602211A	Aviation Technology	2	19,501	17,970	24,683 U
9	0602270A	EW Technology	2	17,794	14,786	15,845 U
10	0602303A	Missile Technology	2	23,327	17,500	20,295 U
11	0602308A	Modeling and Simulation Technology	2	51,371	19,967	21,134 U
12	0602601A	Combat Vehicle and Automotive Technology	2	32,243	38,128	34,834 U
13	0602618A	Ballistics Technology	2	25,304	33,045	31,166 U
14	0602622A	Chemical, Smoke and Equipment Defeating Technology	2	30,697	1,760	2,343 U
15	0602623A	Joint Service Small Arms Program	2	5,531	4,975	4,593 U
16	0602624A	Weapons and Munitions Technology	2	34,992	23,295	25,611 U
17	0602705A	Electronics and Electronic Devices	2	23,317	19,928	20,922 U
18	0602709A	Night Vision Technology	2	18,956	16,624	16,994 U

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Department of the Army  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 2040 A Research Development Test & Eval Army Date: MAR 1996

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c
19	0602712A	Countermine Systems	2			6,029 U
20	0602716A	Human Factors Engineering Technology	2	13,834	15,600	14,072 U
21	0602720A	Environmental Quality Technology	2	41,145	25,977	19,457 U
22	0602782A	Command, Control, Communications Technology	2	16,451	13,204	15,307 U
23	0602783A	Computer and Software Technology	2	4,366	3,883	6,638 U
24	0602784A	Military Engineering Technology	2	39,406	34,260	37,898 U
25	0602785A	Manpower/Personnel/Training Technology	2	9,761	7,298	9,528 U
26	0602786A	Logistics Technology	2	33,204	27,260	17,808 U
27	0602787A	Medical Technology	2	91,279	63,539	55,490 U
28	0602788A	TRACTOR FLOP	2	401		U
29	0602789A	ARMY Artificial Intelligence Technology	2	2,233	2,107	2,226 U
		Applied Research		598,986	446,230	447,605
30	0603001A	Logistics Advanced Technology	3	16,019	37,654	23,210 U
31	0603002A	Medical Advanced Technology	3	232,721	92,926	11,601 U
32	0603003A	Aviation Advanced Technology	3	51,246	55,051	41,478 U
33	0603004A	Weapons and Munitions Advanced Technology	3	30,975	26,760	19,759 U
34	0603005A	Combat Vehicle and Automotive Advanced Technology	3	60,381	27,401	31,552 U
35	0603006A	Command, Control, Communications Advanced	3	16,293	21,806	23,120 U
36	0603007A	Manpower, Personnel and Training Advanced	3	4,821	4,696	4,500 U

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Department of the Army  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 2040 A Research Development Test & Eval Army Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997
Thousands of Dollars					
37	0603009A TRACTOR HIKE	3	5,141	23,915	17,176 U
38	0603012A TRACTOR HOLE	3	6,652		U
39	0603013A TRACTOR DIRT	3	1,586	1,757	3,335 U
40	0603017A TRACTOR RED	3	9,653	5,508	5,125 U
41	0603020A TRACTOR ROSE	3	6,173	4,390	5,078 U
42	0603105A Military HIV Research	3	28,257	2,866	2,919 U
43	0603122A TRACTOR HIP	3	3,374		U
44	0603238A Global Surveillance/Air Defense/Precision Strike	3	39,951	37,279	40,258 U
45	0603270A EW Technology	3	6,518	3,912	6,794 U
46	0603313A Missile and Rocket Advanced Technology	3	66,836	115,657	90,037 U
47	0603322A TRACTOR CAGE	3	16,668	8,297	8,851 U
48	0603606A Landmine Warfare and Barrier Advanced Technology	3	20,505	24,087	15,196 U
49	0603607A Joint Service Small Arms Program	3	6,908	4,365	5,243 U
50	0603654A Line-Of-Sight Technology Demonstration	3	8,575	14,324	18,173 U
51	0603710A Night Vision Advanced Technology	3	31,932	32,882	32,597 U
52	0603734A Military Engineering Advanced Technology	3	10,802	12,041	20,664 U
53	0603759A Chemical Biological Defense and Smoke Advanced	3	189		U
54	0603771A Industrial Preparedness Manufacturing Technology	3	31,942		U
55	0603772A Advanced Tactical Computer Science and Sensor	3	33,165	27,855	22,099 U
Advanced Technology Development			747,283	585,429	448,765

UNCLASSIFIED

UNCLASSIFIED

Department of the Army  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 2040 A Research Development Test & Eval Army Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
----- Thousands of Dollars -----					
56	0603018A TRACTOR TREAD	4	16,010	14,518	2,409 U
57	0603019A TRACTOR DUMP	4	16,246		U
58	0603308A Army Missile Defense Systems Integration (Dem/Val	4		23,329	2,884 U
59	0603619A Landmine Warfare and Barrier - Adv Dev	4	23,378	31,942	16,464 U
60	0603627A Smoke, Obscurant and Target Defeating Sys-Adv Dev	4	3,077	3,160	6,380 U
61	0603639A Armament Enhancement Initiative	4	32,409	59,799	48,221 U
62	0603640A Artillery Propellant Development	4	24,638	21,347	18,450 U
63	0603645A Armored System Modernization - Adv Dev	4	168,827	186,252	U
64	0603647A TRACTOR DIRT	4	402		U
65	0603649A Engineer Mobility Equipment Advanced Development	4	15,414	9,839	U
66	0603653A Advanced Tank Armament System (ATAS)	4	4,773	9,683	9,639 U
67	0603713A Army Data Distribution System	4	5,279	6,476	23,822 U
68	0603730A Tactical Surveillance System - Adv Dev	4	11,481		U
69	0603745A Tactical Electronic Support Systems - Adv Dev	4	1,659	5,776	2,025 U
70	0603747A Soldier Support and Survivability	4	12,189	7,698	6,680 U
71	0603760A Distributive Interactive Simulations (DIS) -	4	8,063		U
72	0603766A Tactical Electronic Surveillance System - Adv Dev	4	14,519	27,460	26,060 U
73	0603774A Night Vision Systems Advanced Development	4	3,145	2,879	2,829 U
74	0603790A NATO Research and Development	4			9,963 U
75	0603801A Aviation - Adv Dev	4	16,309	14,035	8,385 U

UNCLASSIFIED

UNCLASSIFIED

Department of the Army  
 FY 1997 R D T & E Program  
 Exhibit R-1

Appropriation: 2040 A Research Development Test & Eval Army  
 Date: MAR 1996

Line Element No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
76	0603802A	Weapons and Munitions - Adv Dev	4	1,220	973		U
77	0603804A	Logistics and Engineer Equipment - Adv Dev	4	14,399	7,224		7,592 U
78	0603805A	Combat Service Support Control System Evaluation	4	18,462	13,555		13,140 U
79	0603806A	NBC Defense System-Adv Dev	4	15,915			U
80	0603807A	Medical Systems - Adv Dev	4	14,960	10,288		10,211 U
81	0603851A	TRACTOR CAGE (Dem/Val)	4		3,317		3,124 U
82	0603854A	Artillery Systems - Dem/Val	4				258,771 U
83	0603856A	SCAMP Block II Dem/Val	4				8,080 U
84	0603889A	Counterdrug RDT&E Projects	4	3,100			U
Demonstration and Validation							
85	0604201A	Aircraft Avionics	5	445,874	459,550		485,129
86	0604220A	Armed, Deployable OH-58D	5	14,059	21,442		15,008 U
87	0604223A	Comanche	5	474,912	706		1,154 U
88	0604270A	EW Development	5	90,925	290,936		288,644 U
89	0604315A	Tri-Service Standoff Attack Missile	5	1,156	63,442		69,474 U
90	0604321A	All Source Analysis System	5	41,059	51,168		36,200 U
91	0604325A	Follow-on to TOW	5		968		5,596 U
92	0604328A	TRACTOR CAGE	5				1,561 U
93	0604604A	Medium Tactical Vehicles	5	4,292	1,459		U

## UNCLASSIFIED

Department of the Army  
FY 1997 R D T & E Program

Exhibit R-1

Date: MAR 1996

Appropriation: 2040 A Research Development Test &amp; Eval Army

Line Element No	Program Number	Item	Act	FY 1995	FY 1996	FY 1997 C
94	0604609A	Smoke, Obscurant and Target Defeating Sys-Eng Dev	5	5,612	1,945	U
95	0604611A	JAVELIN	5	29,550	973	1,643 U
96	0604619A	Landmine Warfare	5	30,175	30,179	17,609 U
97	0604622A	Family of Heavy Tactical Vehicles	5		2,672	U
98	0604633A	Air Traffic Control	5	11,103	1,764	5,549 U
99	0604640A	Advanced Command and Control Vehicle (AC2V)	5	32,370	17,739	6,649 U
100	0604641A	Tactical Unmanned Ground Vehicle (TUGV)	5			2,884 U
101	0604642A	Light Tactical Wheeled Vehicles	5		4,073	U
102	0604645A	Armored Systems Modernization (ASM)-Eng. Dev.	5	60,852	38,973	6,726 U
103	0604649A	Engineer Mobility Equipment Development	5	15,167	23,763	35,410 U
104	0604710A	Night Vision Systems - Eng Dev	5	41,162	38,613	33,637 U
105	0604713A	Combat Feeding, Clothing, and Equipment	5	23,355	17,472	78,063 U
106	0604715A	Non-System Training Devices - Eng Dev	5	47,886	50,878	42,865 U
107	0604716A	Terrain Information - Eng Dev	5	9,999	8,728	7,369 U
108	0604739A	Integrated Broadcast Service	5			4,867 U
109	0604740A	Tactical Surveillance System - Eng Dev	5	2,049	2,918	U
110	0604741A	Air Defense Command, Control and Intelligence -	5	29,071	20,249	20,516 U
111	0604746A	Automatic Test Equipment Development	5	16,785	15,015	2,793 U
112	0604760A	Distributive Interactive Simulations (DIS) -	5	2,279		15,966 U
113	0604766A	Tactical Exploitation of National Capabilities -	5	28,246	23,861	15,758 U

Thousands of Dollars

UNCLASSIFIED

Page A-6

UNCLASSIFIED

Department of the Army  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 2040 A Research Development Test & Eval Army Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars					
114	0604768A Brilliant Anti-Armor Submunition (BAT)	5	115,088	194,831	180,407 U
115	0604770A Joint Surveillance/Target Attack Radar System	5	37,789	27,480	9,857 U
116	0604778A Positioning Systems Development (SPACE)	5	3,336	448	437 U
117	0604780A Combined Arms Tactical Trainer (CATT)	5	50,293	57,742	26,713 U
118	0604801A Aviation - Eng Dev	5	4,614	5,002	5,518 U
119	0604802A Weapons and Munitions - Eng Dev	5	14,006	17,535	20,468 U
120	0604804A Logistics and Engineer Equipment - Eng Dev	5	19,804	20,188	20,330 U
121	0604805A Command, Control, Communications Systems - Eng De	5	11,751	13,063	9,796 U
122	0604806A NBC Defense System-Eng Dev	5	15,106		U
123	0604807A Medical Materiel/Medical Biological Defense	5	12,458	4,608	4,794 U
124	0604808A Landmine Warfare/Barrier - Eng Dev	5	7,077	6,977	19,731 U
125	0604814A Sense and Destroy Armament Missile - Eng Dev	5	40,475	16,164	10,149 U
126	0604816A LONGBOW - Eng Dev	5	169,582	22,945	5,872 U
127	0604817A Combat Identification	5	20,205	21,853	16,783 U
128	0604818A Army Tactical Command & Control Hardware &	5	18,338	18,163	16,429 U
129	0604820A Radar Development	5	11,385		U
130	0604823A Firefinder	5			551 U
	Engineering and Manufacturing Development		1,563,371	1,156,935	1,063,776
131	0604256A Threat Simulator Development	6	19,437	14,005	11,627 U

## UNCLASSIFIED

Department of the Army  
 FY 1997 R D T & E Program

Exhibit R-1

Date: MAR 1996

Appropriation: 2040 A Research Development Test &amp; Eval Army

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c	U
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Thousands of Dollars						
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132	0604258A Target Systems Development	6	13,679	13,900	10,129	U
133	0604759A Major T&E Investment	6	48,797	65,049	41,725	U
134	0605103A Rand Arroyo Center	6	15,505	18,356	21,763	U
135	0605104A Los Alamos Meson Physics Facility	6	19,314			U
136	0605301A Army Kwajalein Atoll	6	157,420	144,439	136,864	U
137	0605502A Small Business Innovative Research	6	95,306			U
138	0605601A Army Test Ranges and Facilities	6	153,336	143,347	133,012	U
139	0605602A Army Technical Test Instrumentation and Targets	6	30,558	26,846	22,413	U
140	0605604A Survivability/Lethality Analysis	6	37,065	33,595	31,343	U
141	0605605A DOD High Energy Laser Test Facility	6	23,961	34,043	2,967	U
142	0605606A Aircraft Certification	6		2,894	2,905	U
143	0605702A Meteorological Support to RDT&E Activities	6	12,242	6,480	6,484	U
144	0605706A Materiel Systems Analysis	6	18,769	17,382	14,428	U
145	0605709A Exploitation of Foreign Items	6	12,391	8,627	7,347	U
146	0605710A Joint Nuclear Biological Chemical Test,	6	4,407			U
147	0605712A Support of Operational Testing	6	30,543	45,180	50,906	U
148	0605801A Programwide Activities	6	94,119	61,913	61,092	U
149	0605802A International Cooperative Research and Developmen	6	1,581	1,561	1,566	U
150	0605803A Technical Information Activities	6	14,039	13,420	16,921	U
151	0605805A Munitions Standardization, Effectiveness and	6	14,015	17,608	2,282	U

UNCLASSIFIED

Department of the Army  
 FY 1997 R D T & E Program

Exhibit R-1

Date: MAR 1996

Appropriation: 2040 A Research Development Test & Eval Army

Thousands of Dollars

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997	e c
152	0605810A	RDT&E Support for Nondevelopmental Items	6	3,020			U
153	0605853A	Environmental Conservation	6		2,464	1,759	U
154	0605854A	Pollution Prevention	6		12,652	13,894	U
155	0605856A	Environmental Compliance	6	49,973	64,349	53,911	U
156	0605876A	Minor Construction (RPM) - RDT&E	6	5,569	5,347	4,319	U
157	0605878A	Maintenance and Repair (RPM) - RDT&E	6	79,302	93,089	66,047	U
158	0605879A	Real Property Services (RPS) - RDT&E	6			92,390	U
159	0605896A	Base Operations - RDT&E	6	294,085	310,822	216,649	U
160	0605898A	Management Headquarters (Research and Development)	6	24,404	15,334	4,801	U
161	0909999A	Financing for Cancelled Account Adjustments	6	628			U
		RDT&E Management Support		1,273,465	1,172,702	1,029,544	
162	0603778A	MLRS Product Improvement Program	7	57,814	70,603	64,271	U
163	0102419A	Aerostat Joint Project Office	7		12,993	38,940	U
164	0203726A	Adv Field Artillery Tactical Data System	7	50,737	35,420	39,497	U
165	0203735A	Combat Vehicle Improvement Programs	7	107,205	209,131	197,796	U
166	0203740A	Maneuver Control System	7	36,657	49,528	29,082	U
167	0203744A	Aircraft Modifications/Product Improvement	7	4,538	2,262	194	U
168	0203752A	Aircraft Engine Component Improvement Program	7	3,123	3,999	2,947	U
169	0203758A	Digitization	7	84,738	99,103	110,180	U

UNCLASSIFIED

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Department of the Army  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 2040 A Research Development Test & Eval Army Date: MAR 1996

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c
170	0203801A	Missile/Air Defense Product Improvement Program	7	35,890	63,057	30,959 U
171	0203802A	Other Missile Product Improvement Programs	7	62,176	63,709	6,199 U
172	0203806A	TRACTOR RUT	7	2,594	3,122	3,179 U
173	0203808A	TRACTOR CARD	7	13,084	9,868	6,933 U
174	0208010A	Joint Tactical Communications Program (TRI-TAC)	7	18,803	12,972	18,693 U
175	0208053A	Joint Tactical Ground System	7			2,124 U
176	0301359A	Special Army Program	7	6,866	8,538	10,185 U
177	0303140A	Information Systems Security Program	7	7,426	3,623	3,161 U
178	0303142A	SATCOM Ground Environment (SPACE)	7	68,935	54,362	40,677 U
179	0303150A	WWMCCS/Global Command and Control System	7			19,804 U
180	0305128A	Security and Investigative Activities	7			487 U
181	0708045A	End Item Industrial Preparedness Activities	7		27,927	16,842 U
Operational Systems Development				560,586	730,217	642,150
Total Research Development Test & Eval Army				5,403,477	4,738,172	4,320,640

UNCLASSIFIED

Department of the Navy  
 FY 1997 R D T & E Program

Exhibit R-1

Summary  
 Date: MAR 1996  
 Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
Basic Research	408,284	377,012	387,213
Applied Research	501,603	541,372	463,465
Advanced Technology Development	481,104	444,730	449,342
Demonstration and Validation	1,582,957	1,716,612	1,740,955
Engineering and Manufacturing Development	2,213,031	2,395,815	2,048,657
RDT&E Management Support	776,356	573,381	558,440
Operational Systems Development	2,642,982	2,370,812	1,686,662
Total Research Development Test & Eval Navy	8,606,317	8,419,734	7,334,734
Summary Recap of FYDP Programs			
Strategic Forces	135,302	91,599	71,047
General Purpose Forces	1,885,790	1,541,369	1,011,397
Intelligence and Communications	621,890	652,616	568,692
Research and Development (FYDP Program 6)	5,957,636	6,048,922	5,648,072
Central Supply and Maintenance		85,228	35,526
Administration and Assoc Activities	5,699		
Total Research Development Test & Eval Navy	8,606,317	8,419,734	7,334,734

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Department of the Navy  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars					
1	0601152N In-House Independent Laboratory Research	1	16,970	15,390	15,309 U
2	0601153N Defense Research Sciences	1	391,314	361,622	371,904 U
Basic Research					
3	0602111N Surface/Aerospace Surveillance and Weapons	2	34,213	42,313	26,312 U
4	0602121N Surface Ship Technology	2	36,928	60,923	35,591 U
5	0602122N Aircraft Technology	2	25,687	29,792	20,578 U
6	0602131M Marine Corps Landing Force Technology	2	16,749	16,917	17,093 U
7	0602232N Command, Control, and Communications Technology	2	61,005	58,186	56,159 U
8	0602233N Readiness, Training, and Environmental Quality	2	47,890	47,676	40,828 U
9	0602234N Materials, Electronics and Computer Technology	2	92,142	75,933	75,886 U
10	0602270N Electronic Warfare Technology	2	16,866	17,778	22,454 U
11	0602314N Undersea Surveillance Weapon Technology	2	49,128	55,226	49,580 U
12	0602315N Mine Countermeasures, Mining and Special Warfare	2	36,932	46,894	40,534 U
13	0602435N Oceanographic and Atmospheric Technology	2	51,423	56,576	44,559 U
14	0602633N Undersea Warfare Weaponry Technology	2	32,640	33,158	33,891 U
Applied Research					
15	0603217N Air Systems and Weapons Advanced Technology	3	20,891	35,096	29,315 U
16	0603238N Precision Strike and Air Defense	3	36,665	62,418	55,560 U
17	0603270N Advanced Electronic Warfare Technology	3	14,079	13,865	15,085 U

Department of the Navy  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy

Date: MAR 1996

Thousands of Dollars

Line Element No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
18	0603508N	Ship Propulsion System	3	17,609	17,292	28,557 U
19	0603640M	Marine Corps Advanced Technology Demonstration	3	24,324	24,973	24,212 U
20	0603706N	Medical Development	3	55,820	60,680	37,342 U
21	0603707N	Manpower, Personnel and Training Adv Tech Dev	3	18,450	17,260	19,273 U
22	0603712N	Environmental Quality and Logistics Advanced	3	21,446	24,139	19,970 U
23	0603747N	Undersea Warfare Advanced Technology	3	60,687	45,794	43,583 U
24	0603771N	Industrial Preparedness Manufacturing Technology	3	79,628		U
25	0603782N	Shallow Water MCM Demos	3	41,890	39,002	42,753 U
26	0603792N	Advanced Technology Transition	3	70,003	78,502	104,424 U
27	0603794N	C3 Advanced Technology	3	19,612	25,709	29,268 U
		Advanced Technology Development		481,104	444,730	449,342
28	0603207N	Air/Ocean Tactical Applications	4	16,509	19,214	16,519 U
29	0603208N	Training System Aircraft	4	4,310	2,977	2,405 U
30	0603216N	Aviation Survivability	4	15,901	15,875	6,313 U
31	0603254N	ASW Systems Development	4	29,373	29,216	19,473 U
32	0603261N	Tactical Airborne Reconnaissance	4	43,704	20,214	24,085 U
33	0603382N	Advanced Combat Systems Technology	4	2,804	2,687	3,858 U
34	0603451N	Tactical Space Operations	4	2,002	933	U
35	0603502N	Surface and Shallow Water Mine Countermeasures	4	43,734	54,367	86,995 U

UNCLASSIFIED

Department of the Navy  
 FY 1997 R D T & E Program  
 Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy  
 Date: MAR 1996

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 e
36	0603504N Advanced Submarine Combat Systems Development	4	22,863	27,207	19,149 U
37	0603506N Surface Ship Torpedo Defense	4	20,353	9,714	5,772 U
38	0603512N Carrier Systems Development	4	15,693	12,370	12,745 U
39	0603513N Shipboard System Component Development	4	25,640	16,280	9,948 U
40	0603514N Ship Combat Survivability	4	14,149	11,288	5,749 U
41	0603525N PILOT FISH	4	33,722	75,333	93,910 U
42	0603528N Non-Acoustic Anti-Submarine Warfare (ASW)	4		9,689	U
43	0603536N RETRACT JUNIPER	4	19,650	9,688	10,398 U
44	0603542N Radiological Control	4	3,442	3,104	2,886 U
45	0603553N Surface ASW	4	6,469	6,441	3,964 U
46	0603561N Advanced Submarine System Development	4	81,944	53,870	26,400 U
47	0603562N Submarine Tactical Warfare Systems	4	7,221	4,794	4,578 U
48	0603563N Ship Concept Advanced Design	4	28,484	52,044	13,807 U
49	0603564N Ship Preliminary Design & Feasibility Studies	4	30,311	9,210	12,942 U
50	0603570N Advanced Nuclear Power Systems	4	130,085	137,370	131,965 U
51	0603573N Advanced Surface Machinery Systems	4	78,026	80,256	59,773 U
52	0603576N CHALK EAGLE	4	57,825	109,739	149,679 U
53	0603582N Combat System Integration	4	9,298	5,246	3,879 U
54	0603609N Conventional Munitions	4	39,507	34,329	26,490 U
55	0603610N Advanced Warhead Development (MK-50)	4		2,900	1,329 U

## UNCLASSIFIED

Department of the Navy  
FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Date: MAR 1996

Line Element No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
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Thousands of Dollars						
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56	0603611M	Marine Corps Assault Vehicles	4	29,158	38,822	40,106 U
57	0603612M	Marine Corps Mine/Countermeasures Systems - Adv	4	4,540	1,722	592 U
58	0603635M	Marine Corps Ground Combat/Support System	4	26,170	49,338	44,891 U
59	0603654N	Joint Service Explosive Ordnance Development	4	8,362	7,072	4,639 U
60	0603709N	Advanced Marine Biological System	4	3,478		U
61	0603711N	Fleet Tactical Development	4	4,573	4,122	3,398 U
62	0603713N	Ocean Engineering Technology Development	4	14,047	4,982	8,606 U
63	0603721N	Environmental Protection	4	48,975	63,863	48,401 U
64	0603724N	Navy Energy Program	4	6,528	1,917	3,080 U
65	0603725N	Facilities Improvement	4	2,493	1,748	2,239 U
66	0603734N	CHALK CORAL	4	67,214	68,847	77,675 U
67	0603746N	RETRACT MAPLE	4	99,891	85,024	83,809 U
68	0603748N	LINK PLUMERIA	4	30,962	20,816	26,433 U
69	0603751N	RETRACT ELM	4	39,825	30,411	24,993 U
70	0603755N	Ship Self Defense	4	229,634	316,446	216,486 U
71	0603763N	Warfare Systems Architecture and Engineering	4	9,075		U
72	0603785N	Combat Systems Oceanographic Performance	4	19,637	15,511	13,650 U
73	0603787N	Special Processes	4	32,301	69,975	82,764 U
74	0603790N	NATO Research and Development	4			9,933 U
75	0603795N	Gun Weapon System Technology	4	18,862	32,958	42,204 U

UNCLASSIFIED

Page N-4

UNCLASSIFIED

Department of the Navy  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy

Date: MAR 1996

Line Element No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 C
Thousands of Dollars						
76	0603800N	Joint Advanced Strike Technology - Dem/Val	4	98,272	81,215	246,833 U
77	0604707N	Space and Electronic Warfare (SEW) Architecture/	4	5,941	5,468	5,212 U
Demonstration and Validation						
78	0603266N	AH-1T Composite Rotor Blade (H)	5	1,582,957	1,716,612	1,740,955
79	0604212N	Other Helo Development	5	89,009	75,376	40,132 U
80	0604214N	AV-8B Aircraft - Eng Dev	5	9,560	26,063	16,874 U
81	0604215N	Standards Development	5	16,102	10,212	24,698 U
82	0604217N	S-3 Weapon System Improvement	5	13,577	12,469	4,979 U
83	0604218N	Air/Ocean Equipment Engineering	5	5,299	5,928	5,631 U
84	0604221N	P-3 Modernization Program	5	4,994	16,414	2,074 U
85	0604231N	Tactical Command System	5	34,979	23,385	26,989 U
86	0604261N	Acoustic Search Sensors	5	18,416	9,353	12,141 U
87	0604262N	V-22A	5	452,669	733,728	576,792 U
88	0604264N	Air Crew Systems Development	5	13,994	16,953	11,089 U
89	0604265N	Air Launched Saturation System (ALSS)	5	2,500		U
90	0604270N	EW Development	5	94,355	91,742	78,748 U
91	0604301N	MK 92 Fire Control System Upgrade	5	1,692		U
92	0604307N	AEGIS Combat System Engineering	5	89,508	91,501	89,279 U
93	0604310N	Arsenal Ship	5			25,000 U

UNCLASSIFIED

Department of the Navy  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars					
94	0604311N LPD-17 Class Systems Integration	5			4,272 U
95	0604312N Tri-Service Standoff Attack Missile	5	31,860		U
96	0604366N Standard Missile Improvements	5	14,323	21,865	1,637 U
97	0604372N New Threat Upgrade	5	1,301		U
98	0604373N Airborne MCM	5	19,357	33,379	14,522 U
99	0604503N SSN-688 and Trident Modernization	5	40,641	67,691	61,395 U
100	0604504N Air Control	5	7,841	7,577	10,750 U
101	0604507N Enhanced Modular Signal Processor	5	11,541	14,377	3,718 U
102	0604512N Shipboard Aviation Systems	5	1,910	10,988	6,571 U
103	0604516N Ship Survivability	5	8,521	4,755	6,832 U
104	0604518N Combat Information Center Conversion	5	13,172	15,359	10,280 U
105	0604524N Submarine Combat System	5	84,681	41,831	18,952 U
106	0604558N New Design SSN	5	228,839	336,014	394,000 U
107	0604561N SSN-21 Developments	5	69,160	80,819	91,931 U
108	0604562N Submarine Tactical Warfare System	5	20,277	37,269	22,899 U
109	0604567N Ship Contract Design/ Live Fire T&E	5	152,254	17,433	7,221 U
110	0604574N Navy Tactical Computer Resources	5	16,640	14,670	5,237 U
111	0604601N Mine Development	5	3,161	2,951	2,505 U
112	0604603N Unguided Conventional Air-Launched Weapons	5	73,406	51,833	22,322 U
113	0604610N Lightweight Torpedo Development	5	10,754	21,336	15,019 U

## UNCLASSIFIED

Department of the Navy  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy

Date: MAR 1996

Program Line Element No Number	Item	Act	FY 1995	FY 1996	FY 1997 c
114	0604612M Marine Corps Mine Countermeasures Systems - Eng	5	1,465	930	5,742 U
115	0604618N Joint Direct Attack Munition	5	24,021	29,568	35,130 U
116	0604654N Joint Service Explosive Ordnance Development	5	6,242	5,240	7,346 U
117	0604703N Personnel, Training, Simulation, and Human Factor	5	1,117	1,013	1,013 U
118	0604710N Navy Energy Program	5	3,156	2,548	1,983 U
119	0604719M Marine Corps Command/Control/Communications	5	8,061	9,946	U
120	0604721N Battle Group Passive Horizon Extension System	5	14,668	10,639	3,704 U
121	0604727N Joint Standoff Weapon Systems	5	114,396	79,259	86,266 U
122	0604755N Ship Self Defense	5	208,995	200,324	134,677 U
123	0604761N Intelligence Engineering	5	3,941	U	U
124	0604771N Medical Development	5	1,681	3,297	3,148 U
125	0604777N Navigation/ID System	5	67,091	48,398	46,885 U
126	0604784N Distributed Surveillance System	5	101,904	100,119	35,194 U
	Engineering and Manufacturing Development		2,213,031	2,395,815	2,048,657
127	0604256N Threat Simulator Development	6	31,611	28,991	23,536 U
128	0604258N Target Systems Development	6	26,636	23,582	31,120 U
129	0604759N Major T&E Investment	6	55,809	49,027	40,612 U
130	0605152N Studies and Analysis Support - Navy	6	6,667	6,778	7,174 U
131	0605154N Center for Naval Analyses	6	43,348	43,062	42,251 U

UNCLASSIFIED

Page N-7

UNCLASSIFIED

Department of the Navy  
FY 1997 RDT & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy

Date: MAR 1996

Thousands of Dollars

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 C
132	0605155N	Fleet Tactical Development	6	4,332	2,522	2,998 U
133	0605502N	Small Business Innovative Research	6	112,753		U
134	0605804N	Technical Information Services	6	4,955	1,965	1,725 U
135	0605853N	Management, Technical & International Support	6	9,366	17,978	20,905 U
136	0605856N	Strategic Technical Support	6	2,213	2,903	2,059 U
137	0605861N	RDT&E Science and Technology Management	6	61,975	59,134	58,348 U
138	0605862N	RDT&E Instrumentation Modernization	6	12,551	11,516	6,196 U
139	0605863N	RDT&E Ship and Aircraft Support	6	80,524	59,915	50,348 U
140	0605864N	Test and Evaluation Support	6	285,756	236,390	242,891 U
141	0605865N	Operational Test and Evaluation Capability	6	8,147	6,040	5,999 U
142	0605866N	Navy Space and Electronic Warfare (SEW) Support	6	4,245	3,028	2,868 U
143	0605867N	SEW Surveillance/Reconnaissance Support	6	11,541	11,727	11,986 U
144	0605871M	Marine Corps Tactical Exploitation of National	6	925	2,891	U
145	0605873M	Marine Corps Program Wide Support	6	7,303	5,932	7,424 U
146	0909999N	Financing for Cancelled Account Adjustments	6	5,699		U
		RDT&E Management Support		776,356	573,381	558,440
147	0101221N	Strategic Sub & Weapons System Support	7	28,506	35,445	41,790 U
148	0101224N	SSBN Security Technology Program	7	33,508	29,107	21,340 U
149	0101226N	Submarine Acoustic Warfare Development	7	525	7,690	7,917 U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Navy  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test &amp; Eval Navy

Date: MAR 1996

Program Line Element No	Item	Act	Thousands of Dollars		S e
			FY 1995	FY 1996	
150	0101402N Navy Strategic Communications	7	72,763	19,357	U
151	0204136N F/A-18 Squadrons	7	1,306,742	887,429	425,333 U
152	0204152N E-2 Squadrons	7	47,707	60,961	65,025 U
153	0204163N Fleet Telecommunications (Tactical)	7	37,233	21,746	20,013 U
154	0204229N Tomahawk and Tomahawk Mission Planning Center	7	82,976	164,665	136,364 U
155	0204311N Integrated Surveillance System	7	41,194	31,448	14,033 U
156	0204413N Amphibious Tactical Support Units	7	4,592	4,229	1,548 U
157	0204571N Consolidated Training Systems Development	7	58,017	59,214	34,906 U
158	0204575N Electronic Warfare (EW) Readiness Support	7			1,651 U
159	0205601N HARM Improvement	7		3,247	3,348 U
160	0205604N Tactical Data Links	7	29,441	47,430	37,302 U
161	0205620N Surface ASW Combat System Integration	7	15,286	9,623	4,901 U
162	0205632N MK-48 ADCAP	7	26,703	21,516	12,772 U
163	0205633N Aviation Improvements	7	63,265	64,773	53,512 U
164	0205658N Navy Science Assistance Program	7	7,071	5,848	5,067 U
165	0205667N F-14 Upgrade	7	34,072	17,739	9,879 U
166	0205675N Operational Nuclear Power Systems	7	58,668	56,236	55,876 U
167	0206313M Marine Corps Communications Systems	7	7,485	6,421	56,687 U
168	0206623M Marine Corps Ground Combat/Supporting Arms System	7	17,324	14,789	7,280 U
169	0206624M Marine Corps Combat Services Support	7	2,998	7,249	5,211 U

UNCLASSIFIED

Page N-9

UNCLASSIFIED

Department of the Navy  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 1319 N Research Development Test & Eval Navy

Date: MAR 1996

Thousands of Dollars

Line Element No	Program Item	Act	FY 1995	FY 1996	FY 1997 c	
170	0206625M Marine Corps Intelligence/Electronics Warfare	7	10,164	6,448		U
171	0206626M Marine Corps Command/Control/Communications	7	19,149	17,241		U
172	0207161N Tactical AIM Missiles	7		28,787	58,415	U
173	0207163N Advanced Medium Range Air-to-Air Missile (AMRAAM)	7	15,703	4,330	2,274	U
174	0301303N Maritime Intelligence	7				
175	0301327N Technical Reconnaissance and Surveillance	7				
176	0303109N Satellite Communications (SPACE)	7	43,303	36,341	38,257	U
177	0303140N Information Systems Security Program	7	18,065	24,036	26,936	U
178	0304111N Special Activities	7				
179	0305154N Defense Airborne Reconnaissance Program	7				
180	0305160N Defense Meteorological Satellite Program (SPACE)	7	15,697	17,778	1,195	U
181	0305927N Naval Space Surveillance	7	805	729	706	U
182	0708011N Industrial Preparedness	7		85,228	35,526	U
	Operational Systems Development		2,642,982	2,370,812	1,686,662	
	Total Research Development Test & Eval Navy		8,606,317	8,419,734	7,334,734	

UNCLASSIFIED

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Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Date: MAR 1996

Summary

Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
Basic Research	224,978	229,188	234,475
Applied Research	642,738	639,589	638,476
Advanced Technology Development	538,334	492,231	426,521
Demonstration and Validation	426,150	488,041	727,684
Engineering and Manufacturing Development	4,455,747	4,521,876	4,677,932
RDTE Management Support	971,130	997,561	821,553
Operational Systems Development	4,324,922	5,309,490	6,890,815
Total Research Development Test & Eval AF	11,583,999	12,677,976	14,417,456
Summary Recap of FYDP Programs			
Strategic Forces	8,632	40,863	30,717
General Purpose Forces	1,176,280	1,155,211	1,438,684
Intelligence and Communications	2,956,117	3,784,237	5,451,893
Mobility Forces	19,749	22,165	95,930
Research and Development (FYDP Program 6)	7,384,314	7,581,392	7,318,413
Central Supply and Maintenance	29,688	79,271	70,382
Training Medical and Other	1,441	1,017	1,887
Administration and Assoc Activities	5,929	5,714	5,917
Support of Other Nations	1,849	8,106	3,633
Total Research Development Test & Eval AF	11,583,999	12,677,976	14,417,456

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Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF Date: MAR 1996

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c
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Thousands of Dollars						
-----						
1	0601102F	Defense Research Sciences	1	224,978	229,188	234,475 U
-----						
	Basic Research			224,978	229,188	234,475
-----						
2	0602102F	Materials	2	65,336	71,683	72,360 U
3	0602201F	Aerospace Flight Dynamics	2	56,755	60,947	65,080 U
4	0602202F	Armstrong Lab Exploratory Development	2	44,832	82,420	87,103 U
5	0602203F	Aerospace Propulsion	2	69,440	72,237	74,906 U
6	0602204F	Aerospace Avionics	2	63,330	65,789	71,261 U
7	0602205F	Personnel, Training and Simulation	2	31,487		U
8	0602206F	Civil Engineering and Environmental Quality	2	6,104		U
9	0602269F	Hypersonic Technology Program	2	18,496	18,448	7,471 U
10	0602601F	Phillips Lab Exploratory Development	2	154,804	131,733	121,107 U
11	0602602F	Conventional Munitions	2	41,504	43,276	42,573 U
12	0602702F	Command Control and Communications	2	90,650	93,056	96,615 U
-----						
	Applied Research			642,738	639,589	638,476
-----						
13	0603106F	Logistics Systems Technology	3	14,195	17,252	18,254 U
14	0603108F	Integrated Data Systems	3	8,340	14,404	18,232 U
15	0603112F	Advanced Materials for Weapon Systems	3	18,827	21,864	23,803 U
16	0603202F	Aerospace Propulsion Subsystems Integration	3	27,654	28,294	28,318 U
17	0603203F	Advanced Avionics for Aerospace Vehicles	3	26,329	30,577	28,691 U

## UNCLASSIFIED

Department of the Air Force  
FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: MAR 1996

Program Line Element No Number	Item	Act	FY 1995	FY 1996	FY 1997 c
-----S					
Thousands of Dollars					
-----e					
18	0603205F Flight Vehicle Technology	3	6,336	10,250	8,433 U
19	0603211F Aerospace Structures	3	11,339	12,615	10,423 U
20	0603216F Aerospace Propulsion and Power Technology	3	34,133	39,632	38,264 U
21	0603227F Personnel, Training and Simulation Technology	3	8,382	8,574	7,761 U
22	0603231F Crew Systems and Personnel Protection Technology	3	17,666	20,852	17,969 U
23	0603238F Global Surveillance and Communication Technology	3	1,883	2,383	2,293 U
24	0603245F Flight Vehicle Technology Integration	3	8,487	11,857	6,423 U
25	0603250F Lincoln Laboratory	3	11,126		U
26	0603253F Advanced Avionics Integration	3	15,772	16,749	15,488 U
27	0603270F Electronic Combat Technology	3	16,979	21,464	25,202 U
28	0603302F Space and Missile Rocket Propulsion	3	15,318	19,246	15,740 U
29	0603311F Ballistic Missile Technology	3	4,489	3,694	2,828 U
30	0603401F Advanced Spacecraft Technology	3	44,991	58,973	39,637 U
31	0603410F Space Systems Environmental Interactions	3	3,867	3,349	2,914 U
32	0603428F Space Subsystems Technology	3	7,536		U
33	0603601F Conventional Weapons Technology	3	28,710	32,455	24,885 U
34	0603605F Advanced Weapons Technology	3	87,120	71,603	41,895 U
35	0603707F Weather Systems Technology	3	4,778	4,414	3,406 U
36	0603723F Environmental Engineering Technology	3	9,126	8,478	7,885 U
37	0603726F C3I Subsystem Integration	3	8,214	11,404	8,777 U

UNCLASSIFIED

Page F-2

UNCLASSIFIED

Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997
-----S					
Thousands of Dollars					
-----e					
-----c					
38	0603728F Advanced Computing Technology	3	8,485	9,879	8,509 U
39	0603771F Industrial Preparedness Manufacturing Technology	3	78,274		U
40	0603789F C3 Advanced Development	3	9,978	11,969	10,895 U
41	0305176F Combat Survivor Evader Locator	3			9,596 U
-----					
	Advanced Technology Development		538,334	492,231	426,521
42	0603260F Intelligence Advanced Development	4	4,981	4,781	4,878 U
43	0603307F Air Base Operability Advanced Development	4	2,240		U
44	0603319F Airborne Laser Technology	4	19,086	18,986	56,828 U
45	0603402F Space Test Program (SPACE)	4	53,281		U
46	0603430F Advanced MILSATCOM (SPACE)	4	21,674	29,143	31,643 U
47	0603432F Polar Adjunct (SPACE)	4	14,999	55,615	62,387 U
48	0603434F National Polar-orbiting Operational Environmental	4	7,374	17,691	34,024 U
49	0603438F Satellite Systems Survivability	4	1,906		U
50	0603441F Space Based Infrared Architecture (SPACE) - Dem/	4	115,418	199,663	120,151 U
51	0603617F Command, Control, and Communication Applications	4	5,217	6,037	4,378 U
52	0603742F Combat Identification Technology	4	14,134	4,291	4,225 U
53	0603790F NATO Research and Development (H)	4			10,233 U
54	0603800F Joint Advanced Strike Technology - Dem/Val	4	83,780	81,154	263,836 U
55	0603851F Intercontinental Ballistic Missile - Dem/Val	4	48,182	19,533	30,644 U

UNCLASSIFIED

Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF Date: MAR 1996

Line No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
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Thousands of Dollars						
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56	0603852F	C-130J - Dem/Val	4	4,832		U
57	0603853F	Evolved Expendable Launch Vehicle Program (SPACE)	4	29,046	37,147	44,457 U
58	0603854F	Global Broadcast Service	4		14,000	45,000 U
59	0603855F	Space Architect Office	4			15,000 U
-----						
Demonstration and Validation						
60	0604201F	Aircraft Avionics Equipment Development	5	4,674	15,833	18,620 U
61	0604218F	Engine Model Derivative Program (EMDP)	5	739	721	705 U
62	0604222F	Nuclear Weapons Support	5	5,503	4,550	4,788 U
63	0604226F	B-1B	5	75,702	189,527	220,932 U
64	0604227F	Training Systems Development	5	13,669	8,349	4,439 U
65	0604231F	C-17 Program	5	184,419	69,968	U
66	0604233F	Specialized Undergraduate Pilot Training	5	36,274	58,999	84,291 U
67	0604237F	Variable Stability In-Flight Simulator Test	5	1,989		U
68	0604239F	F-22 EMD	5	2,280,555	2,164,897	2,002,959 U
69	0604240F	B-2 Advanced Technology Bomber	5	365,511	582,649	528,454 U
70	0604243F	Manpower, Personnel and Training Development	5	4,260	5,006	4,940 U
71	0604249F	Night/Precision Attack	5	16,760	8,978	U
72	0604268F	Aircraft Engine Component Improvement Program	5	92,376		U
73	0604270F	EW Development	5	97,732	47,066	104,423 U

UNCLASSIFIED

## UNCLASSIFIED

Department of the Air Force  
FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
-----S					
Thousands of Dollars					
-----e					
74	0604321F Combat Intelligence System -EMD	5	8,313	3,617	1,943 U
75	0604441F Space Based Infrared Architecture (SPACE) - EMD	5	112,981	162,276	173,290 U
76	0604479F Milstar LDR/MDR Satellite Communications (SPACE)	5	581,242	541,869	700,278 U
77	0604480F Global Positioning System Block IIF (SPACE)	5		18,656	37,142 U
78	0604600F Munitions Dispenser Development	5	26,318	50,088	56,229 U
79	0604601F Chemical/Biological Defense Equipment	5	7,318		U
80	0604602F Armament/Ordnance Development	5	18,100	7,597	3,642 U
81	0604604F Submunitions	5	3,534	14,350	4,873 U
82	0604609F R&M Maturation/Technology Insertion	5	8,569		U
83	0604617F Air Base Operability	5	5,432	9,077	2,926 U
84	0604618F Joint Direct Attack Munition	5	65,553	85,916	38,636 U
85	0604703F Aeromedical/Chemical Defense Systems	5	7,890	5,936	5,977 U
86	0604704F Common Support Equipment Development	5	1,383	1,118	U
87	0604706F Life Support Systems	5	4,868	3,809	4,363 U
88	0604708F Civil, Fire, Environmental, Shelter Engineering	5	3,086	2,598	2,736 U
89	0604711F Systems Survivability (Nuclear Effects)	5		36	36 U
90	0604727F Joint Standoff Weapons Systems	5	54,805	41,448	23,563 U
91	0604733F Surface Defense Suppression	5	4,751		U
92	0604735F Combat Training Ranges	5	13,664	9,739	23,018 U
93	0604740F Computer Resource Technology Transition (CRTT)	5	12,120	8,746	1,956 U

UNCLASSIFIED

Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 C
-----S					
Thousands of Dollars					
-----e					
94	0604750F Intelligence Equipment	5	2,553	1,255	1,211 U
95	0604754F Joint Tactical Information Distribution System	5	10,975	9,124	11,075 U
96	0604770F Joint Surveillance/Target Attack Radar System	5	166,278	165,002	207,284 U
97	0604779F Joint Interoperability of Tactical Command &	5	1,918	5,824	5,976 U
98	0604851F Intercontinental Ballistic Missile - EMD	5	140,565	180,911	198,595 U
99	0207325F Joint Air-to-Surface Standoff Missile (JASSM)	5		23,770	198,632 U
100	0303606F UHF Satellite Communications	5	13,368	12,571	U
-----					
	Engineering and Manufacturing Development		4,455,747	4,521,876	4,677,932
101	0603402F Space Test Program (SPACE)	6		45,032	44,752 U
102	0604256F Threat Simulator Development	6	38,900	55,113	43,635 U
103	0604258F Target Systems Development	6	7,336	5,055	4,966 U
104	0604759F Major T&E Investment	6	48,492	35,815	33,529 U
105	0605101F RAND Project Air Force	6	24,000	24,000	23,292 U
106	0605306F Ranch Hand II Epidemiology Study	6	3,156	3,025	9,212 U
107	0605502F Small Business Innovative Research (H)	6	164,836	174,855	U
108	0605704F Theater Air Defense BMC4I	6			12,496 U
109	0605708F Navigation/Radar/Sled Track Test Support	6	29,554	2,941	U
110	0605712F Initial Operational Test & Evaluation	6	30,504	23,806	26,921 U
111	0605807F Test and Evaluation Support	6	377,227	423,827	425,195 U

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Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
-----S					
Thousands of Dollars					
112	0605808F Development Planning	6	5,911	6,495	6,531 U
113	0605853F Environmental Conservation	6		4,055	10,870 U
114	0605854F Pollution Prevention	6		13,486	20,628 U
115	0605856F Environmental Compliance	6	42,375	25,692	22,698 U
116	0605860F Rocket Systems Launch Program (SPACE)	6		32,808	8,152 U
117	0605863F RDT&E Aircraft Support	6	34,826		U
118	0605876F Minor Construction (RPM) - RDT&E	6	3,531		U
119	0605878F Maintenance and Repair (RPM) - RDT&E	6	54,245		U
120	0605896F Base Operations - RDT&E	6	106,125	121,556	128,676 U
121	0909900F Financing for Expired Account Adjustments	6	112		U
-----					
	RDT&E Management Support		971,130	997,561	821,553
122	0603107F Technical Evaluation System	7			U
123	0603110F Special Evaluation System	7			U
124	0604268F Aircraft Engine Component Improvement Program	7		124,711	U
125	0101113F B-52 Squadrons	7		20,005	11,035 U
126	0101120F Advanced Cruise Missile	7		6,792	1,165 U
127	0102325F Joint Surveillance System	7	2,661	4,582	13,239 U
128	0102411F North Atlantic Defense System	7	3,980	8,502	5,278 U
129	0102412F North Warning System (NWS)	7	1,991	982	U

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Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF Date: MAR 1996

Line No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
			Thousands of Dollars			
130	0207129F	F-111 Squadrons	7	4,422	568	U
131	0207133F	F-16 Squadrons	7	133,227	164,230	142,202 U
132	0207134F	F-15E Squadrons	7	108,611	160,288	143,095 U
133	0207136F	Manned Destructive Suppression	7	36,233	10,354	12,384 U
134	0207141F	F-117A Squadrons	7		3,688	12,050 U
135	0207160F	Tri-Service Standoff Attack Missile	7	17,670		U
136	0207161F	Tactical AIM Missiles	7		18,982	36,382 U
137	0207163F	Advanced Medium Range Air-to-Air Missile (AMRAAM)	7	63,855	44,413	25,883 U
138	0207217F	Podded Reconnaissance System	7			6,714 U
139	0207247F	AF TENCAP	7	23,232	20,707	20,116 U
140	0207248F	Special Evaluation Program	7	121,059	82,188	53,495 U
141	0207268F	Aircraft Engine Component Improvement Program	7			99,050 U
142	0207320F	Sensor Fused Weapons	7	1,429		U
143	0207412F	Theater Air Control Systems	7	6,555	242	622 U
144	0207417F	Airborne Warning and Control System (AWACS)	7	81,493	90,722	57,559 U
145	0207419F	Tactical Airborne Command and Control Systems	7	2,619	1,931	342 U
146	0207422F	Deployable C3 Systems	7	2,527		U
147	0207423F	Advanced Communications Systems	7	444	1,842	1,822 U
148	0207424F	Evaluation and Analysis Program	7	67,784	72,762	85,521 U
149	0207431F	Combat Air Intelligence System Activities	7			7,749 U

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Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
-----S e -----					
Thousands of Dollars					
150	0207433F Advanced Program Technology	7	157,564	146,915	72,501 U
151	0207438F Theater Battle Management (TBM) C4I	7	28,476	27,844	30,915 U
152	0207579F Advanced Systems Improvements	7	119,946	60,843	U
153	0207590F Seek Eagle	7	15,449	16,394	15,469 U
154	0207591F Advanced Program Evaluation	7	127,422	143,064	198,327 U
155	0207601F USAF Wargaming and Simulation	7	14,656	18,794	19,361 U
156	0208006F Mission Planning Systems	7	13,851	19,068	18,500 U
157	0208021F Electronic Combat Support	7			
158	0208060F Theater Missile Defenses	7	26,215	24,230	22,285 U
159	0208160F Technical Evaluation System	7			114,603 U
160	0208161F Special Evaluation System	7			41,776 U
161	0301310F Foreign Technology Division	7			
162	0301313F Defense Dissemination Program	7			
163	0301315F Missile and Space Technical Collection	7			
164	0301324F FOREST GREEN	7			
165	0303110F Defense Satellite Communications System (SPACE)	7	14,187	31,077	24,527 U
166	0303131F Minimum Essential Emergency Communications	7	28,661	14,895	21,902 U
167	0303140F Information Systems Security Program	7	11,355	11,300	6,900 U
168	0303144F Electromagnetic Compatibility Analysis Center	7	9,163		7,667 U
169	0303152F World-Wide Military Command and Control Systems,	7	1,900		7,481 U

## UNCLASSIFIED

Department of the Air Force  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test & Eval AF

Date: MAR 1996

Program Line Element No Number	Item	Act	FY 1995	FY 1996	FY 1997 e c
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Thousands of Dollars					
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170	0303601F	7	17,664	40,969	26,962 U
	Millstar Satellite Communications System (SPACE)				
171	0303605F	7	1,702		U
	Satellite Communications Terminals				
172	0304111F	7			
	Special Activities				
173	0304311F	7			3,000 U
	Selected Activities				
174	0305110F	7	69,325	78,830	89,960 U
	Satellite Control Network (SPACE)				
175	0305111F	7	19,268	5,360	5,126 U
	Weather Service				
176	0305114F	7	6,933	3,719	3,870 U
	Air Traffic Control, Approach, and Landing System				
177	0305119F	7	19,717	20,683	13,368 U
	Medium Launch Vehicles (SPACE)				
178	0305128F	7	290		289 U
	Security and Investigative Activities				
179	0305137F	7	29,490	12,627	12,614 U
	National Airspace System (NAS) Plan				
180	0305138F	7	3,547	3,359	3,154 U
	Upper Stage Space Vehicles (SPACE)				
181	0305142F	7			
	Applied Technology and Integration				
182	0305144F	7	143,208	126,330	105,472 U
	Titan Space Launch Vehicles (SPACE)				
183	0305145F	7	2,653	954	26,786 U
	Arms Control Implementation				
184	0305158F	7	3,123	2,892	2,914 U
	CONSTANT SOURCE				
185	0305160F	7	18,599	19,913	17,964 U
	Defense Meteorological Satellite Program (SPACE)				
186	0305164F	7	13,781	16,460	32,450 U
	NAVSTAR Global Positioning System (User)				
187	0305165F	7	35,258	28,023	42,243 U
	NAVSTAR Global Positioning System (Space and				
188	0305172F	7			
	Combined Advanced Applications				
189	0305182F	7	38,492	48,279	35,704 U
	Eastern Space Launch Facility (ESLF) (SPACE)				

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Department of the Air Force  
FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 3600 F Research Development Test &amp; Eval AF

Date: MAR 1996

Line No	Program Element Number	Item	Act	Thousands of Dollars			S e
				FY 1995	FY 1996	FY 1997 c	
190	0305887F	Intelligence Support to Information Warfare	7	1,833			U
191	0305906F	NMC - TW/AA System	7	127,446	63,554	31,692	U
192	0305910F	SPACETRACK (SPACE)	7	40,724	54,705	18,867	U
193	0305911F	Defense Support Program (SPACE)	7	60,628	34,870	29,397	U
194	0305913F	NUDET Detection System (SPACE)	7	9,815	12,154	13,623	U
195	0308610F	Information Management-Automation-Program 3	7	10,400	10,400	15,193	U
196	0401119F	C-5 Airlift Squadrons	7	5,000		1,153	U
197	0401130F	C-17 Aircraft	7			87,486	U
198	0401214F	Air Cargo Material Handling (463-L) (Non-IF)	7	19,749	12,056	3,212	U
199	0401218F	KC-135s	7			757	U
200	0404102F	Aerospace Rescue and Recovery	7	5,109	3,322	3,322	U
201	0702207F	Depot Maintenance (Non-IF)	7	2,032	1,423	1,444	U
202	0708011F	Industrial Preparedness	7	57,945		49,969	U
203	0708012F	Logistics Support Activities	7	5,621			U
204	0708026F	Productivity, Reliability, Availability,	7	6,527	14,290	13,564	U
205	0708054F	Pollution Prevention	7	15,508			U
206	0708611F	Support Systems Development	7	5,613	5,405	5,405	U
207	0804734F	Cryptologic/SIGINT-Related Skill Training	7	1,441	1,017	1,887	U
208	0901218F	Civilian Compensation Program	7	5,817	5,714	5,917	U
209	1001004F	International Activities	7	1,849	3,606	3,633	U
210	1001018F	NATO Joint STARS	7	4,500			U
Operational Systems Development				4,324,922	5,309,490	6,890,815	
Total Research Development Test & Eval AF				11,583,999	12,677,976	14,417,456	

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FY 1997 Defensewide R D T & E Program Exhibit R-1

Summary Date: MAR 1996  
 Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
Basic Research	328,561	339,189	330,631
Applied Research	1,189,378	1,234,838	1,148,557
Advanced Technology Development	2,054,462	1,998,365	2,045,384
Demonstration and Validation	1,948,509	2,323,786	1,617,190
Engineering and Manufacturing Development	451,168	622,217	994,968
RDT&E Management Support	419,539	338,754	224,122
Operational Systems Development	2,211,855	2,178,975	2,037,984
Total Research Development Test & Eval Defwide	8,603,472	9,036,124	8,398,836

	FY 1995	FY 1996	FY 1997
Summary Recap of FYDP Programs			
General Purpose Forces	33,907	23,192	24,268
Intelligence and Communications	1,984,917	1,992,122	1,851,478
Research and Development (FYDP Program 6)	6,379,301	6,855,330	6,358,996
Central Supply and Maintenance		6,659	6,831
Administration and Assoc Activities	5,629	11,000	34,912
Special Operations Forces	199,718	147,821	122,351
Total Research Development Test & Eval Defwide	8,603,472	9,036,124	8,398,836

UNCLASSIFIED

FY 1997 R D T & E Program Exhibit R-1  
 Defensewide

Summary Date: MAR 1996  
 Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Defensewide			
Defense Mapping Agency	76,228	71,932	100,997
Special Operations Command	199,718	147,821	122,351
Chemical and Biological Defense Program	26,621	255,252	296,831
Ballistic Missile Defense Organization	2,444,032	2,996,549	2,534,182
Office of Secretary/Defense	1,892,284	1,685,399	1,495,928
Defense Advanced Research Projects Agcy	2,371,941	2,216,884	2,177,923
National Security Agency			
Defense Nuclear Agency	245,204	260,491	221,330
Defense Support Project Office	46,664	54,957	55,911
Joint Chiefs of Staff	4,154	12,532	38,776
Defense Information Systems Agency	82,533	61,876	67,786
Defense Intelligence Agency			
Central Imagery Office			
Defense Logistics Agency	76,452	75,196	84,027
Defense Investigative Service			
Total Research Development Test & Eval Defwide	8,603,472	9,036,124	8,398,836

## UNCLASSIFIED

Defensewide  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997	Thousands of Dollars
1	0601101D	In-House Laboratory Independent Research	1	2,242	3,411	2,154	U
2	0601101E	Defense Research Sciences	1	85,069	77,600	74,923	U
3	0601103D	University Research Initiatives	1	235,674	222,043	209,235	U
4	0601110D	Focused Research Initiatives	1	5,576	8,654	15,580	U
5	0601384BP	Chemical and Biological Defense Program	1		27,481	28,739	U
Basic Research							
6	0602160D	Counterproliferation Support	2	328,561	339,189	330,631	U
7	0602173C	Support Technologies/Follow-on Technologies	2	80,948	90,731	94,973	U
8	0602227D	Medical Free Electron Laser	2	22,070	25,223	23,457	U
9	0602238D	Historically Black Colleges and Universities	2	21,268	14,195	11,163	U
10	0602234D	Lincoln Laboratory Research Program	2		12,393	20,068	U
11	0602301E	Computing Systems and Communications Technology	2	376,490	363,038	346,957	U
12	0602384BP	Chemical and Biological Defense Program	2	9,721	67,683	65,273	U
13	0602702E	Tactical Technology	2	118,755	127,205	117,944	U
14	0602708E	Integrated Command and Control Technology	2	79,375	48,342	45,000	U
15	0602712E	Materials and Electronics Technology	2	260,979	235,159	218,539	U
16	0602715H	Defense Nuclear Agency	2	210,793	227,964	195,131	U
17	0602787D	Medical Technology	2	7,339	7,204	8,196	U
18	0305108K	Command and Control Research	2	1,640	1,819	1,856	U
Applied Research							
				1,189,378	1,234,838	1,148,557	

UNCLASSIFIED

Page D-1

UNCLASSIFIED

FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Line Element No	Program Element	Item	Act	FY 1995	FY 1996	FY 1997 c
19	0603002D	Medical Advanced Technology	3	3,884	3,926	3,363 U
20	0603104D	Explosives Demilitarization Technology	3	3,794	15,000	U
21	0603105D	Military HIV Research	3		19,212	U
22	0603120D	Demining	3			7,746 U
23	0603122D	Counterterror Technical Support	3	7,765	17,608	16,521 U
24	0603160D	Counterproliferation Support - Adv Dev	3	23,708	62,753	54,142 U
25	0603173C	Support Technologies/Follow-on Technologies -	3	126,585	126,341	134,905 U
26	0603225D	Joint DoD-DoE Munitions Technology Development	3	23,172	20,939	16,158 U
27	0603226E	Experimental Evaluation of Major Innovative	3	581,818	582,616	635,553 U
28	0603232D	Automatic Target Recognition	3			4,841 U
29	0603384BP	Chemical and Biological Defense Program -	3		34,349	41,685 U
30	0603569E	Advanced Submarine Technology	3	31,400	31,687	U
31	0603570D	Defense Laboratory Partnership Program	3	58,971		U
32	0603570E	Defense Reinvestment	3	208,067	185,741	U
33	0603704D	Special Technical Support	3	16,332	17,470	12,068 U
34	0603711H	Verification Technology Demonstration	3	34,411	32,527	26,199 U
35	0603712S	Generic Logistics R&D Technology Demonstrations	3		11,539	18,162 U
36	0603716D	Strategic Environmental Research Program	3	52,340	55,859	54,880 U
37	0603724D	Biological Defense - Advanced Development	3	50,001		U
38	0603726D	Joint Technology Insertion Program	3		3,339	14,523 U

Thousands of Dollars

Program Element No

Item

Act

FY 1995

FY 1996

FY 1997 c

UNCLASSIFIED

Page D-2

UNCLASSIFIED

FY 1997 R D T & E Program Exhibit R-1  
 Defensewide

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Line Element No	Program Item	Act	FY 1995	FY 1996	FY 1997 c
39	0603736D CALS Initiative	3	13,102		U
40	0603738D Cooperative DoD/VA Medical Research	3	41,845	24,013	U
41	0603739E Advanced Electronics Technologies	3	383,459	393,144	332,100 U
42	0603744E Advanced Simulation	3	27,910	4,887	U
43	0603745E Semiconductor Manufacturing Technology	3	88,327	37,296	U
44	0603746E Maritime Technology	3	38,780	47,196	37,408 U
45	0603747E Electric Vehicles	3	14,170	14,694	U
46	0603750D Advanced Concept Technology Demonstrations	3	29,952	37,087	98,471 U
47	0603752D Commercial Technology Insertion Program	3			48,411 U
48	0603755D High Performance Computing Modernization Program	3	61,797	114,961	99,880 U
49	0603756D Consolidated DoD Software Initiative	3	23,109		U
50	0603771S Industrial Preparedness Manufacturing Technology	3	19,097		U
51	0603800E Joint Advanced Strike Technology - Dem/Val	3		29,557	78,400 U
52	0603805E Dual Use Applications Programs	3			250,000 U
53	0603832D Joint Wargaming Simulation Management Office	3	51,696	74,624	59,968 U
54	0603889E Counterdrug RDT&E Projects	3	38,970		U
	Advanced Technology Development		2,054,462	1,998,365	2,045,384
55	0603228D Physical Security Equipment	4	25,915	19,299	18,676 U
56	0603708D Integrated Diagnostics	4	10,818	9,861	9,742 U

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
57	0603709D Joint Robotics Program	4	22,978	16,566	23,744 U
58	0603714D Advanced Sensor Applications Program	4	31,226	29,900	24,001 U
59	0603715D AIM-9 Consolidated Program	4	48,024		U
60	0603734J Island Sun Support	4	2,698	1,359	1,246 U
61	0603736D CALS Initiative	4		5,789	1,936 U
62	0603790D NATO Research and Development	4	29,377	22,573	22,776 U
63	0603851D Environmental Security Technical Certification	4	43,111	26,038	14,155 U
64	0603861C Theater High-Altitude Area Defense System - TMD -	4	452,384	560,862	226,837 U
65	0603862C Theater Missile Defense Ground Based Radar (GBR-	4	169,993		U
66	0603863C HAWK Upgrades Theater Missile Defense Acquisition	4	26,800	22,563	U
67	0603864C Battle Management and C4I for TMD Acquisition -	4	19,893	23,466	U
68	0603867C Navy Lower Tier TMD Acquisition - Dem/Val	4	139,834	181,603	58,171 U
69	0603868C Navy Upper Tier TMD - Dem/Val	4	75,000	196,761	58,171 U
70	0603869C CORPS Surface-to-Air Missile - TMD - Dem/Val	4	14,223	19,897	56,232 U
71	0603870C Boost Phase Intercept Theater Missile Defense	4	40,610		U
72	0603871C National Missile Defense - Dem/Val	4	387,105	728,478	516,341 U
73	0603872C Other Theater Missile Defense/Follow-on TMD	4	408,520	425,980	530,651 U
74	0603884BP Chemical and Biological Defense Program - Dem/Val	4		32,791	54,511 U

Demonstration and Validation  
 1,948,509 2,323,786 1,617,190

UNCLASSIFIED

FY 1997 R D T & E Program Exhibit R-1  
 Defensewide  
 Date: MAR 1996

Appropriation: 0400 D Research Development Test & Eval Defwide

Line Element No	Program Item	Act	FY 1995	FY 1996	FY 1997 C
Thousands of Dollars					
75	0604160D Counterproliferation Support - EMD	5	2,031	2,676	2,651 U
76	0604384BP Chemical and Biological Defense Program - EMD	5	15,200	88,196	89,915 U
77	0604771D Joint Tactical Information Distribution System	5	81,709	59,619	44,501 U
78	0604861C Theater High-Altitude Area Defense System - TMD -	5			262,463 U
79	0604864C Battle Management and C4I for TMD Acquisition -	5		13,994	U
80	0604865C Patriot PAC-3 Theater Missile Defense Acquisition	5	275,450	343,033	361,632 U
81	0604866C ERINT/Patriot PAC-3 Risk Reduction - TMD - EMD	5	69,328	18,967	U
82	0604867C Navy Lower Tier TMD Acquisition - EMD	5		95,732	233,806 U
83	0604889K Counterdrug Engineering and Manufacturing	5	500		U
84	0305889D Counterdrug Intelligence Support	5	6,950		U
Engineering and Manufacturing Development			451,168	622,217	994,968
85	0605104D Technical Studies, Support and Analysis	6	24,720	31,248	35,101 U
86	0605110D Technical Support to USD(A)--Critical Technology	6	2,566	2,547	2,743 U
87	0605114E BLACK LIGHT	6	4,725	4,623	4,730 U
88	0605117D Foreign Material Acquisition and Exploitation	6	99,963	44,510	40,750 U
89	0605128D Classified Program USD(P)	6		1,700	11,400 U
90	0605129D Technical Assistance	6			4,785 U
91	0605160D Counterproliferation Support	6	5,671	6,214	8,563 U
92	0605218C Ballistic Missile Defense RDT&E Program	6	157,359	148,141	U

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FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
93	0605384BP Chemical and Biological Defense Program	6	1,700	4,752	16,708 U
94	0605502D Small Business Innovative Research	6	29,390		U
95	0605710D Classified Programs - C3I	6	1,000	2,411	2,311 U
96	0605790D Small Business Innovative Research Administration	6	1,461	1,511	1,628 U
97	0605798S Defense Support Activities	6	14,653	16,912	13,796 U
98	0605801S Defense Technical Information Center	6	42,684	40,086	45,238 U
99	0605898E Management Headquarters (Research and Development)	6	29,921	34,099	36,369 U
100	0909900E Financing for Expired Account Adjustments	6	3,726		U
RDT&E Management Support					
101	0201135J CINC C2 Initiatives	7	419,539	338,754	224,122
102	0208045K C3 Interoperability (Joint Tactical C3 Agency)	7	32,451	23,192	24,268 U
103	0301011G Cryptologic Activities	7			
104	0301301L General Defense Intelligence Program	7			
105	0301308L Missile Intelligence Agency	7			
106	0302016K National Military Command System-Wide Support	7	3,536	1,995	2,047 U
107	0302019K Joint/Defense Information Systems Engineering and	7	9,774	3,745	4,594 U
108	0303126K Long-Haul Communications (DCS)	7	27,166	20,060	23,361 U
109	0303127K Support of the National Communications System	7	4,229	3,733	3,910 U
110	0303129K Defense Message System	7			2,532 U

## UNCLASSIFIED

FY 1997 R D T & E Program Exhibit R-1  
 Defensewide

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996  
 Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
111	0303131K Minimum Essential Emergency Communications	7	3,237	2,620	2,311 U
112	0303132G Global Grid Communications	7			
113	0303140D Information Systems Security Program	7		16,645	U
114	0303140G Information Systems Security Program	7			
115	0303149J C4I for the Warrior	7		173	2,618 U
116	0303149K C4I for the Warrior	7			2,907 U
117	0303153K Joint Spectrum Center	7		4,712	U
118	0305106LC Consolidated Imagery Activities	7			
119	0305107LC Tactical Imagery Activities	7			
120	0305127V Foreign Counterintelligence Activities	7			
121	0305139B DMA Mapping, Charting, and Geodesy (MC&G)	7	60,478	71,932	100,997 U
122	0305154D Defense Airborne Reconnaissance Program	7	649,992	596,255	438,559 U
123	0305154G Defense Airborne Reconnaissance Program	7			
124	0305159B Defense Reconnaissance Support Activities (SPACE)	7	15,750		U
125	0305159G Defense Reconnaissance Support Activities (SPACE)	7			
126	0305159I Defense Reconnaissance Support Activities (SPACE)	7	46,664	54,957	55,911 U
127	0305190D C3I Intelligence Programs	7	17,860	9,517	7,081 U
128	0305884L Intelligence Planning and Review Activities	7			
129	0305885G Tactical Cryptologic Activities	7			
130	0305889D Counterdrug Intelligence Support	7		6,724	U

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FY 1997 R D T & E Program Exhibit R-1  
 Defensewide

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
131	0305889G Counterdrug Intelligence Support	7	7,544		U
132	0305898L Management Headquarters (Auxiliary Forces)	7		6,659	6,831 U
133	0708011S Industrial Preparedness	7		11,000	34,912 U
134	0902298J Management Headquarters (OJCS)	7			U
135	0909900S Financing for Expired Account Adjustments	7	18		U
136	0909999D Financing for Cancelled Account Adjustments	7	1,885		U
137	1160279BB Small Business Innovative Research/Small Bus Tech	7	2,806		U
138	1160401BB Special Operations Technology Development	7	5,448	3,969	4,083 U
139	1160402BB Special Operations Advanced Technology Development	7	12,892	15,115	7,927 U
140	1160404BB Special Operations Tactical Systems Development	7	152,862	107,924	83,923 U
141	1160405BB Special Operations Intelligence Systems	7	3,987	2,843	1,315 U
142	1160407BB SOF Medical Technology Development	7	1,663	1,814	1,887 U
143	1160408BB SOF Operational Enhancements	7	20,060	16,156	23,216 U
	Operational Systems Development		2,211,855	2,178,975	2,037,984
	Total Research Development Test & Eval Defwide		8,603,472	9,036,124	8,398,836

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FY 1997 R D T & E Program Exhibit R-1  
 Defensewide R D T & E Program

Summary  
 Date: MAR 1996  
 Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
RD&E Management Support	234,342	247,082	252,038
Total Director of Test & Eval Defense	234,342	247,082	252,038
Summary Recap of FYDP Programs			
Research and Development (FYDP Program 6)	234,342	247,082	252,038
Total Director of Test & Eval Defense	234,342	247,082	252,038

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FY 1997 R D T & E Program Exhibit R-1  
Defensewide

Date: MAR 1996

Appropriation: 0450 D Director of Test & Eval Defense

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c	
1	0604940D Central Test and Evaluation Investment	6	101,394	112,751	116,007	U
2	0605130D Foreign Comparative Testing	6	41,341	32,195	33,560	U
3	0605804D Development Test and Evaluation	6	91,607	102,136	102,471	U
RDT&E Management Support			234,342	247,082	252,038	
Total Director of Test & Eval Defense			234,342	247,082	252,038	

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FY 1997 R D T & E Program Exhibit R-1  
 Defensewide

Summary  
 Date: MAR 1996  
 Thousands of Dollars

	FY 1995	FY 1996	FY 1997
Summary Recap of Budget Activities			
RDT&E Management Support	22,962	22,587	21,968
Total Director of Operational Test & Evaluation	22,962	22,587	21,968
Summary Recap of FYDP Programs			
Research and Development (FYDP Program 6)	22,962	22,587	21,968
Total Director of Operational Test & Evaluation	22,962	22,587	21,968

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FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0460 D Director of Operational Test & Evaluation Date: MAR 1996

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
1	0605118D Operational Test and Evaluation	6	12,501	12,183	11,980 U
2	0605131D Live Fire Testing	6	10,461	10,404	9,988 U
	RDT&E Management Support		22,962	22,587	21,968
	Total Director of Operational Test & Evaluation		22,962	22,587	21,968

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Defense Mapping Agency  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
121	0305139B DMA Mapping, Charting, and Geodesy (MC&G)	7	60,478	71,932	100,997 U
124	0305159B Defense Reconnaissance Support Activities (SPACE)	7	15,750		U
Operational Systems Development					
Total	Defense Mapping Agency		76,228	71,932	100,997
			76,228	71,932	100,997

Thousands of Dollars

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Special Operations Command  
FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Thousands of Dollars

Line Element No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c	
137	1160279BB	Small Business Innovative Research/Small Bus Tech	7	2,806			U
138	1160401BB	Special Operations Technology Development	7	5,448	3,969	4,083	U
139	1160402BB	Special Operations Advanced Technology Development	7	12,892	15,115	7,927	U
140	1160404BB	Special Operations Tactical Systems Development	7	152,862	107,924	83,923	U
141	1160405BB	Special Operations Intelligence Systems	7	3,987	2,843	1,315	U
142	1160407BB	SOF Medical Technology Development	7	1,663	1,814	1,887	U
143	1160408BB	SOF Operational Enhancements	7	20,060	16,156	23,216	U
Operational Systems Development				199,718	147,821	122,351	
Total Special Operations Command				199,718	147,821	122,351	

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Chemical and Biological Defense Program  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
-----S					
Thousands of Dollars					
-----S					
5	0601384BP Chemical and Biological Defense Program	1		27,481	28,739 U
	Basic Research			27,481	28,739
12	0602384BP Chemical and Biological Defense Program	2	9,721	67,683	65,273 U
	Applied Research		9,721	67,683	65,273
29	0603384BP Chemical and Biological Defense Program -	3		34,349	41,685 U
	Advanced Technology Development			34,349	41,685
74	0603884BP Chemical and Biological Defense Program - Dem/Val	4		32,791	54,511 U
	Demonstration and Validation			32,791	54,511
76	0604384BP Chemical and Biological Defense Program - EMD	5	15,200	88,196	89,915 U
	Engineering and Manufacturing Development		15,200	88,196	89,915
93	0605384BP Chemical and Biological Defense Program	6	1,700	4,752	16,708 U
	RDT&E Management Support		1,700	4,752	16,708
Total Chemical and Biological Defense Program			26,621	255,252	296,831

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Ballistic Missile Defense Organization  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Program Line Element No Number	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars					
7	0602173C Support Technologies/Follow-on Technologies	2	80,948	90,731	94,973 U
	Applied Research		80,948	90,731	94,973
25	0603173C Support Technologies/Follow-on Technologies -	3	126,585	126,341	134,905 U
	Advanced Technology Development		126,585	126,341	134,905
64	0603861C Theater High-Altitude Area Defense System - TMD -	4	452,384	560,862	226,837 U
65	0603862C Theater Missile Defense Ground Based Radar (GBR-	4	169,993		U
66	0603863C HAWK Upgrades Theater Missile Defense Acquisition	4	26,800	22,563	U
67	0603864C Battle Management and C4I for TMD Acquisition -	4	19,893	23,466	U
68	0603867C Navy Lower Tier TMD Acquisition - Dem/Val	4	139,834	181,603	58,171 U
69	0603868C Navy Upper Tier TMD - Dem/Val	4	75,000	196,761	58,171 U
70	0603869C CORPS Surface-to-Air Missile - TMD - Dem/Val	4	14,223	19,897	56,232 U
71	0603870C Boost Phase Intercept Theater Missile Defense	4	40,610		U
72	0603871C National Missile Defense - Dem/Val	4	387,105	728,478	516,341 U
73	0603872C Other Theater Missile Defense/Follow-on TMD	4	408,520	425,980	530,651 U
	Demonstration and Validation		1,734,362	2,159,610	1,446,403
78	0604861C Theater High-Altitude Area Defense System - TMD -	5			262,463 U
79	0604864C Battle Management and C4I for TMD Acquisition -	5		13,994	U
80	0604865C Patriot PAC-3 Theater Missile Defense Acquisition	5	275,450	343,033	361,632 U

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Ballistic Missile Defense Organization  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Line Element No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars	
81	0604866C	ERINT/Patriot PAC-3 Risk Reduction - TMD - EMD	5	69,328	18,967			U
82	0604867C	Navy Lower Tier TMD Acquisition - EMD	5		95,732	233,806		U
Engineering and Manufacturing Development								
				344,778	471,726	857,901		
92	0605218C	Ballistic Missile Defense RDT&E Program	6	157,359	148,141			U
RDT&E Management Support								
				157,359	148,141			
Total Ballistic Missile Defense Organization				2,444,032	2,996,549	2,534,182		

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Office of Secretary/Defense  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c	S e
1	0601101D In-House Laboratory Independent Research	1	2,242	3,411	2,154	U
3	0601103D University Research Initiatives	1	235,674	222,043	209,235	U
4	0601110D Focused Research Initiatives	1	5,576	8,654	15,580	U
Basic Research						
6	0602160D Counterproliferation Support	2	243,492	234,108	226,969	U
8	0602227D Medical Free Electron Laser	2	22,070	25,223	23,457	U
9	0602228D Historically Black Colleges and Universities	2	21,268	14,195	11,163	U
10	0602234D Lincoln Laboratory Research Program	2		12,393	20,068	U
17	0602787D Medical Technology	2	7,339	7,204	8,196	U
Applied Research						
19	0603002D Medical Advanced Technology	3	3,884	3,926	3,363	U
20	0603104D Explosives Demilitarization Technology	3	3,794	15,000		U
21	0603105D Military HIV Research	3		19,212		U
22	0603120D Demining	3			7,746	U
23	0603122D Counterterror Technical Support	3	7,765	17,608	16,521	U
24	0603160D Counterproliferation Support - Adv Dev	3	23,708	62,753	54,142	U
26	0603225D Joint DoD-DoE Munitions Technology Development	3	23,172	20,939	16,158	U
28	0603232D Automatic Target Recognition	3			4,841	U
31	0603570D Defense Laboratory Partnership Program	3	58,971			U

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Office of Secretary/Defense  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Line Element No Number	Program Item	Act	FY 1995	FY 1996	FY 1997 c
-----S					
Thousands of Dollars					
-----e					
33	0603704D Special Technical Support	3	16,332	17,470	12,068 U
36	0603716D Strategic Environmental Research Program	3	52,340	55,859	54,880 U
37	0603724D Biological Defense - Advanced Development	3	50,001		U
38	0603726D Joint Technology Insertion Program	3		3,339	14,523 U
39	0603736D CALS Initiative	3	13,102		U
40	0603738D Cooperative DoD/VA Medical Research	3	41,845	24,013	U
46	0603750D Advanced Concept Technology Demonstrations	3	29,952	37,087	98,471 U
47	0603752D Commercial Technology Insertion Program	3			48,411 U
48	0603755D High Performance Computing Modernization Program	3	61,797	114,961	99,880 U
49	0603756D Consolidated DoD Software Initiative	3	23,109		U
53	0603832D Joint Wargaming Simulation Management Office	3	51,696	74,624	59,968 U
-----					
	Advanced Technology Development		461,468	466,791	490,972
55	0603228D Physical Security Equipment	4	25,915	19,299	18,676 U
56	0603708D Integrated Diagnostics	4	10,818	9,861	9,742 U
57	0603709D Joint Robotics Program	4	22,978	16,566	23,744 U
58	0603714D Advanced Sensor Applications Program	4	31,226	29,900	24,001 U
59	0603715D AIM-9 Consolidated Program	4	48,024		U
61	0603736D CALS Initiative	4		5,789	1,936 U
62	0603790D NATO Research and Development	4	29,377	22,573	22,776 U

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Office of Secretary/Defense  
 FY 1997 R D T & E Program

Exhibit R-1

Date: MAR 1996

Appropriation: 0400 D Research Development Test & Eval Defwide

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars					
63	0603851D Environmental Security Technical Certification	4	43,111	26,038	14,155 U
	Demonstration and Validation		211,449	130,026	115,030
75	0604160D Counterproliferation Support - EMD	5	2,031	2,676	2,651 U
77	0604771D Joint Tactical Information Distribution System	5	81,709	59,619	44,501 U
84	0305889D Counterdrug Intelligence Support	5	6,950		U
	Engineering and Manufacturing Development		90,690	62,295	47,152
85	0605104D Technical Studies, Support and Analysis	6	24,720	31,248	35,101 U
86	0605110D Technical Support to USD(A)--Critical Technology	6	2,566	2,547	2,743 U
88	0605117D Foreign Material Acquisition and Exploitation	6	99,963	44,510	40,750 U
89	0605128D Classified Program USD(P)	6		1,700	11,400 U
90	0605129D Technical Assistance	6			4,785 U
91	0605160D Counterproliferation Support	6	5,671	6,214	8,563 U
94	0605502D Small Business Innovative Research	6	29,390		U
95	0605710D Classified Programs - C3I	6	1,000	2,411	2,311 U
96	0605790D Small Business Innovative Research Administration	6	1,461	1,511	1,628 U
	RDT&E Management Support		164,771	90,141	107,281
113	0303140D Information Systems Security Program	7		16,645	U
122	0305154D Defense Airborne Reconnaissance Program	7	649,992	596,255	438,559 U

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Office of Secretary/Defense  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Line No	Program Element Number	Item	Act	FY 1995	FY 1996	FY 1997 c		
							Thousands of Dollars	
127	0305190D	C3I Intelligence Programs	7	17,860	9,517	7,081	U	
130	0305889D	Counterdrug Intelligence Support	7		6,724		U	
136	0909999D	Financing for Cancelled Account Adjustments	7	1,885			U	
Operational Systems Development								
				669,737	629,141	445,640		
Total Office of Secretary/Defense								
				1,892,284	1,685,399	1,495,928		

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Defense Advanced Research Projects Agency  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 C
2	0601101E Defense Research Sciences	1	85,069	77,600	74,923 U
	Basic Research		85,069	77,600	74,923
11	0602301E Computing Systems and Communications Technology	2	376,490	363,038	346,957 U
13	0602702E Tactical Technology	2	118,755	127,205	117,944 U
14	0602708E Integrated Command and Control Technology	2	79,375	48,342	45,000 U
15	0602712E Materials and Electronics Technology	2	260,979	235,159	218,539 U
	Applied Research		835,599	773,744	728,440
27	0603226E Experimental Evaluation of Major Innovative	3	581,818	582,616	635,553 U
30	0603569E Advanced Submarine Technology	3	31,400	31,687	U
32	0603570E Defense Reinvestment	3	208,067	185,741	U
41	0603739E Advanced Electronics Technologies	3	383,459	393,144	332,100 U
42	0603744E Advanced Simulation	3	27,910	4,887	U
43	0603745E Semiconductor Manufacturing Technology	3	88,327	37,296	U
44	0603746E Maritime Technology	3	38,780	47,196	37,408 U
45	0603747E Electric Vehicles	3	14,170	14,694	U
51	0603800E Joint Advanced Strike Technology - Dem/Val	3		29,557	78,400 U
52	0603805E Dual Use Applications Programs	3			250,000 U
54	0603889E Counterdrug RDT&E Projects	3	38,970		U
	Advanced Technology Development		1,412,901	1,326,818	1,333,461

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Defense Nuclear Agency  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Line Element No	Program Item	Act	FY 1995	FY 1996	FY 1997 c
16	0602715H Defense Nuclear Agency	2	210,793	227,964	195,131 U
Applied Research					
34	0603711H Verification Technology Demonstration	3	34,411	32,527	26,199 U
Advanced Technology Development					
Total Defense Nuclear Agency			245,204	260,491	221,330

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Defense Support Project Office  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
126	0305159I Defense Reconnaissance Support Activities (SPACE)	7	46,664	54,957	55,911 U
	Operational Systems Development		46,664	54,957	55,911
	Total Defense Support Project Office		46,664	54,957	55,911

Thousands of Dollars

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Joint Chiefs of Staff  
 FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Line Element No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
60	0603734J	Island Sun Support	4	2,698	1,359	1,246	U
		Demonstration and Validation		2,698	1,359	1,246	U
101	0201135J	CINC C2 Initiatives	7	1,456			U
115	0303149J	C4I for the Warrior	7		173	2,618	U
134	0902298J	Management Headquarters (OJCS)	7		11,000	34,912	U
		Operational Systems Development		1,456	11,173	37,530	
		Total Joint Chiefs of Staff		4,154	12,532	38,776	

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Defense Information Systems Agency  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997	e c
Thousands of Dollars						
18	0305108K Command and Control Research	2	1,640	1,819	1,856	U
	Applied Research		1,640	1,819	1,856	
83	0604889K Counterdrug Engineering and Manufacturing	5	500			U
	Engineering and Manufacturing Development		500			
102	0208045K C3 Interoperability (Joint Tactical C3 Agency)	7	32,451	23,192	24,268	U
106	0302016K National Military Command System-Wide Support	7	3,536	1,995	2,047	U
107	0302019K Joint/Defense Information Systems Engineering and	7	9,774	3,745	4,594	U
108	0303126K Long-Haul Communications (DCS)	7	27,166	20,060	23,361	U
109	0303127K Support of the National Communications System	7	4,229	3,733	3,910	U
110	0303129K Defense Message System	7			2,532	U
111	0303131K Minimum Essential Emergency Communications	7	3,237	2,620	2,311	U
116	0303149K C4I for the Warrior	7			2,907	U
117	0303153K Joint Spectrum Center	7		4,712		U
	Operational Systems Development		80,393	60,057	65,930	
Total	Defense Information Systems Agency		82,533	61,876	67,786	

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Defense Intelligence Agency  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide

Date: MAR 1996

Thousands of Dollars

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 C
104	0301301L General Defense Intelligence Program	7			
105	0301308L Missile Intelligence Agency	7			
128	0305884L Intelligence Planning and Review Activities	7			
132	0305898L Management Headquarters (Auxiliary Forces)	7			
Operational Systems Development					
Total Defense Intelligence Agency					

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Central Imagery Office  
 FY 1997 R D T & E Program  
 Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide  
 Date: MAR 1996

Program Line Element No	Item	Act	FY 1995	FY 1996	FY 1997 c
Thousands of Dollars					
118	0305106IC Consolidated Imagery Activities	7			
119	0305107IC Tactical Imagery Activities	7			
Operational Systems Development					
Total Central Imagery Office					

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Defense Logistics Agency  
 FY 1997 R D T & E Program

Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide  
 Date: MAR 1996

Line Element No	Program Element No	Item	Act	FY 1995	FY 1996	FY 1997 c	Thousands of Dollars
35	0603712S	Generic Logistics R&D Technology Demonstrations	3	11,539	18,162	U	
50	0603771S	Industrial Preparedness Manufacturing Technology	3	19,097		U	
Advanced Technology Development							
97	0605798S	Defense Support Activities	6	14,653	13,796	U	
98	0605801S	Defense Technical Information Center	6	42,684	45,238	U	
RDT&E Management Support							
133	0708011S	Industrial Preparedness	7	56,998	59,034	U	
135	0909900S	Financing for Expired Account Adjustments	7	6,659	6,831	U	
Operational Systems Development							
Total Defense Logistics Agency				76,452	75,196		84,027

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Defense Investigative Service  
FY 1997 R D T & E Program Exhibit R-1

Appropriation: 0400 D Research Development Test & Eval Defwide Date: MAR 1996

Thousands of Dollars

Line Element No	Program Element	Item	Act	FY 1995	FY 1996	FY 1997 c
120	0305127V	Foreign Counterintelligence Activities	7			
		Operational Systems Development				
		Total Defense Investigative Service				

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