

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
8	LETHALITY TECHNOLOGY	96,094	139,094	+ 43,000
10	SOLDIER LETHALITY TECHNOLOGY	102,236	169,236	+ 67,000
11	GROUND TECHNOLOGY	66,707	188,457	+ 121,750
12	NEXT GENERATION COMBAT VEHICLE TECHNOLOGY	149,108	200,108	+ 51,000
13	NETWORK C3I TECHNOLOGY	84,576	126,076	+ 41,500
14	LONG RANGE PRECISION FIRES TECHNOLOGY	32,089	72,589	+ 40,500
15	FUTURE VERTICAL LIFT TECHNOLOGY	52,685	67,685	+ 15,000
16	AIR AND MISSILE DEFENSE TECHNOLOGY	39,188	54,813	+ 15,625
17	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNOLOGIES	20,319	20,319	.....
18	ALL DOMAIN CONVERGENCE APPLIED RESEARCH	12,269	12,269	.....
19	C3I APPLIED RESEARCH	25,839	27,339	+ 1,500
20	AIR PLATFORM APPLIED RESEARCH	53,206	53,206	.....
21	SOLDIER APPLIED RESEARCH	21,069	21,069	.....
22	C3I APPLIED CYBER	28,656	28,656	.....
23	BIOTECHNOLOGY FOR MATERIALS—APPLIED RESEARCH	11,780	11,780	.....
25	MANPOWER/PERSONNEL/TRAINING TECHNOLOGY	19,795	19,795	.....
26	MEDICAL TECHNOLOGY	68,481	107,481	+ 39,000
999	CLASSIFIED PROGRAMS	35,766	35,766	.....
	TOTAL, APPLIED RESEARCH	934,058	1,363,901	+ 429,843
	ADVANCED TECHNOLOGY DEVELOPMENT			
27	MEDICAL ADVANCED TECHNOLOGY	3,112	7,112	+ 4,000
28	MANPOWER, PERSONNEL AND TRAINING ADVANCED TECHNOLOGY	16,716	16,716	.....
29	ARMY AGILE INNOVATION AND DEMONSTRATION	14,608	29,108	+ 14,500
30	ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ADVANCED TECHNOLOGIES	18,263	40,263	+ 22,000
31	ALL DOMAIN CONVERGENCE ADVANCED TECHNOLOGY	23,722	25,722	+ 2,000
32	C3I ADVANCED TECHNOLOGY	22,814	22,814	.....
33	AIR PLATFORM ADVANCED TECHNOLOGY	17,076	22,076	+ 5,000
34	SOLDIER ADVANCED TECHNOLOGY	10,133	10,133	.....
35	LETHALITY ADVANCED TECHNOLOGY	33,969	54,969	+ 21,000
37	SOLDIER LETHALITY ADVANCED TECHNOLOGY	94,899	122,899	+ 28,000
38	GROUND ADVANCED TECHNOLOGY	45,880	131,680	+ 85,800
39	COUNTER IMPROVISED—THREAT SIMULATION	21,398	21,398	.....
40	BIOTECHNOLOGY FOR MATERIALS—ADVANCED RESEARCH ..	36,360	36,360	.....
41	C3I CYBER ADVANCED DEVELOPMENT	19,616	23,616	+ 4,000
42	HIGH PERFORMANCE COMPUTING MODERNIZATION PROGRAM	239,597	247,597	+ 8,000
43	NEXT GENERATION COMBAT VEHICLE ADVANCED TECHNOLOGY	175,198	247,248	+ 72,050
44	NETWORK C3I ADVANCED TECHNOLOGY	94,424	160,324	+ 65,900
45	LONG RANGE PRECISION FIRES ADVANCED TECHNOLOGY	164,943	169,943	+ 5,000
46	FUTURE VERTICAL LIFT ADVANCED TECHNOLOGY	140,578	175,428	+ 34,850
47	AIR AND MISSILE DEFENSE ADVANCED TECHNOLOGY	28,333	41,333	+ 13,000
49	HUMANITARIAN DEMINING	9,272	23,272	+ 14,000
999	CLASSIFIED PROGRAMS	155,526	155,526	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	1,386,437	1,785,537	+ 399,100
	ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
51	ARMY MISSILE DEFENSE SYSTEMS INTEGRATION	13,031	24,031	+ 11,000
52	ARMY SPACE SYSTEMS INTEGRATION	19,659	29,659	+ 10,000
54	LANDMINE WARFARE AND BARRIER—ADV DEV	58,617	60,617	+ 2,000
55	TANK AND MEDIUM CALIBER AMMUNITION	116,027	102,027	— 14,000
56	ARMORED SYSTEM MODERNIZATION—ADV DEV	23,235	38,235	+ 15,000
57	SOLDIER SUPPORT AND SURVIVABILITY	4,059	4,059	.....
58	TACTICAL ELECTRONIC SURVEILLANCE SYSTEM—ADV DEV ..	90,265	87,765	— 2,500
59	NIGHT VISION SYSTEMS ADVANCED DEVELOPMENT	64,113	60,764	— 3,349
60	ENVIRONMENTAL QUALITY TECHNOLOGY—DEM/VAL	34,091	37,091	+ 3,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
61	NATO RESEARCH AND DEVELOPMENT	4,184	4,184	.....
62	AVIATION—ADV DEV	6,591	4,943	— 1,648
63	LOGISTICS AND ENGINEER EQUIPMENT—ADV DEV	12,445	19,995	+ 7,550
64	MEDICAL SYSTEMS—ADV DEV	582	582	.....
65	SOLDIER SYSTEMS—ADVANCED DEVELOPMENT	24,284	38,284	+ 14,000
66	ROBOTICS DEVELOPMENT	3,039	3,039	.....
67	EXPANDED MISSION AREA MISSILE [EMAM]	102,589	23,516	— 79,073
68	CROSS FUNCTIONAL TEAM (CFT) ADVANCED DEVELOPMENT AND PROTOTYPING	63,831	40,409	— 23,422
69	LOW EARTH ORBIT [LEO] SATELLITE CAPABILITY	21,935	21,935	.....
70	MULTI-DOMAIN SENSING SYSTEM [MDSS] ADV DEV	239,135	201,728	— 37,407
71	TACTICAL INTEL TARGETING ACCESS NODE [TITAN] ADV DEV	4,317	4,317	.....
72	ANALYSIS OF ALTERNATIVES	11,234	11,234	.....
73	SMALL UNMANNED AERIAL VEHICLE [SUAV] (6.4)	1,800	1,800	.....
74	ELECTRONIC WARFARE PLANNING AND MANAGEMENT TOOL [EWPMT]	2,004	2,004	.....
75	FUTURE TACTICAL UNMANNED AIRCRAFT SYSTEM [FTUAS] ...	127,870	130,870	+ 3,000
76	LOWER TIER AIR MISSILE DEFENSE [LTAMD] SENSOR	149,463	127,428	— 22,035
77	TECHNOLOGY MATURATION INITIATIVES	252,000	252,000	.....
78	MANEUVER—SHORT RANGE AIR DEFENSE [M—SHORAD]	315,772	284,542	— 31,230
80	ASSURED POSITIONING, NAVIGATION AND TIMING [PNT]	24,168	24,168	.....
81	SYNTHETIC TRAINING ENVIRONMENT REFINEMENT AND PROTOTYPING	136,029	134,029	— 2,000
82	COUNTER IMPROVISED—THREAT DEMONSTRATION, PROTO-TYPE DEVELOPMENT, AND TESTING	17,341	17,341	.....
85	BIOTECHNOLOGY FOR MATERIALS—DEM/VAL	20,862	10,651	— 10,211
86	FUTURE INTERCEPTOR	8,058	8,058	.....
88	COUNTER—SMALL UNMANNED AIRCRAFT SYSTEMS ADVANCED DEVELOPMENT	59,983	59,983	.....
90	UNIFIED NETWORK TRANSPORT	31,837	31,837	.....
91	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT ...	2,270	2,270	.....
999	CLASSIFIED PROGRAMS	277,181	277,181	.....
	TOTAL, ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES	2,343,901	2,182,576	— 161,325
	SYSTEM DEVELOPMENT AND DEMONSTRATION			
92	AIRCRAFT AVIONICS	7,171	7,171	.....
93	ELECTRONIC WARFARE DEVELOPMENT	35,942	33,247	— 2,695
94	INFANTRY SUPPORT WEAPONS	52,586	59,811	+ 7,225
95	MEDIUM TACTICAL VEHICLES	15,088	3,565	— 11,523
96	JAVELIN	10,405	10,405	.....
97	FAMILY OF HEAVY TACTICAL VEHICLES	50,011	34,690	— 15,321
98	AIR TRAFFIC CONTROL	982	982	.....
99	TACTICAL UNMANNED GROUND VEHICLE (TUGV)	92,540	92,540	.....
100	LIGHT TACTICAL WHEELED VEHICLES	100,257	3,027	— 97,230
101	ARMORED SYSTEMS MODERNIZATION [ASM]—ENG DEV	48,097	48,097	.....
102	NIGHT VISION SYSTEMS—ENG/DEV	89,259	99,259	+ 10,000
103	COMBAT FEEDING, CLOTHING, AND EQUIPMENT	3,286	3,286	.....
104	NON—SYSTEM TRAINING DEVICES—ENG/DEV	28,427	28,427	.....
105	AIR DEFENSE COMMAND, CONTROL AND INTELLIGENCE—ENG/DEV	69,653	75,653	+ 6,000
106	CONSTRUCTIVE SIMULATION SYSTEMS DEVELOPMENT	30,097	30,097	.....
107	AUTOMATIC TEST EQUIPMENT DEVELOPMENT	12,927	12,927	.....
108	DISTRIBUTIVE INTERACTIVE SIMULATIONS [DIS]—ENG/DEV ..	8,914	8,914	.....
109	BRIGADE ANALYSIS, INTEGRATION AND EVALUATION	26,352	26,352	.....
110	WEAPONS AND MUNITIONS—ENG/DEV	242,949	242,949	.....
111	LOGISTICS AND ENGINEER EQUIPMENT—ENG/DEV	41,829	58,829	+ 17,000
112	COMMAND, CONTROL, COMMUNICATIONS SYSTEMS—ENG/DEV	92,300	92,300	.....
113	MEDICAL MATERIEL/MEDICAL BIOLOGICAL DEFENSE EQUIPMENT	7,143	7,143	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
114	LANDMINE WARFARE/BARRIER—ENG/DEV	19,134	31,634	+ 12,500
115	ARMY TACTICAL COMMAND AND CONTROL HARDWARE & SOFTWARE	165,229	136,662	— 28,567
116	RADAR DEVELOPMENT	76,090	41,584	— 34,506
117	GENERAL FUND ENTERPRISE BUSINESS SYSTEM (GFEB)S	1,995	1,995	.....
118	SOLDIER SYSTEMS—WARRIOR DEM/VAL	29,132	31,132	+ 2,000
119	SUITE OF SURVIVABILITY ENHANCEMENT SYSTEMS -EMD	77,864	77,864	.....
120	ARTILLERY SYSTEMS—EMD	50,495	47,479	— 3,016
121	INFORMATION TECHNOLOGY DEVELOPMENT	120,076	103,656	— 16,420
122	INTEGRATED PERSONNEL AND PAY SYSTEM—ARMY [PPS-A]	126,354	121,354	— 5,000
123	JOINT TACTICAL NETWORK CENTER [JTNC]	20,191	20,191	.....
124	JOINT TACTICAL NETWORK [JTN]	31,214	31,214	.....
125	COMMON INFRARED COUNTERMEASURES [CIRCM]	11,691	11,691	.....
126	COMBATING WEAPONS OF MASS DESTRUCTION (CWMD)	7,846	7,846	.....
127	NUCLEAR BIOLOGICAL CHEMICAL RECONNAISSANCE VEHICLE [NBCRV] SENSOR SUITE	7,886	7,886	.....
128	DEFENSIVE CYBER TOOL DEVELOPMENT	4,176	4,176	.....
129	TACTICAL NETWORK RADIO SYSTEMS (LOW-TIER)	4,288	4,288	.....
130	CONTRACT WRITING SYSTEM	9,276	9,276	.....
132	AIRCRAFT SURVIVABILITY DEVELOPMENT	38,225	38,225	.....
133	INDIRECT FIRE PROTECTION CAPABILITY INC 2—BLOCK 1	167,912	150,912	— 17,000
134	GROUND ROBOTICS	28,378	28,378	.....
135	EMERGING TECHNOLOGY INITIATIVES	164,734	139,834	— 24,900
137	NEXT GENERATION LOAD DEVICE—MEDIUM	2,931	2,931	.....
138	TACTICAL INTEL TARGETING ACCESS NODE [TITAN] EMD	157,036	149,112	— 7,924
140	SMALL UNMANNED AERIAL VEHICLE [SUAV] (65)	37,876	24,474	— 13,402
141	CI AND HUMINT EQUIPMENT PROGRAM—ARMY (CIHEP-A)	1,296	1,296	.....
142	JOINT TARGETING INTEGRATED COMMAND AND COORDINATION SUITE [JTIC2S]	28,553	21,415	— 7,138
143	MULTI-DOMAIN INTELLIGENCE	18,913	18,913	.....
144	PRECISION STRIKE MISSILE [PRSM]	184,046	184,046	.....
145	HYPERSONICS EMD	538,017	499,775	— 38,242
146	ACCESSIONS INFORMATION ENVIRONMENT [AIE]	32,265	32,265	.....
147	STRATEGIC MID-RANGE CAPABILITY	182,823	182,823	.....
148	INTEGRATED TACTICAL COMMUNICATIONS	23,363	12,224	— 11,139
149	FUTURE LONG RANGE ASSAULT AIRCRAFT DEVELOPMENT	1,253,637	1,253,637	.....
150	THEATER SIGINT SYSTEM (TSIGS)	6,660	.....	— 6,660
151	JOINT REDUCED RANGE ROCKET (JR3)	13,565	13,565	.....
152	SPECTRUM SITUATIONAL AWARENESS SYSTEM (S2AS)	9,330	4,330	— 5,000
153	JOINT AIR-TO-GROUND MISSILE [JAGM]	3,030	3,030	.....
154	ARMY INTEGRATED AIR AND MISSILE DEFENSE [AIAMD]	602,045	555,068	— 46,977
155	COUNTER—SMALL UNMANNED AIRCRAFT SYSTEMS SYS DEV AND DEMONSTRATION	59,563	64,063	+ 4,500
155	COUNTER—SMALL UNMANNED AIRCRAFT SYSTEMS SYS DEV AND DEMONSTRATION (emergency) .....	.....	(4,500)	(+ 4,500)
157	MANNED GROUND VEHICLE	504,841	499,478	— 5,363
158	NATIONAL CAPABILITIES INTEGRATION [MIP]	16,565	16,565	.....
159	JOINT LIGHT TACTICAL VEHICLE ENG AND MANUFACTURING DEVELOPMENT	27,013	2,163	— 24,850
160	AVIATION GROUND SUPPORT EQUIPMENT	979	979	.....
161	TROJAN—RH12	3,930	3,930	.....
163	ELECTRONIC WARFARE DEVELOPMENT	131,096	81,232	— 49,864
999	CLASSIFIED PROGRAMS	83,136	83,136	.....
	TOTAL, ENGINEERING & MANUFACTURING DEVELOPMENT	6,150,910	5,737,398	— 413,512
	MANAGEMENT SUPPORT			
164	THREAT SIMULATOR DEVELOPMENT	71,298	81,298	+ 10,000
165	TARGET SYSTEMS DEVELOPMENT	15,788	22,788	+ 7,000
166	MAJOR T&E INVESTMENT	78,613	78,613	.....
167	RAND ARROYO CENTER	38,122	38,122	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
168	ARMY KWAJALEIN ATOLL	321,755	321,755	.....
169	CONCEPTS EXPERIMENTATION PROGRAM	86,645	80,845	— 5,800
171	ARMY TEST RANGES AND FACILITIES	461,085	461,085	.....
172	ARMY TECHNICAL TEST INSTRUMENTATION AND TARGETS	75,591	74,004	— 1,587
173	SURVIVABILITY/LETHALITY ANALYSIS	37,604	36,815	— 789
174	AIRCRAFT CERTIFICATION	2,201	2,201	.....
176	MATERIEL SYSTEMS ANALYSIS	27,420	26,845	— 575
177	EXPLOITATION OF FOREIGN ITEMS	6,245	6,245	.....
178	SUPPORT OF OPERATIONAL TESTING	76,088	76,088	.....
179	ARMY EVALUATION CENTER	73,220	73,220	.....
180	ARMY MODELING AND SIMULATION X—CMD COLLABORATION AND INTEG	11,257	11,257	.....
181	PROGRAMWIDE ACTIVITIES	91,895	91,895	.....
182	TECHNICAL INFORMATION ACTIVITIES	32,385	32,385	.....
183	MUNITIONS STANDARDIZATION, EFFECTIVENESS AND SAFETY	50,766	53,266	+ 2,500
184	ENVIRONMENTAL QUALITY TECHNOLOGY MGMT SUPPORT	1,659	1,659	.....
185	ARMY DIRECT REPORT HEADQUARTERS—R&D—MHA	59,727	59,727	.....
186	RONALD REAGAN BALLISTIC MISSILE DEFENSE TEST SITE	73,400	73,400	.....
187	COUNTERINTEL AND HUMAN INTEL MODERNIZATION	4,574	9,574	+ 5,000
188	ASSESSMENTS AND EVALUATIONS CYBER VULNERABILITIES	10,105	10,105	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,707,443	1,723,192	+ 15,749
	OPERATIONAL SYSTEMS DEVELOPMENT			
190	MLRS PRODUCT IMPROVEMENT PROGRAM	14,188	14,188	.....
191	ANTI—TAMPER TECHNOLOGY SUPPORT	7,489	7,489	.....
192	COMBATING WEAPONS OF MASS DESTRUCTION (CWMD) PRODUCT IMPROVEMENT	271	271	.....
193	WEAPONS AND MUNITIONS PRODUCT IMPROVEMENT PRO- GRAMS	9,363	48,563	+ 39,200
194	BLACKHAWK PRODUCT IMPROVEMENT PROGRAM	25,000	77,000	+ 52,000
195	CHINOOK PRODUCT IMPROVEMENT PROGRAM	4,816	4,816	.....
196	IMPROVED TURBINE ENGINE PROGRAM	67,029	130,029	+ 63,000
198	UNMANNED AIRCRAFT SYSTEM UNIVERSAL PRODUCTS	24,539	24,539	.....
199	APACHE FUTURE DEVELOPMENT	8,243	8,243	.....
200	AN/TPQ—53 COUNTERFIRE TARGET ACQUISITION RADAR SYS- TEM	53,652	53,652	.....
201	INTEL CYBER DEVELOPMENT	9,753	9,753	.....
203	ELECTRONIC WARFARE DEVELOPMENT	5,559	5,559	.....
204	ENDURING TURBINE ENGINES AND POWER SYSTEMS	2,620	2,620	.....
206	FAMILY OF BIOMETRICS	590	590	.....
207	PATRIOT PRODUCT IMPROVEMENT	168,458	138,398	— 30,060
208	JOINT AUTOMATED DEEP OPERATION COORDINATION SYSTEM	27,582	27,582	.....
209	COMBAT VEHICLE IMPROVEMENT PROGRAMS	272,926	280,926	+ 8,000
210	155MM SELF—PROPELLED HOWITZER IMPROVEMENTS	55,205	47,870	— 7,335
211	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	142	142	.....
212	DIGITIZATION	1,562	1,562	.....
213	MISSILE/AIR DEFENSE PRODUCT IMPROVEMENT PROGRAM ...	1,511	1,511	.....
214	OTHER MISSILE PRODUCT IMPROVEMENT PROGRAMS	23,708	26,708	+ 3,000
215	ENVIRONMENTAL QUALITY TECHNOLOGY—OPERATIONAL SYSTEM DEV	269	269	.....
216	GUIDED MULTIPLE—LAUNCH ROCKET SYSTEM [GMLRS]	20,590	20,590	.....
221	INFORMATION SYSTEMS SECURITY PROGRAM	15,733	15,733	.....
222	GLOBAL COMBAT SUPPORT SYSTEM	2,566	2,566	.....
223	SATCOM GROUND ENVIRONMENT (SPACE)	26,643	26,643	.....
226	INTEGRATED BROADCAST SERVICE [IBS]	5,701	5,701	.....
229	MQ—1C GRAY EAGLE UAS	6,681	6,681	.....
230	END ITEM INDUSTRIAL PREPAREDNESS ACTIVITIES	67,187	74,687	+ 7,500
999	CLASSIFIED PROGRAMS	32,518	32,518	.....
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	962,094	1,097,399	+ 135,305

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
231	DEFENSIVE CYBER—SOFTWARE PROTOTYPE DEVELOPMENT	74,548	74,548	.....
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY	14,073,308	14,495,968	+ 422,660
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, ARMY (emergency) .....	.....	(4,500)	(+ 4,500)

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
1	Defense Research Sciences	310,191	314,191	+ 4,000
	Program increase: Enhancing modeling and simulation of physics-based environments .....	.....	.....	+ 1,000
	Program increase: UAV hybrid propulsion technologies .....	.....	.....	+ 3,000
3	University and Industry Research Centers	109,726	123,226	+ 13,500
	Program increase: Biotechnology advancement research .....	.....	.....	+ 1,000
	Program increase: Connected vehicle cybersecurity center .....	.....	.....	+ 7,000
	Program increase: Materials in extreme dynamic environments .....	.....	.....	+ 2,500
	Program increase: Wearable health and environment monitoring device .....	.....	.....	+ 3,000
6	Army Agile Innovation and Development-Applied Research ..	8,032	2,000	— 6,032
	Unjustified growth .....	.....	.....	— 6,032
8	Lethality Technology	96,094	139,094	+ 43,000
	Program increase: Additive manufacturing for missile application .....	.....	.....	+ 4,000
	Program increase: Advanced materials and manufacturing for modernization .....	.....	.....	+ 20,000
	Program increase: AI-enhanced autonomous rescue missions .....	.....	.....	+ 4,000
	Program increase: Ceramic protection materials .....	.....	.....	+ 2,500
	Program increase: Enhancing critical materials supply chain .....	.....	.....	+ 2,000
	Program increase: Powder metallurgical processing ....	.....	.....	+ 1,500
	Program increase: Turret gunner survivability and simulation environment .....	.....	.....	+ 3,000
	Program increase: Advanced materials and manufacturing for hypersonics .....	.....	.....	+ 6,000
10	Soldier Lethality Technology	102,236	169,236	+ 67,000
	Program increase: Academic accelerator program .....	.....	.....	+ 3,000
	Program increase: Advanced textiles and shelters .....	.....	.....	+ 3,000
	Program increase: Automated pilot for small tactical universal battery .....	.....	.....	+ 5,000
	Program increase: Digital night vision technology .....	.....	.....	+ 4,000
	Program increase: Domestic silicon anode development .....	.....	.....	+ 2,500
	Program increase: Enhanced ballistic protective eyewear .....	.....	.....	+ 1,000
	Program increase: HEROES .....	.....	.....	+ 2,000
	Program increase: Lightweight fuel cell .....	.....	.....	+ 5,000
	Program increase: Operational test environment and facility for cybersecurity training .....	.....	.....	+ 15,000
	Program increase: Pathfinder air assault .....	.....	.....	+ 2,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
11	Program increase: Pathfinder airborne .....	.....	.....	+ 8,000
	Program increase: Pathfinder arctic .....	.....	.....	+ 5,000
	Program increase: Pathfinder arctic warfare .....	.....	.....	+ 2,500
	Program increase: Polymer electrolytes for soldier worn batteries .....	.....	.....	+ 4,000
	Program increase: Scaling sublimation process of silicon anode manufacturing .....	.....	.....	+ 5,000
	Ground Technology	66,707	188,457	+ 121,750
	Program increase: 2D polymer scalable manufacturing .....	.....	.....	+ 3,000
	Program increase: Advanced fabrics for battlefield protection .....	.....	.....	+ 6,000
	Program increase: Advanced materials under extreme environments .....	.....	.....	+ 2,000
	Program increase: Carbon nanomaterials as functional additives .....	.....	.....	+ 6,000
	Program increase: Ceramic materials for extreme environments .....	.....	.....	+ 4,000
	Program increase: Composite machining for hypersonics .....	.....	.....	+ 3,000
	Program increase: Critical hybrid advanced manufacturing processes .....	.....	.....	+ 7,500
	Program increase: Development of roadway repair materials .....	.....	.....	+ 3,000
	Program increase: Dynamic composite materials as a reconfigurable solution .....	.....	.....	+ 7,500
	Program increase: Electrolyzer technology .....	.....	.....	+ 2,500
	Program increase: High deposition structural alloy .....	.....	.....	+ 12,500
	Program increase: High temperature resin production .....	.....	.....	.....
	Program increase: Weapon system parts and munitions .....	.....	.....	+ 2,500
	Program increase: High-entropy alloy deployment .....	.....	.....	+ 1,500
	Program increase: Invincible materials technology research .....	.....	.....	+ 7,000
	Program increase: Materials technology for rare earth elements .....	.....	.....	+ 8,000
	Program increase: Microbial biomanufacturing for critical supply chains .....	.....	.....	+ 2,000
	Program increase: Minority leaders research collaboration program .....	.....	.....	+ 5,000
	Program increase: PFAS predictive modeling .....	.....	.....	+ 2,000
	Program increase: Polar proving ground .....	.....	.....	+ 5,000
	Program increase: Protective coatings .....	.....	.....	+ 6,000
	Program increase: Rapid ultra-lightweight infrastructure manufacturing .....	.....	.....	+ 3,000
	Program increase: Rare earth extraction demonstration .....	.....	.....	+ 8,000
	Program increase: Regional hydrological integrated modeling system .....	.....	.....	+ 1,000
	Program increase: Scaling of lightweight metallurgical development .....	.....	.....	+ 6,750
	Program increase: Soil stabilization .....	.....	.....	+ 4,000
	Program increase: Windstorm resilience for facilities ..	.....	.....	+ 3,000
12	Next Generation Combat Vehicle Technology	149,108	200,108	+ 51,000
	Program increase: Additive manufacturing for military vehicles .....	.....	.....	+ 2,500
	Program increase: Autonomous vehicle research initiative .....	.....	.....	+ 5,000
	Program increase: Data analytics for autonomous vehicle systems .....	.....	.....	+ 7,000
	Program increase: Expeditionary fabrication .....	.....	.....	+ 2,000
	Program increase: Fast refueling fuel cell engines .....	.....	.....	+ 3,500
	Program increase: Hydrogen technologies .....	.....	.....	+ 10,000
	Program increase: Large metal additive manufacturing for ground vehicles .....	.....	.....	+ 7,500
	Program increase: Modeling and simulation for digital engineering .....	.....	.....	+ 2,500

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Polymer-based proton exchange membrane devices .....	.....	.....	+ 1,000
	Program increase: Small unit technology advancements .....	.....	.....	+ 4,000
	Program increase: Standardized battery for enhanced performance .....	.....	.....	+ 3,000
	Program increase: Vehicle power protection .....	.....	.....	+ 2,000
	Program increase: Virtual experimentation for ground vehicle technologies .....	.....	.....	+ 1,000
13	Network C3I Technology	84,576	126,076	+ 41,500
	Program increase: Agile sensing for radio frequency and radar capabilities .....	.....	.....	+ 3,000
	Program increase: Counter encryption for end-to-end secured mobile communications .....	.....	.....	+ 1,500
	Program increase: Detection of unexploded ordnance technology .....	.....	.....	+ 3,000
	Program increase: Development of advanced radio frequency applications .....	.....	.....	+ 3,000
	Program increase: Electromagnetic spectrum dominance in contested environments .....	.....	.....	+ 5,000
	Program increase: Group 3 drones for autonomous operations .....	.....	.....	+ 3,000
	Program increase: Integrated photonics for contested RF environments .....	.....	.....	+ 10,000
	Program increase: Mirror-based light detection and ranging sensor .....	.....	.....	+ 3,000
	Program increase: Multi-static radar system .....	.....	.....	+ 3,000
	Program increase: Social network analysis .....	.....	.....	+ 3,000
	Program increase: Spectrum dominance with distributed apertures .....	.....	.....	+ 4,000
14	Long Range Precision Fires Technology	32,089	72,589	+ 40,500
	Program increase: Advanced manufacturing of energetic materials .....	.....	.....	+ 8,500
	Program increase: Biosynthesizing of critical chemicals .....	.....	.....	+ 12,500
	Program increase: High speed missile materials .....	.....	.....	+ 12,500
	Program increase: Reactive materials .....	.....	.....	+ 7,000
15	Future Verticle Lift Technology	52,685	67,685	+ 15,000
	Program increase: Adaptive flight control technology ..	.....	.....	+ 3,000
	Program increase: High density eVTOL power source ...	.....	.....	+ 5,000
	Program increase: UAS propulsion and power systems .....	.....	.....	+ 2,000
	Program increase: Wind tunnel modernization .....	.....	.....	+ 5,000
16	Air and Missile Defense Technology	39,188	54,813	+ 15,625
	Program increase: Beam control systems and industry grade optical fiber fabrication for energy laser .....	.....	.....	+ 7,500
	Program increase: Counter-UAS center of excellence ...	.....	.....	+ 5,000
	Program increase: Modeling and simulation development for emerging UAS threats .....	.....	.....	+ 3,125
19	C3I Applied Research	25,839	27,339	+ 1,500
	Program increase: Critical infrastructure cyber and electronic warfare incident response .....	.....	.....	+ 1,500
26	Medical Technology	68,481	107,481	+ 39,000
	Program increase: Biomaterials for combat wound care .....	.....	.....	+ 1,500
	Program increase: Blast surrogate platforms .....	.....	.....	+ 5,000
	Program increase: Degradable metal alloy orthopedic implants .....	.....	.....	+ 4,000
	Program increase: Female warfighter health and readiness .....	.....	.....	+ 8,000
	Program increase: Musculoskeletal health and performance research .....	.....	.....	+ 2,500
	Program increase: Nanomaterials for bone regeneration .....	.....	.....	+ 5,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Physiological study of female warfighters to improve training			+ 10,000
	Program increase: Servicemember sleep research			+ 1,000
	Program increase: Trauma immunology			+ 2,000
27	Medical Advanced Technology	3,112	7,112	+ 4,000
	Program increase: Hearing protection for communications			+ 2,000
	Program increase: Suicide prevention with a focus on rural, remote, isolated, and OCONUS installations ..			+ 2,000
29	Army Agile Innovation and Demonstration	14,608	29,108	+ 14,500
	Program increase: Glide munitions precision effects ...			+ 8,000
	Program increase: Next generation hybrid rocket engines			+ 6,500
30	Artificial Intelligence and Machine Learning Advanced Technologies	18,263	40,263	+ 22,000
	Program increase: Distributed AI data fusion for uncrewed systems			+ 10,000
	Program increase: Edge based predictive maintenance tools			+ 12,000
31	All Domain Convergence Advanced Technology	23,722	25,722	+ 2,000
	Program increase: Weapon target pairing and track fusion capabilities			+ 2,000
33	Air Platform Advanced Technology	17,076	22,076	+ 5,000
	Program increase: Unmanned aircraft systems test and research center			+ 5,000
35	Lethality Advanced Technology	33,969	54,969	+ 21,000
	Program increase: Autonomous long-range resupply ...			+ 4,000
	Program increase: High strength ordnance packaging, handling, storage and transportation			+ 2,000
	Program increase: Hypersonics test infrastructure			+ 15,000
37	Soldier Lethality Advanced Technology	94,899	122,899	+ 28,000
	Program increase: Artificial intelligence and assistive automation system			+ 7,500
	Program increase: Autonomous aerial cargo delivery ...			+ 2,000
	Program increase: Energy-harvesting rucksack for extreme weather			+ 2,000
	Program increase: Enhanced head protection system ..			+ 2,000
	Program increase: Foundational models for generative AI			+ 5,000
	Program increase: Military footwear research			+ 5,000
	Program increase: Next generation integrated head protection system			+ 2,500
	Program increase: Personal air mobility capability			+ 2,000
38	Ground Advanced Technology	45,880	131,680	+ 85,800
	Program increase: Accelerator technology for ground maneuver			+ 2,000
	Program increase: Advanced coating development for infrastructure			+ 3,000
	Program increase: Automated pavement assessment system			+ 3,000
	Program increase: Cold regions research and engineering laboratory			+ 8,000
	Program increase: Cold weather mobility testing			+ 5,500
	Program increase: Deep strength pavement			+ 8,000
	Program increase: Dynamic loading and structural design			+ 2,000
	Program increase: Engineering practices for ecosystem design solutions			+ 1,000
	Program increase: Expeditionary additive technology ...			+ 2,000
	Program increase: Expeditionary portable fission generator			+ 5,000
	Program increase: Extraction of rare earth elements from waste material			+ 1,400

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Extreme temperatures energy resilience research			+ 2,500
	Program increase: Heavy vehicle simulator upgrades ..			+ 2,000
	Program increase: High power fast charging for fleet modernization			+ 2,000
	Program increase: Innovative design and manufacturing of advanced composites/multi material protective systems			+ 2,500
	Program increase: Microwave-based plasma system for PFAS destruction			+ 6,000
	Program increase: Multifunction materials process for portable landing surfaces			+ 2,000
	Program increase: PFAS clean up and destruction technology development			+ 2,900
	Program increase: Power self-sufficiency			+ 5,000
	Program increase: Rechargeable lithium batteries			+ 2,500
	Program increase: Reconfigurable underground test and evaluation			+ 3,500
	Program increase: Remote assessment of winter surface conditions in forests			+ 3,000
	Program increase: Reusable polymer technology			+ 1,000
	Program increase: Smart and resilient installations			+ 5,000
	Program increase: Technology for compostable packaging materials			+ 2,000
	Program increase: Water reuse consortium			+ 3,000
41	C3I Cyber Advanced Development	19,616	23,616	+ 4,000
	Program increase: NATO autonomous cyber and communications interoperability			+ 4,000
42	High Performance Computing Modernization Program	239,597	247,597	+ 8,000
	Program increase: High performance computing modernization program			+ 8,000
43	Next Generation Combat Vehicle Advanced Technology	175,198	247,248	+ 72,050
	Unjustified request			- 20,700
	Program increase: Additive manufacturing for casting replacement parts			+ 2,250
	Program increase: Advanced materials applications ...			+ 17,500
	Program increase: Autonomous ground vehicle research			+ 1,500
	Program increase: Autonomous minefield clearance			+ 8,000
	Program increase: Blast resistant fuel systems			+ 2,500
	Program increase: CBRN autonomous operations			+ 2,000
	Program increase: Cybersecurity for autonomous ground vehicles			+ 3,500
	Program increase: Digital enterprise management for XM30			+ 7,500
	Program increase: Lithium-ion batteries for military vehicles			+ 2,000
	Program increase: Mesophase pitch-based synthetic graphite			+ 10,000
	Program increase: Modular electric motors			+ 4,000
	Program increase: Off-road maneuver			+ 5,000
	Program increase: Silent mobility vehicle cooling			+ 8,000
	Program increase: Thermoplastics materials digital twin			+ 5,000
	Program increase: Virtual prototyping of ground-air vehicle formations			+ 10,000
	Program increase: Wide-area motion imagery sensor for overwatch			+ 4,000
44	Network C3I Advanced Technology	94,424	160,324	+ 65,900
	Program increase: Advanced dynamic spectrum reconnaissance			+ 8,500
	Program increase: Advanced polymer aerogel technology			+ 7,600

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: C5ISR modular open suite of standards integration			+ 15,000
	Program increase: Characterization of dynamic terrain conditions			+ 1,000
	Program increase: Compact mobile command post auxiliary power unit			+ 3,000
	Program increase: Decision aided tool for battlefield terrain awareness			+ 5,000
	Program increase: Littoral autonomous detection and exploitation			+ 3,000
	Program increase: Modular open systems architecture development for radio frequency systems			+ 4,000
	Program increase: Next generation command platform			+ 5,000
	Program increase: Subterranean research facility			+ 10,800
	Program increase: Textile-integrated detector arrays			+ 3,000
45	Long Range Precision Fires Advanced Technology	164,943	169,943	+ 5,000
	Program increase: Digital engineering for missile technology			+ 3,000
	Program increase: Mass launched effects munition			+ 2,000
46	Future Vertical Lift Advanced Technology	140,578	175,428	+ 34,850
	Program increase: Advanced helicopter seating system			+ 3,000
	Program increase: Composite material sustainment modernization			+ 11,000
	Program increase: Composite structure research for aircraft			+ 5,500
	Program increase: Future verticle lift technologies			+ 2,500
	Program increase: Multi-function scalable antenna array for airborne radar			+ 3,000
	Program increase: Platform digitization and maintenance			+ 4,850
	Program increase: Replacement floor for H-60 airframe			+ 5,000
47	Air and Missile Defense Advanced Technology	28,333	41,333	+ 13,000
	Program increase: Modular light tactical air defense platform			+ 3,000
	Program increase: Physics-based hardware and software algorithms			+ 5,000
	Program increase: Silicon carbide electronics			+ 5,000
49	Humanitarian Demining	9,272	23,272	+ 14,000
	Program increase			+ 14,000
51	Army Missile Defense Systems Integration	13,031	24,031	+ 11,000
	Program increase: AI decision advantage for command and control capabilities			+ 4,000
	Program increase: Ground test for hypersonics			+ 7,000
52	Army Space Systems Integration	19,659	29,659	+ 10,000
	Program increase: Distributed aperture adjunct for multi-domain operations			+ 10,000
54	Landmine Warfare and Barrier—Adv Dev	58,617	60,617	+ 2,000
	Program increase: Autonomous detection, classification, and geo-location of landmines			+ 2,000
55	Tank and Medium Caliber Ammunition	116,027	102,027	– 14,000
	Carryover			– 15,000
	Program increase: 155mm boosted payload carrier			+ 1,000
56	Armored System Modernization—Adv Dev	23,235	38,235	+ 15,000
	Program increase: Helmet mounted display for AMPV			+ 5,000
	Program increase: Moldable endothermic blast mitigation			+ 10,000
58	Tactical Electronic Surveillance System—Adv Dev	90,265	87,765	– 2,500
	Underexecution			– 2,500
59	Night Vision Systems Advanced Development	64,113	60,764	– 3,349
	HUD contract delays			– 11,349
	Program increase: AI-enabled tactical intelligence			+ 3,000
	Program increase: Immersive AR/VR for UAS			+ 5,000
60	Environmental Quality Technology—Dem/Val	34,091	37,091	+ 3,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Friction stir additive manufacturing			+ 3,000
62	Aviation—Adv Dev	6,591	4,943	— 1,648
	Previously funded			— 1,648
63	Logistics and Engineer Equipment—Adv Dev	12,445	19,995	+ 7,550
	RCS testing early to need			— 2,450
	Program increase: Army executive agent program, microreactors			+ 10,000
65	Soldier Systems—Advanced Development	24,284	38,284	+ 14,000
	Program increase: Low-recoil firing system			+ 2,000
	Program increase: Advanced thermal management textiles			+ 4,500
	Program increase: Development of fully integrated sight			+ 7,500
67	Expanded Mission Area Missile [EMAM]	102,589	23,516	— 79,073
	IFPC—HEL program adjustment			— 12,158
	MDACS program adjustment			— 66,915
68	Cross Functional Team (CFT) Advanced Development & Prototyping	63,831	40,409	— 23,422
	Program decrease			— 23,422
	Transfer: Rapid Defense Innovation Reserve			+ 40,409
	Transfer: Rapid Defense Experimentation Reserve			— 40,409
70	Multi-Domain Sensing System [MDSS] Adv Dev	239,135	201,728	— 37,407
	Program management early to need			— 4,153
	Lead system integrator early to need			— 46,754
	Program increase: Multi-domain experimentation and integration			+ 2,500
	Program increase: Multimodal generative AI foreign language solutions			+ 6,000
	Program increase: Non-kinetic training and experimentation environment			+ 5,000
75	Future Tactical Unmanned Aircraft System [FTUAS]	127,870	130,870	+ 3,000
	Program increase: Secure APNT for FTUAS			+ 3,000
76	Lower Tier Air Missile Defense [LTAMD] Sensor	149,463	127,428	— 22,035
	Unjustified request			— 22,035
78	Maneuver—Short Range Air Defense [M—SHORAD]	315,772	284,542	— 31,230
	Inc. II CLS previously funded			— 15,230
	Inc. III early to need			— 16,000
81	Synthetic Training Environment Refinement & Prototyping ...	136,029	134,029	— 2,000
	RVCT Carryover			— 2,000
85	Biotechnology for Materials—Dem/Val	20,862	10,651	— 10,211
	Undefined acquisition strategy			— 10,211
93	Electronic Warfare Development	35,942	33,247	— 2,695
	MFEW testing early to need			— 2,695
94	Infantry Support Weapons	52,586	59,811	+ 7,225
	Program increase: Load carriage system in support of wildfire suppression operations			+ 2,000
	Program increase: Soldier enhancement program			+ 5,225
95	Medium Tactical Vehicles	15,088	3,565	— 11,523
	Unjustified request			— 11,523
97	Family of Heavy Tactical Vehicles	50,011	34,690	— 15,321
	Leader/Follower Phase III early to need			— 15,321
100	Light Tactical Wheeled Vehicles	100,257	3,027	— 97,230
	eLRV program cancellation			— 10,247
	Unjustified request			— 89,983
	Program increase: HMMWV occupancy protection development			+ 3,000
102	Night Vision Systems—Eng Dev	89,259	99,259	+ 10,000
	Program increase: ENVG—B advanced capabilities			+ 10,000
105	Air Defense Command, Control and Intelligence—Eng Dev	69,653	75,653	+ 6,000
	Program increase: Air and missile defense common operating picture			+ 6,000
111	Logistics and Engineer Equipment—Eng Dev	41,829	58,829	+ 17,000
	Program increase: Deployable, energy efficient, rigid wall shelter			+ 12,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Mobile ULCANS			+ 5,000
114	Landmine Warfare/Barrier—Eng Dev	19,134	31,634	+ 12,500
	Program increase: Joint all domain training center			+ 12,500
115	Army Tactical Command & Control Hardware & Software	165,229	136,662	– 28,567
	M/HHCE duplicative funding			– 1,409
	UNO contract award delays			– 24,648
	CPI2 program transition			– 5,010
	Program increase: Multi-factor authentication for enhanced cyber security			+ 2,500
116	Radar Development	76,090	41,584	– 34,506
	Duplicative funding for A4 enhancements			– 17,700
	ALPS undefined contracting strategy			– 16,806
118	Soldier Systems—Warrior Dem/Val	29,132	31,132	+ 2,000
	Program increase: Conformal wearable battery			+ 2,000
120	Artillery Systems—EMD	50,495	47,479	– 3,016
	Next generation howitzer, insufficient justification			– 8,016
	Program increase: Soft recoil for 105mm extended range artillery systems			+ 5,000
121	Information Technology Development	120,076	103,656	– 16,420
	EBS—C early to need			– 16,420
122	Integrated Personnel and Pay System-Army [IPPS-A]	126,354	121,354	– 5,000
	Contract award delays			– 5,000
133	Indirect Fire Protection Capability Inc 2—Block 1	167,912	150,912	– 17,000
	Datalink unjustified growth			– 17,000
135	Emerging Technology Initiatives	164,734	139,834	– 24,900
	Unjustified request			– 28,900
	Program increase: Enhanced single and dual band sensors for high energy laser targeting			+ 2,000
	Program increase: ISV multi-mission and logistics variants			+ 2,000
138	Tactical Intel Targeting Access Node [TITAN] EMD	157,036	149,112	– 7,924
	CLS early to need			– 7,924
140	Small Unmanned Aerial Vehicle [SUAV] (6.5)	37,876	24,474	– 13,402
	LRR unjustified growth			– 7,026
	JTAARS unjustified growth			– 6,376
142	Joint Targeting Integrated Command and Coordination Suite [JTIC2S]	28,553	21,415	– 7,138
	Unjustified growth			– 7,138
145	Hypersonics EMD	538,017	499,775	– 38,242
	Test delays			– 38,242
148	Integrated Tactical Communications	23,363	12,224	– 11,139
	Undefined acquisition strategy			– 11,139
150	Theater SIGINT System (TSIGS)	6,660		– 6,660
	Undefined acquisition strategy			– 6,660
152	Spectrum Situational Awareness System (S2AS)	9,330	4,330	– 5,000
	Program decrease			– 5,000
154	Army Integrated Air and Missile Defense [AIAMD]	602,045	555,068	– 46,977
	SIL duplicative funding			– 26,977
	Unjustified test and evaluation growth			– 30,000
	Program increase: High energy laser thermal management components			+ 10,000
155	Counter—Small Unmanned Aircraft Systems Sys Dev & Demonstration	59,563	64,063	+ 4,500
	Program increase: Roadrunner-M (emergency)			+ 4,500
157	Manned Ground Vehicle	504,841	499,478	– 5,363
	Program management cost growth			– 5,363
159	Joint Light Tactical Vehicle [JLTV] Engineering and Manufacturing Development Phase (EMD)	27,013	2,163	– 24,850
	Unjustified request			– 24,850
163	Electronic Warfare Development	131,096	81,232	– 49,864
	TLS—EAB program adjustment			– 49,864
164	Threat Simulator Development	71,298	81,298	+ 10,000
	Program increase: Cyber threat emulation			+ 6,000
	Program increase: Multi-domain operations range pilot			+ 4,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
165	Target Systems Development	15,788	22,788	+ 7,000
	Program increase: UAS swarm threat representation, detection, and mitigation			+ 7,000
169	Concepts Experimentation Program	86,645	80,845	— 5,800
	CJSIL duplicative funding			— 5,800
172	Army Technical Test Instrumentation and Targets	75,591	74,004	— 1,587
	Program decrease			— 1,587
173	Survivability/Lethality Analysis	37,604	36,815	— 789
	Program decrease			— 789
176	Materiel Systems Analysis	27,420	26,845	— 575
	Program decrease			— 575
183	Munitions Standardization, Effectiveness and Safety	50,766	53,266	+ 2,500
	Program increase: Industrial base resiliency			+ 2,500
187	CounterIntel and Human Intel Modernization	4,574	9,574	+ 5,000
	Program increase: Multi-source data fusion platform			+ 5,000
193	Weapons and Munitions Product Improvement Programs	9,363	48,563	+ 39,200
	Program increase: Advanced thermal batteries			+ 4,800
	Program increase: Development and testing software for 155 mm round production			+ 6,000
	Program increase: Material analysis instruments for supply chain risk management			+ 4,000
	Program increase: Munitions production research			+ 4,400
	Program increase: Refractory metal alloys for hypersonics			+ 10,000
	Program increase: Stibnite and antimony for ammunition production			+ 10,000
194	Blackhawk Product Improvement Program	25,000	77,000	+ 52,000
	Program increase			+ 50,000
	Program increase: Health and usage monitoring system			+ 2,000
196	Improved Turbine Engine Program	67,029	130,029	+ 63,000
	Program increase			+ 63,000
207	Patriot Product Improvement	168,458	138,398	— 30,060
	Duplicative funding for PIP enhancements			— 30,060
209	Combat Vehicle Improvement Programs	272,926	280,926	+ 8,000
	Program increase: M1 Abrams helmet mounted display			+ 5,000
	Program increase: Stryker driver-assistance systems			+ 3,000
210	155mm Self-Propelled Howitzer Improvements	55,205	47,870	— 7,335
	Unjustified program support costs			— 7,335
214	Other Missile Product Improvement Programs	23,708	26,708	+ 3,000
	Program increase: Containerized weapon system			+ 3,000
230	End Item Industrial Preparedness Activities	67,187	74,687	+ 7,500
	Program increase: Advanced cybersecurity range modernization			+ 2,500
	Program increase: Advanced manufacturing center of excellence			+ 5,000

Directed Energy Investments.—The Committee is encouraged by the Department of the Army’s enduring directed energy strategy, which involves a more strategic approach that emphasizes ongoing prototype development, testing, and soldier user evaluations. This strategy leverages existing flexible acquisition authorities to rapidly field the technology and gain immediate soldier feedback—as exemplified by the operational deployment of the Directed Energy Maneuver Short-Range Air Defense system and Palletized High Energy Laser system. While the Committee recognizes and appreciates the significant potential and operational value of directed energy systems for air defense and counter-UAS capabilities, the technical maturity and scalability of these systems remains an

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY			
	BASIC RESEARCH			
1	UNIVERSITY RESEARCH INITIATIVES	94,259	99,259	+ 5,000
2	DEFENSE RESEARCH SCIENCES	483,914	502,414	+ 18,500
	TOTAL, BASIC RESEARCH	578,173	601,673	+ 23,500
	APPLIED RESEARCH			
3	POWER PROJECTION APPLIED RESEARCH	23,842	23,842	.....
4	FORCE PROTECTION APPLIED RESEARCH	120,716	219,716	+ 99,000
4	FORCE PROTECTION APPLIED RESEARCH (emergency) .....	.....	(10,000)	(+ 10,000)
5	MARINE CORPS LANDING FORCE TECHNOLOGY	53,758	58,508	+ 4,750
6	COMMON PICTURE APPLIED RESEARCH	51,202	53,702	+ 2,500
7	WARFIGHTER SUSTAINMENT APPLIED RESEARCH	76,379	114,879	+ 38,500
8	ELECTROMAGNETIC SYSTEMS APPLIED RESEARCH	91,441	99,441	+ 8,000
9	OCEAN WARFIGHTING ENVIRONMENT APPLIED RESEARCH	78,930	125,430	+ 46,500
10	JOINT NON-LETHAL WEAPONS APPLIED RESEARCH	7,719	7,719	.....
11	UNDERSEA WARFARE APPLIED RESEARCH	57,525	119,025	+ 61,500
12	FUTURE NAVAL CAPABILITIES APPLIED RESEARCH	163,673	169,173	+ 5,500
13	MINE AND EXPEDITIONARY WARFARE APPLIED RESEARCH	31,460	32,460	+ 1,000
14	INNOVATIVE NAVAL PROTOTYPES [INP] APPLIED RESEARCH	127,363	129,363	+ 2,000
15	SCIENCE AND TECHNOLOGY MANAGEMENT—ONR HEAD-QUARTERS	90,939	90,939	.....
	TOTAL, APPLIED RESEARCH	974,947	1,244,197	+ 269,250
	ADVANCED TECHNOLOGY DEVELOPMENT			
16	FORCE PROTECTION ADVANCED TECHNOLOGY	31,556	34,556	+ 3,000
17	ELECTROMAGNETIC SYSTEMS ADVANCED TECHNOLOGY	8,537	15,037	+ 6,500
18	SCIENCE AND TECHNOLOGY FOR NUCLEAR RE-ENTRY SYSTEMS	118,624	118,624	.....
19	MARINE CORPS ADVANCED TECHNOLOGY DEMONSTRATION [ATD]	243,247	284,147	+ 40,900
20	JOINT NON-LETHAL WEAPONS TECHNOLOGY DEVELOPMENT	16,188	16,188	.....
21	FUTURE NAVAL CAPABILITIES ADVANCED TECHNOLOGY DEV	262,869	270,869	+ 8,000
22	MANUFACTURING TECHNOLOGY PROGRAM	63,084	273,584	+ 210,500
23	WARFIGHTER PROTECTION ADVANCED TECHNOLOGY	5,105	13,105	+ 8,000
24	NAVY WARFIGHTING EXPERIMENTS AND DEMONSTRATIONS	97,615	127,115	+ 29,500
25	MINE AND EXPEDITIONARY WARFARE ADVANCED TECHNOLOGY	2,050	2,050	.....
26	INNOVATIVE NAVAL PROTOTYPES [INP] ADVANCED TECHNOLOGY	131,288	131,288	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	980,163	1,286,563	+ 306,400
	ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
27	UNMANNED AERIAL SYSTEM	99,940	99,940	.....
28	LARGE UNMANNED SURFACE VEHICLES [LUSVS]	53,964	46,964	— 7,000
29	AIR/OCEAN TACTICAL APPLICATIONS	41,765	50,765	+ 9,000
30	AVIATION SURVIVABILITY	23,115	23,115	.....
31	NAVAL CONSTRUCTION FORCES	7,866	7,866	.....
32	ASW SYSTEMS DEVELOPMENT	20,033	20,033	.....
33	TACTICAL AIRBORNE RECONNAISSANCE	3,358	3,358	.....
34	ADVANCED COMBAT SYSTEMS TECHNOLOGY	2,051	15,051	+ 13,000
35	SURFACE AND SHALLOW WATER MINE COUNTERMEASURES	29,421	29,421	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
36	SURFACE SHIP TORPEDO DEFENSE	4,790	6,790	+ 2,000
37	CARRIER SYSTEMS DEVELOPMENT	5,659	5,659	.....
38	PILOT FISH	1,007,324	982,324	— 25,000
39	RETRACT LARCH			
40	RETRACT JUNIPER	199,172	199,172	.....
41	RADIOLOGICAL CONTROL	801	801	.....
42	SURFACE ASW	1,194	1,194	.....
43	ADVANCED SUBMARINE SYSTEM DEVELOPMENT	96,694	106,694	+ 10,000
44	SUBMARINE TACTICAL WARFARE SYSTEMS	14,924	14,924	.....
45	SHIP CONCEPT ADVANCED DESIGN	110,800	112,800	+ 2,000
46	SHIP PRELIMINARY DESIGN AND FEASIBILITY STUDIES	52,586	52,586	.....
47	ADVANCED NUCLEAR POWER SYSTEMS	368,002	283,002	— 85,000
48	ADVANCED SURFACE MACHINERY SYSTEMS	93,942	99,942	+ 6,000
49	CHALK EAGLE	137,372	137,372	.....
50	LITTORAL COMBAT SHIP (LCS)	9,132	9,132	.....
51	COMBAT SYSTEM INTEGRATION	20,135	20,135	.....
52	OHIO REPLACEMENT	189,631	197,131	+ 7,500
53	LCS MISSION MODULES	28,801	28,801	.....
54	AUTOMATED TEST AND RE-TEST	10,805	10,805	.....
54A	ATRT ENTERPRISE RAPID CAPABILITY			
55	FRIGATE DEVELOPMENT	107,658	107,658	.....
56	CONVENTIONAL MUNITIONS	8,950	8,950	.....
57	MARINE CORPS GROUND COMBAT/SUPPORT SYSTEM	103,860	87,850	— 16,010
58	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	47,339	47,339	.....
59	OCEAN ENGINEERING TECHNOLOGY DEVELOPMENT	15,587	15,587	.....
60	ENVIRONMENTAL PROTECTION	23,258	24,258	+ 1,000
61	NAVY ENERGY PROGRAM	60,610	78,010	+ 17,400
62	FACILITIES IMPROVEMENT	9,067	9,067	.....
63	CHALK CORAL	459,791	459,791	.....
64	NAVY LOGISTIC PRODUCTIVITY	6,059	6,059	.....
65	RETRACT MAPLE	628,958	611,458	— 17,500
66	LINK PLUMERIA	346,553	346,553	.....
67	RETRACT ELM	99,939	99,939	.....
68	LINK EVERGREEN	460,721	457,721	— 3,000
69	NATO RESEARCH AND DEVELOPMENT	5,151	5,151	.....
70	LAND ATTACK TECHNOLOGY	1,686	1,686	.....
71	JOINT NONLETHAL WEAPONS TESTING	30,263	30,263	.....
72	JOINT PRECISION APPROACH AND LANDING SYSTEMS	4,047	4,047	.....
73	DIRECTED ENERGY AND ELECTRIC WEAPON SYSTEMS	9,877	19,877	+ 10,000
74	F/A-18 INFRARED SEARCH AND TRACK (IRST)	8,630	8,630	.....
75	DIGITAL WARFARE	128,997	128,997	.....
76	SMALL AND MEDIUM UNMANNED UNDERSEA VEHICLES	52,994	57,994	+ 5,000
77	UNMANNED UNDERSEA VEHICLE CORE TECHNOLOGIES	68,152	70,652	+ 2,500
78	RAPID PROTOTYPING, EXPERIMENTATION AND DEMONSTRATION	168,855	106,895	— 61,960
79	LARGE UNMANNED UNDERSEA VEHICLES	6,874	6,874	.....
80	GERALD R FORD CLASS NUCLEAR AIRCRAFT CARRIER	96,670	96,670	.....
82	SURFACE MINE COUNTERMEASURES	15,271	15,271	.....
83	TACTICAL AIR DIRECTIONAL INFRARED COUNTERMEASURES	35,030	35,030	.....
84	NEXT GENERATION LOGISTICS	8,114	8,114	.....
85	FUTURE VERTICAL LIFT (MARITIME STRIKE)	4,796	4,796	.....
86	MARINE AVIATION DEMONSTRATION/VALIDATION	62,317	55,805	— 6,512
87	RAPID TECHNOLOGY CAPABILITY PROTOTYPE	120,392	89,215	— 31,177
88	LX (R)	12,785	9,767	— 3,018
89	ADVANCED UNDERSEA PROTOTYPING	21,466	21,466	.....
90	COUNTER UNMANNED AIRCRAFT SYSTEMS [C-UAS]	14,185	14,185	.....
91	PRECISION STRIKE WEAPONS DEVELOPMENT PROGRAM	5,667	262,667	+ 257,000
92	SPACE AND ELECTRONIC WARFARE [SEW] ARCHITECTURE/ENGINE	8,896	8,896	.....
93	OFFENSIVE ANTI-SURFACE WARFARE WEAPON DEVELOPMENT	341,907	296,164	— 45,743

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
94	MEDIUM UNMANNED SURFACE VEHICLES [MUSVS]	101,838	101,838	.....
95	UNMANNED SURFACE VEHICLE ENABLING CAPABILITIES	92,868	92,868	.....
96	GROUND BASED ANTI-SHIP MISSILE [MARFORRES]	50,916	50,916	.....
97	LONG RANGE FIRES	30,092	30,092	.....
98	CONVENTIONAL PROMPT STRIKE [CPS]	903,927	1,001,627	+ 97,700
99	ASW SYSTEMS DEVELOPMENT—MIP	7,253	7,253	.....
100	ADVANCED TACTICAL UNMANNED AIRCRAFT SYSTEM	3,504	3,504	.....
101	ELECTRONIC WARFARE DEVELOPMENT—MIP	1,395	1,395	.....
102	UNDERSEA ARTIFICIAL INTELLIGENCE / MACHINE LEARNING (AI/ML)	28,563	28,563	.....
	TOTAL, DEMONSTRATION AND VALIDATION	7,465,005	7,603,185	+ 138,180
	SYSTEM DEVELOPMENT AND DEMONSTRATION			
103	TRAINING SYSTEM AIRCRAFT	26,120	26,120	.....
104	MARITIME TARGETING CELL	43,301	43,301	.....
105	OTHER HELO DEVELOPMENT			
106	OTHER HELO DEVELOPMENT			
107	AV-8B AIRCRAFT—ENG DEV	5,320	5,320	.....
108	STANDARDS DEVELOPMENT	5,120	5,120	.....
109	MULTI-MISSION HELICOPTER UPGRADE DEVELOPMENT	60,438	65,438	+ 5,000
110	P-3 MODERNIZATION PROGRAM			
111	WARFARE SUPPORT SYSTEM	108,432	108,432	.....
112	COMMAND AND CONTROL SYSTEMS	164,391	114,391	— 50,000
113	ADVANCED HAWKEYE	301,384	288,268	— 13,116
114	H-1 UPGRADES	39,023	39,023	.....
115	ACOUSTIC SEARCH SENSORS	53,591	53,591	.....
116	V-22A	109,431	103,886	— 5,545
117	AIR CREW SYSTEMS DEVELOPMENT	29,330	29,330	.....
118	EA-18	223,266	172,450	— 50,816
119	ELECTRONIC WARFARE DEVELOPMENT	189,750	182,250	— 7,500
120	EXECUTIVE HELO DEVELOPMENT	51,366	51,366	.....
121	NEXT GENERATION JAMMER [NGJ]	86,721	76,721	— 10,000
122	JOINT TACTICAL RADIO SYSTEM—NAVY [JTRS—Navy]	330,559	336,059	+ 5,500
123	NEXT GENERATION JAMMER [NGJ] INCREMENT II	209,623	147,091	— 62,532
124	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING	528,234	603,234	+ 75,000
124	SURFACE COMBATANT COMBAT SYSTEM ENGINEERING (emergency)		(75,000)	(+ 75,000)
125	SMALL DIAMETER BOMB [SDB]	19,744	19,744	.....
126	STANDARD MISSILE IMPROVEMENTS	468,297	288,297	— 180,000
127	AIRBORNE MCM	11,066	11,066	.....
128	NAVAL INTEGRATED FIRE CONTROL—COUNTER AIR SYSTEMS ENG	41,419	41,419	.....
129	ADVANCED SENSORS APPLICATION PROGRAM (ASAP)		6,000	+ 6,000
130	ADVANCED ABOVE WATER SENSORS	112,231	112,231	.....
131	SSN-688 AND TRIDENT MODERNIZATION	97,953	97,953	.....
132	AIR CONTROL	84,458	64,458	— 20,000
133	SHIPBOARD AVIATION SYSTEMS	10,742	10,742	.....
134	COMBAT INFORMATION CENTER CONVERSION	10,621	10,621	.....
135	AIR AND MISSILE DEFENSE RADAR [AMDR] SYSTEM	107,924	107,924	.....
136	ADVANCED ARRESTING GEAR [AAG]	9,142	11,142	+ 2,000
137	NEW DESIGN SSN	273,848	275,848	+ 2,000
138	SUBMARINE TACTICAL WARFARE SYSTEM	71,982	71,982	.....
139	SHIP CONTRACT DESIGN/LIVE FIRE T&E	13,675	13,675	.....
140	NAVY TACTICAL COMPUTER RESOURCES	3,921	3,921	.....
141	MINE DEVELOPMENT	79,411	79,411	.....
142	LIGHTWEIGHT TORPEDO DEVELOPMENT	137,265	94,465	— 42,800
143	JOINT SERVICE EXPLOSIVE ORDNANCE DEVELOPMENT	8,810	8,810	.....
144	USMC GROUND COMBAT/SUPPORTING ARMS SYSTEMS—ENG DEV	33,880	33,880	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
145	PERSONNEL, TRAINING, SIMULATION, AND HUMAN FACTORS	10,011	10,011	.....
146	JOINT STANDOFF WEAPON SYSTEMS	1,516	1,516	.....
147	SHIP SELF DEFENSE (DETECT AND CONTROL)	170,080	170,080	.....
148	SHIP SELF DEFENSE (ENGAGE: HARD KILL)	74,214	66,584	— 7,630
149	SHIP SELF DEFENSE (ENGAGE: SOFT KILL/EW)	165,599	146,791	— 18,808
150	INTELLIGENCE ENGINEERING	23,810	23,810	.....
151	MEDICAL DEVELOPMENT	8,371	8,371	.....
152	NAVIGATION/ID SYSTEM	44,326	44,326	.....
155	SSN(X)	348,788	322,888	— 25,900
156	INFORMATION TECHNOLOGY DEVELOPMENT—USMC	15,218	15,218	.....
157	INFORMATION TECHNOLOGY DEVELOPMENT—NAVY	325,004	325,004	.....
158	ANTI-TAMPER TECHNOLOGY SUPPORT	3,317	3,317	.....
159	TACAMO MODERNIZATION	775,316	677,798	— 97,518
160	CH-53K	86,093	61,381	— 24,712
161	MISSION PLANNING	115,390	115,390	.....
162	COMMON AVIONICS	87,053	87,053	.....
163	SHIP TO SHORE CONNECTOR [SSC]	5,697	5,697	.....
164	NEXT GENERATION FIGHTER	453,828	953,828	+ 500,000
164	NEXT GENERATION FIGHTER (emergency) .....	.....	(500,000)	(+ 500,000)
165	T-AO 205 CLASS .....	.....	.....	.....
166	UNMANNED CARRIER AVIATION	214,919	203,687	— 11,232
167	JOINT AIR-TO-GROUND MISSILE [JAGM]	20,654	27,654	+ 7,000
168	MULTI-MISSION MARITIME AIRCRAFT [MMA]	39,096	34,096	— 5,000
169	MULTI-MISSION MARITIME AIRCRAFT [MMA] INCREMENT 3 ..	134,366	124,366	— 10,000
170	LONG RANGE FIRES	120,728	120,728	.....
171	MARINE CORPS ASSAULT VEHICLES SYSTEM DEVELOPMENT AND DEMO	60,181	46,739	— 13,442
172	JOINT LIGHT TACTICAL VEHICLE [JLTV] SYSTEM DEVELOP- MENT AND DEMO	10,748	10,748	.....
173	DDG-1000	243,042	173,042	— 70,000
174	COUNTERING ADVANCED CONVENTIONAL WEAPONS (CACW) ..	19,517	19,517	.....
175	NON-KINETIC COUNTERMEASURE SUPPORT	8,324	8,324	.....
179	ISR AND INFO OPERATIONS	188,392	188,392	.....
180	CYBER OPERATIONS TECHNOLOGY DEVELOPMENT	7,581	7,581	.....
	TOTAL, ENGINEERING AND MANUFACTURING DEVEL- OPMENT	7,942,968	7,818,917	— 124,051
	MANAGEMENT SUPPORT .....	.....	.....	.....
181	THREAT SIMULATOR DEVELOPMENT	25,823	25,823	.....
182	TARGET SYSTEMS DEVELOPMENT	17,224	17,224	.....
183	MAJOR T&E INVESTMENT	65,672	65,672	.....
184	STUDIES AND ANALYSIS SUPPORT—NAVY	6,216	6,216	.....
185	CENTER FOR NAVAL ANALYSES	43,648	43,648	.....
187	TECHNICAL INFORMATION SERVICES	1,009	1,009	.....
188	MANAGEMENT, TECHNICAL AND INTERNATIONAL SUPPORT	137,521	142,521	+ 5,000
189	STRATEGIC TECHNICAL SUPPORT	3,536	3,536	.....
190	RDT&E SHIP AND AIRCRAFT SUPPORT	152,176	152,176	.....
191	TEST AND EVALUATION SUPPORT	477,823	477,823	.....
192	OPERATIONAL TEST AND EVALUATION CAPABILITY	30,603	30,603	.....
193	NAVY SPACE AND ELECTRONIC WARFARE [SEW] SUPPORT ...	23,668	23,668	.....
194	SEW SURVEILLANCE/RECONNAISSANCE SUPPORT	6,390	6,390	.....
195	MARINE CORPS PROGRAM WIDE SUPPORT	32,700	32,700	.....
196	MANAGEMENT HEADQUARTERS—R&D	42,381	42,381	.....
197	MARINE AVIATION DEVELOPMENTAL MANAGEMENT AND SUP- PORT	5,000	5,000	.....
198	WARFARE INNOVATION MANAGEMENT	50,652	50,652	.....
199	INSIDER THREAT	2,920	2,920	.....
200	MANAGEMENT HEADQUARTERS (DEPARTMENTAL SUPPORT ACTIVITIES)	2,234	2,234	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, RDT&E MANAGEMENT SUPPORT	1,127,196	1,132,196	+ 5,000
	OPERATIONAL SYSTEMS DEVELOPMENT			
203	F-35 C2D2	480,759	480,759	.....
204	F-35 C2D2	466,186	466,186	.....
205	MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS	74,119	78,208	+ 4,089
206	COOPERATIVE ENGAGEMENT CAPABILITY [CEC]	142,552	137,616	- 4,936
207	STRATEGIC SUB AND WEAPONS SYSTEM SUPPORT	403,494	298,494	- 105,000
208	SSBN SECURITY TECHNOLOGY PROGRAM	61,012	61,012	.....
209	SUBMARINE ACOUSTIC WARFARE DEVELOPMENT	96,667	100,667	+ 4,000
210	NAVY STRATEGIC COMMUNICATIONS	29,743	29,743	.....
211	F/A-18 SQUADRONS	374,194	348,286	- 25,908
212	SURFACE SUPPORT	8,420	15,920	+ 7,500
213	TOMAHAWK AND TOMAHAWK MISSION PLANNING CENTER [TMPC]	200,739	167,739	- 33,000
214	INTEGRATED SURVEILLANCE SYSTEM	72,473	82,473	+ 10,000
215	SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS	1,428	1,428	.....
216	AMPHIBIOUS TACTICAL SUPPORT UNITS	2,238	2,238	.....
217	GROUND/AIR TASK ORIENTED RADAR	51,346	41,346	- 10,000
218	CONSOLIDATED TRAINING SYSTEMS DEVELOPMENT	159,648	159,648	.....
219	ELECTRONIC WARFARE [EW] READINESS SUPPORT	139,164	139,164	.....
221	ANTI-RADIATION MISSILE IMPROVEMENT	28,682	28,682	.....
221	SURFACE ASW COMBAT SYSTEM INTEGRATION	29,887	29,887	.....
222	MK-48 ADCAP	164,935	144,935	- 20,000
223	AVIATION IMPROVEMENTS	136,276	136,276	.....
224	OPERATIONAL NUCLEAR POWER SYSTEMS	167,098	167,098	.....
225	MARINE CORPS COMMUNICATIONS SYSTEMS	145,343	151,343	+ 6,000
226	COMMON AVIATION COMMAND AND CONTROL SYSTEM	18,332	18,332	.....
227	MARINE CORPS GROUND COMBAT/SUPPORTING ARMS SYSTEMS	77,377	75,377	- 2,000
228	MARINE CORPS COMBAT SERVICES SUPPORT	33,641	33,641	.....
229	USMC INTELLIGENCE/ELECTRONIC WARFARE SYSTEMS [MIP]	37,372	37,372	.....
230	AMPHIBIOUS ASSAULT VEHICLE			
231	TACTICAL AIM MISSILES	31,359	31,359	.....
232	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE [AMRAAM]	29,638	29,638	.....
233	PLANNING AND DECISION AID SYSTEM [PDAS]	3,559	3,559	.....
237	AFLOAT NETWORKS	56,915	56,915	.....
238	INFORMATION SYSTEMS SECURITY PROGRAM	35,339	35,339	.....
239	MILITARY INTELLIGENCE PROGRAMS [MIP] ACTIVITIES	7,239	7,239	.....
240	TACTICAL UNMANNED AERIAL VEHICLES			
241	UAS INTEGRATION AND INTEROPERABILITY			
242	DISTRIBUTED COMMON GROUND SYSTEMS/SURFACE SYSTEMS	45,550	45,550	.....
243	MQ-4C TRITON	14,402	14,402	.....
244	MQ-8 UAV			
245	RQ-11 UAV	2,016	2,016	.....
246	SMALL (LEVEL 0) TACTICAL UAS [STUASLO]			
247	MULTI-INTELLIGENCE SENSOR DEVELOPMENT	40,267	40,267	.....
248	UNMANNED AERIAL SYSTEMS [UAS] PAYLOADS [MIP]	10,917	10,917	.....
249	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT			
250	MQ-4C Triton Modernization	444,042	444,042	.....
251	INTELLIGENCE MISSION DATA [IMD]	793	793	.....
252	MODELING AND SIMULATION SUPPORT	10,927	10,927	.....
253	DEPOT MAINTENANCE (NON-IF)	28,799	28,799	.....
254	MARITIME TECHNOLOGY [MARITECH]	4,326	4,326	.....
999	CLASSIFIED PROGRAMS	2,235,339	2,310,339	+ 75,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	6,604,552	6,510,297	— 94,255
	SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS			
255	RISK MANAGEMENT INFORMATION—SOFTWARE PILOT PROGRAM	14,522	14,522	.....
256	MARITIME TACTICAL COMMAND AND CONTROL [MTC2]—SOFTWARE PILOT PROGRAM	10,289	10,289	.....
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	24,811	24,811	.....
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY	25,697,815	26,221,839	+ 524,024
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, NAVY (emergency) .....	.....	(585,000)	(+ 585,000)

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
1	University Research Initiatives	94,259	99,259	+ 5,000
	Program increase: Processing and networking of distributed digital radar .....	.....	.....	+ 5,000
2	Defense Research Sciences	483,914	502,414	+ 18,500
	Program increase: Hypersonic workforce development .....	.....	.....	+ 4,000
	Program increase: Materials and structures in extreme environments .....	.....	.....	+ 6,000
	Program increase: Remote sensing to monitor arctic sea ice .....	.....	.....	+ 6,000
	Program increase: Shaping metallic surfaces for thermal system management .....	.....	.....	+ 2,500
4	Force Protection Applied Research	120,716	219,716	+ 99,000
	Program increase: Additive manufacturing for bonded metal matrix composites .....	.....	.....	+ 5,000
	Program increase: Alternative energy research .....	.....	.....	+ 25,000
	Program increase: Corrosion Control Coatings and Material .....	.....	.....	+ 5,000
	Program increase: Direct air capture and blue carbon removal .....	.....	.....	+ 5,000
	Program increase: Emerging robotic advanced manufacturing technology .....	.....	.....	+ 5,000
	Program increase: Intelligent data management for distributed platforms .....	.....	.....	+ 5,000
	Program increase: Multi-material flexible automated manufacturing .....	.....	.....	+ 5,000
	Program increase: Resilient innovative sustainable economies via university partnerships .....	.....	.....	+ 7,000
	Program increase: Stealth engineering automation .....	.....	.....	+ 10,000
	Program increase: Talent and technology for Navy power and energy systems .....	.....	.....	+ 10,000
	Program increase: University-based advanced materials and manufacturing .....	.....	.....	+ 5,000
	Program increase: UAS degraded environment facility .....	.....	.....	+ 2,000
	Program increase: SIOP (emergency) .....	.....	.....	+ 10,000
5	Marine Corps Landing Force Technology	53,758	58,508	+ 4,750
	Program increase: Unmanned logistics solutions .....	.....	.....	+ 4,750

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
6	Common Picture Applied Research	51,202	53,702	+ 2,500
	Program increase: Embedded cyber systems for naval infrastructure			+ 2,500
7	Warfighter Sustainment Applied Research	76,379	114,879	+ 38,500
	Program increase: Augmented reality robotic surgery ..			+ 5,000
	Program increase: Cross-domain naval robots			+ 10,000
	Program increase: Engineered systems to restore skin and tactile sensory in Navy burn victims			+ 2,500
	Program increase: Foreign malign information operations			+ 1,000
	Program increase: Human digital engineering			+ 2,000
	Program increase: Innovative coatings research			+ 3,000
	Program increase: Physics based neutralization of threats to human tissues and organs			+ 5,000
	Program increase: Rapid applied materials and process development			+ 2,000
	Program increase: Remote vestibular assessment technology			+ 8,000
8	Electromagnetic Systems Applied Research	91,441	99,441	+ 8,000
	Program increase: Dark swarm in denied environments			+ 3,000
	Program increase: Digital airborne radar			+ 1,000
	Program increase: Maritime asymmetric target detection			+ 1,000
	Program increase: Miniaturized full spectrum hyperspectral sensor			+ 3,000
9	Ocean Warfighting Environment Applied Research	78,930	125,430	+ 46,500
	Program increase: Afloat weather forecasting			+ 4,000
	Program increase: Atmospheric river research			+ 2,500
	Program increase: Intelligent autonomous systems for seabed warfare			+ 7,500
	Program increase: Modeling of water-ice interactions for arctic battlefield sensing			+ 3,000
	Program increase: Naval installation climate change risk management			+ 2,500
	Program increase: Ocean acoustics for monitoring			+ 7,000
	Program increase: Pacific infrastructure for continuous engineering and science			+ 15,000
	Program increase: Resilient autonomous sensing in the arctic			+ 5,000
11	Undersea Warfare Applied Research	57,525	119,025	+ 61,500
	Program increase: Low-cost autonomous sensors for maritime dominance			+ 10,000
	Program increase: Multi-functional composite structures for undersea platforms			+ 3,000
	Program increase: Partnerships for submarine and undersea vehicle programs			+ 20,000
	Program increase: Resident autonomous undersea robotics			+ 5,000
	Program increase: SAPF/SCIF university facility upgrades			+ 10,000
	Program increase: Strategic soundscapes for ocean awareness			+ 8,500
	Program increase: Tow-cable monitoring through advanced fiber optic sensing			+ 2,500
	Program increase: Undersea autonomy research facilities capability			+ 2,500
12	Future Naval Capabilities Applied Research	163,673	169,173	+ 5,500
	Program increase: Climate change risk management			+ 2,500
	Program increase: System interconnect for maneuver EW			+ 3,000
13	Mine and Expeditionary Warfare Applied Research	31,460	32,460	+ 1,000
	Program increase: Geophysical sensing and characterization of the mine-hunting environment			+ 1,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
14	Innovative Naval Prototypes [INP] Applied Research	127,363	129,363	+ 2,000
	Program increase: Micro-electromechanical LiDAR			+ 2,000
16	Force Protection Advanced Technology	31,556	34,556	+ 3,000
	Program increase: Deployable additive manufacturing of composite UUVs			+ 3,000
17	Electromagnetic Systems Advanced Technology	8,537	15,037	+ 6,500
	Program increase: Augmented context-based identity awareness			+ 4,000
	Program increase: Wideband RF spectrum monitoring			+ 2,500
19	USMC Advanced Technology Demonstration [ATD]	243,247	284,147	+ 40,900
	Program increase: Arctic medical evacuation and treatment systems			+ 2,000
	Program increase: Autonomous low-profile vessel			+ 6,000
	Program increase: Blue water medium lift logistics UAS			+ 2,000
	Program increase: Composite shelters			+ 3,000
	Program increase: Distributed RF photonic systems			+ 2,500
	Program increase: Distributed wireless systems using RF photonic technology			+ 2,000
	Program increase: Long range maneuvering projectile			+ 7,000
	Program increase: Low-cost attritable aircraft technology			+ 1,900
	Program increase: Low-cost tactical hypersonic long-range fires			+ 10,000
	Program increase: Multifunction persistent elevated sensors			+ 2,000
	Program increase: UAS agile system development			+ 2,500
21	Future Naval Capabilities Advanced Technology Development	262,869	270,869	+ 8,000
	Program increase: Carbon nanotube integration			+ 3,000
	Program increase: Electronic maneuver warfare unmanned sensor			+ 5,000
22	Manufacturing Technology Program	63,084	273,584	+ 210,500
	Program increase			+ 200,000
	Program increase: In-water submarine hull coating inspection			+ 1,000
	Program increase: Metrology and calibration integration			+ 3,000
	Program increase: Plastic explosive manufacturing			+ 6,500
23	Warfighter Protection Advanced Technology	5,105	13,105	+ 8,000
	Program increase: Neuromuscular research lab			+ 3,000
	Program increase: Thermite firefighting robotics			+ 5,000
24	Navy Warfighting Experiments and Demonstrations	97,615	127,115	+ 29,500
	Transfer from RDT&E,DW line 69 for AUKUS innovation initiatives			+ 20,000
	Program increase: JDAM kinetic improvements			+ 2,500
	Program increase: NavalX regional test and evaluation accelerator			+ 2,000
	Program increase: USV cUAS			+ 1,000
	Program increase: Warfighter experience lab			+ 4,000
28	Large Unmanned Surface Vehicles (LUSV)	53,964	46,964	- 7,000
	OUSV operating costs excess to need			- 10,000
	Program increase: LUSV gas turbine power and propulsion			+ 3,000
29	Air/Ocean Tactical Applications	41,765	50,765	+ 9,000
	Program increase: Autonomous surface and sub-surface dual-modality system			+ 9,000
34	Advanced Combat Systems Technology	2,051	15,051	+ 13,000
	Program increase: Threat adaptive command and control—Minotaur			+ 9,000
	Program increase: Universal AI/ML core environment ..			+ 4,000
36	Surface Ship Torpedo Defense	4,790	6,790	+ 2,000
	Program increase: SLQ-25 active sensor integration ..			+ 2,000
38	PILOT FISH	1,007,324	982,324	- 25,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Classified adjustment			— 25,000
43	Advanced Submarine System Development	96,694	106,694	+ 10,000
	Program increase: Advanced hull coatings			+ 10,000
45	Ship Concept Advanced Design	110,800	112,800	+ 2,000
	Program increase: Naval maintenance integration initiative			+ 2,000
47	Advanced Nuclear Power Systems	368,002	283,002	— 85,000
	Rephase based on delays to lead SSN(X) ship			— 85,000
48	Advanced Surface Machinery Systems	93,942	99,942	+ 6,000
	Program increase: Large format lithium ion batteries			+ 6,000
52	Ohio Replacement	189,631	197,131	+ 7,500
	Program increase: Advanced composite shaft design ..			+ 2,000
	Program increase: Multimodal biometric authentication			+ 2,500
	Program increase: Shipyard and ship repair workforce training			+ 3,000
57	Marine Corps Ground Combat/Support System	103,860	87,850	— 16,010
	ARV schedule delay and SSEB early to need			— 3,747
	ARV PMA costs excess to need			— 8,000
	ARV DT&E ahead of need			— 4,263
60	Environmental Protection	23,258	24,258	+ 1,000
	Program increase: Environmental DNA monitoring			+ 1,000
61	Navy Energy Program	60,610	78,010	+ 17,400
	Program increase: Cargo drone advanced batteries			+ 7,400
	Program increase: Marine energy converters			+ 8,000
	Program increase: Marine energy systems for sensors and microgrids			+ 2,000
65	RETRACT MAPLE	628,958	611,458	— 17,500
	Classified adjustment			— 17,500
68	LINK EVERGREEN	460,721	457,721	— 3,000
	Classified adjustment			— 3,000
73	Directed Energy and Electric Weapon Systems	9,877	19,877	+ 10,000
	Program increase: 100KW directed energy production			+ 10,000
76	Small and Medium Unmanned Undersea Vehicles	52,994	57,994	+ 5,000
	Program increase: MUUV EDM articles			+ 5,000
77	Unmanned Undersea Vehicle Core Technologies	68,152	70,652	+ 2,500
	Program increase: Mobile testbed for UUVs			+ 2,500
78	Rapid Prototyping, Experimentation and Demonstration.	168,855	106,895	— 61,960
	Excess program growth			— 61,960
	Realignment out of Rapid Prototyping, Experimentation and Demonstration program			— 106,895
	Realignment into Rapid Defense Innovation Reserve program			+ 106,895
86	Marine Aviation Demonstration/Validation	62,317	55,805	— 6,512
	Test and evaluation excess to need			— 1,611
	Development support disparity			— 4,901
87	Rapid Technology Capability Prototype	120,392	89,215	— 31,177
	Excess program growth			— 44,177
	Program increase: Hydrofoiling wing-in ground prototype			+ 10,000
	Program increase: MCWL support			+ 3,000
	Realignment out of Rapid Prototyping, Experimentation and Demonstration program			— 89,215
	Realignment into Rapid Defense Innovation Reserve program			+ 89,215
88	LX (R)	12,785	9,767	— 3,018
	Prior year carryover			— 3,018
91	Precision Strike Weapons Development Program	5,667	262,667	+ 257,000
	Program increase: Advanced energetic inspection methodology			+ 2,500
	Program increase: Advanced rocket fuel density			+ 2,500
	Program increase: SLCM—N			+ 252,000
93	Offensive Anti-Surface Warfare Weapon Development	341,907	296,164	— 45,743

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Inc II prior year overestimation of Inc II NSMA contract savings			— 18,707
	Inc II EMD repricing			— 14,036
	Inc II DT&E carryover			— 3,000
	LRASM C-3 phase 3 definitization delay			— 10,000
98	CONVENTIONAL PROMPT STRIKE [CPS]	903,927	1,001,627	+ 97,700
	Realignment from line 173 for two additional AURs ..			+ 70,000
	Program increase: 2 AUR + Cs			+ 25,700
	Program increase: Silicon carbide ceramic composites			+ 2,000
109	Multi-Mission Helicopter Upgrade Development	60,438	65,438	+ 5,000
	Program increase: MH-60 capability upgrades			+ 5,000
112	Command and Control Systems	164,391	114,391	— 50,000
	NOBLE unjustified growth			— 50,000
113	Advanced Hawkeye	301,384	288,268	— 13,116
	Support costs excess to need			— 15,000
	ITT forward financing			— 13,116
	Program increase: Radar improvement			+ 15,000
116	V-22A	109,431	103,886	— 5,545
	JARVIS project 1425 realignment not captured			— 1,206
	Prior year product development carryover			— 4,339
118	EA-18	223,266	172,450	— 50,816
	Rephase Blk 2 spend plan by one quarter			— 55,816
	Program increase: Assured communications and EMI mitigation			+ 5,000
119	Electronic Warfare Development	189,750	182,250	— 7,500
	DBD ahead of need			— 6,200
	DBD government support carryover			— 1,300
121	Next Generation Jammer [NGJ]	86,721	76,721	— 10,000
	MBX award delay			— 10,000
122	Joint Tactical Radio System—Navy [JTRS—Navy]	330,559	336,059	+ 5,500
	Program increase: Undersea communications network			+ 5,500
123	Next Generation Jammer [NGJ] Increment II	209,623	147,091	— 62,532
	EMD contract delay			— 42,532
	Rephase annualized costs due to EMD delay			— 20,000
124	Surface Combatant Combat System Engineering	528,234	603,234	+ 75,000
	Program increase: AEGIS PAC-3 integration (emergency)			+ 75,000
126	Standard Missile Improvements	468,297	288,297	— 180,000
	Blk 1B acquisition strategy change			— 180,000
129	Advanced Sensors Application Program (ASAP)		6,000	+ 6,000
	Program increase			+ 6,000
132	Air Control	84,458	64,458	— 20,000
	SPN-XX acquisition strategy change			— 20,000
136	Advanced Arresting Gear [AAG]	9,142	11,142	+ 2,000
	Program increase: AAG/EMALS model-based systems engineering			+ 2,000
137	New Design SSN	273,848	275,848	+ 2,000
	Program increase: Portable underwater communication system			+ 2,000
142	Lightweight Torpedo Development	137,265	94,465	— 42,800
	Acquisition strategy change and POM delay			— 30,000
	Platform integration ahead of need			— 12,800
148	Ship Self Defense (Engage: Hard Kill)	74,214	66,584	— 7,630
	NGLS excess to need			— 7,630
149	Ship Self Defense (Engage: Soft Kill/EW)	165,599	146,791	— 18,808
	SOEA contract delay and vendor reduction			— 18,808
155	SSN(X)	348,788	322,888	— 25,900
	Prior year carryover			— 27,900
	Program increase: Cybersecurity situational awareness for submarines			+ 2,000
159	TACAMO Modernization	775,316	677,798	— 97,518
	Prior year VLF and air vehicle design contract savings			— 27,518
	EMD SEPM unjustified request			— 70,000
160	CH-53K RDTE	86,093	61,381	— 24,712

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Improvement carryover			– 24,712
164	Next Generation Fighter	453,828	953,828	+ 500,000
	Classified adjustment (emergency)			+ 500,000
166	Unmanned Carrier Aviation (UCA)	214,919	203,687	– 11,232
	Air systems engineering overestimation			– 11,232
167	Joint Air-to-Ground Missile (JAGM)	20,654	27,654	+ 7,000
	Program increase: cUAS hard kill			+ 7,000
168	Multi-mission Maritime Aircraft (MMA)	39,096	34,096	– 5,000
	RCI expenditure delays			– 5,000
169	Multi-Mission Maritime (MMA) Increment III	134,366	124,366	– 10,000
	ECP 6/7 expenditure delays			– 10,000
171	Marine Corps Assault Vehicles System Development & Demonstration	60,181	46,739	– 13,442
	ACV–R SDD excess to need			– 13,442
173	DDG–1000	243,042	173,042	– 70,000
	Realignment to line 98 for two additional AURs			– 70,000
188	Management, Technical & International Support	137,521	142,521	+ 5,000
	Program increase: Alternative navigation			+ 5,000
205	MARINE CORPS AIR DEFENSE WEAPONS SYSTEMS	74,119	78,208	+ 4,089
	MRIC testing excess to need			– 2,411
	Program increase: AESA IFF for MADIS and MRIC			+ 2,500
	Program increase: High-power microwave for cUAS			+ 4,000
206	Cooperative Engagement Capability (CEC)	142,552	137,616	– 4,936
	Antenna development excess to OTA			– 4,936
207	Strategic Sub & Weapons System Support	403,494	298,494	– 105,000
	D5LE2 EMD transition phasing			– 60,000
	Overestimation of W93/Mk7 ramp			– 45,000
209	Submarine Acoustic Warfare Development	96,667	100,667	+ 4,000
	Program increase: Accelerate revolver integration			+ 4,000
211	F/A–18 Squadrons	374,194	348,286	– 25,908
	ADVEW OTA excess to need			– 7,908
	Prior year carryover			– 12,000
	Overestimation of data fusion requirements			– 6,000
212	Surface Support	8,420	15,920	+ 7,500
	Program increase: Composite improvements for MK41 VLS			+ 7,500
213	Tomahawk and Tomahawk Mission Planning Center [TMPC]	200,739	167,739	– 33,000
	GEU–R EDM concurrency			– 10,000
	MST vendor staffing reprice			– 17,000
	JMEWS transition to LRIP			– 6,000
214	Integrated Surveillance System	72,473	82,473	+ 10,000
	Program increase: DSS mobile passive acoustic sensing			+ 10,000
217	Ground/Air Task Oriented Radar (G/ATOR)	51,346	41,346	– 10,000
	Expenditure delays			– 10,000
222	MK–48 ADCAP	164,935	144,935	– 20,000
	MOD 8 and 9 development delays			– 20,000
225	Marine Corps Communications Systems	145,343	151,343	+ 6,000
	Transfer from Procurement, Marine Corps line 21 for MEGFoS mounted			+ 6,000
227	Marine Corps Ground Combat/Supporting Arms Systems	77,377	75,377	– 2,000
	LVC–TE requirements change			– 2,000
999	Classified Programs	2,235,339	2,310,339	+ 75,000
	Classified adjustment			+ 75,000

Nanolayered Film Capacitors.—The Committee commends the Department of the Navy, specifically the Office of Naval Research, for its investments in nanolayered plastic film processing technology. Innovative nanolayered film for capacitors can increase energy storage and device operation temperatures in a wide variety of electrical applications. These investments are necessary to maintain leading edge technology, strengthen the domestic industrial

et and Emergency Deficit Control Act of 1985. This is \$2,278,966,000 below the budget estimate.

COMMITTEE RECOMMENDED PROGRAM

The following table summarizes the budget estimate for this appropriation, the Committee recommendation, and the Committee recommended adjustments to the budget estimate:

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	RESEARCH, DEVELOPMENT, TEST & EVALUATION, AIR FORCE			
	BASIC RESEARCH			
1	DEFENSE RESEARCH SCIENCES	361,930	370,930	+ 9,000
2	UNIVERSITY RESEARCH INITIATIVES	143,372	148,372	+ 5,000
	TOTAL, BASIC RESEARCH	505,302	519,302	+ 14,000
	APPLIED RESEARCH			
3	FUTURE AF CAPABILITIES APPLIED RESEARCH	85,477	85,477	.....
4	UNIVERSITY AFFILIATED RESEARCH CENTER (UARC)—TACTICAL AUTONOMY	8,225	8,225	.....
5	MATERIALS	142,336	197,336	+ 55,000
6	AEROSPACE VEHICLE TECHNOLOGIES	5,235	10,235	+ 5,000
7	HUMAN EFFECTIVENESS APPLIED RESEARCH	138,204	119,225	— 18,979
8	AEROSPACE PROPULSION	339,477	299,977	— 39,500
9	AEROSPACE SENSORS	193,029	214,029	+ 21,000
11	SCIENCE AND TECHNOLOGY MANAGEMENT—MAJOR HEAD-QUARTERS	9,662	9,662	.....
12	CONVENTIONAL MUNITIONS	138,497	143,997	+ 5,500
13	DIRECTED ENERGY TECHNOLOGY	114,962	81,062	— 33,900
14	DOMINANT INFORMATION SCIENCES AND METHODS	176,333	238,833	+ 62,500
	TOTAL, APPLIED RESEARCH	1,351,437	1,408,058	+ 56,621
	ADVANCED TECHNOLOGY DEVELOPMENT			
15	FUTURE AF INTEGRATED TECHNOLOGY DEMOS	248,506	190,302	— 58,204
16	ADVANCED MATERIALS FOR WEAPON SYSTEMS	29,661	32,161	+ 2,500
17	SUSTAINMENT SCIENCE AND TECHNOLOGY [S&T]	12,558	5,668	— 6,890
18	ADVANCED AEROSPACE SENSORS	37,935	42,935	+ 5,000
19	AEROSPACE TECHNOLOGY DEV/DEMO	102,529	79,129	— 23,400
20	AEROSPACE PROPULSION AND POWER TECHNOLOGY			
21	ELECTRONIC COMBAT TECHNOLOGY	36,445	36,445	.....
22	SCIENCE AND TECHNOLOGY FOR NUCLEAR RE-ENTRY SYSTEMS	91,885	91,885	.....
23	MAUI SPACE SURVEILLANCE SYSTEM [MSSS]			
24	HUMAN EFFECTIVENESS ADVANCED TECHNOLOGY DEVELOPMENT	19,568	16,108	— 3,460
25	CONVENTIONAL WEAPONS TECHNOLOGY	125,460	125,460	.....
26	ADVANCED WEAPONS TECHNOLOGY	25,050	25,050	.....
27	MANUFACTURING TECHNOLOGY PROGRAM	34,730	73,730	+ 39,000
28	BATTLESPACE KNOWLEDGE DEVELOPMENT AND DEMONSTRATION	26,172	28,672	+ 2,500
29	DEPLOYMENT & DISTRIBUTION ENTERPRISE R&D	27,762	13,881	— 13,881
30	CONTROL AND REPORTING CENTER [CRC]	2,012	2,012	.....
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	820,273	763,438	— 56,835
	ADVANCED COMPONENT DEVELOPMENT			
32	INTELLIGENCE ADVANCED DEVELOPMENT	3,820	3,820	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
33	COMBAT IDENTIFICATION TECHNOLOGY	24,799	16,790	— 8,009
34	NATO RESEARCH AND DEVELOPMENT	4,498	2,298	— 2,200
35	INTERCONTINENTAL BALLISTIC MISSILE—DEM/VAL	119,197	121,197	+ 2,000
36	NC3 ADVANCED CONCEPTS	10,148	5,548	— 4,600
37	ADVANCED BATTLE MANAGEMENT SYSTEM [ABMS]	743,842	610,309	— 133,533
38	ADVANCED ENGINE DEVELOPMENT	562,337	.....	— 562,337
38A	NEXT GENERATION ADAPTIVE PROPULSION .....	.....	842,337	+ 842,337
39	NC3 COMMERCIAL DEVELOPMENT AND PROTOTYPING	68,124	47,124	— 21,000
41	E-7	418,513	401,577	— 16,936
42	AFWERX PRIME	20,580	67,580	+ 47,000
43	LONG RANGE STRIKE—BOMBER	2,654,073	2,654,073	.....
44	RAPID DEFENSE EXPERIMENTATION RESERVE [RDER]	75,051	47,512	— 27,539
45	DIRECTED ENERGY PROTOTYPING	3,712	1,312	— 2,400
46	HYPERSONICS PROTOTYPING .....	.....	.....	.....
47	HYPERSONICS PROTOTYPING—HYPERSONIC ATTACK CRUISE MISSILE [HACM]	516,971	516,971	.....
48	PNT RESILIENCY, MODS AND IMPROVEMENTS .....	.....	.....	.....
49	ADVANCED TECHNOLOGY AND SENSORS	24,204	7,422	— 16,782
50	SURVIVABLE AIRBORNE OPERATIONS CENTER	1,687,500	1,687,500	.....
51	TECHNOLOGY TRANSFER	3,485	19,485	+ 16,000
52	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM	154,417	77,533	— 76,884
53	CYBER RESILIENCY OF WEAPON SYSTEMS—ACS	59,539	45,555	— 13,984
55	REQUIREMENTS ANALYSIS & CONCEPT MATURATION	22,667	.....	— 22,667
56	JOINT TRANSPORTATION MANAGEMENT SYSTEM [JTMS]	174,723	108,094	— 66,629
57	DEPLOYMENT AND DISTRIBUTION ENTERPRISE R&D	4,840	4,840	.....
58	TECH TRANSITION PROGRAM	234,342	248,842	+ 14,500
59	OPERATIONAL ENERGY AND INSTALLATION RESILIENCE	63,194	52,194	— 11,000
60	NEXT GENERATION AIR—REFUELING SYSTEM	7,014	7,014	.....
61	AIR REFUELING CAPABILITY MODERNIZATION	13,661	13,661	.....
62	DIGITAL TRANSFORMATION OFFICE	9,800	.....	— 9,800
64	NEXT GENERATION AIR DOMINANCE	3,306,355	2,749,208	— 557,147
64A	COLLABORATIVE COMBAT AIRCRAFT .....	.....	486,747	+ 486,747
65	AUTONOMOUS COLLABORATIVE PLATFORMS	51,666	50,666	— 1,000
66	COMBAT IDENTIFICATION	1,914	1,914	.....
67	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	18,733	.....	— 18,733
67A	AIR FORCE ISR DIGITAL INFRASTRUCTURE .....	.....	18,733	+ 18,733
68	C2ISR TACTICAL DATA LINK	42,371	21,186	— 21,185
69	THREE DIMENSIONAL LONG-RANGE RADAR (3DELRR)	8,100	8,100	.....
70	AIRBASE AIR DEFENSE SYSTEMS [ABADS]	17,273	17,273	.....
71	JOINT SIMULATION ENVIRONMENT (USE)	191,337	179,615	— 11,722
72	WAR RESERVE MATERIEL—AMMUNITION	5,226	5,226	.....
73	COMMON DATA LINK EXECUTIVE AGENT [CDL EA]	33,349	33,349	.....
74	MISSION PARTNER ENVIRONMENTS	22,028	18,438	— 3,590
77	RAPID SUSTAINMENT MODERNIZATION [RSM]	37,044	42,044	+ 5,000
78	SPECIAL VICTIM ACCOUNTABILITY AND INVESTIGATION	3,006	3,006	.....
79	INTEGRATED PRIMARY PREVENTION	5,364	5,364	.....
80	CONTRACTING INFORMATION TECHNOLOGY SYSTEM	28,995	28,995	.....
81	US SPACE COMMAND RESEARCH AND DEVELOPMENT SUPPORT	28,392	21,499	— 6,893
	TOTAL, ADVANCED COMPONENT DEVELOPMENT	11,486,204	11,301,951	— 184,253
	SYSTEM DEVELOPMENT AND DEMONSTRATION .....	.....	.....	.....
82	FUTURE ADVANCED WEAPON ANALYSIS AND PROGRAMS	7,205	7,205	.....
83	PNT RESILIENCY, MODS AND IMPROVEMENTS	217,662	217,662	.....
84	NUCLEAR WEAPONS SUPPORT	70,823	70,823	.....
85	ELECTRONIC WARFARE DEVELOPMENT	19,264	15,754	— 3,510
86	TACTICAL DATA NETWORKS ENTERPRISE	78,480	78,480	.....
87	PHYSICAL SECURITY EQUIPMENT	10,569	10,569	.....
88	HARD AND DEEPLY BURIED TARGET DEFEAT SYSTEM (HDBTDS) PROTOTYPING	39,079	26,329	— 12,750

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
89	ARMAMENT/ORDNANCE DEVELOPMENT	7,157	5,417	— 1,740
90	SUBMUNITIONS	3,427	3,427	.....
91	AGILE COMBAT SUPPORT	24,178	24,716	+ 538
92	LIFE SUPPORT SYSTEMS	25,502	24,502	— 1,000
93	COMBAT TRAINING RANGES	224,783	160,783	— 64,000
94	LONG RANGE STANDOFF WEAPON	623,491	593,926	— 29,565
95	ICBM FUZE MODERNIZATION	10,408	.....	— 10,408
96	JOINT TACTICAL NETWORK CENTER [JTNC]			
97	JOINT TACTICAL NETWORK [JTN]			
98	OPEN ARCHITECTURE MANAGEMENT	41,223	41,223	.....
100	ADVANCED PILOT TRAINING	83,985	68,789	— 15,196
101	COMBAT RESCUE HELICOPTER HH-60W			
102	GROUND BASED STRATEGIC DETERRENT EMD	3,721,024	3,921,024	+ 200,000
103	F-15 EPAWSS			
104	ISOLATED PERSONNEL SURVIVABILITY AND RECOVERY	10,020	10,020	.....
105	STAND IN ATTACK WEAPON	375,528	346,341	— 29,187
106	FULL COMBAT MISSION TRAINING	7,754	7,754	.....
107	MEDICAL C-CBRNE PROGRAMS			
111	THEATER NUCLEAR WEAPON STORAGE & SECURITY SYSTEM	9,018	2,000	— 7,018
112	ENDURANCE UNMANNED AERIAL VEHICLES			
113	KC-46A TANKER SQUADRONS	93,620	77,804	— 15,816
114	VC-25B	433,943	433,943	.....
115	AUTOMATED TEST SYSTEMS	26,640	21,634	— 5,006
116	TRAINING DEVELOPMENTS	4,960	4,960	.....
117	COMBAT SURVIVOR EVADER LOCATOR	2,269	1,135	— 1,134
117A	OVER-THE-HORIZON BACKSCATTER RADAR .....	.....	377,394	+ 377,394
	TOTAL, ENGINEERING AND MANUFACTURING DEVELOPMENT	6,172,012	6,553,614	+ 381,602
	MANAGEMENT SUPPORT			
118	THREAT SIMULATOR DEVELOPMENT	19,927	17,291	— 2,636
119	MAJOR T&E INVESTMENT	74,228	74,228	.....
120	RAND PROJECT AIR FORCE	39,720	33,520	— 6,200
122	INITIAL OPERATIONAL TEST AND EVALUATION	14,247	14,247	.....
123	TEST AND EVALUATION SUPPORT	936,913	939,413	+ 2,500
124	ACQ WORKFORCE- GLOBAL VIG AND COMBAT SYS	316,924	316,924	.....
125	ACQ WORKFORCE- GLOBAL REACH	496,740	496,740	.....
126	ACQ WORKFORCE- CYBER, NETWORK, AND BUS SYS	521,987	475,792	— 46,195
128	ACQ WORKFORCE- CAPABILITY INTEGRATION	262,349	262,349	.....
129	ACQ WORKFORCE- ADVANCED PRGM TECHNOLOGY	69,319	69,319	.....
130	ACQ WORKFORCE- NUCLEAR SYSTEMS	343,180	321,780	— 21,400
131	MANAGEMENT HQ—R&D	6,291	6,291	.....
132	FACILITIES RESTORATION & MODERNIZATION—TEST AND EVAL	94,828	70,828	— 24,000
133	FACILITIES SUSTAINMENT—TEST AND EVALUATION SUPPORT	63,579	63,579	.....
134	REQUIREMENTS ANALYSIS AND MATURATION	41,550	33,950	— 7,600
135	MANAGEMENT HQ—T&E	7,647	7,647	.....
137	COMMAND, CONTROL, COMMUNICATION, AND COMPUTERS (C4)—STRATCOM	19,607	39,607	+ 20,000
138	ENTERPRISE INFORMATION SERVICES [EIS]	104,133	104,133	.....
139	ACQUISITION AND MANAGEMENT SUPPORT	25,216	28,216	+ 3,000
140	GENERAL SKILL TRAINING	10	.....	— 10
141	ADVANCED DISTRIBUTED LEARNING	1,652	6,828	+ 5,176
143	INTERNATIONAL ACTIVITIES	4,590	4,254	— 336
143A	DIGITAL TRANSFORMATION OFFICE .....	.....	21,700	+ 21,700

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	TOTAL, RDT&E MANAGEMENT SUPPORT	3,464,637	3,408,636	— 56,001
	OPERATIONAL SYSTEMS DEVELOPMENT			
144	SPECIALIZED UNDERGRADUATE FLIGHT TRAINING	39,667	22,053	— 17,614
145	TACTICAL DATA NETWORKS ENTERPRISE	22		— 22
146	BATTLE MGMT COM AND CTRL SENSOR DEVELOPMENT	100,183	100,183	
147	WIDE AREA SURVEILLANCE	21,443	21,443	
148	AGILE COMBAT SUPPORT			
150	F-35 C2D2	1,124,207	1,134,207	+ 10,000
151	AF INTEGRATED PERSONNEL AND PAY SYSTEM [AF-IPPS]	49,739	49,739	
152	ANTI-TAMPER TECHNOLOGY EXECUTIVE AGENCY	65,792	56,492	— 9,300
153	FOREIGN MATERIEL ACQUISITION AND EXPLOITATION	94,188	94,188	
154	HH-60W	52,314	39,629	— 12,685
155	HC/MC-130 RECAP RDT&E	24,934	16,085	— 8,849
156	NC3 INTEGRATION	21,864	21,864	
157	B-52 SQUADRONS	1,045,570	1,041,616	— 3,954
158	AIR-LAUNCHED CRUISE MISSILE [ALCM]	542	542	
159	B-1B SQUADRONS	17,939	17,939	
160	B-2 SQUADRONS	41,212	37,862	— 3,350
161	MINUTEMAN SQUADRONS	62,550	60,820	— 1,730
162	WORLDWIDE JOINT STRATEGIC COMMUNICATIONS	13,690	13,690	
163	SERVICE SUPPORT TO STRATCOM—GLOBAL STRIKE	7,330	7,330	
165	ICBM REENTRY VEHICLES	629,928	551,495	— 78,433
167	MH-139A		15,000	+ 15,000
168	REGION/SECTOR OPERATION CONTROL CENTER MODERNIZA- TION	852	852	
169	NORTH WARNING SYSTEM [NWS]	103		— 103
170	OVER-THE-HORIZON BACKSCATTER RADAR	383,575		— 383,575
171	VEHICLES AND SUPPORT EQUIPMENT —GENERAL	6,097	6,097	
172	MQ-9 UAV	7,074	7,074	
173	JOINT COUNTER RCIED ELECTRONIC WARFARE	3,372	3,372	
174	MULTI-PLATFORM ELECTRONIC WARFARE EQUIPMENT			
176	F-16 SQUADRONS	106,952	104,252	— 2,700
177	F-15E SQUADRONS	178,603	232,997	+ 54,394
177	F-15E SQUADRONS (emergency)		(74,394)	(+ 74,394)
178	MANNED DESTRUCTIVE SUPPRESSION	16,182	13,855	— 2,327
179	F-22 SQUADRONS	768,561	758,754	— 9,807
180	F-35 SQUADRONS	47,132	47,132	
181	F-15EX	56,228	56,228	
182	TACTICAL AIM MISSILES	34,932	34,932	
183	ADVANCED MEDIUM RANGE AIR-TO-AIR MISSILE [AMRAAM]	53,593	53,593	
184	COMBAT RESCUE—PARARESCUE	743	743	
185	E-11A	64,127	63,252	— 875
186	AF TENCAP	50,263	50,263	
187	PRECISION ATTACK SYSTEMS PROCUREMENT	12,723	9,423	— 3,300
188	COMPASS CALL	132,475	132,475	
189	AIRCRAFT ENGINE COMPONENT IMPROVEMENT PROGRAM	68,743	66,632	— 2,111
190	JOINT AIR-TO-SURFACE STANDOFF MISSILE [JASSM]	183,532	181,692	— 1,840
191	SMALL DIAMETER BOMB [SDB]	29,910	31,910	+ 2,000
192	AIR AND SPACE OPERATIONS CENTER [AOC]	71,442	65,102	— 6,340
193	CONTROL AND REPORTING CENTER [CRC]	18,473	16,856	— 1,617
195	AFSPECWAR—TACP	2,206	1,433	— 773
	TACTICAL AIRBORNE CONTROL SYSTEMS AFSPECWAR—TACP			
197	COMBAT AIR INTELLIGENCE SYSTEM ACTIVITIES	46,702	25,049	— 21,653
197A	AF JWICS ENTERPRISE		9,445	+ 9,445
198	THEATER BATTLE MANAGEMENT [TBM] C41	4,873	4,401	— 472
199	ELECTRONIC WARFARE INTEGRATED REPROGRAMMING [EWIR]	17,149	13,577	— 3,572
200	TACTICAL AIR CONTROL PARTY—MOD	12,171	12,171	
201	DCAPES	8,431	8,431	

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
202	AIR FORCE CALIBRATION PROGRAMS	2,223	2,223	.....
203	NATIONAL TECHNICAL NUCLEAR FORENSICS	2,060	2,060	.....
204	SEEK EAGLE	34,985	34,985	.....
206	WARGAMING AND SIMULATION CENTERS			
207	DISTRIBUTED TRAINING AND EXERCISES	4,847	3,964	— 883
208	FULL COMBAT MISSION TRAINING	7,048	3,948	— 3,100
209	MISSION PLANNING SYSTEMS	92,566	80,709	— 11,857
210	TACTICAL DECEPTION	539	539	.....
212	DISTRIBUTED CYBER WARFARE OPERATIONS	29,996	29,996	.....
213	AF DEFENSIVE CYBERSPACE OPERATIONS	113,218	121,218	+ 8,000
219	INTEL DATA APPLICATIONS	988	988	.....
220	GEOBASE	1,002	.....	— 1,002
222	CYBER SECURITY INTELLIGENCE SUPPORT	18,141	18,141	.....
228	COUNTERING ADVANCED CONVENTIONAL WEAPONS (CACW)	1,668	834	— 834
230	AIR FORCE SPACE AND CYBER NON-TRADITIONAL ISR FOR BATTLESPACE AWARENESS	3,436	3,006	— 430
231	E-4B NATIONAL AIRBORNE OPERATIONS CENTER [NAOC]	40,441	40,441	.....
232	NON-KINETIC COUNTERMEASURE SUPPORT	15,180	7,590	— 7,590
233	EIT CONNECT	32,960	16,120	— 16,840
234	CYBERSPACE OPERATIONS SYSTEMS	9,776	9,776	.....
235	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NET- WORK	25,500	25,500	.....
236	HIGH FREQUENCY RADIO SYSTEMS	8,667	8,667	.....
237	INFORMATION SYSTEMS SECURITY PROGRAM	94,424	94,424	.....
238	ALL DOMAIN COMMON PLATFORM	82,927	82,927	.....
239	JOINT MILITARY DECEPTION INITIATIVE	7,324	7,324	.....
240	STRATEGIC MISSION PLANNING AND EXECUTION SYSTEM (SMPES)	69,441	69,441	.....
243	AIRBORNE SIGINT ENTERPRISE	85,284	85,284	.....
244	COMMERCIAL ECONOMIC ANALYSIS	4,719	4,719	.....
247	C2 AIR OPERATIONS SUITE—C2 INFO SERVICES	13,524	13,524	.....
248	CCMD INTELLIGENCE INFORMATION TECHNOLOGY	1,836	1,836	.....
249	ISR MODERNIZATION AND AUTOMATION DVMT [IMAD]	22,909	15,787	— 7,122
250	GLOBAL AIR TRAFFIC MANAGEMENT [GATM]	5,151	5,151	.....
251	CYBER SECURITY INITIATIVE	304	304	.....
252	WEATHER SERVICE	31,372	55,372	+ 24,000
253	AIR TRAFFIC CONTROL, APPROACH, AND LANDING SYSTEM [ATC]	15,143	15,143	.....
254	AERIAL TARGETS	7,685	6,085	— 1,600
257	SECURITY AND INVESTIGATIVE ACTIVITIES	481	481	.....
258	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	6,387	6,387	.....
259	TACTICAL TERMINAL	1,002	501	— 501
260	INTEGRATED BROADCAST SERVICE	16,006	16,006	.....
261	DRAGON U-2			
262	AIRBORNE RECONNAISSANCE SYSTEMS	84,363	69,163	— 15,200
263	MANNED RECONNAISSANCE SYSTEMS	16,323	16,323	.....
264	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	86,476	86,476	.....
265	RQ-4 UAV	9,516	2,516	— 7,000
266	NETWORK-CENTRIC COLLABORATIVE TARGET [TIARA]	8,952	8,952	.....
267	NATO AGS	865	865	.....
268	SUPPORT TO DCGS ENTERPRISE	30,932	32,682	+ 1,750
269	INTERNATIONAL INTELLIGENCE TECHNOLOGY AND ARCHITEC- TURES	18,670	17,784	— 886
270	RAPID CYBER ACQUISITION			
271	PERSONNEL RECOVERY COMMAND AND CTRL [PRC2]	2,831	2,831	.....
272	INTELLIGENCE MISSION DATA [IMD]	3,658	3,658	.....
273	C-130 AIRLIFT SQUADRON			
274	C-5 AIRLIFT SQUADRONS	33,003	32,903	— 100
275	C-17 AIRCRAFT	17,395	11,986	— 5,409

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
276	C-130J PROGRAM	34,423	63,533	+ 29,110
277	LARGE AIRCRAFT IR COUNTERMEASURES [LAIRCM]	7,768	7,768	.....
278	KC-135S	31,977	31,977	.....
279	CV-22	26,249	26,249	.....
280	SPECIAL TACTICS / COMBAT CONTROL	9,421	9,421	.....
282	LOGISTICS INFORMATION TECHNOLOGY [LOGIT]	11,895	11,895	.....
283	AF LVC OPERATIONAL TRAINING (LVC-OT)	29,815	27,535	- 2,280
284	OTHER FLIGHT TRAINING	2,319	1,159	- 1,160
285	JOINT PERSONNEL RECOVERY AGENCY	2,320	2,320	.....
286	CIVILIAN COMPENSATION PROGRAM	4,267	4,267	.....
287	PERSONNEL ADMINISTRATION	3,163	3,163	.....
288	AIR FORCE STUDIES AND ANALYSIS AGENCY	18,937	945	- 17,992
289	FINANCIAL MANAGEMENT INFORMATION SYSTEMS DEVELOPMENT	5,634	5,634	.....
290	DEFENSE ENTERPRISE ACNTNG AND MGT SYS [DEAMS]	57,689	57,689	.....
291	SERVICE SUPPORT TO SPACECOM ACTIVITIES			
9999	CLASSIFIED PROGRAMS	18,038,552	16,129,541	- 1,909,011
	UNDISTRIBUTED			
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	25,308,906	22,874,806	- 2,434,100
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE	49,108,771	46,829,805	- 2,278,966
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, AIR FORCE (emergency)		(74,394)	(+ 74,394)

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
1	Defense Research Sciences	361,930	370,930	+ 9,000
	Program increase: Harnessing the superconducting diode effect for low-energy quantum circuits			+ 2,000
	Program increase: Photonic devices and systems for integrated sensing and communications			+ 2,000
	Program increase: Quantum electronic research			+ 2,000
	Program increase: Ultrawideband antenna systems			+ 3,000
2	University Research Initiatives	143,372	148,372	+ 5,000
	Program increase: Gigahertz-terahertz research			+ 3,000
	Program increase: Materials for electronic and cyber applications research			+ 2,000
5	Materials	142,336	197,336	+ 55,000
	Program increase: Analytical simulation of composites for hypersonics			+ 5,000
	Program increase: Additive manufacturing of alloys			+ 2,000
	Program increase: Biomaterials for ground infrastructure reinforcement			+ 2,500
	Program increase: Biomineralization of subgrade materials for runways			+ 6,000
	Program increase: Continuous fiber 3D printing for hypersonic applications			+ 4,000
	Program increase: High energy synchrotron x-ray research			+ 9,000
	Program increase: Materials for rapid runway augmentation			+ 5,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Mxene composites for electromagnetic interference shielding			+ 2,000
	Program increase: Next generation small satellite technology			+ 10,000
	Program increase: Non-electric ratio frequency devices and systems for distributed operations			+ 3,000
	Program increase: Scanning and additive manufacturing			+ 1,000
	Program increase: Thermal protection for hypersonic vehicles			+ 5,500
6	Aerospace Vehicle Technologies	5,235	10,235	+ 5,000
	Program increase: Full-scale determinant assembly for hypersonic airframe structures			+ 5,000
7	Human Effectiveness Applied Research	138,204	119,225	— 18,979
	Learning and operational training excess funds			— 3,777
	Digital models of cognition excess funds			— 2,337
	Human machine interactions excess funds			— 5,625
	Distributed teaming and communication excess funds			— 7,240
8	Aerospace Propulsion	339,477	299,977	— 39,500
	Projected underexecution			— 61,843
	Engine technologies for autonomous vehicles and munitions unjustified growth			— 5,615
	Integrated thermal and energy management unjustified growth			— 3,542
	Program increase: Advanced aerospace fuels for hypersonic propulsion			+ 3,000
	Program increase: Autonomous systems and space environment interactions			+ 2,000
	Program increase: Compact scramjet testing			+ 7,000
	Program increase: High mach turbine engine			+ 3,000
	Program increase: Hypersonic research, testing, and diagnostic development			+ 5,000
	Program increase: Military aircraft engine durability and repair improvements			+ 4,000
	Program increase: Modular, open system distributed subsystem propulsion control architecture			+ 7,500
9	Aerospace Sensors	193,029	214,029	+ 21,000
	Program increase: Cyber kinetic combat environment			+ 15,000
	Program increase: Demonstrating flexible manufacturing capabilities for defense maintenance			+ 5,000
	Program increase: Glass advanced packaging			+ 1,000
12	Conventional Munitions	138,497	143,997	+ 5,500
	Program increase: Convergence technology research			+ 1,500
	Program increase: University-led hyper-velocity test capability			+ 4,000
13	Directed Energy Technology	114,962	81,062	— 33,900
	Laser technology unjustified growth			— 33,900
14	Dominant Information Sciences and Methods	176,333	238,833	+ 62,500
	Program increase: Air domain awareness for airspace safety, management and counter UAS effectiveness			+ 8,000
	Program increase: Compact and deployable ion trap technology for quantum networks			+ 4,500
	Program increase: CUAS air surveillance radar modernization			+ 1,000
	Program increase: Cyberspace dominance technology			+ 5,000
	Program increase: Dependable AI for national security			+ 11,000
	Program increase: Future cyber workforce			+ 1,500
	Program increase: Quantum networking testbed and cloud computing environment			+ 9,500
	Program increase: Quantum supply chain development			+ 20,000
	Program increase: Secure interference-avoiding connectivity of autonomous artificially intelligent machines			+ 2,000
15	Future AF Integrated Technology Demos	248,506	190,302	— 58,204

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Transfer to RDT&E, SF line 6 for space unique S&T ...			— 58,204
16	Advanced Materials for Weapon Systems	29,661	32,161	+ 2,500
	Program increase: Metals affordability initiative			+ 2,500
17	Sustainment Science and Technology [S&T]	12,558	5,668	— 6,890
	Prevention/enhanced maintainability technologies unjustified growth			— 6,890
18	Advanced Aerospace Sensors	37,935	42,935	+ 5,000
	Program increase: Airborne early warning pod digital radar technology			+ 5,000
19	Aerospace Technology Dev/Demo	102,529	79,129	— 23,400
	Aerospace vehicle technology integration unjustified growth			— 24,600
	Core engine technologies unjustified growth			— 6,800
	Program increase: Low-cost attritable aircraft technology for unmanned aerial systems			+ 3,000
	Program increase: Silicon carbide research			+ 5,000
24	Human Effectiveness Advanced Technology Development	19,568	16,108	— 3,460
	Airman machine interfaces unjustified growth			— 4,960
	Program increase: Airborne augmented reality for increased pilot training production			+ 1,500
27	Manufacturing Technology Program	34,730	73,730	+ 39,000
	Program increase: Additively manufactured CCA wings			+ 5,000
	Program increase: Affordable manufacturing of carbon nanotube data cables			+ 1,000
	Program increase: Air force sustainment center depot maintenance data science			+ 1,000
	Program increase: F-35 agnostic battery development			+ 4,000
	Program increase: High accuracy robotics and localization for manufacturing and depot sustainment ..			+ 2,000
	Program increase: High temperature composite material manufacturing			+ 6,000
	Program increase: Manufacturability of attritable sUAS			+ 5,000
	Program increase: Vertical integration of scramjet supply chain			+ 15,000
28	Battlespace Knowledge Development and Demonstration	26,172	28,672	+ 2,500
	Program increase: Programmable computing fabric networks			+ 2,500
29	Deployment & Distribution Enterprise R&D	27,762	13,881	— 13,881
	Unjustified request			— 13,881
33	Combat Identification Technology	24,799	16,790	— 8,009
	Noncooperative identification subsystems unjustified growth			— 1,152
	Air target identification unjustified growth			— 6,857
34	NATO Research and Development	4,498	2,298	— 2,200
	Unjustified growth			— 2,200
35	Intercontinental Ballistic Missile—Dem/Val	119,197	121,197	+ 2,000
	EFT3 ahead of need			— 8,000
	Program increase: AFGSC modernization and enhancement of mission capabilities			+ 10,000
36	NC3 Advanced Concepts	10,148	5,548	— 4,600
	Unjustified growth			— 4,600
37	Advanced Battle Management System [ABMS]	743,842	610,309	— 133,533
	Digital Infrastructure duplication of effort			— 18,733
	Digital Infrastructure ahead of need			— 106,800
	C3BM efforts previously funded			— 8,000
38	Advanced Engine Development	562,337		— 562,337
	Transfer to line 38A for NGAP			— 562,337
38A	NEXT GENERATION ADAPTIVE PROPULSION (NGAP)		842,337	+ 842,337
	Transfer from line 38 for NGAP			+ 562,337
	Program increase			+ 280,000
39	NC3 Commercial Development & Prototyping	68,124	47,124	— 21,000
	Integration ahead of need			— 20,000
	R-3 insufficient justification			— 1,000
41	E-7	418,513	401,577	— 16,936

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program support cost unjustified growth			— 16,936
42	AFWERX Prime	20,580	67,580	+ 47,000
	Program increase: Agility prime			+ 20,000
	Program increase: Autonomy prime			+ 2,500
	Program increase: Electrification of fixed wing aircraft			+ 5,000
	Program increase: Maritime autonomous forward area refueling point			+ 5,000
	Program increase: Mass-produced UAS			+ 2,000
	Program increase: Rapid operational innovation detachment			+ 7,500
	Program increase: Supersonic aircraft technologies			+ 5,000
44	Rapid Defense Experimentation Reserve [RDER]	75,051	47,512	— 27,539
	Program decrease			— 27,539
	Transfer: Rapid Defense Experimentation Reserve			— 47,512
	Transfer: Rapid Defense Innovation Reserve			+ 47,512
45	Directed Energy Prototyping	3,712	1,312	— 2,400
	Directed energy capabilities unjustified growth			— 2,400
49	Advanced Technology and Sensors	24,204	7,422	— 16,782
	Imaging and targeting support unjustified request			— 15,462
	Management services unjustified growth			— 1,320
51	Technology Transfer	3,485	19,485	+ 16,000
	Program increase: Academic Partnership Intermediary Agreement Technology Transfer			+ 5,000
	Program increase: Air force applied innovation training			+ 2,000
	Program increase: Generating rural innovation for National Defense			+ 5,000
	Program increase: Partnership intermediary program			+ 2,000
	Program increase: Technology transfer project			+ 2,000
52	Hard and Deeply Buried Target Defeat System (HDBTDS) Program	154,417	77,533	— 76,884
	Direct strike penetrator unjustified growth			— 62,803
	Massive Ordnance Penetrator unjustified growth			— 14,081
53	Cyber Resiliency of Weapon Systems-ACS	59,539	45,555	— 13,984
	Acquisition/System Security Engineering unjustified growth			— 7,513
	Mitigations unjustified growth			— 6,471
55	Requirements Analysis & Concept Maturation	22,667		— 22,667
	Unjustified request			— 22,667
56	Joint Transportation Management System (JTMS)	174,723	108,094	— 66,629
	Excess to need			— 65,329
	Projected underexecution			— 1,300
58	Tech Transition Program	234,342	248,842	+ 14,500
	Project SAINT efforts previously funded			— 11,500
	Program increase: Countering adversary air system autonomy			+ 7,500
	Program increase: Operational additive manufacturing capabilities			+ 2,000
	Program increase: Stratospheric balloon constellation experimentation			+ 14,500
	Program increase: Stratospheric high altitude balloon platform for atmospheric column measurements			+ 2,000
59	Operational Energy and Installation Resilience	63,194	52,194	— 11,000
	Unjustified growth			— 19,500
	Program increase: Advanced energy storage for installation resilience			+ 5,000
	Program increase: Load alleviation system			+ 2,000
	Program increase: Western climate resiliency			+ 1,500
62	Digital Transformation Office	9,800		— 9,800
	Air Force requested transfer to line 143A			— 9,800
64	Next Generation Air Dominance	3,306,355	2,749,208	— 557,147
	Transfer to line 64A for Collaborative Combat Aircraft			— 557,147
64A	Collaborative Combat Aircraft		486,747	+ 486,747

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Transfer from line 64 for Collaborative Combat Aircraft			+ 557,147
	Classified adjustment			– 70,400
65	Autonomous Collaborative Platforms	51,666	50,666	– 1,000
	R–3 insufficient justification			– 1,000
67	Combat Air Intelligence System Activities	18,733		– 18,733
	Air force requested transfer to line 67A			– 18,733
67A	Air Force ISR Digital Infrastructure		18,733	+ 18,733
	Air force requested transfer from line 67			+ 18,733
68	C2ISR Tactical Data Link	42,371	21,186	– 21,185
	Internet protocol beyond line of sight excess funds			– 21,185
71	Joint Simulation Environment (JSE)	191,337	179,615	– 11,722
	JSE–XA ahead of need			– 11,722
74	Mission Partner Environments	22,028	18,438	– 3,590
	Unjustified growth			– 3,590
77	Rapid Sustainment Modernization (RSM)	37,044	42,044	+ 5,000
	Program increase: Automation innovation for sustainment			+ 3,000
	Program increase: Fleet readiness additive manufacturing			+ 2,000
81	U.S. Space Command Research and Development Support	28,392	21,499	– 6,893
	R–3 insufficient justification			– 1,000
	Positioning navigation timing previously funded			– 5,893
85	Electronic Warfare Development	19,264	15,754	– 3,510
	Cognitive electromagnetic warfare carryover			– 2,755
	Electromagnetic battle management carryover			– 2,755
	Program increase: Advanced electronic warfare systems			+ 1,000
	Program increase: AI and machine learning enabled electronic warfare systems			+ 1,000
88	Hard and Deeply Buried Target Defeat System (HDBTDS) Prototyping	39,079	26,329	– 12,750
	Test and evaluation early to need			– 8,000
	Management Services excess to need			– 4,750
89	Armament/Ordnance Development	7,157	5,417	– 1,740
	Unjustified growth			– 1,740
91	Agile Combat Support	24,178	24,716	+ 538
	Program increase: PFAS free firefighting agents			+ 538
92	Life Support Systems	25,502	24,502	– 1,000
	R–3 insufficient justification			– 1,000
93	Combat Training Ranges	224,783	160,783	– 64,000
	ARTS V–3 rephase			– 68,000
	Program increase: Joint Pacific Alaska range complex			+ 4,000
94	Long Range Standoff Weapon	623,491	593,926	– 29,565
	Program carryover			– 29,565
95	ICBM Fuze Modernization	10,408		– 10,408
	Excess to need			– 10,408
100	Advanced Pilot Training	83,985	68,789	– 15,196
	EMD efforts early to need			– 13,094
	Excess to need			– 2,102
102	Ground Based Strategic Deterrent EMD	3,721,024	3,921,024	+ 200,000
	Program increase: Sentinel industrial base risk reduction and prototyping			+ 200,000
105	Stand In Attack Weapon	375,528	346,341	– 29,187
	Program carryover			– 29,187
111	Theater Nuclear Weapon Storage & Security System	9,018	2,000	– 7,018
	Vault modernization program lack of justification			– 7,018
113	KC–46A Tanker Squadrons	93,620	77,804	– 15,816
	Mobility air forces connectivity excess funds			– 500
	Pegasus advanced communication suite ahead of need			– 4,200
	Trainer Development ahead of need			– 10,500
	ARASQ ahead of need			– 616
115	Automated Test Systems	26,640	21,634	– 5,006

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Common Aircraft Portable Reprogramming Equipment carryover			— 2,250
	Common Armament Tester—Fighter and test program sets ahead of need			— 2,756
117	Combat Survivor Evader Locator	2,269	1,135	— 1,134
	Unjustified request			— 1,134
117A	Over-the-Horizon Backscatter Radar		377,394	+ 377,394
	Air Force requested transfer from line 170			+ 383,575
	TACMOR system design and development carryover			— 2,281
	Program management early to need			— 3,900
118	Threat Simulator Development	19,927	17,291	— 2,636
	Unjustified growth			— 2,636
120	RAND Project Air Force	39,720	33,520	— 6,200
	Unjustified growth			— 6,200
123	Test and Evaluation Support	936,913	939,413	+ 2,500
	Program increase: Digital test facility models			+ 2,500
126	Acq Workforce- Cyber, Network, & Bus Sys	521,987	475,792	— 46,195
	Projected underexecution			— 46,195
130	Acq Workforce- Nuclear Systems	343,180	321,780	— 21,400
	Projected underexecution			— 21,400
132	Facilities Restoration and Modernization—Test and Evaluation Support	94,828	70,828	— 24,000
	Program carryover			— 24,000
134	Requirements Analysis and Maturation	41,550	33,950	— 7,600
	Joint simulation environment duplication of effort			— 10,100
	Program increase: Nuclear technology transition			+ 2,500
137	Command, Control, Communication, and Computers (C4)—STRATCOM	19,607	39,607	+ 20,000
	Program increase: NC3 network sensor demonstration			+ 10,000
	Program increase: NC3 REACH			+ 10,000
139	Acquisition and Management Support	25,216	28,216	+ 3,000
	Program increase: Modernize wide area networks			+ 3,000
140	General Skill Training	10		— 10
	Programming error			— 10
141	Advanced Distributed Learning	1,652	6,828	+ 5,176
	Unjustified growth			— 824
	Program increase: Secure work readiness for duty			+ 6,000
143	International Activities	4,590	4,254	— 336
	Unjustified growth			— 336
143A	Digital Transformation Office		21,700	+ 21,700
	Air Force requested transfer from line 62			+ 9,800
	Program increase: Digital first systems engineering ...			+ 6,400
	Program increase: Digital transformation of armament sustainment			+ 3,000
	Program increase: Small business manufacturing digital transformation			+ 2,500
144	Specialized Undergraduate Flight Training	39,667	22,053	— 17,614
	Contract award delay			— 17,614
145	Tactical Data Networks Enterprise	22		— 22
	Lack of justification			— 22
150	F-35 C2D2	1,124,207	1,134,207	+ 10,000
	Program increase: Power thermal management system			+ 10,000
152	Anti-Tamper Technology Executive Agency	65,792	56,492	— 9,300
	Program carryover			— 9,300
154	HH-60W	52,314	39,629	— 12,685
	HH-60W MUOS Capability excess funds			— 2,275
	Deliver order 1 carryover			— 1,635
	Delivery order 2 early to need			— 8,775
155	HC/MC-130 Recap RDT&E	24,934	16,085	— 8,849
	Communications Modernization Phase II carryover			— 8,849
157	B-52 Squadrons	1,045,570	1,041,616	— 3,954
	Quad crew carryover			— 6,954
	Program increase: Global strike innovation hub			+ 3,000
160	B-2 Squadrons	41,212	37,862	— 3,350

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	MDU Replacement carryover			— 3,350
161	Minuteman Squadrons	62,550	60,820	— 1,730
	MATH delays			— 1,730
165	ICBM Reentry Vehicles	629,928	551,495	— 78,433
	EMD integration delays			— 78,433
167	MH-139A		15,000	+ 15,000
	Air force requested transfer from AP, AF line 11 for Performance Enhancement Product Improvement			+ 15,000
169	North Warning System [NWS]	103		— 103
	Programming error			— 103
170	Over-the-Horizon Backscatter Radar	383,575		— 383,575
	Air Force requested transfer to line 117A			— 383,575
176	F-16 Squadrons	106,952	104,252	— 2,700
	Integrated test carryover			— 2,700
177	F-15E Squadrons	178,603	232,997	+ 54,394
	Operational flight program unjustified growth			— 10,088
	Program carryover			— 9,912
	Program increase: F-15E divestment prohibition (emergency)			+ 74,394
178	Manned Destructive Suppression	16,182	13,855	— 2,327
	Contract savings			— 2,327
179	F-22A Squadrons	768,561	758,754	— 9,807
	Keystone early to need			— 9,807
185	E-11A	64,127	63,252	— 875
	Resiliency solutions excess funds			— 425
	Payload operations and maintenance trainer excess funds			— 450
187	Precision Attack Systems Procurement	12,723	9,423	— 3,300
	Program carryover			— 3,300
189	Aircraft Engine Component Improvement Program	68,743	66,632	— 2,111
	Unjustified growth			— 6,111
	Program increase: Advanced technologies to support engine operational readiness			+ 4,000
190	Joint Air-to-Surface Standoff Missile [JASSM]	183,532	181,692	— 1,840
	Program support unjustified growth			— 1,840
191	Small Diameter Bomb [SDB]	29,910	31,910	+ 2,000
	Program increase: Precise navigation			+ 2,000
192	Air & Space Operations Center [AOC]	71,442	65,102	— 6,340
	Unjustified growth			— 6,340
193	Control and Reporting Center [CRC]	18,473	16,856	— 1,617
	Program carryover			— 1,617
195	AFSPECWAR—TACP	2,206	1,433	— 773
	Program underexecution			— 773
197	Combat Air Intelligence System Activities	46,702	25,049	— 21,653
	Air force requested transfer to line 197A			— 9,445
	JTIM insufficient justification			— 4,858
	Program carryover			— 7,350
197A	AF JWICS Enterprise		9,445	+ 9,445
	Air force requested transfer from line 197			+ 9,445
198	Theater Battle Management [TBM] C4I	4,873	4,401	— 472
	Program carryover			— 472
199	Electronic Warfare Integrated Reprogramming [EWIR]	17,149	13,577	— 3,572
	Program carryover			— 3,572
207	Distributed Training and Exercises	4,847	3,964	— 883
	Unjustified growth			— 883
208	Full Combat Mission Training	7,048	3,948	— 3,100
	Wargaming and simulation centers contract delay			— 3,100
209	Mission Planning Systems	92,566	80,709	— 11,857
	Program carryover			— 11,857
213	AF Defensive Cyberspace Operations	113,218	121,218	+ 8,000
	Program increase: Cybersecurity for industrial control systems—ground stations			+ 7,000
	Program increase: Enabling embedded systems			+ 1,000
220	GeoBase	1,002		— 1,002

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Comprehensive Planning Platform Development insufficient justification			— 1,002
228	Countering Advanced Conventional Weapons (CACW)	1,668	834	— 834
	Production Tools excess funds			— 834
230	AF Multi-Domain Non-Traditional ISR Battlespace Awareness	3,436	3,006	— 430
	Unjustified growth			— 430
232	Non-Kinetic Countermeasure Support	15,180	7,590	— 7,590
	Data Architecture/Repository lack of justification			— 7,590
233	EIT CONNECT	32,960	16,120	— 16,840
	Unjustified request			— 16,840
249	ISR Modernization & Automation Dvmt [IMAD]	22,909	15,787	— 7,122
	Core technology unjustified growth			— 7,122
252	Weather Service	31,372	55,372	+ 24,000
	Program increase: Air force weather transformation			+ 10,000
	Program increase: Commercial weather data pilot			+ 2,000
	Program increase: Enhanced USAF weather			+ 2,500
	Program increase: Machine learning global weather forecasting			+ 2,500
	Program increase: Operationalizing the stratosphere ...			+ 2,000
	Program increase: Weather service flood mapping and forecasting tool			+ 4,000
	Program increase: Weather wing data migration			+ 1,000
254	Aerial Targets	7,685	6,085	— 1,600
	Program carryover			— 1,600
259	Tactical Terminal	1,002	501	— 501
	Tactical Terminal Modifications/Enhancements and Support unjustified request			— 501
262	Airborne Reconnaissance Systems	84,363	69,163	— 15,200
	ULTRA early to need			— 18,200
	Program increase: Ultra long-range persistent ISR			+ 3,000
265	RQ-4 UAV	9,516	2,516	— 7,000
	Support excess to need			— 7,000
268	Support to DCGS Enterprise	30,932	32,682	+ 1,750
	Program increase: Computer vision platform for high-altitude imagery object re-identification			+ 1,750
269	International Intelligence Technology and Architectures	18,670	17,784	— 886
	Program carryover			— 886
274	C-5 Airlift Squadrons (IF)	33,003	32,903	— 100
	C-5 Modernization excess funds			— 100
275	C-17 Aircraft (IF)	17,395	11,986	— 5,409
	Databus Collection & Analytics unjustified funds			— 2,500
	Aircraft connectivity unjustified funds			— 100
	Support carryover			— 2,809
276	C-130J Program	34,423	63,533	+ 29,110
	Communication Modernization carryover			— 1,890
	Program increase: ANG enhanced flight vision system			+ 2,000
	Program increase: Non-recurring engineering for polar airlift aircraft			+ 29,000
283	AF LVC Operational Training (LVC-OT)	29,815	27,535	— 2,280
	ACE-IOS unjustified growth			— 2,280
284	Other Flight Training	2,319	1,159	— 1,160
	Aviation Resource Tool Enterprise Mission Information System excess funds			— 1,160
288	Air Force Studies and Analysis Agency	18,937	945	— 17,992
	Unjustified request			— 17,992
999	Classified Programs	18,038,552	16,129,541	— 1,909,011
	Classified adjustment			— 1,909,011

Next Generation Air Dominance.—The fiscal year 2025 President's budget request includes \$3,306,355,000 in Research, Development, Test and Evaluation, Air Force for the Next Generation Air Dominance [NGAD] Family of Systems portfolio, which consists

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
2	UNIVERSITY RESEARCH INITIATIVES	14,731	14,731	.....
	TOTAL, BASIC RESEARCH	36,080	36,080	.....
	APPLIED RESEARCH			
4	SPACE TECHNOLOGY	244,964	286,964	+ 42,000
	TOTAL, APPLIED RESEARCH	244,964	286,964	+ 42,000
	ADVANCED TECHNOLOGY DEVELOPMENT			
5	SPACE SCIENCE AND TECHNOLOGY RESEARCH AND DEVELOPMENT	425,166	477,916	+ 52,750
6	SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEMO	138,270	729,974	+ 591,704
6	SPACE ADVANCED TECHNOLOGY DEVELOPMENT/DEMO (emergency)		(500,000)	(+ 500,000)
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	563,436	1,207,890	+ 644,454
	COMPONENT DEVELOPMENT AND PROTOTYPES			
7	SPACE FORCE WEATHER SERVICES RESEARCH	867	867	.....
8	SPACE FORCE IT, DATA ANALYTICS, DIGITAL SOLUTIONS	88,610	88,610	.....
9	NAVSTAR GLOBAL POSITIONING SYSTEM (USER EQUIPMENT) (SPACE)	300,025	282,325	— 17,700
10	SPACE WARFIGHTING ANALYSIS	121,409	121,409	.....
11	EO/IR WEATHER SYSTEMS	76,391	53,858	— 22,533
12	SPACE ACCESS, MOBILITY & LOGISTICS	20,000	24,000	+ 4,000
13	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING	1,701,685	2,065,685	+ 364,000
13	SPACE TECHNOLOGY DEVELOPMENT AND PROTOTYPING (emergency)		(450,000)	(+ 450,000)
15	SPACE SYSTEMS PROTOTYPE TRANSITIONS [SSPT]	133,739	115,852	— 17,887
16	SPACE CONTROL TECHNOLOGY	62,195	62,195	.....
17	TECH TRANSITION (SPACE)	228,547	228,547	.....
18	SPACE SECURITY AND DEFENSE PROGRAMS (SSDP)	53,199	53,199	.....
19	PROTECTED TACTICAL ENTERPRISE SERVICE [PTES]	79,709	77,509	— 2,200
20	PROTECTED TACTICAL SERVICE [PTS]	596,996	376,183	— 220,813
21	EVOLVED STRATEGIC SATCOM [ESS]	1,046,161	898,153	— 148,008
22	SPACE RAPID CAPABILITIES OFFICE	11,361	87,892	+ 76,531
23	TACTICALLY RESPONSE SPACE	30,052	32,552	+ 2,500
	TOTAL, COMPONENT DEVELOPMENT AND PROTOTYPES	4,550,946	4,568,836	+ 17,890
	SYSTEM DEVELOPMENT AND DEMONSTRATION			
24	GPS III FOLLOW-ON [GPS IIIF]	244,752	250,754	+ 6,002
26	COUNTERSPACE SYSTEMS	37,078	28,997	— 8,081
27	WEATHER SYSTEM FOLLOW-ON	49,207	36,647	— 12,560
28	SPACE SITUATION AWARENESS SYSTEMS	483,605	415,605	— 68,000
29	ADVANCED EHF MILSATCOM (SPACE)	1,020	1,020	.....
32	NEXT GENERATION OPIR—GROUND	558,013	414,825	— 143,188
33	NEXT GENERATION OPIR	202,951	190,951	— 12,000
34	NEXT GENERATION OPIR—GEO	510,806	451,627	— 59,179
35	NEXT GENERATION OPIR—POLAR	828,878	760,179	— 68,699
36	COMMERCIAL SATCOM [COMSATCOM] INTEGRATION	134,487	134,487	.....
36A	COMMERCIAL SERVICES		62,000	+ 62,000
37	RESILIENT MISSILE WARNING MISSILE TRACKING—LOW EARTH ORBIT [LEO]	1,730,821	1,630,821	— 100,000
38	RESILIENT MISSILE WARNING MISSILE TRACKING—MEDIUM EARTH ORBIT [MEO]	846,349	589,175	— 257,174
40	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE)—EMD	23,392	103,392	+ 80,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
40	NATIONAL SECURITY SPACE LAUNCH PROGRAM (SPACE)—EMD (emergency) .....	.....	(80,000)	(+ 80,000)
	TOTAL, SYSTEM DEVELOPMENT AND DEMONSTRATION	5,651,359	5,070,480	— 580,879
	MANAGEMENT SUPPORT			
46	ACQ WORKFORCE—SPACE AND MISSILE SYSTEMS	274,424	274,424	.....
47	SPACE AND MISSILE SYSTEMS CENTER—MHA	12,867	12,867	.....
49	MAJOR T&E INVESTMENT—SPACE	229,665	229,665	.....
50	ROCKET SYSTEMS LAUNCH PROGRAM (SPACE)	20,134	50,134	+ 30,000
52	SPACE TEST PROGRAM [STP]	30,279	30,279	.....
	TOTAL, RDT&E MANAGEMENT SUPPORT	567,369	597,369	+ 30,000
	OPERATIONAL SYSTEMS DEVELOPMENT			
55	FAMILY OF ADVANCED BLOS TERMINALS [FAB-T]	2,607	2,607	.....
56	DCO—SPACE	104,088	104,088	.....
57	NARROWBAND SATELLITE COMMUNICATIONS	228,435	182,454	— 45,981
58	SATELLITE CONTROL NETWORK (SPACE)	98,572	79,572	— 19,000
59	LONG RANGE KILL CHAINS	244,121	244,121	.....
61	SPACE AND MISSILE TEST EVALUATION CENTER	20,844	20,844	.....
62	SPACE INNOVATION, INTEGRATION AND RAPID TECHNOLOGY DEVELOPMENT	48,900	48,900	.....
63	SPACELIFT RANGE SYSTEM (SPACE)	55,906	55,906	.....
65	SPACE SUPERIORITY ISR	28,227	28,227	.....
67	BALLISTIC MISSILE DEFENSE RADARS	12,024	18,024	+ 6,000
68	NCMC TW/AA SYSTEM	25,656	25,656	.....
69	NUDET DETECTION SYSTEM (SPACE)	83,426	83,426	.....
70	SPACE SITUATION AWARENESS OPERATIONS	120,160	135,160	+ 15,000
71	GLOBAL POSITIONING SYSTEM III—OPERATIONAL CONTROL SEGMENT	217,224	273,224	+ 56,000
75	ENTERPRISE GROUND SERVICES	111,284	.....	— 111,284
76	JOINT TACTICAL GROUND SYSTEM	6,937	6,937	.....
999	CLASSIFIED PROGRAMS	5,520,323	6,560,728	+ 1,040,405
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	6,928,734	7,869,874	+ 941,140
77	SPACE DOMAIN AWARENESS/PLANNING/TASKING SW	157,265	135,665	— 21,600
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE	18,700,153	19,773,158	+ 1,073,005
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, SPACE FORCE (emergency) .....	.....	(1,030,000)	(+ 1,030,000)

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
4	Space Technology	244,964	286,964	+ 42,000
	Program increase: Advanced ground-based cislunar space domain awareness .....	.....	.....	+ 1,500
	Program increase: Connecting space and UAS technology .....	.....	.....	+ 4,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: Docking technologies for unstable objects			+ 10,000
	Program increase: Lunar surface space domain awareness			+ 3,000
	Program increase: Optical Interferometer			+ 4,000
	Program increase: Space modeling, simulation, and analysis hub			+ 7,000
	Program increase: Space qualified solar cell manufacturing			+ 4,000
	Program increase: Space threat attribution and recovery			+ 3,000
	Program increase: USSPACECOM academic engagement enterprise			+ 2,000
	Program increase: Satellite and space systems hardening			+ 3,500
5	Space Science and Technology Research and Development	425,166	477,916	+ 52,750
	Program increase: Defense of LEO			+ 11,250
	Program increase: Defense-in-depth for spacecraft cybersecurity			+ 3,000
	Program increase: LEO VHF augmentation			+ 32,500
	Program increase: PWSA integrated targeting solution			+ 6,000
6	Space Advanced Technology Development/Demo	138,270	729,974	+ 591,704
	Transfer from RDT&E, AF line 15 for space unique S&T			+ 58,204
	Program increase: LADAR for early threat detection			+ 12,500
	Program increase: Modular multi-mode propulsion system			+ 3,000
	Program increase: Nuclear propulsion technologies for cislunar flight			+ 15,000
	Program increase: VLEO spacecraft			+ 3,000
	Program increase: Nuclear electric propulsion (emergency)			+ 500,000
9	NAVSTAR Global Positioning System (User Equipment) (SPACE)	300,025	282,325	– 17,700
	MGUE Inc 2 award fee ahead of need			– 17,700
11	EO/IR Weather Systems	76,391	53,858	– 22,533
	Phase II demo 2 savings			– 22,533
12	Space Access, Mobility & Logistics (SAML)	20,000	24,000	+ 4,000
	Program increase: Small autonomous on-orbit servicing			+ 4,000
13	Space Technology Development and Prototyping	1,701,685	2,065,685	+ 364,000
	T2TL contract savings			– 100,000
	Program increase: Transport layer software architecture			+ 4,000
	Program increase: Ground entry point acceleration			+ 10,000
	Program increase: Fire control acceleration (emergency)			+ 450,000
15	Space Systems Prototype Transitions [SSPT]	133,739	115,852	– 17,887
	S2S space terminal down select excess to need			– 10,387
	S2S SDN C2 excess to need			– 7,500
19	Protected Tactical Enterprise Service [PTES]	79,709	77,509	– 2,200
	Revised vendor estimates			– 2,200
20	Protected Tactical Service [PTS]	596,996	376,183	– 220,813
	PTS–R EMD delay			– 46,254
	Overestimation of PTS–P contracts			– 27,559
	Space Force requested realignment to line 71 for OCX shortfalls			– 55,000
	Space Force requested realignment to line 24 for R–GPS			– 40,000
	PTS–G excess to need			– 52,000
21	Evolved Strategic SATCOM [ESS]	1,046,161	898,153	– 148,008
	GRIFFON and crypto carryover			– 24,350
	Overestimation of advisory and assistance services			– 23,658
	Reprice EMD award based on planned execution			– 90,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Study excess			— 10,000
22	Space Rapid Capabilities Office	11,361	87,892	+ 76,531
	Space Force requested realignment from line 75			+ 69,031
	Program increase: Deployable SCN ground system fielding			+ 7,500
23	Tactically Responsive Space	30,052	32,552	+ 2,500
	Program increase: Orbital pre-positioned TacRS			+ 2,500
24	GPS III Follow-On (GPS IIIF)	244,752	250,754	+ 6,002
	IIIF development excess to need			— 24,411
	Enterprise integration overestimation			— 9,587
	Space Force requested realignment from line 20 for R-GPS			+ 40,000
26	Counterspace Systems	37,078	28,997	— 8,081
	CETIP delay			— 8,081
27	Weather System Follow-on	49,207	36,647	— 12,560
	SV 2 excess to need			— 12,560
28	Space Situation Awareness Systems	483,605	415,605	— 68,000
	DARC site 2 award delay/descope			— 60,000
	Space based advisory and assistance services overestimation			— 8,000
32	Next-Gen OPIR—Ground	558,013	414,825	— 143,188
	FC2 MUS development excess to need			— 20,000
	Overestimation of MDP expenditures			— 55,431
	Overestimation of Next Gen Transition expenditures			— 67,757
33	Next Generation OPIR	202,951	190,951	— 12,000
	Data exploitation carryover			— 10,000
	Intelligent tasking award delay			— 2,000
34	Next-Gen OPIR—GEO	510,806	451,627	— 59,179
	ECO carryover			— 27,100
	Schedule incentive ahead of need			— 6,179
	Mission payload termination			— 25,900
35	Next-Gen OPIR—Polar	828,878	760,179	— 68,699
	Launch support ahead of need			— 13,699
	Incentive fee ahead of need			— 55,000
36A	Commercial Services		62,000	+ 62,000
	Program increase: Commercial Augmentation Space Reserve			+ 7,000
	Program increase: Commercial Positioning, Navigation and Timing			+ 7,000
	Program increase: Commercial Space-Based Environmental Monitoring			+ 8,000
	Program increase: Commercial Surveillance, Reconnaissance and Tracking			+ 40,000
37	Resilient Missile Warning Missile Tracking—Low Earth Orbit (LEO)	1,730,821	1,630,821	— 100,000
	Management reserve reduction			— 100,000
38	Resilient Missile Warning Missile Tracking—Medium Earth Orbit (MEO)	846,349	589,175	— 257,174
	Epoch 1 vendor 1 termination			— 125,000
	Epoch 1 vendor 2 contract savings			— 47,000
	Epoch 2 ground forward financed			— 60,000
	Management services excess to need			— 25,174
40	National Security Space Launch Program (SPACE)—EMD	23,392	103,392	+ 80,000
	Program increase: Payload processing facility (emergency)			+ 80,000
50	Rocket Systems Launch Program (SPACE)	20,134	50,134	+ 30,000
	Program increase: Additional test range capability			+ 5,000
	Program increase: State space launch range services and capabilities			+ 25,000
57	Narrowband Satellite Communications	228,435	182,454	— 45,981
	SLE ground segment excess to need			— 45,981
58	Satellite Control Network (SPACE)	98,572	79,572	— 19,000
	ERM delay			— 8,000
	Mission data transport delay			— 11,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
15	INFORMATION AND COMMUNICATIONS TECHNOLOGY	397,266	.....	— 397,266
17	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	224,777	224,777	.....
18	CYBER SECURITY RESEARCH	17,652	31,652	+ 14,000
20	SOCIAL SCIENCES FOR ENVIRONMENTAL SECURITY	5,456	5,456	.....
21	TACTICAL TECHNOLOGY	117,935	.....	— 117,935
22	MATERIALS AND BIOLOGICAL TECHNOLOGY	337,772	.....	— 337,772
23	ELECTRONICS TECHNOLOGY	573,265	.....	— 573,265
24	COUNTER WEAPONS OF MASS DESTRUCTION DEFEAT TECHNOLOGIES	174,955	170,615	— 4,340
25	SOFTWARE ENGINEERING INSTITUTE (SEI) APPLIED RESEARCH	11,310	11,310	.....
26	HIGH ENERGY LASER RESEARCH	48,640	48,640	.....
27	FSRM MODELLING	1,897	1,897	.....
28	SOF TECHNOLOGY DEVELOPMENT	50,183	60,293	+ 10,110
28A	ACCESS AND AWARENESS .....	.....	412,540	+ 412,540
28B	KINETIC AND NON-KINETIC DELIVERY .....	.....	260,526	+ 260,526
28C	MAKING, MAINTAINING, SUPPLY CHAIN AND LOGISTICS .....	.....	584,076	+ 584,076
28D	WARFIGHTING PERFORMANCE .....	.....	272,691	+ 272,691
	TOTAL, APPLIED RESEARCH	2,290,468	2,226,142	— 64,326
	ADVANCED TECHNOLOGY DEVELOPMENT			
29	JOINT MUNITIONS ADVANCED TECHNOLOGY	41,072	37,715	— 3,357
30	NATIONAL SECURITY INNOVATION CAPITAL	14,983	19,983	+ 5,000
31	SO/LIC ADVANCED DEVELOPMENT	5,176	5,176	.....
32	COMBATING TERRORISM TECHNOLOGY SUPPORT	76,639	233,639	+ 157,000
33	FOREIGN COMPARATIVE TESTING	30,007	30,007	.....
34	MISSION ENGINEERING & INTEGRATION (ME&I)	110,628	72,029	— 38,599
35	COUNTER WEAPONS OF MASS DESTRUCTION ADVANCED TECHNOLOGY DEVELOPMENT	418,044	410,112	— 7,932
34	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT			
37	ADVANCED CONCEPTS AND PERFORMANCE ASSESSMENT	17,920	27,920	+ 10,000
38	ADVANCED RESEARCH	19,354	24,854	+ 5,500
39	JOINT HYPERSONIC TECHNOLOGY DEVELOPMENT AND TRANSITION	51,941	56,941	+ 5,000
40	JOINT DOD-DOE MUNITIONS TECHNOLOGY DEVELOPMENT	19,826	19,826	.....
39	INTELLIGENCE ADVANCED DEVELOPMENT			
42	ADVANCED AEROSPACE SYSTEMS	269,700	.....	— 269,700
43	SPACE PROGRAMS AND TECHNOLOGY	225,457	.....	— 225,457
44	ANALYTIC ASSESSMENTS	30,594	33,020	+ 2,426
45	ADVANCED INNOVATIVE ANALYSIS AND CONCEPTS	56,390	61,390	+ 5,000
46	QUANTUM APPLICATION	69,290	20,420	— 48,870
47	DEFENSE INNOVATION UNIT	109,614	123,614	+ 14,000
48	TECHNOLOGY INNOVATION	74,549	38,732	— 35,817
49	ADVANCED TECHNICAL INTEGRATION	26,053	26,053	.....
50	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM—ADVANCED DEV	230,051	236,051	+ 6,000
50	RETRACT LARCH			
52	JOINT ELECTRONIC ADVANCED TECHNOLOGY	20,188	17,177	— 3,011
53	NETWORKED COMMUNICATIONS CAPABILITIES	5,234	5,234	.....
55	DEFENSE-WIDE MANUFACTURING SCIENCE AND TECHNOLOGY PROG	190,557	425,057	+ 234,500
56	MANUFACTURING TECHNOLOGY PROGRAM	55,366	109,866	+ 54,500
57	GENERIC LOGISTICS R&D TECHNOLOGY DEMONSTRATIONS	18,543	18,543	.....
58	STRATEGIC ENVIRONMENTAL RESEARCH PROGRAM	58,838	61,338	+ 2,500
59	MICROELECTRONIC TECHNOLOGY DEVELOPMENT AND SUPPORT	137,246	137,246	.....
60	JOINT WARFIGHTING PROGRAM	2,684	2,684	.....
61	ADVANCED ELECTRONICS TECHNOLOGIES	257,844	.....	— 257,844
62	COMMAND, CONTROL AND COMMUNICATIONS SYSTEMS	336,542	.....	— 336,542

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
63	NETWORK-CENTRIC WARFARE TECHNOLOGY	886,511	.....	— 886,511
64	SENSOR TECHNOLOGY	267,961	.....	— 267,961
66	SOFTWARE ENGINEERING INSTITUTE	16,982	16,982	.....
67	DEFENSE INNOVATION ACCELERATION	165,798	165,798	.....
68	HIGH ENERGY LASER ADVANCED TECHNOLOGY PROGRAM	110,367	115,367	+ 5,000
69	TEST AND EVALUATION SCIENCE & TECHNOLOGY	268,722	357,222	+ 88,500
70	INTERNATIONAL INNOVATION INITIATIVES	125,680	15,390	— 110,290
69	AUKUS INNOVATION INITIATIVES			
71	NATIONAL SECURITY INNOVATION NETWORK	21,322	21,322	.....
72	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT	167,279	169,279	+ 2,000
73A	CONSTRUCTIVE MODELING AND SIMULATION		45,610	+ 45,610
74	SOF ADVANCED TECHNOLOGY DEVELOPMENT	197,767	182,767	— 15,000
74A	ADVANCED AEROSPACE AND SPACE SYSTEMS		482,850	+ 482,850
74B	ADVANCED ELECTRONICS AND CYBER TECHNOLOGY DEVELOPMENT		325,806	+ 325,806
74C	DARPA ADVANCED TECHNOLOGY DEVELOPMENT		2,004,385	+ 2,004,385
74C	DARPA ADVANCED TECHNOLOGY DEVELOPMENT (emergency)		(875,000)	(+ 875,000)
	TOTAL, ADVANCED TECHNOLOGY DEVELOPMENT	5,208,719	6,157,405	+ 948,686
	ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES			
75	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIPMENT	63,162	60,711	— 2,451
76	WALKOFF	149,704	149,704	.....
77	ENVIRONMENTAL SECURITY TECHNICAL CERTIFICATION PROGRAM	136,513	163,013	+ 26,500
78	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT	367,279	278,346	— 88,933
79	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEGMENT	768,227	768,227	.....
80	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	304,374	290,064	— 14,310
81	BALLISTIC MISSILE DEFENSE SENSORS	209,002	209,002	.....
82	BALLISTIC MISSILE DEFENSE ENABLING PROGRAMS	609,406	602,314	— 7,092
83	SPECIAL PROGRAMS—MDA	495,570	495,570	.....
84	AEGIS BMD	649,255	738,455	+ 89,200
84	AEGIS BMD (emergency)		(89,200)	(+ 89,200)
85	BALLISTIC MISSILE DEFENSE COMMAND AND CONTROL, BATTLE MANAGEMENT	569,662	539,940	— 29,722
86	BALLISTIC MISSILE DEFENSE JOINT WARFIGHTER SUPPORT ..	47,723	47,723	.....
87	MISSILE DEFENSE INTEGRATION AND OPERATIONS CENTER [MDIOC]	54,525	54,525	.....
88	REGARDING TRENCH	27,900	27,900	.....
89	SEA BASED X-BAND RADAR [SBX]	197,339	197,339	.....
90	ISRAELI COOPERATIVE PROGRAMS	300,000	300,000	.....
91	BALLISTIC MISSILE DEFENSE TEST	367,491	356,884	— 10,607
92	BALLISTIC MISSILE DEFENSE TARGETS	604,708	624,108	+ 19,400
92	BALLISTIC MISSILE DEFENSE TARGETS (emergency)		(14,400)	(+ 14,400)
93	COALITION WARFARE	9,890	9,890	.....
94	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G)	139,427	50,936	— 88,491
94A	5G CROSS FUNCTIONAL TEAM		1,500	+ 1,500
95	DEPARTMENT OF DEFENSE CORROSION PROGRAM	2,637	7,137	+ 4,500
96	GUAM DEFENSE DEVELOPMENT	415,794	471,754	+ 55,960
96	GUAM DEFENSE DEVELOPMENT (emergency)		(76,500)	(+ 76,500)
97	TECHNOLOGY MATURATION INITIATIVES		2,500	+ 2,500
97	CHIEF DIGITAL AND ARTIFICIAL INTELLIGENCE OFFICER (CDAO)—MIP			
99	ADVANCED MANUFACTURING COMPONENTS AND PROTOTYPES	16,776	31,776	+ 15,000
100	HYPERSONIC DEFENSE	182,283	182,283	.....
101	ADVANCED INNOVATIVE TECHNOLOGIES	994,226	851,631	— 142,595
102	TRUSTED AND ASSURED MICROELECTRONICS	593,609	567,969	— 25,640

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
103	RAPID PROTOTYPING PROGRAM	152,126	90,854	— 61,272
104	RAPID PROTOTYPING PROGRAM	7,710	7,710	.....
105	DEFENSE INNOVATION UNIT [DIU] PROTOTYPING			
106	DEPARTMENT OF DEFENSE [DOD] UNMANNED SYSTEM COM- MON DEVELOPMENT	2,527	9,527	+ 7,000
107	CATAPULT	7,475	7,475	.....
108	OPERATIONAL ENERGY CAPABILITY IMPROVEMENT—NON S&T	53,705	61,705	+ 8,000
110	WARGAMING AND SUPPORT FOR STRATEGIC ANALYSIS [SSA]	3,559	3,559	.....
111	DEFENSE RAPID INNOVATION PROGRAM	10,020	.....	— 10,020
112	RAPID DEFENSE EXPERIMENTATION RESERVE [RDER]	53,149	23,750	— 29,399
113	MULTI-DOMAIN JOINT OPERATIONS [MDJO]	11,383	.....	— 11,383
114	JOINT C5 CAPABILITY DEVELOPMENT, INTEGRATION AND INTEROPERABILITY	29,706	29,706	.....
115	LONG RANGE DISCRIMINATION RADAR	100,882	100,882	.....
116	IMPROVED HOMELAND DEFENSE INTERCEPTORS	1,697,121	1,697,121	.....
117	BALLISTIC MISSILE DEFENSE TERMINAL DEFENSE SEGMENT TEST	25,673	25,673	.....
118	AEGIS BMD TEST	135,019	116,530	— 18,489
118	AEGIS BMD TEST (emergency) .....	.....	(1,200)	(+ 1,200)
119	BALLISTIC MISSILE DEFENSE SENSOR TEST	96,864	96,864	.....
120	LAND-BASED SM-3 [LBSM3]	22,220	22,220	.....
121	BALLISTIC MISSILE DEFENSE MIDCOURSE DEFENSE SEG- MENT TEST	40,006	40,006	.....
122	HIGH ENERGY LASER ADVANCED COMPONENT DEVELOPMENT & PROTOTYPE	2,931	2,931	.....
123	SAFETY PROGRAM MANAGEMENT	1,771	1,771	.....
124	CYBERCOM ACTIVITIES	35,700	35,700	.....
120	ROBUST INFRASTRUCTURE AND ACCESS			
126	CYBER TRAINING ENVIRONMENT (CTE)	158,345	135,345	— 23,000
127	ENTERPRISE INFORMATION TECHNOLOGY SYSTEMS	2,162	2,162	.....
128	CYBER SECURITY INITIATIVE	1,831	1,831	.....
129	INTELLIGENCE CAPABILITIES AND INNOVATION INVESTMENTS	51,784	51,784	.....
125	CYBERSPACE OPERATIONS FORCES AND FORCE SUPPORT			
131	CYBER OPERATIONS TECHNOLOGY SUPPORT	52,715	52,715	.....
132	OFFICE OF STRATEGIC CAPITAL (OSC)	132,640	35,331	— 97,309
133	BALLISTIC MISSILE DEFENSE SYSEM SPACE PROGRAMS	119,561	119,561	.....
	TOTAL, ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES	11,285,067	10,853,914	— 431,153
	SYSTEM DEVELOPMENT AND DEMONSTRATION			
134	CHIEF DIGITAL AND ARTIFICIAL INTELLIGENCE OFFICER (CDAO)—DEM/VAL ACTIVITIES	371,833	169,988	— 201,845
	JADC2			
135	ALPHA-1 DEVELOPMENT ACTIVITIES	53,307	53,307	.....
136	NUCLEAR AND CONVENTIONAL PHYSICAL SECURITY EQUIP- MENT	13,549	13,549	.....
137	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	270,265	253,216	— 17,049
138	JOINT TACTICAL INFORMATION DISTRIBUTION SYSTEM [JTIDS]	12,893	12,893	.....
139	COUNTER WEAPONS OF MASS DESTRUCTION SYSTEMS DE- VELOPMENT	14,841	11,131	— 3,710
140	INFORMATION TECHNOLOGY DEVELOPMENT	4,709	4,709	.....
141	HOMELAND PERSONNEL SECURITY INITIATIVE	9,526	9,526	.....
142	DEFENSE EXPORTABILITY PROGRAM	15,779	15,779	.....
143	OUSDC IT DEVELOPMENT INITIATIVES	7,564	7,564	.....
144	DEFENSE AGENCY INITIATIVES FINANCIAL SYSTEM	31,916	31,916	.....
145	MISSION ASSURANCE RISK MANAGEMENT SYSTEM [MARMS]	9,440	9,440	.....
146	DEFENSE-WIDE ELECTRONIC PROCUREMENT CAPABILITIES ..	9,485	9,485	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
147	TRUSTED AND ASSURED MICROELECTRONICS	150,436	150,436	.....
148	ACQUISITION INTEGRATION AND INTEROPERABILITY (AI2)	12,804	12,804	.....
149	RADIOLOGICAL AND NUCLEAR DEFENSE MODERNIZATION SYSTEM DEVELOPMENT AND DEMONSTRATION	3,575	3,575	.....
150	NUCLEAR COMMAND, CONTROL, AND COMMUNICATIONS	3,849	3,849	.....
151	DOD ENTERPRISE ENERGY INFORMATION MANAGEMENT [EEIM]	7,152	5,600	— 1,552
152	COUNTERPROLIFERATION ADVANCED DEVELOPMENT	13,151	13,151	.....
147	CWMD SYSTEMS: SYSTEM DEVELOPMENT AND DEMONSTRATION			
148	DOMESTIC PREPAREDNESS AGAINST WEAPONS OF MASS DESTRUCTION			
	TOTAL, SYSTEM DEVELOPMENT AND DEMONSTRATION	1,016,074	791,918	— 224,156
	MANAGEMENT SUPPORT			
154	JOINT CAPABILITY EXPERIMENTATION	12,385	12,385	.....
155	JADC2 DEVELOPMENT AND EXPERIMENTATION ACTIVITIES	222,945	424,920	+ 201,975
155	JADC2 DEVELOPMENT AND EXPERIMENTATION ACTIVITIES (emergency)		(122,700)	(+ 122,700)
156	DEFENSE READINESS REPORTING SYSTEM [DRRS]	11,415	11,415	.....
157	JOINT SYSTEMS ARCHITECTURE DEVELOPMENT	9,690	9,690	.....
158	CENTRAL TEST AND EVALUATION INVESTMENT DEVELOPMENT	782,643	710,935	— 71,708
159	ASSESSMENTS AND EVALUATIONS	1,503	1,503	.....
160	ASSESSMENTS AND EVALUATIONS, DOD	4,253	4,253	.....
161	MISSION SUPPORT	113,007	127,584	+ 14,577
162	JOINT MISSION ENVIRONMENT TEST CAPABILITY [JMETC]	209,008	209,008	.....
163	JOINT INTEGRATED AIR AND MISSILE DEFENSE ORGANIZATION	72,005	72,005	.....
164	CLASSIFIED PROGRAM USD(P)		180,900	+ 180,900
165	SYSTEMS ENGINEERING	24,669	24,669	.....
166	STUDIES AND ANALYSIS SUPPORT	6,289	5,227	— 1,062
167	NUCLEAR MATTERS—PHYSICAL SECURITY	19,871	20,871	+ 1,000
168	SUPPORT TO NETWORKS AND INFORMATION INTEGRATION	8,580	8,580	.....
169	GENERAL SUPPORT TO USD (INTELLIGENCE)	3,155	3,155	.....
170	CHEMICAL AND BIOLOGICAL DEFENSE PROGRAM	79,263	79,263	.....
177	CRITICAL TECHNOLOGY ANALYSIS	11,422		— 11,422
178	SMALL BUSINESS INNOVATION RESEARCH [SBIR]/ SMALL BUSINESS TECHNOLOGY TRANSFER	5,346	5,346	.....
179	MAINTAINING TECHNOLOGY ADVANTAGE	31,629	31,629	.....
180	DEFENSE TECHNOLOGY ANALYSIS	45,370	56,792	+ 11,422
181	DEFENSE TECHNICAL INFORMATION CENTER [DTIC]	66,247	66,247	.....
182	R&D IN SUPPORT OF DOD ENLISTMENT, TESTING AND EVALUATION	26,935	28,935	+ 2,000
183	DEVELOPMENT TEST AND EVALUATION	37,233	37,233	.....
184	MANAGEMENT HQ—R&D	14,577		— 14,577
185	MANAGEMENT HQ—DEFENSE TECHNICAL INFORMATION CENTER [DTIC]	3,505	3,505	.....
186	SPECIAL ACTIVITIES	18,263	18,263	.....
187	BUDGET AND PROGRAM ASSESSMENTS	14,272	14,272	.....
188	ANALYSIS WORKING GROUP (AWG) SUPPORT	2,814	2,814	.....
189	CHIEF DIGITAL AND ARTIFICIAL INTELLIGENCE OFFICER (CDAO) ACTIVITIES	9,262	14,762	+ 5,500
190	ODNA TECHNOLOGY AND RESOURCE ANALYSIS	3,403	3,403	.....
191	DEFENSE SCIENCE BOARD	6,536	4,444	— 2,092
192	AVIATION SAFETY TECHNOLOGIES	1,885	1,885	.....
193	CYBER RESILIENCY AND CYBERSECURITY POLICY	40,401	46,401	+ 6,000
194	DEFENSE CIVILIAN TRAINING CORPS	27,054	27,054	.....
195	JOINT PRODUCTION ACCELERATOR CELL (JPAC)	5,010		— 5,010
196	MANAGEMENT, TECHNICAL AND INTERNATIONAL SUPPORT	12,115	10,039	— 2,076
197	DEFENSE OPERATIONS SECURITY [DOSI]	3,151	3,151	.....
198	JOINT STAFF ANALYTICAL SUPPORT	7,433	7,433	.....

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
199	C4I INTEROPERABILITY	65,144	65,144	.....
202	COMBINED ADVANCED APPLICATIONS	23,311	23,311	.....
204	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	2,988	2,988	.....
205	JOINT STAFF OFFICE OF THE CHIEF DATA OFFICER (OCDO) ACTIVITIES	12,700	12,700	.....
206	COCOM EXERCISE ENGAGEMENT AND TRAINING TRANSFORMATION	166,021	58,997	— 107,024
207	DEFENSE EQUAL OPPORTUNITY MANAGEMENT INSTITUTE (DEOMI)	315	315	.....
208	INTEGRATED PRIMARY PREVENTION	5,096	5,096	.....
209	MANAGEMENT HEADQUARTERS—MDA	29,033	29,033	.....
210	JOINT SERVICE PROVIDER [JSP]	2,244	2,244	.....
9999	CLASSIFIED PROGRAMS	37,738	37,738	.....
	TOTAL, MANAGEMENT SUPPORT	2,319,134	2,527,537	+ 208,403
	OPERATIONAL SYSTEMS DEVELOPMENT			
211	NEXT GENERATION INFORMATION COMMUNICATIONS TECHNOLOGY (5G)	12,424	20,024	+ 7,600
203	ENTERPRISE SECURITY SYSTEM [ESS]			
213	CHEMICAL AND BIOLOGICAL WEAPONS ELIMINATION TECHNOLOGY IMPROVEMENT	4,254	4,254	.....
214	INDUSTRIAL BASE ANALYSIS AND SUSTAINMENT SUPPORT ...	1,099,243	1,156,243	+ 57,000
215	COUNTERPROLIFERATION MODERNIZATION	11,309	11,309	.....
206	CWMD SYSTEMS: OPERATIONAL SYSTEMS DEVELOPMENT			
216	GLOBAL THEATER SECURITY COOPERATION MANAGEMENT	8,654	8,654	.....
217	CHEMICAL AND BIOLOGICAL DEFENSE (OPERATIONAL SYSTEMS DEVELOPMENT)	84,098	69,032	— 15,066
218	RADIOLOGICAL AND NUCLEAR DEFENSE MODERNIZATION OPERATIONAL SYSTEM DEVELOPMENT	1,668	1,668	.....
219	ROBUST INFRASTRUCTURE AND ACCESS	154,375	126,047	— 28,328
220	CYBER COMMAND AND CONTROL (CYBER C2)	96,932	96,932	.....
221	DATA AND UNIFIED PLATFORM (D&UP)	106,053	87,053	— 19,000
225	DEFENSE INFO INFRASTRUCTURE ENGINEERING AND INTEGRATION	12,843	12,843	.....
226	COUNTERING THREATS AUTOMATED PLATFORM	6,057	6,057	.....
227	LONG HAUL COMMUNICATIONS [DCS]	51,214	51,214	.....
228	MINIMUM ESSENTIAL EMERGENCY COMMUNICATIONS NETWORK	4,985	4,985	.....
230	INFORMATION SYSTEMS SECURITY PROGRAM	31,127	39,127	+ 8,000
232	INFORMATION SYSTEMS SECURITY PROGRAM	31,414	31,414	.....
234	DEFENSE SPECTRUM ORGANIZATION	24,991	24,991	.....
235	JOINT PLANNING AND EXECUTION SERVICES	3,304	3,304	.....
236	JOINT REGIONAL SECURITY STACKS [JRSS]	2,371	2,371	.....
242	DEFENSE INDUSTRIAL BASE (DIB) CYBER SECURITY INITIATIVE	15,524	15,524	.....
232	INDUSTRIAL SECURITY ACTIVITIES			
248	DEFENSE JOINT COUNTERINTELLIGENCE ACTIVITIES	1,800	1,800	.....
249	COMBINED ADVANCED APPLICATIONS	42,355	42,355	.....
252	POLICY R&D PROGRAMS	6,220	6,220	.....
253	NET CENTRICITY	20,620	20,620	.....
255	DISTRIBUTED COMMON GROUND/SURFACE SYSTEMS	5,854	5,854	.....
249	INSIDER THREAT			
263	HOMELAND DEFENSE TECHNOLOGY TRANSFER PROGRAM	1,867	1,867	.....
270	CYBER OPERATIONS TECHNOLOGY SUPPORT	479,672	425,113	— 54,559
271	NATIONAL INDUSTRIAL SECURITY SYSTEMS (NISS)	38,761	30,264	— 8,497
261	DOMESTIC PREPAREDNESS AGAINST WEAPONS OF MASS DESTRUCTION			

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
275	LOGISTICS SUPPORT ACTIVITIES	1,406	1,406	.....
276	PACIFIC DISASTER CENTERS	1,861	6,361	+ 4,500
277	DEFENSE PROPERTY ACCOUNTABILITY SYSTEM	3,004	3,004	.....
279	MQ-9 UAV	34,851	34,851	.....
281	AVIATION SYSTEMS	263,712	231,492	− 32,220
282	INTELLIGENCE SYSTEMS DEVELOPMENT	81,648	85,347	+ 3,699
283	OPERATIONAL ENHANCEMENTS	206,307	239,007	+ 32,700
283	OPERATIONAL ENHANCEMENTS (emergency) .....	.....	(10,200)	(+ 10,200)
284	WARRIOR SYSTEMS	245,882	297,007	+ 51,125
284	WARRIOR SYSTEMS (emergency) .....	.....	(34,625)	(+ 34,625)
285	SPECIAL PROGRAMS	539	539	.....
286	UNMANNED ISR	31,578	24,851	− 6,727
287	SOF TACTICAL VEHICLES	9,025	7,025	− 2,000
288	MARITIME SYSTEMS	210,787	204,240	− 6,547
289	OPERATIONAL ENHANCEMENTS INTELLIGENCE	17,233	34,233	+ 17,000
999	CLASSIFIED PROGRAMS	8,686,427	9,615,273	+ 928,846
	TOTAL, OPERATIONAL SYSTEMS DEVELOPMENT	12,154,249	13,091,775	+ 937,526
	SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS			
292	ACQUISITION VISIBILITY—SOFTWARE PILOT PROGRAM	17,907	17,907	.....
293	GLOBAL COMMAND AND CONTROL SYSTEM	31,619	31,619	.....
294	CYBER OPERATIONS TECHNOLOGY SUPPORT	85,168	.....	− 85,168
	ADVANCING DATA ANALYTICS (ADVANA) .....	.....	412,058	+ 412,058
294A	DEFENSE INNOVATION UNIT [DIU] FIELDING			
	TOTAL, SOFTWARE AND DIGITAL TECHNOLOGY PILOT PROGRAMS	134,694	461,584	+ 326,890
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE	35,227,834	36,946,466	+ 1,718,632
	TOTAL, RESEARCH, DEVELOPMENT, TEST AND EVALUATION, DEFENSE-WIDE (emergency) .....	.....	(1,223,825)	(+ 1,223,825)

COMMITTEE RECOMMENDED ADJUSTMENTS

The following table details the adjustments recommended by the Committee:

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
1	DTRA Basic Research	15,311	19,811	+ 4,500
	Program increase: Materials science in extreme environments .....	.....	.....	+ 4,500
2	Defense Research Sciences	303,830	.....	− 303,830
	Unjustified request .....	.....	.....	− 10,685
	DARPA requested functional transfer to RDDW line 8A .....	.....	.....	− 293,145
4	Basic Research Initiatives	77,132	107,132	+ 30,000
	Program increase: DEPSCoR .....	.....	.....	+ 20,000
	Program increase: Hispanic serving research cohort .....	.....	.....	+ 10,000
5	Basic Operational Medical Research Science	99,048	.....	− 99,048
	Unjustified request .....	.....	.....	− 19,553
	DARPA requested functional transfer to RDDW line 8A .....	.....	.....	− 79,495
6	National Defense Education Program	169,986	179,986	+ 10,000
	Program increase: Civil society education and outreach to rural communities program .....	.....	.....	+ 10,000
7	Historically Black Colleges and Universities/Minority Institutions	99,792	102,292	+ 2,500
	Program increase: Research activity status pilot program .....	.....	.....	+ 2,500

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
8A	Emerging Opportunities		372,640	+ 372,640
	DARPA requested functional transfer from RDDW line 2			+ 293,145
	DARPA requested functional transfer from RDDW line 5			+ 79,495
10	Biomedical Technology	169,198		— 169,198
	DARPA requested functional transfer to RDDW Line 28D			— 122,802
	Unjustified request			— 46,396
12	Defense Technology Innovation	38,515	20,022	— 18,493
	Unjustified growth			— 18,493
15	Information & Communications Technology	397,266		— 397,266
	DARPA requested functional transfer to RDDW Line 28A			— 291,605
	DARPA requested functional transfer to RDDW Line 28B			— 82,248
	Unjustified request			— 23,413
18	Cyber Security Research	17,652	31,652	+ 14,000
	Program increase: Academic cyber institutes			+ 5,000
	Program increase: Pacific intelligence and innovation initiative			+ 4,000
	Program increase: University consortium for cybersecurity			+ 5,000
21	Tactical Technology	117,935		— 117,935
	DARPA requested functional transfer to RDDW Line 28A			— 117,935
22	Materials and Biological Technology	337,772		— 337,772
	DARPA requested functional transfer to RDDW Line 28C			— 166,332
	DARPA requested functional transfer to RDDW Line 28D			— 149,889
	Unjustified request			— 21,551
23	Electronics Technology	573,265		— 573,265
	DARPA requested functional transfer to RDDW Line 28B			— 56,503
	DARPA requested functional transfer to RDDW Line 28C			— 417,744
	Unjustified request			— 60,829
	Effort previously funded			— 38,189
24	Counter Weapons of Mass Destruction Applied Research	174,955	170,615	— 4,340
	Program increase: Diagnostic evaluation of transient turbulence			+ 5,000
	Prior year underexecution			— 9,340
28	SOF Technology Development	50,183	60,293	+ 10,110
	Program increase: Assessment of commercial systems			+ 3,110
	Program increase: Cold weather layering system			+ 5,000
	Program increase: Wearable robotics for shock reduction			+ 2,000
28A	Access and Awareness		412,540	+ 412,540
	Program increase: Beyond scaling technology			+ 3,000
	DARPA requested functional transfer from RDDW Line 15			+ 291,605
	DARPA requested functional transfer from RDDW Line 21			+ 117,935
28B	Kinetic and Non-Kinetic Delivery		260,526	+ 260,526
	DARPA requested functional transfer from RDDW Line 15			+ 82,248
	DARPA requested functional transfer from RDDW Line 42			+ 10,275
	DARPA requested functional transfer from RDDW Line 23			+ 56,503
	DARPA requested functional transfer from RDDW Line 63			+ 30,417

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	DARPA requested functional transfer from RDDW Line 61			+ 16,000
	DARPA requested functional transfer from RDDW Line 64			+ 65,083
28C	Making, Maintaining, Supply Chain and Logistics		584,076	+ 584,076
	DARPA requested functional transfer from RDDW Line 23			+ 417,744
	DARPA requested functional transfer from RDDW Line 22			+ 166,332
28D	Warfighting Performance		272,691	+ 272,691
	DARPA requested functional transfer from RDDW Line 22			+ 149,889
	DARPA requested functional transfer from RDDW Line 10			+ 122,802
29	Joint Munitions Advanced Technology	41,072	37,715	– 3,357
	Prior year underexecution			– 3,357
30	National Security Innovation Capital	14,983	19,983	+ 5,000
	Program increase: Enhanced LiDAR payload and satellite bus development			+ 5,000
32	Combating Terrorism Technology Support	76,639	233,639	+ 157,000
	Program increase: Artificial intelligence for explosive ordnance disposal decision support			+ 2,000
	Program increase: Emerging technologies cooperation			+ 47,500
	Program increase: Low cost VTOL precision strike loitering munition			+ 1,000
	Program increase: Testbed for explosive hazards			+ 4,000
	Program increase: Anti-tunneling			+ 47,500
	Program increase: C-UAS development including directed energy and laser technology			+ 55,000
34	Mission Engineering & Integration (ME&I)	110,628	72,029	– 38,599
	Effort previously funded			– 13,485
	Unjustified growth: Analysis line of effort			– 9,244
	Transfer remaining Big Play resources to RDDW Line 73A, Constructive Modeling and Simulation			– 7,935
	Unjustified growth: Big Play			– 7,935
35	Counter Weapons of Mass Destruction Advanced Technology Development	418,044	410,112	– 7,932
	Prior year underexecution			– 7,932
37	Advanced Concepts and Performance Assessment	17,920	27,920	+ 10,000
	Program increase: Counter hypersonic missile propulsion			+ 10,000
38	Advanced Research	19,354	24,854	+ 5,500
	Program increase: Advanced energetics for deeply buried targets			+ 1,500
	Program increase: Hypersonic interceptor component technology			+ 4,000
39	Joint Hypersonic Technology Development & Transition	51,941	56,941	+ 5,000
	Program increase: Specialized joint research range launch equipment			+ 5,000
42	Advanced Aerospace Systems	269,700		– 269,700
	DARPA requested functional transfer to RDDW Line 28B			– 10,275
	DARPA requested functional transfer to RDDW Line 74A			– 236,809
	Reduce duplicative efforts			– 22,616
43	Space Programs and Technology	225,457		– 225,457
	DARPA requested functional transfer to RDDW Line 74A			– 199,698
	Programmatic rebaseline: DRACO			– 16,094
	Unjustified request			– 9,665
44	Analytic Assessments	30,594	33,020	+ 2,426
	Program increase: Assessment and mitigation of foreign ownership and control			+ 2,426
45	Advanced Innovative Analysis and Concepts	56,390	61,390	+ 5,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Program increase: CUAS for multi-modal classifier			+ 5,000
46	Quantum Application	69,290	20,420	— 48,870
	Duplicative efforts			— 48,870
47	Defense Innovation Unit (DIU)	109,614	123,614	+ 14,000
	Program increase: Laser wireless power beaming			+ 2,000
	Program increase: Defense innovation onramp hubs geographic expansion			+ 8,000
	Program increase: Autonomous electric maritime drones			+ 4,000
48	Technology Innovation	74,549	38,732	— 35,817
	OSD identified excess to need			— 19,997
	Excess to need			— 15,820
50	Chemical and Biological Defense Program—Advanced Development	230,051	236,051	+ 6,000
	Program increase: Broad-spectrum indirect antiviral research			+ 1,000
	Program increase: Synthetic molecular binding agents for diagnostics			+ 5,000
52	Joint Electronic Advanced Technology	20,188	17,177	— 3,011
	Prior year underexecution			— 3,011
55	Defense-Wide Manufacturing Science and Technology Program	190,557	425,057	+ 234,500
	Program increase			+ 200,000
	Program increase: Advanced robotics manufacturing demonstration			+ 2,500
	Program increase: Automated manufacturing technologies for very high temperature composites			+ 10,000
	Program increase: Digital manufacturing capability training program			+ 2,500
	Program increase: Manufacturing of advanced composites for hypersonics			+ 6,000
	Program increase: Nanoscale materials manufacturing			+ 5,000
	Program increase: Next generation textiles			+ 2,000
	Program increase: OT and internet-of-things asset identification and management			+ 3,500
	Program increase: Veteran's workforce program			+ 3,000
56	Manufacturing Technology Program	55,366	109,866	+ 54,500
	Program increase: 3D weaving of near-net-shape hypersonic structures			+ 3,000
	Program increase: 3DHI microsystems assurance			+ 3,000
	Program increase: Antimony domestic supply chain			+ 2,000
	Program increase: Critical mineral supply chain resiliency			+ 5,000
	Program increase: Domestic production of tantalum			+ 4,000
	Program increase: High performance synthetic graphite			+ 8,500
	Program increase: High temperature ceramic composite lab and prototyping			+ 10,000
	Program increase: Hypersonic radomes and apertures			+ 1,000
	Program increase: Hypersonic refractory alloy powder production			+ 1,000
	Program increase: Niobium supply chain for aerospace critical superalloys			+ 3,000
	Program increase: Processing pilot for high-purity nickel			+ 4,000
	Program increase: Steel performance initiative			+ 2,500
	Program increase: Supply chain readiness improvement program			+ 7,500
58	Strategic Environmental Research Program	58,838	61,338	+ 2,500
	Program increase: Non PFAS firefighting protective equipment fix caps			+ 2,500
61	Advanced Electronics Technologies	257,844		— 257,844
	DARPA requested functional transfer to RDDW Line 74B			— 141,844

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	DARPA requested functional transfer to RDDW Line 28B			— 16,000
	Early to need: Next Generation Microelectronics Manufacturing			— 100,000
62	Command, Control and Communications Systems	336,542		— 336,542
	DARPA requested functional transfer to RDDW Line 74B			— 183,962
	DARPA requested functional transfer to RDDW Line 74C			— 152,580
63	Network-Centric Warfare Technology	886,511		— 886,511
	Classified adjustment			— 19,978
	Early to need: APEX			— 15,846
	DARPA requested functional transfer to RDDW Line 74C			— 820,270
	DARPA requested functional transfer to RDDW Line 28B			— 30,417
64	Sensor Technology	267,961		— 267,961
	DARPA requested functional transfer to RDDW Line 74A			— 46,343
	DARPA requested functional transfer to RDDW Line 28B			— 65,083
	DARPA requested functional transfer to RDDW Line 74C			— 156,535
68	High Energy Laser Advanced Technology Program	110,367	115,367	+ 5,000
	Program increase: MOSA high energy laser architecture			+ 5,000
69	Test & Evaluation Science & Technology	268,722	357,222	+ 88,500
	Program increase: Space testing facilities			+ 25,000
	Program increase: Advanced EMS monitoring for western EW test ranges			+ 9,000
	Program increase: Hypersonic missile tracking targets			+ 5,000
	Program increase: Hypersonic secure multi-domain data cell capability			+ 10,000
	Program increase: Hypersonic wave heat facilities			+ 20,000
	Program increase: Mach 8 quiet wind tunnel construction			+ 5,000
	Program increase: MACH-TB			+ 10,000
	Program increase: Thermal evaluation readiness materials analysis lab			+ 2,500
	Program increase: High altitude LiDAR atmospheric sensing			+ 2,000
70	International Innovation Initiatives	125,680	15,390	— 110,290
	Unjustified request			— 90,290
	Transfer to RDT&E,N Line 24 Navy Warfighting Experiments and Demonstrations, to align execution			— 20,000
72	Operational Energy Capability Improvement	167,279	169,279	+ 2,000
	Program increase: Distributed maritime energy research			+ 2,000
73A	Constructive Modeling and Simulation		45,610	+ 45,610
	Transfer from RDDW Line 206, COCOM Exercise Engagement and Training Transformation (CE2T2)—non-MHA			+ 37,675
	Transfer from RDDW Line 34, Mission Engineering & Integration			+ 7,935
74	SOF Advanced Technology Development	197,767	182,767	— 15,000
	Program increase: Signature analysis and assessments			+ 5,000
	Unjustified request: HSVTOL long-lead materials			— 20,000
74A	Advanced Aerospace and Space Systems		482,850	+ 482,850
	DARPA requested functional transfer from RDDW Line 42			+ 236,809
	DARPA requested functional transfer from RDDW Line 43			+ 199,698

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	DARPA requested functional transfer from RDDW Line 64			+ 46,343
74B	Advanced Electronics and Cyber Technology Development ...		325,806	+ 325,806
	DARPA requested functional transfer from RDDW Line 62			+ 183,962
	DARPA requested functional transfer from RDDW Line 61			+ 141,844
74C	DARPA Advanced Technology Development		2,004,385	+ 2,004,385
	DARPA requested functional transfer from RDDW Line 62			+ 152,580
	DARPA requested functional transfer from RDDW Line 63			+ 820,270
	DARPA requested functional transfer from RDDW Line 64			+ 156,535
	Classified adjustment (emergency)			+ 875,000
75	Nuclear and Conventional Physical Security Equipment RDT&E ADC&P	63,162	60,711	— 2,451
	Phase programmatic growth			— 2,451
77	Environmental Security Technical Certification Program	136,513	163,013	+ 26,500
	Program increase: Environmental research to demonstration partnerships			+ 11,000
	Program increase: Immersion cooling			+ 2,500
	Program increase: PFAS cleanup, treatment and destruction technologies			+ 10,000
	Program increase: Sustainable technology evaluation and demonstration program			+ 3,000
78	Ballistic Missile Defense Terminal Defense Segment	367,279	278,346	— 88,933
	Unjustified growth: System Build 6.0			— 85,500
	Program wide support adjustment			— 3,433
80	Chemical and Biological Defense Program—Dem/Val	304,374	290,064	— 14,310
	Program delays: Agent directed therapeutics			— 1,974
	Program delays: CBIPR—MODEL			— 3,000
	Prior year underexecution: TCMS			— 999
	Prior year underexecution: Plague monoclonal antibodies			— 3,204
	Prior year underexecution: Medical countermeasure platform tech			— 3,514
	Prior year underexecution: Accelerated antibodies enhanced biodefense			— 1,619
82	BMD Enabling Programs	609,406	602,314	— 7,092
	Unjustified growth: Future concepts and planning			— 1,430
	Unjustified growth: Verification and assessment			— 5,662
84	AEGIS BMD	649,255	738,455	+ 89,200
	Program increase: Guam Defense System (emergency)			+ 89,200
85	Ballistic Missile Defense Command and Control, Battle Management and Communications (C2BMC)	569,662	539,940	— 29,722
	Planning and design previously funded			— 15,000
	CODDS contract cancellation			— 2,852
	Unjustified growth: Spiral 8.2–7 deployment			— 11,000
	Program wide support adjustment			— 870
91	Ballistic Missile Defense Test	367,491	356,884	— 10,607
	IMTP test adjustments			— 10,041
	Program wide support adjustment			— 566
92	Ballistic Missile Defense Targets	604,708	624,108	+ 19,400
	Program increase: Low-cost hypersonic flight test bed			+ 5,000
	Program increase: Guam Defense System (emergency)			+ 14,400
94	Next Generation Information Communications Technology (5G)	139,427	50,936	— 88,491
	Unjustified request: Dual use 5G Use Cases			— 24,698
	Unjustified request: Congested Spectrum			— 35,193
	OSD requested transfer from RDDW Line 94 to OMDW Line 4GT9 to properly align 5G resourcing			— 8,500
	OSD requested transfer from RDDW Line 94 to PDW Line 16 to properly align 5G resourcing			— 11,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	OSD requested transfer from RDDW Line 94 to RDDW Line 211 to properly align 5G resourcing			— 7,600
	OSD requested transfer from RDDW Line 94 to RDDW Line 94A to properly align 5G resourcing			— 1,500
94A	5G Cross Functional Team		1,500	+ 1,500
	OSD requested transfer from RDDW Line 94 to RDDW Line 94A to properly align 5G resourcing			+ 1,500
95	Department of Defense Corrosion Program	2,637	7,137	+ 4,500
	Program increase			+ 4,500
96	Guam Defense Development	415,794	471,754	+ 55,960
	FF&E early to need			— 19,900
	Program wide support adjustment			— 640
	Program increase: Guam Defense System (emergency)			+ 76,500
97	Technology Maturation Initiatives		2,500	+ 2,500
	Program increase: Short pulse laser research			+ 2,500
99	Advanced Manufacturing Components and Prototypes	16,776	31,776	+ 15,000
	Program increase: Large scale, agile, additive and hybrid manufacturing pilot program			+ 15,000
101	Advanced Innovative Technologies	994,226	851,631	— 142,595
	Program increase: Project Pele			+ 22,480
	Program decrease: Hypervelocity gun weapon system			— 165,075
102	Trusted & Assured Microelectronics	593,609	567,969	— 25,640
	Program increase: Fusion linear accelerator for radiation hardening of microelectronics			+ 5,000
	Program increase: Radiation-hardened chiplet design acceleration			+ 4,000
	Program increase: Reliable and radiation tolerant microelectronics			+ 2,500
	Program increase: Trusted AI for microelectronics			+ 1,500
	Prior year underexecution			— 38,640
103	Rapid Prototyping Program	152,126	90,854	— 61,272
	Program increase: LongShot			+ 10,000
	Maintain level of effort			— 3,380
	Retain PE Consolidation: Transfer from RDDW Line 113			+ 11,383
	Functional transfer of the Joint Fires Network to RDDW Line 155			— 79,275
106	Department of Defense [DOD] Unmanned System Common Development	2,527	9,527	+ 7,000
	Program increase: Unmanned traffic management test, evaluation, and implementation			+ 7,000
108	Operational Energy Capability Improvement—Non S&T	53,705	61,705	+ 8,000
	Program increase: Field based airborne power generation system			+ 8,000
111	Defense Rapid Innovation Program	10,020		— 10,020
	Duplicative effort			— 10,020
112	Rapid Defense Experimentation Reserve [RDER]	53,149	23,750	— 29,399
	Transfer: Rapid Defense Innovation Reserve			+ 23,750
	Transfer: Rapid Defense Experimentation Reserve			— 23,750
	Program decrease			— 29,399
113	Multi-Domain Joint Operations (MDJO)	11,383		— 11,383
	Retain PE Consolidation: Transfer to RDDW Line 103			— 11,383
116	Improved Homeland Defense Interceptors	1,697,121	1,697,121	
	Unjustified test and engineering event			— 22,613
	Risk reduction activities			+ 22,613
118	Aegis BMD Test	135,019	116,530	— 18,489
	IMTP test adjustments			— 19,466
	Program wide support adjustment			— 223
	Program increase: Guam Defense System (emergency)			+ 1,200
126	Cyber Training Environment (CTE)	158,345	135,345	— 23,000
	Program increase: Persistent Cyber Training Environment			+ 2,000
	Excess growth PCTE			— 25,000
132	Office of Strategic Capital (OSC)	132,640	35,331	— 97,309

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Excess to need: Critical technologies limited partner program			– 28,721
	Transfer to DOD Credit Program Account			– 24,600
	Phase program growth			– 43,988
134	Chief Digital and Artificial Intelligence Officer (CDAO)—Dem/Val Activities	371,833	169,988	– 201,845
	Transfer to RDDW line 294A for ADVANA software pilot program			– 194,973
	Prior year underexecution			– 6,872
137	Chemical and Biological Defense Program—EMD	270,265	253,216	– 17,049
	Prior year underexecution			– 12,540
	Unjustified growth: RAPID			– 4,509
139	Counter Weapons of Mass Destruction Systems Development	14,841	11,131	– 3,710
	Prior year underexecution			– 3,710
151	DoD Enterprise Energy Information Management [EIM]	7,152	5,600	– 1,552
	Prior year carryover			– 1,552
155	JADC2 Development and Experimentation Activities	222,945	424,920	+ 201,975
	Functional transfer of the Joint Fires Network from RDDW Line 103			+ 79,275
	Program increase: Joint Fires Network (emergency)			+ 122,700
158	Central Test and Evaluation Investment Development (CTEIP)	782,643	710,935	– 71,708
	Program increase: Excellence in aerospace modeling and simulation			+ 3,000
	Program increase: Hypersonic multi-domain test modules			+ 15,000
	Prior year underexecution			– 21,879
	Contract award delays: Electronic warfare airborne test systems			– 67,829
161	Mission Support	113,007	127,584	+ 14,577
	DARPA requested functional transfer from RDDW Line 184			+ 14,577
164	Classified Program USD(P)		180,900	+ 180,900
	Program increase			+ 180,900
166	Studies and Analysis Support—OSD	6,289	5,227	– 1,062
	Prior year underexecution			– 1,062
167	Nuclear Matters-Physical Security	19,871	20,871	+ 1,000
	Program increase: Nuclear enterprise supply chain management			+ 1,000
177	Critical Technology Analysis	11,422		– 11,422
	Retain PE Consolidation: Transfer to RDDW 180			– 11,422
180	Defense Technology Analysis	45,370	56,792	+ 11,422
	Retain PE Consolidation: Transfer from RDDW 177			+ 11,422
182	R&D in Support of DoD Enlistment, Testing and Evaluation	26,935	28,935	+ 2,000
	Program increase: Federal voting assistance program			+ 2,000
184	Management HQ—R&D	14,577		– 14,577
	DARPA requested functional transfer to RDDW Line 161			– 14,577
189	Chief Digital and Artificial Intelligence Officer (CDAO) Activities	9,262	14,762	+ 5,500
	Program increase: Documentation of AI enabled weapons, targeting, and decision support			+ 500
	Program increase: Ubiquitous technical surveillance lab			+ 2,500
	Program increase: Enhancing data collection and analysis capabilities for fighter aircraft			+ 2,500
191	Defense Science Board	6,536	4,444	– 2,092
	Phase programmatic growth			– 2,092
193	Cyber Resiliency and Cybersecurity Policy	40,401	46,401	+ 6,000
	Program increase: Cyber talent and security			+ 1,000
	Program increase: Deep cyber resilience analysis			+ 5,000
195	Joint Production Accelerator Cell (JPAC)	5,010		– 5,010
	Unjustified request			– 4,010

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Transfer to RDDW Line 214, Industrial Base Analysis and Sustainment Support			— 1,000
196	Management, Technical & International Support	12,115	10,039	— 2,076
	Prior year underexecution			— 2,076
206	COCOM Exercise Engagement and Training Transformation (CE2T2)—non-MHA	166,021	58,997	— 107,024
	Transfer to RDDW Line 73A, Constructive Modeling and Simulation			— 35,675
	Unjustified growth			— 71,349
211	Next Generation Information Communications Technology (5G)	12,424	20,024	+ 7,600
	OSD requested transfer from RDDW Line 94 to RDDW line 211 to properly align 5G resourcing			+ 7,600
214	Industrial Base Analysis and Sustainment Support	1,099,243	1,156,243	+ 57,000
	Program increase: Advanced electrification demonstration			+ 4,000
	Program increase: Advanced manufacturing pilot program			+ 5,000
	Program increase: Automated textile manufacturing			+ 2,500
	Program increase: Corrosion resistant magnesium coating for aircraft			+ 6,000
	Program increase: Critical materials processing			+ 5,000
	Program increase: Distributed, independent, and agile manufacturing on-demand			+ 3,000
	Program increase: Expansion of radar and avionics repair and sustainment facilities			+ 2,000
	Program increase: High accuracy maintenance robotics			+ 5,000
	Program increase: PFAS-free CBRN protective garments			+ 5,000
	Program increase: Precision optics manufacturing			+ 3,000
	Program increase: Production of critical chemicals for DOD propellants			+ 3,000
	Program increase: Rare earth element demonstration			+ 5,000
	Program increase: Resilient manufacturing ecosystem			+ 3,000
	Program increase: Supply chain improvement demonstration			+ 1,500
	Program increase: Wafer bump upgrades for outsourced semiconductor assembly and test			+ 3,000
	Transfer from RDDW Line 195, Joint Production Accelerator Cell (JPAC)			+ 1,000
217	Chemical and Biological Defense (Operational Systems Development)	84,098	69,032	— 15,066
	Phase program growth			— 15,066
219	Robust Infrastructure and Access	154,375	126,047	— 28,328
	JCAP early to need			— 20,228
	Prior year carryover			— 8,100
221	Data and Unified Platform (D&UP)	106,053	87,053	— 19,000
	Unified platform unjustified growth			— 19,000
230	Information Systems Security Program	31,127	39,127	+ 8,000
	Program increase: Centers for academic excellence			+ 5,000
	Program increase: Narrative intelligence			+ 3,000
270	Cyber Operations Technology Support	479,672	425,113	— 54,559
	JCW carryover			— 25,000
	JCW ahead of need			— 41,375
	JCWA integration prior year carryover			— 3,000
	Transfer from RDT&E,DW line 294			+ 14,816
271	National Industrial Security Systems (NISS)	38,761	30,264	— 8,497
	Prior year underexecution			— 8,497
276	Pacific Disaster Centers	1,861	6,361	+ 4,500
	Program increase: Global water security center			+ 4,500
281	Aviation Systems	263,712	231,492	— 32,220
	Program increase: Synthetic vision avionics backbone technology			+ 4,000

[In thousands of dollars]

Line	Item	2025 budget estimate	Committee recommendation	Change from budget estimate
	Prior year underexecution: MQ9 Malet			– 3,496
	Unjustified request: MC–130J Amphibious capability ..			– 11,500
	Prior year underexecution: MH–60			– 1,889
	Unjustified request: FARA SOF-p engineering			– 4,170
	Prior year underexecution: AC/MC–130J RFCM			– 1,713
	Early to need: LEA UAS flight test			– 8,352
	Early to need: A2E developmental test			– 5,100
282	Intelligence Systems Development	81,648	85,347	+ 3,699
	Program increase: Quantum computing and quantum networking			+ 5,000
	Program increase: MTUAS enhancements			+ 4,000
	Contract award delay			– 5,301
283	Operational Enhancements	206,307	239,007	+ 32,700
	Program increase: High speed assault craft integrated bridge system			+ 1,000
	Program increase: Single channel handheld enhancements			+ 4,500
	Program increase: Small autonomous surface vessels for maritime special operations forces			+ 5,000
	Program increase: VTOL UAS upgrade			+ 12,000
	Program increase: Loitering munition accelerated fielding and reliability testing acceleration (emergency)			+ 10,200
284	Warrior Systems	245,882	297,007	+ 51,125
	Program increase: Body armor optimization			+ 5,000
	Program increase: Platform agnostic data storage infrastructure			+ 2,500
	Program increase: Special operations TBI pilot program			+ 4,000
	Program increase: Special operations longitudinal study			+ 5,000
	Program increase: Counter unmanned systems and Group 3 defeat acceleration (emergency)			+ 34,625
286	Unmanned ISR	31,578	24,851	– 6,727
	Prior year carryover			– 6,727
287	SOF Tactical Vehicles	9,025	7,025	– 2,000
	Program delays			– 2,000
288	Maritime Systems	210,787	204,240	– 6,547
	Program increase: Affordable attritable AUVs			+ 1,000
	Prior year underexecution: UCME			– 1,115
	Early to need: Combat craft medium EMD			– 6,432
289	Operational Enhancements Intelligence	17,233	34,233	+ 17,000
	Program increase: Autonomous UAS droppable aircraft improvements			+ 10,000
	Program increase: Eliminating battery supply chain risk with advanced technology			+ 2,000
	Program increase: Amorphous silicon oxycarbide lithium-ion battery technology			+ 5,000
999	Classified Programs	8,686,427	9,615,273	+ 928,846
	Classified adjustment			+ 928,846
294	Cyber Operations Technology Support	85,168		– 85,168
	Transfer to P,DW line 46			– 49,939
	Transfer to O&M,DW line 120			– 20,413
	Transfer to RDT&E,DW line 270			– 14,816
294A	Advancing Data Analytics (ADVANA)		412,058	+ 412,058
	Transfer from OMDW line 4GTN for ADVANA software pilot program			+ 217,085
	Transfer from line 134 for ADVANA software pilot program			+ 194,973

Office of the Undersecretary of Defense (Research and Engineering) prototyping efforts.—The Committee is concerned that the Office of the Undersecretary of Defense for Research and Engineering