

CONGRESSIONAL BUDGET OFFICE U.S. Congress Washington, DC 20515

> Robert D. Reischauer Director

August 17, 1992

MEMORANDUM FOR THE RECORD

FROM: Mick Miller Bill Myers Ray Hall

SUBJECT: Annual SAR Review

The December 1991 Selected Acquisition Reports (SARs) were submitted to the Congress in March, 1992, in support of the fiscal year 1993 budget request. At the request of Congressional staff, we have examined these reports in detail. Our examination reveals that the Department of Defense (DoD) projects total program costs about 1 percent below levels of a year ago (adjusted for inflation and quantity changes), but cost projections for individual systems vary widely and the results of our analysis should be interpreted with caution.

This memorandum presents these results, highlighting aggregate cost changes and individual weapons system program changes. All costs are in current budget authority, unless otherwise noted.

AGGREGATE COST CHANGES

The total program costs provided in the SARs include research and development, procurement, military construction, and operation and maintenance appropriations. Total program costs reflect actual and projected costs of selected weapon systems from the development phase through the final buy. This year, the SARs cover 111 systems including 6 reports that are being submitted for the first time and over 2,500 pages of information. The systems' costs represent nearly 40 percent of the Administration's 1993 request for weapons procurement. Excluding systems that were first included in the SARs in the past year, our analysis shows that DoD projections of total program costs have increased by about 2 percent (\$16.3 billion) over the past year, unadjusted for inflation and quantity changes.

The Defense Department reports projected cost changes in seven basic categories. The categories and their contribution to this year's cost changes are as follows:

- <u>Economic changes</u> are cost changes resulting from a difference between actual and previously projected price growth, and from differences between past and current economic projections. These two differences combine to decrease projected costs in the SARs by about \$18.3 billion.
- o <u>Ouantity changes</u> refer to changes in the quantity of weapons to be procured. The SARs show that the planned quantity changes increase costs by \$40.7 billion.
- <u>Schedule changes</u> are changes in procurement delivery schedules, production completion date, or intermediate development or production milestones. These changes combine to increase costs by nearly \$0.7 billion.
- o <u>Engineering changes</u> are changes in the physical or functional characteristics of the system, which this year decrease costs by \$9 billion.
- o <u>Estimating changes</u> are changes in total program cost due to a correction of error in preparing the original estimate, refinement of a previous estimate, or a change in program or cost-estimating assumptions and techniques not provided for in the other costchange categories. For these reasons, DoD has increased its previous cost estimates by \$4.2 billion.
- o <u>Support changes</u> are cost changes associated with training and training equipment, peculiar support equipment, activation of an operational site, and initial spares and repair parts. These changes increase costs by almost \$0.6 billion.
- o <u>Other changes</u> are changes in program cost not provided for in the other cost variance categories. These changes decrease costs by \$2.5 billion.

Setting aside cost changes due to updated inflation assumptions and procurement quantities, total program cost projections are down about 1 percent (\$6.1 billion) since December 1990 (See the top panel of Table 1) compared with a nearly 5 percent increase (\$39.4 billion) a year ago. However, this analysis should be cautiously interpreted with three points in mind.

First, the results of any cost growth study depend on what systems are included in the analysis. Changes in the world situation and the acquisition environment have caused many programs to be terminated or restructured, and the overall decrease this year is primarily caused by these programs. The top panel of Table 2 shows that of 19 weapons with cost decreases, 18 systems were either terminated or restructured. Excluding these programs results in a 3 percent or \$18.7 billion increase as against a 1 percent or \$6.1 billion decrease (See the middle and top panels of Table 1). On the other hand the bottom panel of Table 2 shows 13 systems with cost increases of 10 percent or more. Excluding all weapons with cost increases or decreases of at least 10 percent results in an overall cost increase of 1 percent or \$8.4 billion (See the bottom panel of Table 1).

Second, cost growth in individual systems varies widely from a 100 percent decrease for the Army's future infantry fighting vehicle to a 170 percent increase for the Army's future armored resupply vehicle (both systems are part of the armored system modernization program). Cost growth percentages are only one measure of how well a weapons program is progressing; the dollar value of the change is important also. For example, a 10 percent increase in last year's estimate for the Army's multiple launch rocket system terminal guidance warhead would cost \$26 million, while a 4 percent increase in the C-17 aircraft estimate would cost nearly \$1.3 billion. Furthermore, the analyst should review the reasons for cost change. For example, the 46 percent increase in the Army's Stinger RMP missile resulted from "corrections to last year's report," while a 11 percent increase in the Navy's AOE-6 fast combat support ship resulted from price increases (See Table 2). Congressional staff can refer to Summary Tables provided in the appendix to review cost growth percents, dollar amounts and the major reasons cited for cost changes for all of the systems included in this analysis (Army, Navy, and Air Force data are highlighted in separate tables).

Service with Program Management Resp	Percent	Dollars	
Total	Cost Changes		
Army		2%	3,622
Navy		-3%	-13,229
Alr Force		2%	5,376
DoD		-6%	-1,867
Grand Total		-1%	-6,098
Totals Less Systems with Co	ost Decreases of	10 Percent or More	B
Army		6%	8,000
Navy		a	1,386
AirForce		5%	11,219
DoD		-6%	-1,867
Grand Total		3%	18,738
Totals Less Systems with Cost Inc	reases or Decrea	uses of 10 Percent (or More
Army		a	467
Navy		1%	2,117
		5%	
•		376	1 60,1
Air Force DoD		-6%	7,651 -1,867

TABLE 1. COST GROWTH EXCLUDING ECONOMIC AND QUANTITY CHANGES SINCE DECEMBER 1990 (in millions of current dollars and percents)

Note: Excludes systems that have classified estimates or were first included in the SARs in the past year.

a. Less than one-half of one percent.

-

· -

Ship ASW Combat Systems with Systems with Brite ASW Combat System Bitcopter Program (LH) Bitcopter (SM) Bitcopter (SM) Bitcopter (SLM) Bitcopter (SLM) Bi	Systems with Cost Decreases of 10 Percent or More -61% -1,153 Program terminated -61% -1,153 Program terminated -61% -1,363 Program terminated -61% -1,363 Program terminated -61% -1,363 Program terminated -25% -1,142 Program terminated -25% -1,142 Program terminated -25% -1,142 Program terminated -25% -1,261 Program terminated -25% -1,261 Program terminated -22% -1,261 Program terminated -22% -1,2201 Program terminated -22% -1,2201 Program terminated -22% -1,2201 Program terminated -1,95 -494 Program terminated -1,95 -2,235 Program terminated -1,95 -1,2201 Program terminated -1,95 -2,235 Program terminated -1,95 -2,235 Program terminated -1,95 -2,235 Program terminated -1,95 -1,353 Program terminated -1,95 -1,353 Program terminated -1,95 -1,353 Program terminated -1,95 -1,353 Program terminated <td< th=""></td<>
Line Line 1 1 <t< td=""><td> 153 Program terminated. 589 Program terminated. 589 Program terminated. 589 Program restructured. 581 Program restructured (deletion of technical Insertion for computer re-buys). 201 Program restructured (see tooinote 2). 589 Program restructured. 583 Program restructured. 586 Program restructured. </td></t<>	 153 Program terminated. 589 Program terminated. 589 Program terminated. 589 Program restructured. 581 Program restructured (deletion of technical Insertion for computer re-buys). 201 Program restructured (see tooinote 2). 589 Program restructured. 583 Program restructured. 586 Program restructured.
	 85 Program terminated. 85 Program restructured. 85 Program restructured. 86 Program restructured (see foorhote 2). 89 Program restructured. 88 Program restructured. 89 Program restructured. 80 Program restructured.
	 859 Program terminated 142 Program restructured. 851 Production program terminated. 853 Program restructured (see toonicle 2). 895 Program restructured. 805 Program restructured. 806 Program restructured. 806 Program restructured.
	 142 Program restructured. 261 Production program familhated. 263 Program restructured (see foorholde 2). 264 Program restructured (see foorholde 2). 265 Program restructured. 265 Program restructured. 268 Program restructured. 269 Program restructured.
	261 Production program tarminated. 728 Program restructured (deletion of technical Insertion for computer re-buye). 201 Program restructured (see foothote 2). 203 Program restructured. 203 Program restructured. 203 Program restructured. 203 Program restructured. 203 Program restructured. 203 Program restructured. 203 Program terminated. 200 Program terminated.
	 23 Program restructured (deletion of technical Insertion for computer re-buys). 201 Program restructured (see toohote 2). 494 Program restructured 585 Program restructured. 583 Program restructured. 583 Program restructured. 583 Program restructured. 583 Program restructured. 585 Program restructured. 586 Program restructured. 586 Program terminated. 586 Program terminated.
Systems with	201 Program restructured (see footnote 2). 464 Program restructured (see footnote 2). 265 Program restructured. 263 Program restructured. 263 Program restructured. 266 Program restructured. 266 Program terminated.
Systems with	 494 Program terminated. 895 Program restructured. 823 Program restructured. 838 Program restructured. 848 Program restructured. 858 Program restructured. 858 Program terminated. 810 Program terminated.
	865 Program restructured. 823 Program restructured. 833 Program restructured. 848 Program restructured. 846 Program testructured. 856 Program terminated.
	855 Program restructured. 823 Program restructured. 833 Program restructured. 848 Program restructured. 848 Program restructured. 858 Program terminated.
	223 Program restructured. 383 Program restructured. 288 Program restructured. 392 Program restructured. 506 Program terminated.
S) -100% - S) 126% - 49% - - 16% - - 13% - - 11% - - 10% - - 10% -	383 Program restructured. 203 Program restructured. 292 Program restructured. 206 Program terminated. 206 Program terminated.
S) 126% HTV-A) 170% - 18% - 15% - 13% - 11% - 10% - 10% - 10%	203 Program restructured. 548 Program restructured. 392 Program restructured. 208 Program terminated. 208 Program terminated.
48% 48% - 18% - 15% - 15% - 15% - 16% - 10% - 10% - 10%	548 Program restructured. 392 Program restructured. 558 206 Program terminated.
45% - 15% - 15% - 13% - 13% - 10% - 10% - 10%	332 Program restructured. 556 206 Program terminated.
- 19% - - 15% - - 13% - 11% - - 10% - - 10% suff	556 206 Program terminated. 510 Procram terminated.
- 15% - 13% - 11% - 10% - 10%	206 Program tarminated. 510 Procram tarminated.
- 15% - 13% - 11% - 10% - 10%	206 Program terminated. 510 Procram terminated.
H) 13% - 11% - 10% - - 10% Systems with	810 Procram terminated.
- 11% - 10% - 10% Systems with	
	-310 Revised estimates that are partially offset by quantity-related changes.
	-3,487 Program terminated.
	-44 Program terminated.
	Systems with Cost increases of 10 Percent or More
Stinder RMP Mastle 684	684 Corrections to Infor report.
Ictical Vehicles (FMTV) 40% 6.	177 Contract orice increases, and increase in Federal Petal Excise Tax.
Titan IV Missile 26% 4,712	712 Increases caused by a four - year stretch - cut of the program.
F-14D Aircraft 21% 1,057	257 Quantity – related costs reported in other categories, and contract termination costs.
F-22 Advanced Tactical Fighter 21% 3,466	468 Configuration change, weight increase, composite complexites, and support changes.
V-22 Atorat 550	550 Cangessional appropriations and reprogrammings.
inertial Upper Singe (UUS) Pocket Booster 15% 263	263 Transfer of OBM funded activities to procurement, and revised sustering efforts.
NSM 14%	845 increased hardware costs, revised estimates, and revised schedule.
14%	253 Transfer of OSM funded activities to procurement.
ce User Equipment 12%	717 Increased support requirements, schedule sterbt – out and revised estimates.
11%	238 Repricing based on cost increases that were reported in September 1901 SAR.
10% 1,	119 Revised estimates, and schedule stretch—out.
ad (TGM) 10%	26 Reprogramming actions.
Note: Excludes systems that have classified estimates or were first included in the SARs	din the SARs
in the past van:	

TABLE 2. COST GROWTH EXCLUDING ECONOMIC AND QUANTITY CHANGES SINCE DECEMBER 1990 FOR SELECTED SYSTEMS

Zi Ariel decive dieling derend inder 9 ein dirikt in prici dielingestimmen die SAR for F/A-18 E/F shows a planning estimate of only \$4 billion.

-

Finally, CBO and other defense analysts¹ have pointed out many weaknesses in using the SAR data. For example, because the costs reported in the SARs include DoD's projections of future costs, the accuracy of these projections will not be known until all of the weapons have been produced and delivered.

Nevertheless, the information contained in the SARs is very valuable. The SARs are useful for monitoring cost changes and other developments in weapons acquisition programs, and for providing rough indicators of overall cost growth in procurement programs.

COST CHANGES FOR INDIVIDUAL WEAPONS

Congressional staff have found certain data from past reviews to be especially useful in helping them cope with the volumes of data contained in the SARs. These data are presented in the summary tables provided in the appendix (Army, Navy, and Air Force data are highlighted in separate tables) and include:

- o unit cost changes based on procurement and total program funding,
- o program status relative to established milestones and weapons deliveries,
- o effects of production rate changes, and
- o expected contract overruns and underruns.

Unit Cost Growth

Current law requires that Congress be notified when projections of program acquisition unit costs are more than 15 percent higher than a specified baseline for a particular program. The baseline is either the first comprehensive SAR, the SAR from the previous December, or another SAR in cases where a previous breach had occurred.

See Paul G. Hough, <u>Pitfalls in Calculating Cost Growth from Selected Acquisition</u> <u>Reports</u>, RAND, N-3136-AF, 1992.

Table 3 shows that based on a December 1990 to December 1991 comparison, three SAR systems would violate the 15 percent threshold if acquisition would continue as planned by the Administration--the Air Force's space shuttle rocket booster (23 percent) because of a reduction of two 2 booster buys, the Air Force's sensor fused weapon (37 percent) because of a reduction of about 6,000 weapons, and the Air Force's Titan IV missile (24 percent) due primarily to a schedule slippage of about four years. Additionally, five other systems would experience unit cost growth of over 15 percent, although the Administration plans to terminate or cancel production of all five of these systems. The five systems are the Army's ADATS air defense system planned for use on ships to detect enemy submarines, the Navy's supersonic low-altitude target system, the Navy's SSN-21 Seawolf attack submarine, and the Air Force's advanced cruise missile program.

In addition, CBO has identified several systems which have violated the threshold during the previous twelve months. These systems include three Army programs--the Avenger missile (32 percent) because of growth in missile costs, the family of medium tactical vehicles (35 percent) because of growth in hardware costs, and the Javelin advanced anti-tank weapon system (25 percent) due to schedule slippage, and five Navy programs--the AOE-6 fast combat support ship (30 percent) because of production inefficiencies at National Steel and Shipbuilding Company, the lead manufacturer, the DDG-51 Arleigh Burke destroyer (18 percent) because of reduced annual buys, the EA-6B aircraft (30 percent) and the F-14D remanufactured aircraft (23 percent) because of a decreased business base for Grumman Aerospace Company, and the Mk50 torpedo (23 percent) because of production deferrals. The Administration would continue production of all of these systems except the F-14D aircraft.

Schedule Performance

One measure of schedule performance is the degree to which contractors are meeting the planned delivery schedules. According to the SARs, most of the systems remain on or ahead of delivery plans, with about 10 percent behind schedule--most notably the Navy's Mk50 torpedo and the Air Force's advanced cruise missile, two programs which have experienced significant cost growth over the past year. The status of major milestones, such as completion of testing, production deliveries, and contract award dates, are other indicators of overall program execution, and, specifically acquisition costs. For example, a delay caused by technical, material, or manpower problems may require

TABLE 3. NUNN-MCCURDY PROGRAM ACQUISITION UNIT COST BREACHES

	Percent Changes	Percent Changes from Baseline					
ystem Name	Unit Cost	Quantity					
Programs with R	leduced or Deferred Produc	tion					
nsor Fused Weapon (Alr Force)	37	-40					
an IV Missile (Air Force)	24						
S Space Booster (Air Force)	23	-17					
Programs Planned for F	Production Cancellation or T	emination					
TS Air Defense System (Army)	786	-91					
T Missile (Navy)	437	-82					
N-21 Seawolf Submarine (Navy)	168	-78					
ed Distribution System (Navy)	104	-71					
anced Cruise Missile (Air Force)	19	-24					

Source: Congressional Budget Office

a. Less than one-half of one percent.

-

additional funds to resolve, but other delays such as a three month delay in initial flight testing may not involve additional costs. According to the SARs, 60 percent of all systems have been behind in at least one milestone.

Effects of Production Rates on Costs

Unit costs are also affected by changes to the production rates which can occur for many reasons, including material or labor shortages, production line changes, changes in technology, or budgetary ceilings that result in reallocating dollars to fewer systems. When production rates are stepped-up, savings generally occur because the use of facilities comes closer to their capacities and the work force becomes more efficient. For this reason, DoD's management initiatives during the last decade included economic production rates.

As shown in Table 4, SAR system costs have been reduced by about \$1.8 billion due to production rate changes for about 6 systems, most notably the Navy's Mk50 torpedo (\$700 million), the Navy's standard missile (\$410 million), and the Air Force's B-1B aircraft modifications (\$360 million). In contrast, the SARs also provide evidence that the production rates for 16 programs have been slowed, raising costs by about \$3 billion, most notably the Air Force's Titan IV missile (\$980 million), the Army's hellfire missile (\$310 million), the Air Force's C-17 aircraft (\$300 million), the Air Force's AMRAAM missile (\$290 million), the Army's medium tactical vehicle program (\$260 million), and the Air Force's sensor fused weapon (\$260 million).

Contract Cost Performance

Under current law, DoD must report contractor cost information for the six largest (in dollar value) contracts in each program. Of the contracts affected by this reporting requirement, program managers estimate eight times as many contract cost overruns as underruns (107 versus 14). The unclassified estimates that are published in the SARs show that expected overruns would cost about \$9 billion compared to \$300 million in savings from expected underruns.

However, this picture of contractor cost performance is incomplete because limiting the report to six contracts may exclude other large contracts. While six contracts may include a major portion of the contract effort of a small program like the Army's TOW-2 missile, this is not the case with large programs like the Air Force's C-17 aircraft or the Navy's Trident submarine. In these cases, the reporting requirement effectively limits the inclusion of cost performance of several large contracts.

	Changes from	Baseline
ystem Name	Dollars	Percent
Production Rate Chang	es Resulting in Program S	avings
k-50 Torpedo (Navy)	-700	-9
andard Missile (Navy)	-410	-4
-1B Aircraft (Air Force)	-360	-2
DG-51 Destroyer (Navy)	140	a
my Data Distribution System	70	-3
I/SQQ-89 Combat System (Navy)	40	-1
Production Rate Changes R	lesulting in increased Pro	gram Costs
an IV Missile (Air Force)	9 80	6
ser Hellfire Missile (Army)	310	16
17A Alrcraft (Alr Force)	300	1
RAAM Missile (Air Force)	290	3
edium Tactical Vehicles (Army)	260	2
nsor Fuzed Weapon (Alr Force)	260	8
velin Missile (Army)	150	4
dent II Missile (Navy)	120	a
RM Missile (Navy)	80	1
VSTAR User Equipment (Air Force)	80	12
AD C2I NCTR (Army)	30	6
nuever Control System (Army)	20	2
Rocket Booster (Air Force)	10	1
enger Missile (Army)	10	1
AD C2I Ground-based Radar (Army)	10	2
NCGARS Radio (Armv)	10	a

TABLE 4. EFFECTS OF PRODUCTION RATE CHANGES (doilars in millions)

Source: Congressional Budget Office

a. Less than one-half of one percent.

·

-

Appendix Tables

.

With Childres System (Hardy LGS-F-H) -158 -101 Program terminated. Among 10,58 Among 10,58 </th <th>1 13% -810 3% -86% -26% 3% -86% -26% 97% -86% -26% -100% -1.383 -823 F10 -100% -1.383 F10 170% -823 F10 2% 2203 F10 2% 2203 F10 2% 2% F10 2% 2% F11 -2% -1.44 F11 -2% -1.46 F11 -2% -7% AVNSM 14% 6.177 AVNS 14% 6.16% AVNS 14% <th>Percent Dollars Major Reason(s) for Cost Changes 1/</th></th>	1 13% -810 3% -86% -26% 3% -86% -26% 97% -86% -26% -100% -1.383 -823 F10 -100% -1.383 F10 170% -823 F10 2% 2203 F10 2% 2203 F10 2% 2% F10 2% 2% F11 -2% -1.44 F11 -2% -1.46 F11 -2% -7% AVNSM 14% 6.177 AVNS 14% 6.16% AVNS 14% <th>Percent Dollars Major Reason(s) for Cost Changes 1/</th>	Percent Dollars Major Reason(s) for Cost Changes 1/
		-810
a a 38 a 100% 100% 2665 2665 100% 100% 1383 1383 100% 1383 2203 1383 100% 1383 2203 1383 100% 1383 2203 1383 100% 1383 2203 1383 100% 1383 233 1383 100% 136% 233 136 100% -136% -2736 136 100% -136% -2736 136 100% -136% -2736 233 100% -136% -266 36 100% -136% -266 36 100% -136% -266 36 100% -136% -266 36 100% -136% -266 -36 100% -136% -266 -36 100% -146 -36 -26 100% -146 -266 -36 100% -146 -266 -36 16% -16% -266 -36 -16% -16% -266	a a 38 a 97% 97% -265% -265% -97% 97% -265% -265% -170% 648 -1383 170% -170% -1383 170% -1383 170% -170% -1383 126% 2203 121 -100% -1383 121 23 23 -100% -136% -1,142 -1,142 -100% -1,142 -1,142 -1,142 -100% -1,142 -1,142 -1,142 -100% -1,142 -1,142 -1,142 -100% -1,142 -1,142 -1,142 -100% -1,142 -1,142 -1,142 -110% -1,142 -1,142 -1,142 -100% 1,148 6,117 -25% MIN 1,148 -1,142 -1,142 MIN 1,148 -1,142 -1,142 MIN 1,148 -1,142 -1,142 MIN 1,148 -1,148 -1,142 MIN	۶ ۶
		8
		2,695
N-A) 128% 2003 N-A) 128% 2203 N-A) 170% 648 SS-F) 6% 121 R 21 2 AWSM 14% 6,177 AWSM 19% 6,18 </td <td>1 -100% -1383 1 125% 2203 1 125% 2203 1 2% 2% 2% 2% 21 1 -25% -1,142 1 -25% -1,142 1 -25% -1,142 1 -25% -1,142 1 -25% -1,142 1 14% 645 1 40% 6,177 0 14% 645 1 14% 645 1 14% 645 1 14% 645 1 14% 645 1 14% 645 1 14% 645 1 1% 2% 3% 8 207 3% 8 207 1 1% -283 1 1% -283 1 1% -38 1 1% -38 1 1% -38 1 1% -38 1 1% -38 1 1% -38 1 -1% -38 1 -1%</td> <td>- 823</td>	1 -100% -1383 1 125% 2203 1 125% 2203 1 2% 2% 2% 2% 21 1 -25% -1,142 1 -25% -1,142 1 -25% -1,142 1 -25% -1,142 1 -25% -1,142 1 14% 645 1 40% 6,177 0 14% 645 1 14% 645 1 14% 645 1 14% 645 1 14% 645 1 14% 645 1 14% 645 1 1% 2% 3% 8 207 3% 8 207 1 1% -283 1 1% -283 1 1% -38 1 1% -38 1 1% -38 1 1% -38 1 1% -38 1 1% -38 1 -1% -38 1 -1%	- 823
N-A) 126% 2203 N-A) 170% 648 S-F) 2% 28 S-F) 6% 121 R 27 28 ANSM 6% 121 N 40% 6,177 ANSM 14% 6,177 ANSM 14% 6,177 ANSM 14% 6,177 ANSM 19% 207 1% 2% 28 1% 40% 6,177 ANSM 19% 207 1% 40% 6,177 ANSM 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 207 1% 19% 208 1% 19% 208 1% 19% 208 1% 19% 208	N-A) 126% 2203 N-A) 170% 648 S-F) 6% 121 S-F) 6% 121 B 2% 28 C-S% -1,142 H) -25% -1,142 N) 40% 6,177 AWSN 14% 645 N) 14% 645 N) 14% 645 1% 2% 207 9% 207 9% 1% 2% 207 9% 8% 207 9% 8% 207 9% 8% 207 1% 4% 183 1% -2% 28 1% -1% -2% 1% -3% 28 1% -1% -2% 1% -3% 28 1% -1% -2% 1% -1% -2% 1% -1% -2% 1% -1% -2% 1% -1% -2% 1% -1% -2% 1% -1% -2% 1% -1% -3% 1% -1% <td>-1,383</td>	-1,383
TV-A) 170% 648 S5-F) 2% 2% 28 S5-F) 6% 121 2% XMSM 6% 171 AWSM 14% 6% M 14% 6% M 10% 6% M 10% 2% S5 14% 8% M 18% 4% M 18%	N-A) 170% 648 S-F) 2% 2% 28 S-F) 6% 121 B 21 12 ANSM 14% 6,177 ANSM 14% 6,177 ANSM 14% 6,177 ANSM 14% 6,177 ANSM 19% 207 B -73% 88 ANS 19% 207 B -19% -26% A -19% -26% A -19% -26% B -19% -3	2,203
S5-FJ 49% 382 S5-FJ 2% 2% 382 S5-FJ 6% 21 121 S5-FJ 6% 21 121 FJ 6% 27 2% 21 FJ -25% -1,142 -2 -44 FJ -25% -1,142 -44 17 AWSM 14% 6% 207 14% AWSM 14% 6% 3% 207 1% -10% 6,177 4% 13% AWSM 14% 6% 3% 207 1% 1% 2% 207 3% 1% 1% 2% 3% 3% 1% 1% -1% -2% 3% 1% 1% -1% -3% 4% 1% -1% -3% 4% 4% 1% -1% -1% -3% 4% 1% -1% -1% -2% 4% 1% -1% -1% 4% 4% <td>S5-FJ 49% 382 S5-FJ 6% 721 S5-FJ 6% 721 FJ -25% -1,142 FJ -25% -1,142 FJ -25% -1,142 FJ -10% 6,177 AWSN 14% 6,177 AWSN 1,18% 2,077 AWSN 1,18% 2,077 AWSN 1,18% 2,077 AWSN 1,1% 4,68 AWSN 1,1% 4,68 AWSN 1,1% 4,68 AWSN 2,84</td> <td>648</td>	S5-FJ 49% 382 S5-FJ 6% 721 S5-FJ 6% 721 FJ -25% -1,142 FJ -25% -1,142 FJ -25% -1,142 FJ -10% 6,177 AWSN 14% 6,177 AWSN 1,18% 2,077 AWSN 1,18% 2,077 AWSN 1,18% 2,077 AWSN 1,1% 4,68 AWSN 1,1% 4,68 AWSN 1,1% 4,68 AWSN 2,84	648
S5-FJ 2% 2% 2% L1 -25% -1,142 L1 -25% -1,142 N) -25% -1,142 N) 14% 6,177 ANSN) 14% 6,177 ANSN 14% 6,177 ANSN 14% 6,177 ANSN 14% 6,177 ANSN 1% 207 1% 3% 8,177 ANSN 1% 6,177 ANSN 1% 6,177 ANSN 1% 8,183 1% 1% 207 1% 1% 28 1% -1% 28 1% -1% -88 1% -1% -88 1% -1% -88 1% -1% -88 1% -1% -88 1% -1% -88 1% -1% -88 1% -1% -88 1% -1% -2% 1% -1% -2% 1% -1% -34 1% -1% -38 1% -1% 1% -38	S5-FJ 2% 2% 2% MSNM 8 21 12 MSNM -2% -1,142 -1,142 MSNM 19% 6,177 -2% MSNM 19% 6,177 -2% MSNM 19% 207 -2% MSNM 19% -2% 28 M 19% -2% 28 M 19% -1% -2% M 19% -3% 46 Simulation 5% -2% -3% M 19% -3% -3% M 19% -3% -3% Miled estimates or were first included in the S ⁴ -3%	88
K5-F1 6% 121 H) -25% -1,142 R -25% -1,142 N) -25% -1,142 AWSNM 14% 6,177 AWSNM 14% 13% AWSNM 1,9% 207 AWSNM 1,9% 208 AWSNM 1,9% 208 AWSNM 1,9% 208 AWSNM	S5-FJ 6% 121 H) -25% -1,142 R -20% -1,142 N) -10% -1,142 AWSM 14% 6,177 N) -10% -1,142 N) 14% 6,177 N) 14% 6,177 N) 19% 6,177 1% 3% 83 1% 1% 3% 8 -2% 83 1% 1% 3% 8 -1% 183 1% 1% 3% 8 -1% 4% 1% 1% 3% 9% 2% 2% 1% 1% -2% 1% -3% 4% 1% -3% 4% 1% -3% 4% 1% -3% 4% 1% -1% -3% 1% -1% -3% 1% -1% -3% 1% -1% -3% 1% -1% -3% 1% -1% -3% 1% -1% -3% 1% -1% -3% 1%	8
H) 23% 21 2 R -25% -1,142 -25% -1,142 N) -10% -144 1 AWSM) 14% 6,177 -44 AWSM 14% 6,177 -44 AWSM 19% 6,177 -44 AWSM 19% 6,177 -44 AWSM 19% 6,177 -44 AWSM 19% 8,3 -44 AWSM 19% 8,3 -46 1% -1% -2% -34 1% 19% -3% 8 1% -1% -38 -53 1% -1% -38 -53 1% -1% -38 -53 1% -1% -38 -58 1% -1% -38 -58 1% -1% -38 -58 1% -1% -38 -58 1% -1% -1% -38 1% -1% -1% -56 1% -1% -1% -56 1% -1% -5% -5% 1% -1% -5% 1% -5% -	H) 25% -1,142 N) -25% -1,142 N) -10% -1,142 N) 19% 6,177 N) 19% 6,177 N) 19% 6,177 N) 19% 207 1% 1% 2% <td>121</td>	121
H) -25% -1,142 -25% -1,142 -1,142 N) -22% -776 -44 1 AWSM) 14% 645 -23 1 AWSM) 14% 645 -23 1 AWSM) 10% 22 34 1 A 1% 23 23 24 1 A 1% 1% 28 34 1 A 1% 1% 28 28 46 1 A 1% 1% -38 46	H) -25% -1,142 N) -22% -1,142 N) -22% -1,142 N) 14% 6,177 N) 14% 6,177 9% 207 14% 9% 207 14% 9% 207 14% 9% 207 14% 9% 207 14% 9% 207 14% 14% 14% 28 14% 14% 28 15% 4% 183 15% -17% -38 16% 4% 183 17% -38 46% 18% -38 46% 19% -38 46% 19% -38 46% 19% -38 46% 19% -38 46% 19% -38 46% 19% -38 46% 19% -38 46% 19% -38 46% 19% -19% -38 19% -19% -38 19% -38 46% 19% -38 46% 19% -36% 46%	21
	SM	Ŷ
SM 14% -72% -72% -72% -72% -44 10% 6,177 5% -44 10% 6,177 5% 2% 207 1% 2% 207 1% 2% 2% 1% 2% 2% 1% 2%	SM 14% -72% -72% -72% -72% -72% -44 10% 6.177 5% 5.177 5% 2% 2%7 3% 2% 2%7 3% 2% 11% 2% 2% 11% 2% 2% 11% 2% 2% 11% 2% 2% 11% 2% 2% 11% 2% 2% 11% 2% 2% 11% 2% 2% 12% 2% 2% 11% 2% 2% 2% 12% 2% 2% 12% 2% 2% 12% 2% 2% 12% 2% 2% 2% 12% 2% 2% 2% 12% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2% 2	-1,142
-10% -44 40% 6,177 9% 5,177 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 207 9% 208 1% 4% 1% 4% 1% 4% 1% -3% 1%	-10% -10% -44 40% 6,177 40% 6,177 9% 207 9% 207 9% 207 3% 83 9% 207 3% 83 1% 4% 183 34 1% 4% 183 34 1% 4% 183 34 1% 4% 183 34 1% -1% -8 -33 1% -1% -8 -33 1% -1% -8 -33 1% -1% -8 -33 1% -1% -38 -34 1% -1% -38 -34 1% -1% -38 -34 1% -38 -34 -38 1% -38 -38 -38 1% -38 -38 -38 1% -38 -38 -38 1% -38 -38 -38 1% -38 -38 -38 1% -38 -38 -38 1% -38 -38 -38 1% -36 -38 -38 1% <td>- 222-</td>	- 222-
SM) 14% 6,177 9% 6,177 9% 207 9% 207 1% 2% 207 1% 2% 34 19% 2% 183 1% 4% 183 1% 4% 183 1% 4% 183 1% 4% 183 1% 4% 43 1% 4% 43 1% 4% 43 1% 4% 48 1% 4% 46 1% 4% 46 1% 46 1	SM) 14% 6.17 1% 6.17 1% 207 3% 207 3% 207 3% 207 1% 3% 1% 3% 1% 3% 1% 4% 1% 4% 1% 48 1%	Ŧ
AWSM) 14% 645 1% 207 9% 207 9% 207 1% 32 1% 34 1% 34 1% 34 1% 34 1% 34 1% 34 1% 34 1% 34 1% 46 1% 46 1	AWSM) 14% 645 9% 207 9% 207 1% 32 1% 34 1% 34 1% 28 1% 28 1% 28 1% 4% 1% 48 1% 48	6,177
1% 2% 207 9% 207 2% 3% 8 -23 1% 1% 2% 1% 1% 2% 1% 1% 2% 1% 1% 2% 1% 1% 2% 1% 1% 2% 1% 1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -5% -8% 1% -5% -2% 1% -5% -2% 1% -5% 3%22 1% -5% 3% 1% -5% 4% 1% -5% 3% 1% -5% 3% 1% -5% 4% 1% -5% 4% 1%	1% 2% 207 3% 2% 207 3% 2% 207 3% 8 -23 1% 1% 2% 1% 1% 2% 1% 1% 2% 1% 1% 4% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -1% -8% 1% -3% 4% 1% -5% 6% 1% -5% 6% 1% -5% 6% 1% -5% 6% 1% -5% 4% 1% -5% 6% 1% -5% 4% 1% -5% 3.622 1% -5% 3.622 arcent or more 8 467	575
em (MLRS) barhead (TGM) it (MSE) XFHTV) XFHTV) XOARM) XOARM) a of -10 percent or more is of -10 percent or more is of ± 10 percent or more there reter of	9% 207 1 8m 3% 83 53 8m 15% 8 -23 8m 15% 34 1 8m 10% 26 14 8m 10% 1% 26 1 8m 10% 1% 4% 183 1 8m -1% -1% -8 1 1 8m -1% -1% -8 1 1 4% 4% 183 1 8m -1% -1% -1% -1% -8 1 4% 1 1 1 4% 1 1 1 4% 1 1 1 4% 1 1 1 4% 1 1 1 1 1 1 4% 1 1 1 4% 1 1 1 4% 1 1 1 4% 1 1 1 1 4% 1 1 1 4% 1 1 1 4% 1 1 1 <td>8</td>	8
em (MLRS) behead (T(3M) it (MSE) %FHTV) %OARM) %OARM) %OARM) %OARM % of -10 percent or more & of ± 10 percent or more & of ± 10 percent or more & of ± 10 percent or more	3% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 1% 1% 1% 5% 5% 5% 1% <td< td=""><td>507</td></td<>	507
Milling instruction a -23 Revised estimates. Multiple auruch Rocker System (MLS) 15 34 Many of estimates that makes and indicating actions. Multiple standing stores: 155 34 Many of estimates and engineering changes that makes and engineering changes. Multiple standing stores: 45 105 25 Removes and engineering changes. Removes and Booker System (MLS) 105 35 Removes and engineering changes. Removes and Destroy Armor (SADARM) 135 46 Many of engineering. Sense and Destroy Armor (SADARM) 135 46 Many of engineering. Singer Ruw Massie -38 Revised estimates. -38 Revised estimates. Singer Ruw Massie -38 Revised estimates. -38 Revised estimates. TOW2 Missie -38 -38 Revised estimates. -38 Revised estimates. TOW2 Missie -38 -38 Revised estimates. -38 Revised estimates. TOW2 Missie -38 -38 Revised estimates. -38 Revised estimates. TOW2 Missie -38 -38 -38 -38 Revised estimates. -38 TOW2 Missie -38 -38 -38 -38 -38 -38	Mi Tark a -23 Revised estimates. Milple Launch Rockert System (MLRS) 1% 34 Meny changes that net to a ema behavior backert System (MLRS) M.RIS Terminal Guidance Warhead (TCM) 10% 28 Reprogramming actions. McDils Subscriber Equipment (MSE) 4% 183 Estimating arror. Partiot Missile a 46 Meny changes that net to a ema behavior offset, refined estimates. Palletized Load System (PLS/FHTV) -1% -8 Meny changes that net to a ema behavior offset, refined estimates. Singer RMP Missile -1% -8 Meny changes that net to a ema behavior store to a ma behavior offset, refined estimates. Singer RMP Missile -1% -3% Reprogramming actions. Singer RMP Missile -1% -3% Corrections to prior report. TOW 2 Missile -1% 46 Mory estimates. TOW 2 Missile -1% -3% Reprogramming actions. TOW 2 Missile -1% -3% Reprogramming actions. TOW 2 Missile -1% -3% Reprogramming actions. TOW 2 Missile UH00AL Helicopter -3% Reprogramming actions. TOW 2 Missile UH00AL Helicopter -3% 3.6% TOW 1 Mmy Systems Corrections of 10 percent or more </td <td>8</td>	8
Miltiple Lauroch Rocket System (MLRS) 1% 34 Many changes that net to a small increase. Miltiple Lauroch Rocket System (CM) 1% 2% Henrogramming actions. Partict Missile 4% 13% Henrogramming actions. Partict Missile 4% 13% Henrogramming actions. Partict Missile 4% 13% Henrogramming actions. Partict Missile 4% Hardon offset, refined estimates and engineering changes. Partict Missile -1% -8 Many changes that net to a small decrease. Singer RWP Missile -1% -8 Henrogramming actions. Singer RWP Missile -1% -2% Tow regions that net to a small decrease. UVVV Allelooptar 10 Ferrerions to particily offset toy reductions in support. <	Multiple Launch Rockert System (MLSS) 1% 34 Many changes that net to a ema Reprogramming actions. McDile Subsoriber Equipment (MSE) 10% 2% Reprogramming actions. McDile Subsoriber Equipment (MSE) 4% 183 Estimating across Patriot Missile a 46 Inflation officert, refined estimate Patriot Missile -1% -6 Many changes that net to a ema Many changes that net to a ema Revised estimates. Palletzed Load System (PLSFHTV) -1% -3 Revised estimates. SiNCGARS Radio -1% -3 Revised estimates. SiNCGARS Radio -1% -3 Revised estimates. Singer RWP Mssile -1% -3 Revised estimates. TOW 2 Missile -5% -256 TOW sight Improvement termin for eased estimates. TOW 2 Missile -6% 8 600 Corrections to prior report. TOW 2 Missile -6% 8 600 Informates. Interare pe TOW 2 Missile TOW 2 Missile -2% 3/2% Informates. Interare pe TOW 2 Missile TOW 2 Missile 2% 3/2% Informater repo	ឌុ
M.IRS Terminal Guidence Warheed (TGM) 10% 28 Reprogramming ectors. Michie Buddentise Equipment (MSE) 4% 183 Estimating ectors. Patient Missile 4% 183 Estimating ectors. Patients el Load System (PLS/FHTV) -1% -8 Mary changes that not to a small decrease. Patients el Load System (PLS/FHTV) -1% -8 Mary changes that not to a small decrease. Singe RMM -1% -8 Revised estimates. -8 Singe RMM -1% -8 Revised estimates. -8 Singe RMM -1% -8 Revised estimates. -8 Singe RMM -8 -8 Torrections to prior report. -8 Cons 2 Mission -1% -8 Anny changes that not used estimates. -8 Cons 2 Mission -8 -8 Torrections to prior report. -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -8 -7 -8 -7 -8 -7 -8 -7 -7 -8 -7 -8 <td>M.F.R Terminal Guidance Warheed (TGW) 10% 26 Reprogramming actions. Mobile Subscribter Equipment (MSE) 4% 183 Estimating arror. Patriot Missile a 46 Inteation offset, refined estimates Patriot Missile -1% -6 Many change that net to a and science. Patriot Missile -1% -8 Reprogramming actions. SinceArs Flado -1% -8 Reprogramming actions. Tow 2 Missile -10% -1% -8 Reprogramming actions. Tow 2 Missile -10 -256 TOW sight improvement itemin. Exections to prior report. Tow 2 Missile 1% -8 8 Action sections to prior report.</td> <td>ま</td>	M.F.R Terminal Guidance Warheed (TGW) 10% 26 Reprogramming actions. Mobile Subscribter Equipment (MSE) 4% 183 Estimating arror. Patriot Missile a 46 Inteation offset, refined estimates Patriot Missile -1% -6 Many change that net to a and science. Patriot Missile -1% -8 Reprogramming actions. SinceArs Flado -1% -8 Reprogramming actions. Tow 2 Missile -10% -1% -8 Reprogramming actions. Tow 2 Missile -10 -256 TOW sight improvement itemin. Exections to prior report. Tow 2 Missile 1% -8 8 Action sections to prior report.	ま
Mobile Subscriber Equipment (MSE) 4% 183 Estimating error. Paileted Load Synthy -1% -4 Interfered estimate and engineering changes. Paileted Load Synthy -1% -4 Interfered estimate and engineering changes. Paileted Load Synthy -1% -4 Interfered estimates. Sincoards Redo -1% -3 Renorgenmining actions. Sincoards Redo -1% -38 Renorgenmining actions. Diversity Army Systems -3% -3% Army Systems. Total Army Systems 2% 3/62 Increased estimates, trait are partially offset by reductions in support. Less weapons with changes of ± 10 percent or more 6% 8/00 Increased estimates or were first increase. Less weapons with changes of ± 10 percent or more 8 6/0 6	Mobile Subscriber Equipment (MSE) 4% 183 Estimating error. Partiot Missile a 46 Inflation offsett, refined estimate. Partiot Missile a 46 Inflation offsett, refined estimate. Partiot Missile -1% -8 Many changes that net to a ame structurate. Same and Destroy Armor (SADATM) -1% -8 Many changes that net to a ame structurate. Same and Destroy Armor (SADATM) -1% -8 Many changes that net to a ame structurate. Singer NMP Missile -1% -8 Revised estimates. Singer NMP Missile -1% -38 Reprogramming actions. TOW 2 Missile -1% -38 Reprogramming actions. TOW 2 Missile -1% -256 TOW sight improvement itemin. TOW 2 Missile -1% -256 TOW sight improvement itemin. TOW 2 Missile -256 TOW sight improvement itemin. -256 TOW 2 Missile -256 Row sight improvement itemin. -256 TOW 2 Missile -256 Row sight improvement itemin. -256 TOW 2 Missile -256 Row sight improvement itemin. -256 TOW 2 Missile -1% -256 Row sight improvement itemin. Town 2 Mistims -10 pe	8
Partici Missile Partici Missil	Particit Missile Particit	183
Palletized Load System (PLS/FHTV) -1% -8 Many changes that net to a small decrease. Sinccards Radio -1% -3 Revised estimates. Since Ansile -6% 6% Corrections to prior report. Dive Z Messile -6% 266 TOW sight improvement terminated. UH-60AL Helicopter -6% 3,622 TOW sight improvement terminated. Less weapons with changes of -10 percent or more 6% 8,000 Less weapons with changes of ± 10 percent or more 8 600 Note: Excludes systems that freve classified estimates or were first included in the SARs in the past year. 467	Palletized Load System (PLS/FHTV) -1% -6 Many changes that net to a ama revised estimates. Sense and Destroy Amor (SADARM) 1% 43 Revised estimates. SincGARS Rado 1% -38 Revised estimates. SincGARS Rado 1% -38 Revised estimates. SincGARS Rado 1% -38 Revised estimates. Singer RMP Mssile 1% -38 Revised estimates. TOW 2 Missile 1% -5% -266 TOW sight improvement termin. TOW2 Missile -1% -46 Increased estimates, that are point. TOW2 Missile -1% -66 8.000 Less weapons with changes of ± 10 percent or more 8 467	4
Sense and Destroy Amid (SAOARM) 1% 43 Revised estimates. SiNCGARS Radio -1% -38 Reprogramming actions. Singer RMP Mesile -1% -38 Corrections to prior report. TOW2 Missile -3% 256 TOW sight improvement terminated. TOW2 Missile -3% 256 TOW sight improvement terminated. TOW2 Missile -3% 3/22 Less weapons with changes of -10 percent or more 6% 8,000 Less weapons with changes of ± 10 percent or more a 467	Sense and Destroy Amor (SADARM) 1% 43 Revised estimates. SINCGARS Rado SINCGARS Rado SINCGARS Rado SINCGARS Rado SINCGARS Rado SINCGARS Rado SINCGARS Rado SINCGARS Rado SINCGARS Rado Corrections to prior report. -8% -256 TOW eight improvement termin -8% -2% -2% -2% -2% -2% -2% -2% -2% -2% -2	۹
SINCGARS Pado Singer RMP Missile -1% -38 Reprogramming actions. TOW 2 Missile -6% -256 TOW sight improvement terminated. UH-60AL Helicopter TORI Army Systems Torial Army Systems Torial Army Systems of -10 percent or more 6% 8,000 Less weapons with changes of ± 10 percent or more 8% 8,000 Less weapons with changes of ± 10 percent or more 8% 6,000 Articles systems that have classified estimates or were first included in the SARs in the past year.	SINCGARS Rado Singer RMP Missile TOW 2 Miesile TOW 2 Miesile UH-60AL Helicopter Datal Army Systems Less weapons with changes of -10 percent or more Less weapons with changes of -10 percent or more Less weapons with changes of -10 percent or more Less weapons with changes of ± 10 percent or more Rote: Excludes systems that have classified estimates or were first included in the SARs in the past year.	đ
Singer RMP Missile Singer RMP Missile TOW 2 Missi	Singer RMP Mestile 46% 684 Corrections to prior report. TOW 2 Miestile -8% -2% 70W eight improvement termine TOW 2 Miestile 1% 46 increased estimates, that are performents Total Army Systems 2% 3,622 increased estimates, that are performents Less weapons with changes of -10 percent or more 6% 8,000 Less weapons with changes of ± 10 percent or more a 467	- 89-
TOW 2 Miestie UH-BOAL Helicopter UH-BOAL Helicopter (LH-BOAL Helicopter (Total Army Systems (Total Army A	TOW 2 Missile -8% -256 TOW sight improvement termine UH-60AL Helicoptar 1% 46 increased estimates, that are ps Total Army Systems 2% 3,622 increased estimates, that are ps Less weapons with changes of -10 percent or more 6% 8,000 Less weapons with changes of ± 10 percent or more a 467	188
UH-BOAL Helicoptar 1% 46 Increased estimates, that are partially offset by reductions in support. Total Army Systems 2% 3A22 Less weapons with changes of = 10 parcent or more 6% 8,000 Less weapons with changes of ± 10 percent or more 8 467 Note: Excludes systems that have classified estimates or were if st included in the SARs in the past year. 4.67	UH-60AL Helicopter 1% 46 Increased estimates, tratere pe Total Army Systems 2% 3,622 Less weapons with changes of -10 percent or more 6% 8,000 Less weapons with changes of ± 10 percent or more 8 467	9927-
Total Army Systems Less weapons with changes of - 10 parcent or more 6% 8,000 Less weapons with changes of ± 10 percent or more 8, 467 Note: Excludes systems that have classified estimates or were it st included in the SARs in the past year.	Total Army Systems Less weapons with changes of -10 percent or more 6% 6,000 Less weapons with changes of ± 10 percent or more 8 467 Note: Excludes systems that have classified estimates or were first included in the SARs in the past year.	46
Total Army Systems Less weapons with changes of -10 percent or more 8% 8,000 Less weapons with changes of ± 10 percent or more 8 467 Note: Excludes systems that have classified estimates or were if st included in the SARs in the past year. 4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	Total Army Systems Less weapons with changes of -10 percent or more 6% 8,000 Less weapons with changes of ± 10 percent or more 8 467 Note: Excludes systems that have classified estimates or were first included in the SARs in the past year.	
Less weapons with changes of -10 parcent or more 6% 8,000 Less weapons with changes of ± 10 parcent or more a 467 Note: Excludes systems that have classified estimates or were first included in the SARs in the past year.	Less weapons with changes of -10 parcent or more 6% 8,000 Less weapons with changes of ± 10 percent or more a 467 Note: Excludes systems that have classified estimates or were first included in the SARs in the past year.	
Less weapons with changes of ± 10 percent or more a 467 Note: Excludes systems that have classified estimates or were it st included in the SARs in the past year.	Less weapons with changes of ± 10 percent or more a 467 Note: Excludes systems that have classified estimates or were first included in the SARs in the past year.	8%
Note: Excludes systems that have classified estimates or ware first included in the SARs in the past year.	Note: Excludes systems that have classified estimates or ware first included in the SARs in the past year.	60
Auto. Excusos systemic unit tave datasticades una ella triculadat una carlo alla past y da . 4. Maite escena fer ese deneve sera attentificade formite deneve analvels sociedas in the SARs of sectors of the related fated.	וארומי בתיורהמי פאפומוום מגדו וגאם המצאוומה פסתוומופט היאמ פיון פווורהההפה וו מופירא וזי וו מופ למזו אמם י	as or were they included in the CADs in the must used
 Libber consister was abler taken direndu from the variance analysis configure in the CARs or correction of the related listed 		
	1/ Main resears for cost chances were either taken directly from the variance arealysis sections in the SABs or recre	directy from the variance stretysis sections in the SABs of represent our interpretation of the causes listed.

a. Less than one-half of one percent.

TABLE A-2. COST GROWTH EXCLUDING ECONOMIC AND QUANTITY CHANGES SINCE DECEMBER 1990 FOR SELECTED NAVY SYSTEMS (In millions of current dollars and percents)

System Name	Percent	Dollars	Major Reason(s) for Cost Changes 1/
AN/BSY-1 Submarine Combat System	a	- 5	Very small changes in estimating and support categories.
N/SQQ-89 Surface Ship ASW Combat System	8	5	Many changes that not to a small increase,
W/SQY-1 Surface Ship ASW Combet System	-87%	- 1, 153	Program terminated.
OE-6 Fast Combat Support Ship	11%	238	Repricing based on cost increases that were reported in September 1991 SAR.
Virborne Self-protection Jammer (ASPJ)	-8%	-46	Adjustment to pre-planned product improvement program
W-8E Arcrat	3%	236	Radar upgrade integration.
V/MH-53E Helicopter	1%	31	Many changes that not to a small increase.
CG 47 AEGIS Cruiser	1%	142	increased estimates for all ship systems and adjustments to contract requirements.
SH-80F Helicopter (CV Helo)	-4%	- 179	Decreased estimates that are particily offset by engineering and support increases.
ZVN Aircraft Carriers;			
CVN -72/73 Carriers	a	- 14	Decreased contract overrun and reductions in outlitting and post delivery.
CVN 74/75 Carriers	4%	261	inflation offset and increase for change order updates.
DDG 51 Destroyer	2%	907	Increased R&D and procurement estimates.
E-2C Aircraft	1%	48	Increased estimates that are partially offset by quantity—related changes.
E-6A Aircraft	5%	94	Settlement of adjudicated claims.
EA-68 Aircraft	8%	736	Revised business base caused by cancellation of the F-14 partially offset by support decrease
-14D Arcraft	21%	1,057	Quantity-related costs reported in other categories, and contract termination costs.
F/A-18 C/D Aircraft	-22%	- 12,201	Program restructurad (see footnote 2).
Fixed Distributed System (FDS)	-23%	-1,261	Production program terminated.
AFM Missile	- 1%	-96	Program terminated.
terpoon Missile		2	Many changes that not to a small increase.
AMPS MK #I System	- 1%	-112	Decreased estimates for the Blackhawk h elicopter and lower support requirements.
anding Craft Air Cushion (LCAC)	8	4	inflation offset and corrections to prior reports het to a small increase.
HD 1 Amphibious Assault Ship	7%	373	Quantity related costs, increased estimate based on bid price, and corrections to prior SARs.
SD41 (Cargo Variant) Dock Landing Ship	6%	76	Inflation offset, Congressional addition of "LLTM" funding, and corrections to prior reports.
ACM 1 Mine Countermeasures Ship	- 1%	- 14	Revised estimates.
WK 48 AD CAP Torpedo	-7%	-673	Propulsion Improvement program restructured.
VIK 50 Torpedo	-8%	-682	Savings from more efficient schedule & lower estimates are partially offset by support increases
Pheianx CIWS System	8	2	Quantity related costs reported in other categories partially offset by lower R&D estimate.
Phoenbr Missile	8	2	Revised estimate to reflect actual costs.
Supersonic Low Altitude Target (SLAT)	- 15%	208	Program terminated.
SSN 21 Submarine/AN/BSY~2	- 10%	-3,487	Program terminated.
SSN 688 Submarine	1%	251	increased estimate to reflect contract price, change orders and gov't-furnished equipment.
Standard Missile (SM-2 MR/ER)	10%	1, 119	Revised estimates, and schedule stretch-out
F-AO 187 Fleet Oller	7%	207	Increase to build 3 ships with double hulls, inflation offset and outfitting and post delivery costs.
45TS Training Aircraft	2%	151	Foreign exchange rate adjustments and support increases.
To mahewic Missile	8	14	Increased estimates are partially offset by reductions in schedule and support categories.
Triclent II Missile	8	96	Increases from schedule stretch-out and inflation offset combined with lower estimated prices
Inicient II Submarine	2%	278	Inflation offset and revised estimates.
UHF Follow- on Communication Satellita V-22 Aircraft	1% 18%	14 550	inflation offset and Defense Business Operating Fundrequirements. Congressional appropriations and reprogrammings.
Total Navy Systems	-3%	· 13,229	
Less weapons with changes of -10 percent or more		1,386	
Less weapons with changes of ± 10 percent or more	1%	2.117	

Note: Excludes systems that have classified estimates or were first included in the SARs in the past year.

1/ Major reasons for cost changes were either taken directly from the variance analysis sections in the SARs or represent our interpretation of the dauses listed.

2/ A retroactive change deleted nearly \$10 billion of prior changes without any explanation. The change was apparently done to report the F/A-18 E/F version in a separate SAR. However the SAR for F/A-18 E/F shows a planning estimate of only \$4 billion.

a. Loss than one-half of one percent.

Sy stem Name	Percent	Dollars	Mapr Reason(s) for Cost Changes 1/
Advanced Cuise Missile (ACM)	- 8%	-511	Program terminated.
AM PAAM Missle	%0 %	808	Increased estimates, schedule stretch-out, and increased support requirements.
ATARS Tactical Air Reconnaissance System	1%	ŝ	Increase in peculiar support requirements parially offset by funding reductions.
AWACS Radar System Improvement Program	4	27	Increased estimates and spares requirements.
8-18 Aircraft	4	- 80	Congressionally directed reductions that are partially officet by increases in many categories.
C-17A Aircraft	4	1,279	Revised estimates, increased support requirements, and achedula stratch-out.
Cheyenne Mountain Upgrade (CMU) Program	2%	80	increases in support requirements.
DMSP Satelike Program	14%	253	Transfer of 0 &M tunded activities to procurement.
Defense Support Program	2%	176	Refinement of the estimate.
F-16 Aircraft	7%	234	Re- estimate an d'inflation offsets.
F-22 Advanced Tactical Fighter	21%	3,466	Configuration change, weight increase, composite complexities, and support changes.
IR Marverick Missile	- 11%	-310	Revised estimates that are partially offeet by quantity - related changes.
Inertial Upper Stage (US) Rocket Booster	15%	263	Transfer of O&M funded activities to procurement, and revised sustaining efforts.
JSTARS Reder	6	•	Many changes that net to nearly zero.
JTDS Information System	7	:	inflation offects.
KC 135R Aircraft Modernization Program	-7%	- 803	Program restructured and planned for termination in 1993.
LANTIRN Navigation & Targeting System	4	42	increases in support requirements.
Nevent Global Postioning System (GPS):		:	
Air Force Satellite	6	9	Many dranges that net to a amail decrease.
Tri- service User Equipment	12%	717	Increased aupport requirements, schedule stretch- out and revised estimates.
Peacekeeper Missle	*	423	Corrections to prior report.
Peacekeeper Rail Garrison Equipment	- 19%	- 494	Program terminated.
Sensor Fuzed Weapon (SFW)	*0	212	Schedule stretch – out.
SmallicBM	- 49%	-3,669	Program terminated
SPAM II Missile	- 61%	-1,369	Program terminated.
Than IV Missile	26%	4.712	In creases caused by a four-year stretch-out of the program.
Total Air Force Systems	2%	5,376	
Less weapons with dranges of - 10 percent or more	5%	11,219	
Less weapons with changes of \pm 10 percent or more	5%	7,651	
ou of agreement of the state of	98 10 1 1	- 1,741 - 126	Program restructured as a result of the Missile Defense Act of 1991. Reduced Army requirements.
•			
Total DoD Systems	%9-	- 1,867	
Grand Total	-1%	- 6,098	
Less weapons with changes of –10 percentor more	3%	18,738	
Less weapons with changes of \pm 10 percent or more	1%	8,368	
NOIG". EXQUQ OS SYSEMS NEURINE CERSTING STEIMERS OF WO F INSTRICTION IN THE SAME IT THE PERTYSE T.	01 WO TO IN 24 2		

TABLE A ~ 3. COST GROWTH EXCLUDING ECONOMIC AND QUANTITY CHANGES SINCE DECEMBER 1990 FOR SELECTED AIR FORCE SYSTEMS (In millions of outmant delians and narrants)

1/ Major reasons for cost changes were either taken directly from the variance analysis sections in the SARs or represent our interpretation of the causes listed. a. Less than one -half of one percent.

TABLE A-4. DECEMBER 1991 SELECTED ACQUISITION REPORT (BAR) REVIEW SUMMARY TABLE FOR SELECTED ARMY SYSTEMS

	NUNN-McCUPDY AMENDMENT UNIT COST CHANGE8 (PERCENT)		SCHEDULE PERFORMANCE DELNERY STATUS			TS OF PRI	ODUCTION	EXPECTED CONTRACT OVERRUNS			EXPECTED CONTRACT UNDERRUNS		
							PERCENT OF	SOVER					TOTAL AMOUNT OF
BYSTEM NAME	1992 PROCUREMENT	TOTAL PROGRAM	% AHEAD 9	BEHIND	COSTS (EM)	SAVINGS (EM)	ESTIMATE	NUMBER O		OVEFFIUN (GM)	NUMBER OF		UNDERFIUN (SM)
Ar Detense System Heavy (LOS-F-H)	 //	786%											
Army Data Distribution System (ADDS)	a/	1/		~ ~ ~		- 70	3%						
dv. Fid Arthy Tact. Data Sys. (AFATDS)		-3%				- 7	1%	1	14%	11			
H-64 Helicopter		۲/											
Il Source Aratysis System (ASAS)	b/	b/	a/	a/				1	۷	1			
rmored System Modernization (ASM)	9/	9/	*	*				1	21%	20			
Irmy Tactical Missle System (ATACMS)		1/	1%			- 4	v	1	12%	13			
wenger-Redestal Mounted Stinger (LOS-R)		v	10%		13		1%						
AT Anti-armor Submunition	b/	b/			32								
Badby Fighting Vehicle System (BFVS)	•/	1/											~ ~ ~
CH-47D Helicopter		- 1%		v									
Comerche -Light Helicopter Program (LH)	9/	۵/	*								1	6%	105
Combat Bervice Support Control System		-1%			0			1	1%	1			
Command, Control, and Intelligence					-			1	3%	5			
FAADC2		49%						Ŵ	Ŵ	Ŵ	k/	k/	k/
Ground-based Padar	i i i	-3%			14		2%	11	Ŵ	k/	k/	Ŵ	Ŵ
NCTR	Ĩ,	-46%			25		6%	ie.	Ŵ	k/	Ŵ.	Ŵ	ŵ
ber Optic Guided Missile (NLOS)	<u> </u>	N N						1	40%	115			
amily of Medium Tactical Vehicles (FMTV)		1%			259		2%						
avelin ~ Adv. Anthank Weapons Sys. (AAWSM)	•/	- 1%			148		4%						
ISTARS Ground Station Module	Ň	2%						1	16%	14			
AHIP Helicopter (OH-58)		-3%											
aser Helline Modular Miselle System		-2%	5%		310		18%	1	30%	12			
ongbow Apache (AAWNS)	•/	1%											
ongbow Halfine	Ĩ,	-1%											
di Tank	•/	- 1 72			2				44%	144			
Vanue ver Control Bystem	•/	ů.			17		2%		28%	16			
Jultiple Launch Rocket System (MLR8)	•	1%	1%				~ ~						
ALRS Terminal Guidance Warhead (TGW)	o/	a/		•					3%	11			
Aobile Subscriber Equipment (MSE)	a/	.							38				
htriot Mesie	•/	3%									1		24
	-	-3%									•	•	
alletized Load System (FLS/FHTV)		-376							43%				
iense and Destroy Armor (SADARM)	-1							2		178	~		
MLRS Roclet	•/	1% 3%	N N	N N			"		N.	k/	N N	N.	K/
155 mm Projectile	* /		N.	k/	4		v	k/	k/	k/	N.	k/	k/
SINCGARS Radio		-3%	3%		13		v						
Stinger FIMP Missile	•/	1%	1%										
Stingay Combat Projection Bysism	a/	ť/											
row 2 Missie		-9%	4%		8		ų						
UH-60A/L Helicopter		4		2%									

NOTES:

a/ Notapplicable. b/ Classified data.

c/ No Congressional data sheet.

d/ To be determined data.

e/ No contract has been awarded as of this date.

f Less than one-half of one percent (0.5%).
g/ Total program costs include only research and developmenteffort.
h/ Data was not reported.

V Comparison not possible. J/ Program was terminated. k/ Contract and schedule data was provided at the program level.

Meethe (AAAM) Weepon 8 yeaem Combet Syste m the ASW Combet Syste m the ASW Combet Syste m the ASW Combet Syste m apport Shp on Jammer (ASPJ)	PROCUREMENT PROGRAM		DELIVERY STATUS STATUS SAFEAD S BEHIND S S S S S S S S S S S S S S S S S S S		COSTE	PERCENT	PERCENT OF		% OVER	TOTAL AMOUNT OF	# UNDER		TOTA
(AAAM) A Symen A Symen A Combat Syme A Combat Syme Bhb mer (AGP.J)	00000000000000000000000000000000000000		22 22 22 24 24 24 24 24 24 24 24 24 24 2						TARGET				AND INT OF
MRAAM Minetie dvertroed At - to- Ar Miteste (AAUM) dvertroed At - to- Ar Miteste (AAUM) dvertroed internation weepon System NISSCI - 18 durate Combat System NISSCI - 18 durate Ship ASW Combat System After Ball - production Jammer (AGPJ) AMM - 53E t-telkoopter AMM - 53E t-telkoopter At - Tol/73 Carriers CVM - 72/73 Carriers	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8 8 8 8 8 8 8 8 8 8	99	E) (MS)		DEC 90 Estimate	NUMBER OF TARGET CONTRACTBPRICES	BPRICEB	OVERRUN (M)	NUMBER OF TARGET CONTRACTS PRICES		UNDERRUN
dvertced At -10-At Miseth (AAMI) dvertced Interdiction Weepon System dvertced Interdiction Weepon System MSGXD-46 Surface Ship ASW Combet System NSGXP-18 Laface Ship ASW Combet System NSGXP-18 Laface Ship ASW Combet System NSGXP-18 Laface Ship ASW Combet System CE-6 Fast Combet Support Ship AMM - 53E Helicopter AMM - 53E Helicopter AMM - 53E Helicopter AMM - 53E Helicopter CVM - 72/73 Carriers CVM - 72/73 Carriers	6 6 2 6	6 - 600 	99 9 9 19 9 9 1 9 19 9 9 1 9 19	ופנ									
Arerzed Interdiction Weepon System MISSY - 18 dummer Combat System MISSY - 18 dummer Annow SW Combat System MISSAY - 18 united Ship ASW Combat System MISSAY - 18 united Ship ASW Combat System Arone Bill - production Jammer (AGPJ) - 48 Antrath Miss - 18 Antrath Mis	6 6 2 6	6 4 6 6 4 8 6 4 6 6 8 8 8 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9 X X X	9	1	111		~	20	2	:		
MGSV-18 Bubmaths Combit System NGSO-189 Surface Ship ASW Combit Byeltim NGSO-189 Surface Ship ASW Combit System Alcorne Bait - prodection Jammer (AGPJ) Alcorne Bait - prodection Jammer (AGPJ) Alcorne Bait - prodection Jammer (AGPJ) Alcorne Bait - prodection Altor - Pairco - prodection Altor - prodection -	9 2 8 3	, 2 , 2 , 2 , 2 , 2 , 2 , 2 , 2 , 2 , 2	# # #		:	!	! !		!	:	ļ	:	!
NIGGOBD Surface Ship ASW Combut System NIGGOBD Surface Ship ASW Combut System NIGGO B Fart Combut Support Ship Moorre Shit protection Jammer (ASPJ) Moorre Shi Taylor Mill SSE Helloopter G47 AEGIS Cruteer HI OF Helloopter CVM 72/77 Carriens CVM 72/77 Carriens	2 3 3	2 1 0 1 4 4 4 2 2 4 4 4 4 2 2 4 5 4	\$ \$ \$:		ł		ļ		
MSGY-1 Surface Ship ASW Combat System CC-6 Fest Combat Support Ship Noorre Shif - protection Jammer (ASPJ) VI-86 Ancreati VMH-536 Helicopter 1947 A EGIS Cruter MM Ancreatic Surface CVM-72/73 Carriers	2 3 3	ie keek k	<u> </u> <u>8</u> 8		1	Ş	ž			ł	1		
ACE-6 Fast Combut Support Shb Moorne Bail-probaction Jammer (ASPJ) V-88 Antrait AMH-636 Helicopter AMH-636 Helicopter AH-067 Helicopter CVN-72/73 Cambons CVN-72/73 Cambons	6	, 9 , 9 , 9 , 9 , 9 , 9 , 9 , 9 , 9 , 9											
Aborns But - protection Jammar (AGPJ) Abrant Mit - 536 Helicopter 1847 AE (195 Cruteer H - 306 Helicopter 1918 Abrant Carteria CVN - 72/73 Carteria	9	9 Kook of	ŝ ŝ				!	-	X 6	8		ł	!
VBB Ancrant 2004 - 636 Helikooper 13-007 Helikooper (CV Helo) 2014 Ancrant Carriens: 2014 - 72/73 Carriens: 2014 - 72/73 Carriens:	2	e Kosk si	8 8	ł		ł	:	-	***	5			
XMH-ESE Helicopter 1947 AEGISCruter 2014 Alcost Pelicopter 2014 Alcost Carteria: 2014 -72/73 Carteria:		ssk si	1		•0	5	>		!		ļ		
1847 AEGISCruter H-Bort Histopher (D'Helo) VI Abroat Carriens CVN-72/73 Carriens	3	sk si	ž	ł		1	:			ł		ļ	
H - 40F He Hooper (CV He lo) :VN Alicraft Centers: CVN - 72/73 Centers	l	, , , ,	2	:) 	4	¥0	8	-	A	A
en Ander Ceiners: CVN-72/73 Ceiners		5 j		ł				1 1 1	ļ	ļ			
CAN-72/73 Cambra	•	∍ ŝ							ł	!			
	3,			ļ				-	1 10		1		
CVN74/75 Carriera	3	Ē						-		8	!		
DDG51 Destroyer		r I		ł		ţ,	\$	•		1.160			
		¢:		1			ł	•			ł		ļ
E-GA Alicant	3.	Į.	ļ	*		ł	:		!	1		ł 	;
EA-05 Ancher	3	Ł					:			1		6	
AV/UYS-ZA(Y) EMBP	1						1		1	1	ļ		
	1	2			•			4 6 8			•	!	
			7	; ;		3		6 1 1			-	ŗ	•
Final Discribing Systems (FDS)	2	104						0	1	8			
HARM Missis	>	3			R	1	Ř			;			
Herpoon Missile	3	>	% 0		•		2				ļ		
AMPS MK III System		19		;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			:		ł				
Landing Critit: Air Cuehlon (ICAC)		₹ ¥		340				-	ž	-	01	¥2	•
LHD 1 Amphbloue Assault Ship	3	¥.	ł					4	ž	ž	ł	ł	ļ
(80.41 (Cargo Variant) Dock Landing Ship	3.	*	!					•0	14	8	1		
MCM 1 Mine Countermeasures Ship La un de Door du Amerika du Ship	3	R						•]]	1			
		2								5			
MK EO Tomedo		2		22		502	S a				 		
Phateric CIWB Swittern	NOI-	1			•7		\$				ł	;	
Phoenty Misels	3	h	+ 	5%			-	-	ž	4			
Bupenonic Low Attude Target (BLAT)	3	457	2	7		0	2	-	XX	8			
BSN 21 Submarthe/AN/BSY-2	3	108%		¦	i			¢	*9	8		ļ	
SSN 666 Submarine	3	2	{					¢	19 1	6			
Standard Missile (SM -2 MR/ER)	1	ž		1 8%	1	1	ž			: :	;		1
T-AGOS Ocean Surveillerce Ship	 			ł		!		tu	31%	3		::	
T-AO 167 Fleet Oller	3	6			1		:			ļ	-	2	-
14515 Training Ancreit			!	ł						ļ			
I OFFENSION MERIE	:	5	*	1			;						
Tricent II Intesis	. م	# : 1	ļ		611	1	2	•	K	R 1	N	t n	R
I ROUT I SUD THERE		N						ŋ .		8 1			
of the factory - on Construction Setelling	2	1						•					
	. 1	:		100		ļ		-	1	8			

NOTEB: Bee Army or Air Force summery tables for note descriptions.

TABLE A-6. DECEMBER 1991 SELECTED ACQUISITION REPORT (SAR) REVIEW SUMMARY TABLE FOR SELECTED AIR FORCE SYSTEMS

	NUNN-MCCURDY AMENDMENT UNIT COST CHANGES			SCHEDULE PERFORMANCE		TE OF PR	ODUCTION IGE8	EXPECTED CONTRACT OVERBUINS			EXPECTED CONTRACT UNDERRUNS		
	(PERCENT			DELIVERY STATUS		BAVINGE	PERCENT OF	% OVE	% OVER	TOTAL AMOUNT OF OVERBUN	F %UN NUMBER OF TAR	% UNDER	TOTAL AMOUNT OF UNDEFIFIUN
SYSTEM NAME	PROCUREMENT		% AHE AD	% BEHIND	COSTS (SM)	(\$M)	ESTIMATE	CONTRAC	TSPRICES	\$M)	CONTRACT		(6 M)
Advanced Cruise Missile (ACM)		19%		37%				3	11%	117			
AMRAAM Missile	9%	4%	1%		293)	2%						
ATARS Tactical Air Recommissance System	*	- 1%		100%									
WACS Radar System Improvement Program	•/	2%						1	10%	25			
3—18 Aircrait	•/	v				- 359	1%	3	5%	1,001	2	3%	86
C-17A Aircraft		1%			305	3	1%	4	21%	1,809			
Cheyenne Mountain Upgrade (CMU) Program	9/	9/						1	3%	5	1	13%	16
DMSP Satellie Program		13%						5	13%	86			
Defense Support Program	*	v						5	6%	147	1	1%	2
F 16 Alicraft		v		1%				2	2%	29			
-22 Advanced Tactical Fighter	•/		a/	•/									
R Mavarick Missila	•/	12%			0)							
rential Upper Stage (IUB) Rocket Booster	•/	23%			11		1%	1	2%				
JSTARS Radar	•/	-2%						2	2%	23			
JTIDS Information System	•/	a/		10%									
(C~135R Alroadt Modernization Program		-18%				- 0							
ANTIAN Navigation & Targeting System	*	v	4%					1	11%	33			
Nevetar Globel Positioning System (GPS):								3	10%	61			
At Force Satellite	-1%	-2%						N/	K/	k/	k/	k/	k/
Tri-service User Equipment		-20%			75	5	12%	k/	k/	N/	N/	k/	k/
Peacekeeper Missie	•/	v			0)		3	1%	11			
Peace keeper Rall Garrison Equipment	· V	Ŷ	V	V				2	4%	24	1	3%	12
Bensor Fuzed Weepon (BFW)	'	37%		100%	255	5	6%						
Small ICBM	y	V	V	V									
SRAM Missle	ý	ÎV 🛛	Í.	ý									
Titen IV Miselia		24%			980)	6%	1	6%	609			~~~
WWMCCS ADP Modernization (WAM)	•/								~				

A-6

a/ Not applicable. b/ Classified date.

c/ NoCongressional data shart. d/ To be determined data.

e/ No contract has been awarded as of this date. f/ Less than one—half of one percent (0.5%).

V Lass than one - max or one percent (2.3%).
 g/ Total program costs include only asserch and development effort.
 h/ Data was not reported.
 V Comparison not possible.
 j/ Program was terminated.
 k/ Contract and schedule data was provided at the program level.

NOTES: