



Selected Acquisition Report (SAR)

RCS: DD-A&T(Q&A)823-503



JDAM

As of December 31, 2011

Defense Acquisition Management
Information Retrieval
(DAMIR)

UNCLASSIFIED

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Program Information

Designation And Nomenclature (Popular Name)

Joint Direct Attack Munition (JDAM)

DoD Component

Air Force

Joint Participants

Navy

Responsible Office

Responsible Office

Col Albert Anderson
 AAC/EBD
 205 West D Avenue, Suite 545, Bldg 350
 Eglin AFB, FL 32542-6807
Albert.Anderson@EGLIN.AF.MIL

Phone 850-883-1797
Fax --
DSN Phone 875-1797
DSN Fax --
Date Assigned May 17, 2010

References

SAR Baseline (Production Estimate)

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated March 23, 2001

Approved APB

Defense Acquisition Executive (DAE) Approved Acquisition Program Baseline (APB) dated October 7, 2002

Mission and Description

The Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead acquisition service. Designated Acquisition Category (ACAT) 1C, this program upgrades the existing inventory of general purpose bombs (MK-84, BLU-109, MK-82 and MK-83) by integrating the bombs with a field installed guidance kit using a global positioning system aided inertial navigation system (GPS/INS). JDAM provides an accurate, adverse weather capability. JDAM is integrated with the B-52H, B-2A, B-1B, F-16C/D, F/A-18A+/C/D/E/F, F-15E, A-10C, AV-8B and F-22A aircraft.

Executive Summary

Delivery of JDAM Lot 14 production of 10,129 tailkits is ahead of schedule with final delivery scheduled for March 2012. JDAM Lot 15 production of 8,139 tailkits is scheduled to begin in April 2012. The JDAM Lot 16 production option was awarded in November 2011 for 4,977 tailkits.

The Air Force procured 550 Laser Sensors through the Navy's Direct Attack Moving Target Capability (DAMTC) contract in response to an October 18, 2010 Air Force Central Command (AFCENT) Urgent Operational Need (UON) and all kits were delivered during this period. The Navy is also adding an additional 700 Laser Sensors to their DAMTC contract to replace Air Force combat expenditures. Contract award is expected by January 2012 with deliveries beginning in April 2012.

There are no significant software-related issues with this program at this time.

Threshold Breaches

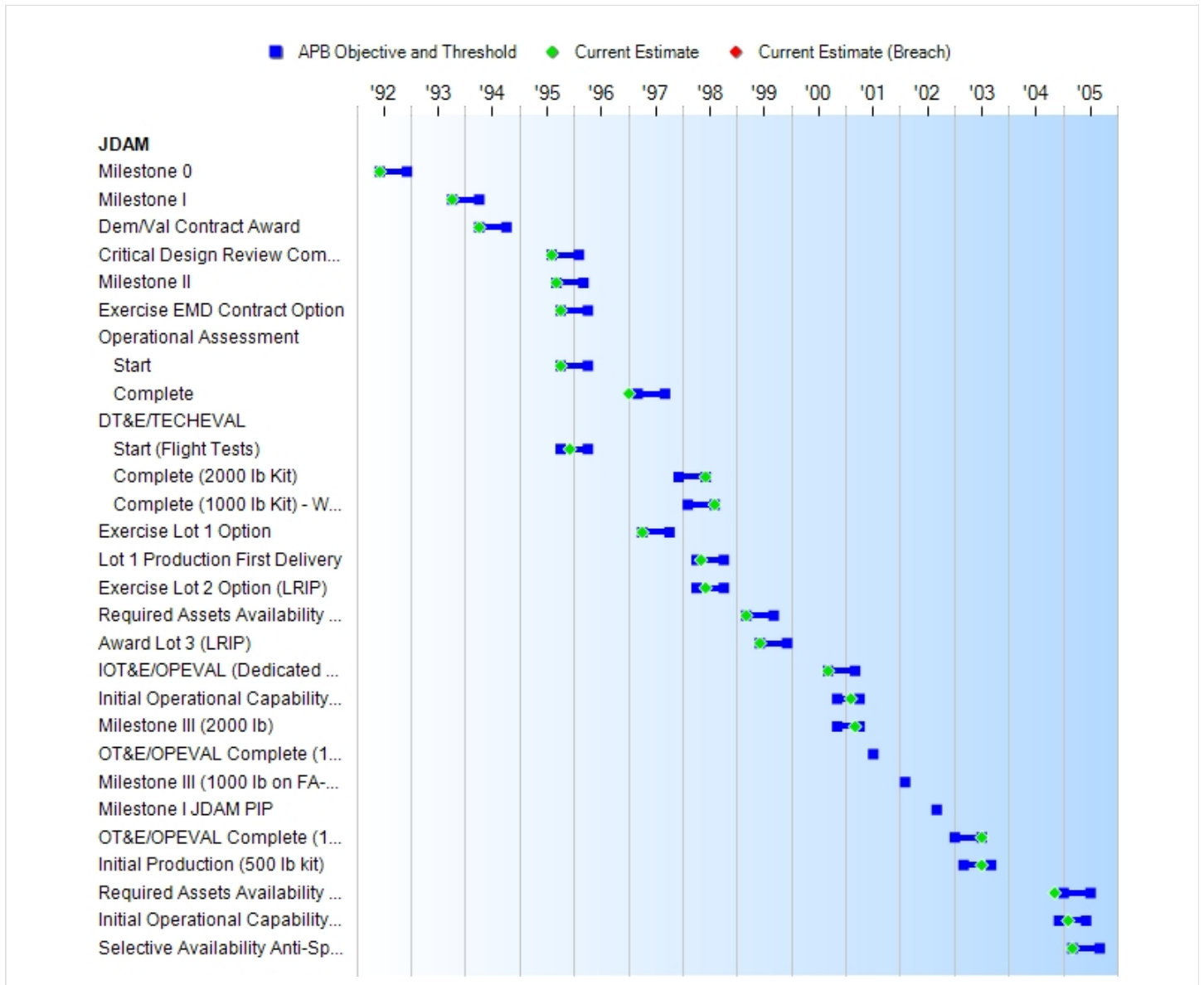
APB Breaches

Schedule		<input type="checkbox"/>
Performance		<input type="checkbox"/>
Cost	RDT&E	<input type="checkbox"/>
	Procurement	<input type="checkbox"/>
	MILCON	<input type="checkbox"/>
	Acq O&M	<input type="checkbox"/>
Unit Cost	PAUC	<input type="checkbox"/>
	APUC	<input type="checkbox"/>

Nunn-McCurdy Breaches

Current UCR Baseline		
	PAUC	None
	APUC	None
Original UCR Baseline		
	PAUC	None
	APUC	None

Schedule



Milestones	SAR Baseline Prod Est	Current APB Production		Current Estimate
		Objective/Threshold		
Milestone 0	JUN 1992	JUN 1992	DEC 1992	JUN 1992
Milestone I	OCT 1993	OCT 1993	APR 1994	OCT 1993
Dem/Val Contract Award	APR 1994	APR 1994	OCT 1994	APR 1994
Critical Design Review Complete	AUG 1995	AUG 1995	FEB 1996	AUG 1995
Milestone II	SEP 1995	SEP 1995	MAR 1996	SEP 1995
Exercise EMD Contract Option	OCT 1995	OCT 1995	APR 1996	OCT 1995
Operational Assessment				
Start	OCT 1995	OCT 1995	APR 1996	OCT 1995
Complete	MAR 1997	MAR 1997	SEP 1997	JAN 1997
DT&E/TECHEVAL				
Start (Flight Tests)	OCT 1995	OCT 1995	APR 1996	DEC 1995
Complete (2000 lb Kit)	DEC 1997	DEC 1997	JUN 1998	JUN 1998
Complete (1000 lb Kit) - Weapon Only	FEB 1998	FEB 1998	AUG 1998	AUG 1998
Exercise Lot 1 Option	APR 1997	APR 1997	OCT 1997	APR 1997
Lot 1 Production First Delivery	APR 1998	APR 1998	OCT 1998	MAY 1998
Exercise Lot 2 Option (LRIP)	APR 1998	APR 1998	OCT 1998	JUN 1998
Required Assets Availability (AF)	MAR 1999	MAR 1999	SEP 1999	MAR 1999
Award Lot 3 (LRIP)	JUN 1999	JUN 1999	DEC 1999	JUN 1999
IOT&E/OPEVAL (Dedicated 2000 lb Kit) Complete	SEP 2000	SEP 2000	MAR 2001	SEP 2000
Initial Operational Capability (FA-18)	NOV 2000	NOV 2000	APR 2001	FEB 2001
Milestone III (2000 lb)	NOV 2000	NOV 2000	APR 2001	MAR 2001
OT&E/OPEVAL Complete (1000 lb Kit/FA-18C/D)	JUL 2001	N/A	N/A	N/A
Milestone III (1000 lb on FA-18C/D)	FEB 2002	N/A	N/A	N/A
Milestone I JDAM PIP	SEP 2002	N/A	N/A	N/A
OT&E/OPEVAL Complete (1000 lb Kit/FA-18C/D)	N/A	JAN 2003	JUL 2003	JUL 2003
Initial Production (500 lb kit)	N/A	MAR 2003	SEP 2003	JUL 2003
Required Assets Availability (RAA) (500 lb on B-2)	N/A	JAN 2005	JUL 2005	NOV 2004
Initial Operational Capability (IOC) (500 lb kit on FA-18C/D)	N/A	DEC 2004	JUN 2005	FEB 2005
Selective Availability Anti-Spoofing Module (SAASM)/GPS Anti-Jam Production Award	N/A	MAR 2005	SEP 2005	MAR 2005

Acronyms And Abbreviations

AF - Air Force
DEM/VAL - Demonstration/Validation
DT&E - Development Test and Evaluation
EMD - Engineering, Manufacturing and Development

GPS - Global Positioning System
IOC - Initial Operational Capability
IOT&E - Initial Operational Test and Evaluation
LB - Pound
LRIP - Low Rate Initial Production
OPEVAL - Operational Evaluation
OT&E - Operational Test and Evaluation
PIP - Product Improvement Program
RAA - Required Assets Availability
SAASM - Selective Availability Anti Spoofing Module
TECHEVAL - Technical Evaluation

Change Explanations

None

Performance

Characteristics	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Demonstrated Performance	Current Estimate
Weather Capability	Adverse	Adverse	Adverse	Adverse	Adverse
Accuracy (CEP) (Meters)					
GPS Available, Impact Angles > 60 Deg	13 Horizontal Targets	5 Horizontal targets	13	4.3	5 Horizontal Targets
Inflight Re-targeting Capability (captive carry)	Yes	Yes	Yes	Yes	Yes
Carrier Operability	Yes	Yes	Yes	Yes	Yes
Warhead Compatibility	MK-82/BLU-111, MK-83, Improved 1000-lb, BLU-113/116/117	MK-82/BLU-111, MK-83, Improved 1000-lb, BLU-113/116/117	BLU-109, MK-84, MK-83 (F-22)	BLU-109, MK-84, MK-83 (F-22), MK-82	BLU-109, MK-84, MK-83 (F-22), MK-82
Aircraft Compatibility					
Bomber	B-1B, B-2	B-1B, B-2	B-52H	Yes	B-52H, B-1B, B-2
Fighter Attack	F-16C/D, F/A-18E/F, F-117A, F-15E, F-14A/B/D, P-3, S-3, JSF, A-10	F-16C/D, F/A-18E/F, F-117A, F-15E, F-14A/B/D, P-3, S-3, JSF, A-10	F/A-18C/D, F-22 (MK-83), AV-8B & F/A-18C/D (MK-83)	Yes	F-16C/D, F-117, F/A-18A+/C/D/E/F, F-15E, AV-8B, A-10, F-22A
Mission Reliability	.90	.90	.90	.957	.90
JDAM PIP Accuracy (CEP) (Meters)	3	N/A	N/A	N/A	N/A
JDAM PIP Weather Capability	Adverse	N/A	N/A	N/A	N/A
JDAM PIP Warhead Compatibility	MK-82, MK-83	N/A	N/A	N/A	N/A
Interoperability	N/A	Satisfy 100% of critical IERs	Satisfy 100% of critical IERs	Satisfied	Satisfied

Requirements Source: Joint Operational Requirements Document (JORD) dated March 10, 2001

Acronyms And Abbreviations

CEP - Circular Error Probable

DEG - Degree

GPS - Global Positioning System
IER - Information Exchange Requirement
JSF - Joint Strike Fighter
PIP - Product Improvement Program

Change Explanations

None

Track To Budget

General Memo

The Defense Emergency Response Funds (DERF) received in FY 2001 and FY 2002 are excluded from both the Air Force and Navy production funding.

RDT&E

APPN 1319	BA 05	PE 0604618N	(Navy)	
	Project 2137	JDAM		(Sunk)
APPN 3600	BA 05	PE 0604618F	(Air Force)	
	Project 3890	JDAM		(Sunk)

Procurement

APPN 1508	BA 01	PE 0204162N	(Navy)	
	ICN 0148	JDAM		(Sunk)
APPN 3011	BA 01	PE 0207583F	(Air Force)	
	ICN 353620	JDAM		

Cost and Funding

Cost Summary

Total Acquisition Cost and Quantity

Appropriation	BY1995 \$M			BY1995 \$M	TY \$M		
	SAR Baseline Prod Est	Current APB Production Objective/Threshold		Current Estimate	SAR Baseline Prod Est	Current APB Production Objective	Current Estimate
RDT&E	490.3	575.1	661.4	569.2	517.3	604.3	597.3
Procurement	1810.0	4307.5	4738.3	4626.6	2089.4	5026.5	5606.7
Flyaway	1673.4	--	--	4248.3	1935.5	--	5142.4
Recurring	1596.9	--	--	4248.3	1847.3	--	5142.4
Non Recurring	76.5	--	--	0.0	88.2	--	0.0
Support	136.6	--	--	378.3	153.9	--	464.3
Other Support	136.6	--	--	378.3	153.9	--	464.3
Initial Spares	0.0	--	--	0.0	0.0	--	0.0
MILCON	0.0	0.0	--	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	--	0.0	0.0	0.0	0.0
Total	2300.3	4882.6	N/A	5195.8	2606.7	5630.8	6204.0

Quantity	SAR Baseline Prod Est	Current APB Production	Current Estimate
RDT&E		630	778
Procurement		88435	221091
Total		89065	221869

JDAM is a field installed guidance kit using a global positioning system (GPS) aided by an inertial navigation system (INS).

Cost and Funding

Funding Summary

Appropriation and Quantity Summary FY2013 President's Budget / December 2011 SAR (TY\$ M)

Appropriation	Prior	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	To Complete	Total
RDT&E	597.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	597.3
Procurement	4849.3	127.2	155.8	126.1	129.9	109.3	109.1	0.0	5606.7
MILCON	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Acq O&M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
PB 2013 Total	5446.6	127.2	155.8	126.1	129.9	109.3	109.1	0.0	6204.0
PB 2012 Total	5335.4	110.7	100.0	102.1	103.9	105.2	0.0	0.0	5857.3
Delta	111.2	16.5	55.8	24.0	26.0	4.1	109.1	0.0	346.7

Quantity	Undistributed	Prior	FY2012	FY2013	FY2014	FY2015	FY2016	FY2017	To Complete	Total
Development	804	0	0	0	0	0	0	0	0	804
Production	0211270	4259	4678	3071	3039	2944	2810			0232071
PB 2013 Total	804211270	4259	4678	3071	3039	2944	2810			0232875
PB 2012 Total	804207096	3624	3250	3100	3000	3000	0			0223874
Delta	0	4174	635	1428	-29	39	-56	2810	0	9001

Cost and Funding

Annual Funding By Appropriation

Annual Funding TY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1993	--	--	--	--	--	--	23.2
1994	--	--	--	--	--	--	7.8
1995	--	--	--	--	--	--	23.0
1996	--	--	--	--	--	--	25.4
1997	--	--	--	--	--	--	22.1
1998	--	--	--	--	--	--	11.6
1999	--	--	--	--	--	--	6.1
2000	--	--	--	--	--	--	7.2
2001	--	--	--	--	--	--	23.0
2002	--	--	--	--	--	--	27.3
2003	--	--	--	--	--	--	15.5
2004	--	--	--	--	--	--	1.3
2005	--	--	--	--	--	--	0.5
2006	--	--	--	--	--	--	0.3
Subtotal	114	--	--	--	--	--	194.3

Annual Funding BY\$

1319 | RDT&E | Research, Development, Test, and Evaluation, Navy

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1993	--	--	--	--	--	--	23.8
1994	--	--	--	--	--	--	7.8
1995	--	--	--	--	--	--	22.7
1996	--	--	--	--	--	--	24.7
1997	--	--	--	--	--	--	21.2
1998	--	--	--	--	--	--	11.0
1999	--	--	--	--	--	--	5.7
2000	--	--	--	--	--	--	6.7
2001	--	--	--	--	--	--	21.0
2002	--	--	--	--	--	--	24.7
2003	--	--	--	--	--	--	13.8
2004	--	--	--	--	--	--	1.1
2005	--	--	--	--	--	--	0.4
2006	--	--	--	--	--	--	0.2
Subtotal	114	--	--	--	--	--	184.8

Annual Funding TY\$

3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1993	--	--	--	--	--	--	21.5
1994	--	--	--	--	--	--	61.9
1995	--	--	--	--	--	--	62.9
1996	--	--	--	--	--	--	76.4
1997	--	--	--	--	--	--	32.7
1998	--	--	--	--	--	--	21.1
1999	--	--	--	--	--	--	28.7
2000	--	--	--	--	--	--	11.3
2001	--	--	--	--	--	--	9.7
2002	--	--	--	--	--	--	16.5
2003	--	--	--	--	--	--	17.0
2004	--	--	--	--	--	--	36.0
2005	--	--	--	--	--	--	--
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	7.3
Subtotal	690	--	--	--	--	--	403.0

Annual Funding BY\$

3600 | RDT&E | Research, Development, Test, and Evaluation, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1993	--	--	--	--	--	--	21.9
1994	--	--	--	--	--	--	62.1
1995	--	--	--	--	--	--	62.0
1996	--	--	--	--	--	--	73.9
1997	--	--	--	--	--	--	31.2
1998	--	--	--	--	--	--	20.0
1999	--	--	--	--	--	--	26.9
2000	--	--	--	--	--	--	10.5
2001	--	--	--	--	--	--	8.8
2002	--	--	--	--	--	--	14.9
2003	--	--	--	--	--	--	15.1
2004	--	--	--	--	--	--	31.3
2005	--	--	--	--	--	--	--
2006	--	--	--	--	--	--	--
2007	--	--	--	--	--	--	5.8
Subtotal	690	--	--	--	--	--	384.4

Annual Funding TY\$

1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1998	547	10.0	--	--	10.0	10.9	20.9
1999	745	14.6	--	--	14.6	20.6	35.2
2000	916	19.3	--	--	19.3	15.7	35.0
2001	2325	50.2	--	--	50.2	15.4	65.6
2002	14551	292.4	--	--	292.4	10.1	302.5
2003	12280	242.4	--	--	242.4	8.5	250.9
2004	12422	243.7	--	--	243.7	8.2	251.9
2005	6876	142.5	--	--	142.5	8.6	151.1
2006	3288	72.5	--	--	72.5	9.0	81.5
2007	3324	73.9	--	--	73.9	12.7	86.6
2008	1422	35.5	--	--	35.5	7.1	42.6
2009	560	13.3	--	--	13.3	5.2	18.5
2010	--	--	--	--	--	2.0	2.0
Subtotal	59256	1210.3	--	--	1210.3	134.0	1344.3

Annual Funding BY\$**1508 | Procurement | Procurement of Ammunition, Navy and Marine Corps**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1998	547	9.4	--	--	9.4	10.2	19.6
1999	745	13.5	--	--	13.5	19.1	32.6
2000	916	17.6	--	--	17.6	14.4	32.0
2001	2325	45.3	--	--	45.3	13.9	59.2
2002	14551	261.2	--	--	261.2	9.0	270.2
2003	12280	211.7	--	--	211.7	7.4	219.1
2004	12422	207.3	--	--	207.3	7.0	214.3
2005	6876	117.8	--	--	117.8	7.1	124.9
2006	3288	58.5	--	--	58.5	7.2	65.7
2007	3324	58.2	--	--	58.2	10.1	68.3
2008	1422	27.6	--	--	27.6	5.5	33.1
2009	560	10.2	--	--	10.2	4.0	14.2
2010	--	--	--	--	--	1.5	1.5
Subtotal	59256	1038.3	--	--	1038.3	116.4	1154.7

The Navy agreed to use the Air Force inflation tables for all funding issues.

Annual Funding TY\$
3011 | Procurement | Procurement of Ammunition, Air Force

Fiscal Year	Quantity	End Item Recurring Flyaway TY \$M	Non End Item Recurring Flyaway TY \$M	Non Recurring Flyaway TY \$M	Total Flyaway TY \$M	Total Support TY \$M	Total Program TY \$M
1997	937	16.6	--	--	16.6	6.4	23.0
1998	1828	33.5	--	--	33.5	5.7	39.2
1999	3778	72.4	--	--	72.4	7.1	79.5
2000	8725	180.1	--	--	180.1	9.1	189.2
2001	8904	189.9	--	--	189.9	13.6	203.5
2002	14392	285.9	--	--	285.9	14.5	300.4
2003	23420	458.5	--	--	458.5	18.6	477.1
2004	20476	404.2	--	--	404.2	20.3	424.5
2005	22880	491.8	--	--	491.8	22.6	514.4
2006	8205	200.8	--	--	200.8	24.4	225.2
2007	7261	180.7	--	--	180.7	13.4	194.1
2008	4319	102.1	--	--	102.1	22.0	124.1
2009	6340	149.1	--	--	149.1	16.9	166.0
2010	7488	177.5	--	--	177.5	20.9	198.4
2011	13061	326.5	--	--	326.5	19.9	346.4
2012	4259	112.2	--	--	112.2	15.0	127.2
2013	4678	140.3	--	--	140.3	15.5	155.8
2014	3071	110.0	--	--	110.0	16.1	126.1
2015	3039	113.9	--	--	113.9	16.0	129.9
2016	2944	92.9	--	--	92.9	16.4	109.3
2017	2810	93.2	--	--	93.2	15.9	109.1
Subtotal	172815	3932.1	--	--	3932.1	330.3	4262.4

Annual Funding BY\$**3011 | Procurement | Procurement of Ammunition, Air Force**

Fiscal Year	Quantity	End Item Recurring Flyaway BY 1995 \$M	Non End Item Recurring Flyaway BY 1995 \$M	Non Recurring Flyaway BY 1995 \$M	Total Flyaway BY 1995 \$M	Total Support BY 1995 \$M	Total Program BY 1995 \$M
1997	937	15.7	--	--	15.7	6.1	21.8
1998	1828	31.4	--	--	31.4	5.3	36.7
1999	3778	67.0	--	--	67.0	6.6	73.6
2000	8725	164.8	--	--	164.8	8.4	173.2
2001	8904	171.9	--	--	171.9	12.3	184.2
2002	14392	254.6	--	--	254.6	12.9	267.5
2003	23420	403.5	--	--	403.5	16.4	419.9
2004	20476	348.1	--	--	348.1	17.5	365.6
2005	22880	411.9	--	--	411.9	18.9	430.8
2006	8205	163.4	--	--	163.4	19.9	183.3
2007	7261	143.5	--	--	143.5	10.6	154.1
2008	4319	79.6	--	--	79.6	17.2	96.8
2009	6340	114.6	--	--	114.6	13.0	127.6
2010	7488	134.0	--	--	134.0	15.8	149.8
2011	13061	242.1	--	--	242.1	14.8	256.9
2012	4259	81.8	--	--	81.8	10.9	92.7
2013	4678	100.5	--	--	100.5	11.1	111.6
2014	3071	77.5	--	--	77.5	11.3	88.8
2015	3039	78.8	--	--	78.8	11.1	89.9
2016	2944	63.1	--	--	63.1	11.2	74.3
2017	2810	62.2	--	--	62.2	10.6	72.8
Subtotal	172815	3210.0	--	--	3210.0	261.9	3471.9

Air Force does not provide Inflation tables for appropriation 3011, Procurement of Ammunition, Air Force. JDAM uses inflation tables for appropriation 3020, Missile Procurement, Air Force.

Low Rate Initial Production

	Initial LRIP Decision	Current Total LRIP
Approval Date	9/20/1995	1/21/2000
Approved Quantity	425	15998
Reference	MS II ADM	LRIP 4 ADM
Start Year	1997	1997
End Year	1998	2000

The Low Rate Initial Production (LRIP) quantities approved in the Acquisition Decision Memorandum (ADM) at Milestone II, September 20, 1995, were 425 units for Lot 1. Subsequent FY1997 budget cycle decisions approved a buy-to-budget approach for determining annual quantities and Lot 1 became 937 units. With the lower than expected unit costs and a higher demand for JDAM Guidance Kits, a second, third and fourth LRIP were added making LRIP a total quantity of 15,998. The additional LRIP quantities, required to replenish JDAM inventories depleted during Operation Allied Force, caused the Air Force to exceed the 10% LRIP limit. However, all four Congressional Defense committees concurred with the Air Force's plan before the Lot 4 contract was awarded on February 24, 2000.

Foreign Military Sales

Country	Date of Sale	Quantity	Total Cost \$M	Memo
Belgium	9/8/2011	60	3.8	JDAM Kits, Fuzes
Malaysia	8/23/2011		1.8	JDAM Spares, Test Assets
Canada	8/11/2011	533	17.8	JDAM Kits, Integration Support
Chile	6/10/2011	40	1.3	JDAM Kits
Norway	4/26/2011	150	6.8	JDAM Kits
Denmark	4/11/2011	110	6.5	JDAM Kits
Brazil	1/28/2011		0.3	Fuzes
Japan	2/9/2010	96	4.9	JDAM Kits, Fuzes
Japan	1/29/2010	31	1.7	JDAM Kits, Fuzes
Singapore	1/27/2010	670	35.5	JDAM Kits
Israel	1/22/2010	150	2.3	Precision Laser Guidance Set
Israel	1/12/2010	150	3.8	JDAM Kits
Netherlands	12/4/2009		2.8	Fuzes
South Korea	11/30/2009		4.0	JDAM Integration on F-16
Malaysia	9/28/2009	50	5.8	JDAM Kits
Norway	6/10/2009	30	7.1	JDAM Kits, Support
Kuwait	3/31/2009	51	5.9	JDAM Kits, Support
United Arab Emirates	3/24/2009		1.1	Repair and Return, Spares, Support
Japan	3/12/2009	120	9.2	JDAM Kits
Finland	2/25/2009	96	7.4	JDAM Kits
Singapore	2/11/2009	35	4.1	JDAM Kits
Japan	2/3/2009	36	3.1	JDAM Kits, Fuzes
Oman	2/2/2009		0.3	Repair and Return, Spares, Support
Israel	1/12/2009	2950	71.5	JDAM Kits
Israel	1/12/2009	500	14.9	JDAM Kits
South Korea	12/29/2008		0.4	Fuzes
South Korea	12/16/2008	4	0.5	JDAM Kits
Germany	10/28/2008		0.2	Fuzes
South Korea	9/3/2008		0.2	Fuzes
Israel	7/21/2008		0.6	Engineering Support
Saudi Arabia	7/2/2008	900	44.2	JDAM Kits, Support
South Korea	3/11/2008		2.2	Fuzes
Japan	3/7/2008	36	2.1	JDAM Kits, Fuzes
United Arab Emirates	2/21/2008	300	70.6	JDAM Kits
South Korea	2/19/2008		4.3	Fuzes, Global Positioning System (GPS) Security
South Korea	12/28/2007		0.4	Fuzes
South Korea	12/28/2007		0.4	Fuzes
Australia	12/11/2007		2.6	Engineering Support
Greece	11/20/2007	100	21.9	JDAM Kits, Integration Support
Netherlands	10/24/2007		2.8	Fuzes
Israel	10/2/2007	1000	28.0	JDAM Kits
Israel	9/26/2007	650	17.3	JDAM Kits
Israel	7/13/2007	300	8.3	JDAM Kits

Turkey	5/29/2007		0.4	Fuzes
Israel	3/5/2007	500	12.9	JDAM Kits
Japan	12/18/2006	42	1.8	JDAM Kits
Spain	12/14/2006	40	2.5	JDAM Kits
Pakistan	9/30/2006	500	23.6	JDAM Kits
Israel	7/25/2006		0.1	Engineering Support
Japan	3/27/2006	44	3.5	JDAM Kits
Japan	3/17/2006		0.1	Engineering Support
Turkey	12/28/2005		6.9	Integration
Turkey	12/28/2005	398	9.9	JDAM Kits
Greece	12/13/2005		2.3	Integration Support
Netherlands	10/7/2005	56	1.7	JDAM Kits
Turkey	4/26/2005		4.7	Integration Support
Australia	4/5/2005		0.3	Integration Support
Netherlands	3/1/2005	360	8.7	JDAM Kits, Support
Japan	1/25/2005	27	8.5	JDAM Kits, Integration, Test Assets
Belgium	12/22/2004	300	7.9	JDAM Kits
Israel	8/16/2004		17.6	F-15 Integration
Israel	7/14/2004	840	18.1	JDAM Kits, Integration
Portugal	4/15/2004	50	3.7	JDAM Kits, Support
Netherlands	2/23/2004	350	13.8	JDAM Kits, Support
Oman	2/15/2004	20	0.5	JDAM Kits
Israel	7/3/2003	1000	21.5	JDAM Kits
Poland	4/18/2003	272	10.6	JDAM Kits, Integration, Test Assets
Denmark	12/20/2002	274	11.0	JDAM Kits, Support
United Arab Emirates	8/20/2002	300	9.0	JDAM Kits
South Korea	6/12/2002	14	1.1	JDAM Kits
Oman	5/2/2002	80	3.2	JDAM Kits
Belgium	2/11/2002		0.8	Fuzes
Chile	2/1/2002	12	3.0	JDAM Kits, Integration, Test Assets
Australia	11/28/2000		6.8	Fuzes
Australia	11/28/2000		3.2	Fuzes
United Arab Emirates	8/8/2000		1.3	Integration, Test Assets
Israel	2/9/2000	700	31.5	JDAM Kits, Integration

Nuclear Cost

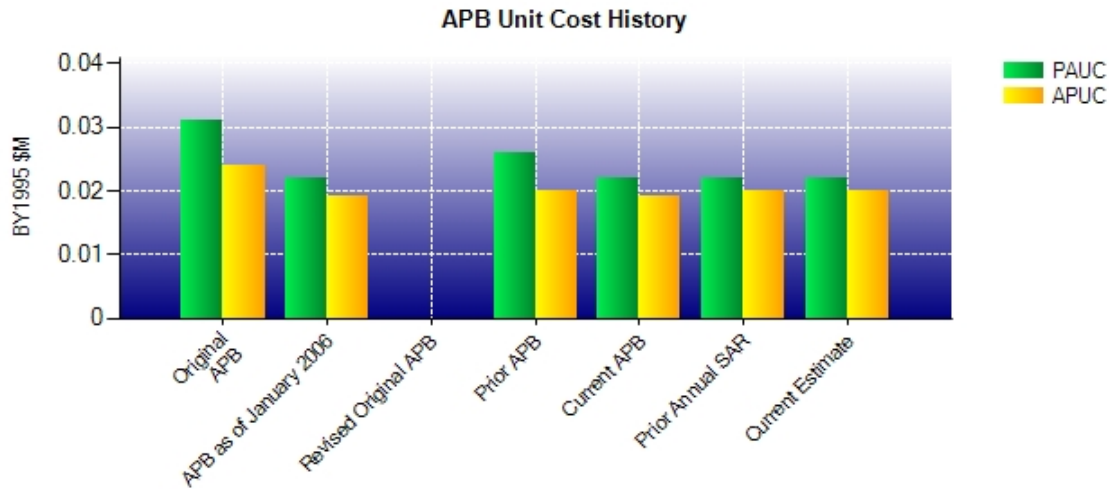
None

Unit Cost**Unit Cost Report**

	BY1995 \$M	BY1995 \$M	
Unit Cost	Current UCR Baseline (OCT 2002 APB)	Current Estimate (DEC 2011 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	4882.6	5195.8	
Quantity	221869	232875	
Unit Cost	0.022	0.022	0.00
Average Procurement Unit Cost (APUC)			
Cost	4307.5	4626.6	
Quantity	221091	232071	
Unit Cost	0.019	0.020	+5.26

	BY1995 \$M	BY1995 \$M	
Unit Cost	Original UCR Baseline (SEP 1995 APB)	Current Estimate (DEC 2011 SAR)	BY % Change
Program Acquisition Unit Cost (PAUC)			
Cost	2720.4	5195.8	
Quantity	88126	232875	
Unit Cost	0.031	0.022	-29.03
Average Procurement Unit Cost (APUC)			
Cost	2090.6	4626.6	
Quantity	87496	232071	
Unit Cost	0.024	0.020	-16.67

Unit Cost History



	Date	BY1995 \$M		TY \$M	
		PAUC	APUC	PAUC	APUC
Original APB	SEP 1995	0.031	0.024	0.038	0.033
APB as of January 2006	OCT 2002	0.022	0.019	0.025	0.023
Revised Original APB	N/A	N/A	N/A	N/A	N/A
Prior APB	MAR 2001	0.026	0.020	0.029	0.024
Current APB	OCT 2002	0.022	0.019	0.025	0.023
Prior Annual SAR	DEC 2010	0.022	0.020	0.026	0.024
Current Estimate	DEC 2011	0.022	0.020	0.027	0.024

SAR Unit Cost History

Initial SAR Baseline to Current SAR Baseline (TY \$M)

Initial PAUC Dev Est	Changes								PAUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.038	-0.002	-0.005	0.002	0.001	-0.005	0.000	0.000	-0.009	0.029

Current SAR Baseline to Current Estimate (TY \$M)

PAUC Prod Est	Changes								PAUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.029	0.000	-0.007	0.000	0.000	0.004	0.000	0.001	-0.002	0.027

Initial SAR Baseline to Current SAR Baseline (TY \$M)

Initial APUC Dev Est	Changes								APUC Prod Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.033	-0.002	-0.003	0.002	0.000	-0.006	0.000	0.000	-0.009	0.024

Current SAR Baseline to Current Estimate (TY \$M)

APUC Prod Est	Changes								APUC Current Est
	Econ	Qty	Sch	Eng	Est	Oth	Spt	Total	
0.024	0.000	-0.005	0.000	0.000	0.004	0.000	0.001	0.000	0.024

SAR Baseline History

Item/Event	SAR Planning Estimate (PE)	SAR Development Estimate (DE)	SAR Production Estimate (PdE)	Current Estimate
Milestone I	OCT 1993	OCT 1993	OCT 1993	OCT 1993
Milestone II	OCT 1995	SEP 1995	SEP 1995	SEP 1995
Milestone III	JUL 1999	NOV 2000	NOV 2000	MAR 2001
IOC	SEP 1999	SEP 1999	NOV 2000	FEB 2001
Total Cost (TY \$M)	681.5	3392.3	2606.7	6204.0
Total Quantity	378	88126	89065	232875
Prog. Acq. Unit Cost (PAUC)	1.803	0.038	0.029	0.027

SAR Planning Estimate (PE) total cost of \$681.5 and total quantity of 378 reflect only Research, Development, Test and Evaluation values as shown in the December 31, 1993 SAR.

Initial Operational Capability (IOC) February 2001 is specifically for the F/A-18C/D.

Cost Variance**Cost Variance Summary**

Summary Then Year \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	517.3	2089.4	--	2606.7
Previous Changes				
Economic	+3.9	+54.2	--	+58.1
Quantity	--	+2001.0	--	+2001.0
Schedule	--	-48.5	--	-48.5
Engineering	+15.5	--	--	+15.5
Estimating	+60.6	+887.7	--	+948.3
Other	--	--	--	--
Support	--	+276.2	--	+276.2
Subtotal	+80.0	+3170.6	--	+3250.6
Current Changes				
Economic	-0.3	+19.8	--	+19.5
Quantity	--	+239.3	--	+239.3
Schedule	--	-11.7	--	-11.7
Engineering	--	--	--	--
Estimating	+0.3	+69.5	--	+69.8
Other	--	--	--	--
Support	--	+29.8	--	+29.8
Subtotal	--	+346.7	--	+346.7
Total Changes	+80.0	+3517.3	--	+3597.3
CE - Cost Variance	597.3	5606.7	--	6204.0
CE - Cost & Funding	597.3	5606.7	--	6204.0

Summary Base Year 1995 \$M				
	RDT&E	Proc	MILCON	Total
SAR Baseline (Prod Est)	490.3	1810.0	--	2300.3
Previous Changes				
Economic	--	--	--	--
Quantity	--	+1622.1	--	+1622.1
Schedule	--	-0.8	--	-0.8
Engineering	+12.5	--	--	+12.5
Estimating	+66.1	+743.9	--	+810.0
Other	--	--	--	--
Support	--	+221.3	--	+221.3
Subtotal	+78.6	+2586.5	--	+2665.1
Current Changes				
Economic	--	--	--	--
Quantity	--	+163.4	--	+163.4
Schedule	--	-0.6	--	-0.6
Engineering	--	--	--	--
Estimating	+0.3	+46.9	--	+47.2
Other	--	--	--	--
Support	--	+20.4	--	+20.4
Subtotal	+0.3	+230.1	--	+230.4
Total Changes	+78.9	+2816.6	--	+2895.5
CE - Cost Variance	569.2	4626.6	--	5195.8
CE - Cost & Funding	569.2	4626.6	--	5195.8

Previous Estimate: December 2010

RDT&E	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	-0.3
Adjustment for current and prior escalation. (Estimating)	+0.3	+0.3
RDT&E Subtotal	+0.3	0.0

Procurement	\$M	
	Base Year	Then Year
Current Change Explanations		
Revised escalation indices. (Economic)	N/A	+19.8
Total Quantity variance resulting from an increase of 389 Guidance Kits from 58867 to 59256 (Navy). (Subtotal)	+7.4	+9.7
Quantity variance resulting from an increase of 389 Guidance Units from 58867 to 59256 (Navy). (Quantity)	(+7.1)	(+9.3)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+0.3)	(+0.4)
Total Quantity variance resulting from an increase of 8612 Guidance Units from 164203 to 172815 (Air Force). (Subtotal)	+164.6	+242.1
Quantity variance resulting from an increase of 8612 Guidance Units from 164203 to 172815 (Air Force). (Quantity)	(+156.3)	(+230.0)
Allocation to Schedule resulting from Quantity change. (Schedule) (QR)	(-0.6)	(-0.9)
Allocation to Estimating resulting from Quantity change. (Estimating) (QR)	(+8.9)	(+13.0)
Acceleration of procurement buy profile (Air Force). (Schedule)	0.0	-10.8
Adjustment for current and prior escalation. (Estimating)	-10.8	-13.2
Additional Quantity variance associated with the increase of 8,612 JDAM Tailkits. (Air Force). (Estimating) (QR)	+1.8	+3.7
Increase for purchase of Laser Sensors (Air Force). (Estimating)	+47.0	+66.2
Decrease due to lower unit price (Navy). (Estimating) (QR)	-0.3	-0.6
Adjustment for current and prior escalation. (Support)	-0.7	-1.1
Increase in Other Support due to higher unit prices for High Data Rate Compact Telemetry and for program extension. (Air Force). (Support)	+21.1	+30.8
Decrease in Other Support (Navy). (Support)	0.0	+0.1
Procurement Subtotal	+230.1	+346.7

(QR) Quantity Related

Contracts

Appropriation: Procurement

Contract Name	JDAM Lot 13
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-09-C-0057, FFP
Award Date	December 05, 2008
Definitization Date	December 05, 2008

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
106.9	N/A	4372	109.8	N/A	4437	109.8	109.8

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

This contract is more than 90% complete; therefore, this is the final report for this contract.

The difference between the initial contract price target and the current contract price target is due to an increase in production incentive and to convert BLU-109 Guidance Kits to MK-84 Guidance Kits for the U.S. Navy.

Appropriation: Procurement

Contract Name	JDAM Lot 14
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-10-C-0072, FFP
Award Date	October 26, 2009
Definitization Date	October 26, 2009

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
72.0	N/A	2925	229.8	N/A	10129	229.8	229.8

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

The difference between the initial contract price target and the current contract price target is due to the purchase of additional Guidance Kits and for production incentive.

Appropriation: Procurement

Contract Name **JDAM Lot 15**
 Contractor Boeing
 Contractor Location St. Louis, MO 63166
 Contract Number, Type FA8681-11-C-0111, FFP
 Award Date January 14, 2011
 Definitization Date January 14, 2011

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
88.0	N/A	3448	204.3	N/A	8528	204.3	204.3

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

The difference between the initial contract price target and the current contract price target is due to calendar year 2011 initial purchase of 3,448 JDAM Guidance Kits and later increased to purchase additional JDAM Guidance Kits.

This is the first time this contract is being reported.

Appropriation: Procurement

Contract Name	JDAM Lot 16
Contractor	Boeing
Contractor Location	St. Louis, MO 63166
Contract Number, Type	FA8681-12-C-0160, FFP
Award Date	November 30, 2011
Definitization Date	November 30, 2011

Initial Contract Price (\$M)			Current Contract Price (\$M)			Estimated Price At Completion (\$M)	
Target	Ceiling	Qty	Target	Ceiling	Qty	Contractor	Program Manager
125.9	N/A	4977	125.9	N/A	4977	125.9	125.9

Cost And Schedule Variance Explanations

Cost and Schedule variance reporting is not required on this FFP contract.

Contract Comments

This is the first time this contract is being reported.

Deliveries and Expenditures

Deliveries To Date	Plan To Date	Actual To Date	Total Quantity	Percent Delivered
Development	804	804	804	100.00%
Production	194524	196820	232071	84.81%
Total Program Quantities Delivered	195328	197624	232875	84.86%

Expenditures and Appropriations (TY \$M)			
Total Acquisition Cost	6204.0	Years Appropriated	20
Expenditures To Date	5052.0	Percent Years Appropriated	80.00%
Percent Expended	81.43%	Appropriated to Date	5573.8
Total Funding Years	25	Percent Appropriated	89.84%

Operating and Support Cost

Assumptions And Ground Rules

Operating and Support (O&S) costs include both Air Force and Navy dollars.

O&S costs were estimated by the JDAM Program Office and reflects the Milestone III Defense Acquisition Board (DAB) program position of March 2001.

The JDAM O&S cost estimate was based on the Joint Munitions O&S (JMOS) Model. This model estimated Air Force and Navy O&S costs for the JDAM tailkits only. Assumptions used in the O&S cost estimate are as follows: The total JDAM inventory used was 88,569 tailkits. The warranty assumed was a 20 year extended repair warranty to cover all tailkit repairs except for government induced failures. In the model, one half of a percent of the total JDAM failures were assumed to be induced out-of-warranty failures. The Milestone III estimate included calculations for 35 years. This was an increase of five years from the previous Milestone estimate. The model also included new assumptions to calculate unwarranted failures for 15 years after the warranty period ended and to include demilitarization costs.

There is no antecedent system for JDAM.

"Other" costs are demilitarization costs.

Costs BY1995 \$K		
Cost Element	JDAM Avg Annual Costs over 20 years	None
Unit-Level Manpower	4.100	--
Unit Operations	--	--
Maintenance	--	--
Sustaining Support	4.700	--
Continuing System Improvements	--	--
Indirect Support	--	--
Other	2.800	--
Total Unitized Cost (Base Year 1995 \$)	11.600	--

Total O&S Costs \$M	JDAM	None
Base Year	0.2	--
Then Year	0.4	--

Total O&S Funding has been updated to reflect the table format in \$M.