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Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

Modernized Selected Acquisition Report (MSAR)

M10 Booker (Booker)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

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Table of Contents

Common DoD Abbreviations	3
Program Description	5
Responsible Office	6
Executive Summary	7
Schedule	9
Performance	10
Acquisition Budget Estimate	15
Unit Costs	17
Life-Cycle Costs	19
Technologies and Systems Engineering	21
Performing Activities and Contracts	22
Production	23
Deliveries and Expenditures	24
International Program Aspects	25

(U) Common DoD Abbreviations

\$B	Billions of Dollars
\$K	Thousands of Dollars
\$M	Millions of Dollars
ACAT	Acquisition Category
Acq O&M	Acquisition-Related Operations and Maintenance
ADM	Acquisition Decision Memorandum
APA	Additional Performance Attribute
APB	Acquisition Program Baseline
APPN	Appropriation
APUC	Average Procurement Unit Cost
BA	Budget Authority or Budget Activity
Blk	Block
BY	Base Year
CAE	Component Acquisition Executive
CAPE	Cost Assessment and Program Evaluation
CARD	Cost Analysis Requirements Description
CCE	Component Cost Estimate
CCP	Component Cost Position
CDD	Capability Development Document
CLIN	Contract Line Item Number
CPD	Capability Production Document
CY	Calendar Year or Constant Year
DAB	Defense Acquisition Board
DAE	Defense Acquisition Executive
DAES	Defense Acquisition Executive Summary
DAVE	Defense Acquisition Visibility Environment
DoD	Department of Defense
DSN	Defense Switched Network
EMD	Engineering and Manufacturing Development
EVM	Earned Value Management
FD	Full Deployment
FDD	Full-Deployment Decision
FMS	Foreign Military Sales
FOC	Full Operational Capability
FRP	Full-Rate Production
FY	Fiscal Year
FYDP	Future Years Defense Program
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
Inc	Increment
IOC	Initial Operational Capability
IT	Information Technology
JROC	Joint Requirements Oversight Council
KPP	Key Performance Parameter
KSA	Key System Attribute

LRIP	Low-Rate Initial Production
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MILCON	Military Construction
N/A	Not Applicable
O	Objective
O&M	Operations and Maintenance
O&S	Operating and Support
ORD	Operational Requirements Document
OSD	Office of the Secretary of Defense
PAUC	Program Acquisition Unit Cost
PB	President's Budget
PE	Program Element
PEO	Program Executive Officer
PM	Program Manager
POE	Program Office Estimate
R&MF	Revolving and Management Funds
RDT&E	Research, Development, Test, and Evaluation
SAR	Selected Acquisition Report
SCP	Service Cost Position
T	Threshold
TBD	To Be Determined
TY	Then Year
U.S.	United States
U.S.C	United States Code
UCR	Unit Cost Reporting
USD(A&S)	Under Secretary of Defense (Acquisition and Sustainment)

(U) Program Description

Full Name M10 Booker	Short Name Booker
PNO 738	Decision Authority Component Acquisition Executive
Lead Component Department of the Army	Program Executive Office PEO Ground Combat Systems (GCS)
Joint Program No	Acquisition Type Major Defense Acquisition Program
Adaptive Acquisition Pathway Major Capability Acquisition	Acquired Systems Booker
Acquisition Category IB	
Acquisition Status Active Acquisition	

Mission

The M10 Booker (Booker) system is a U.S. Army program to procure a light armored vehicle that is capable of providing Infantry Brigades a protected, long range, precision direct fire capability to neutralize enemy prepared positions and bunkers and defeat heavy machine guns and armored vehicle threats during offensive operations or when conducting defensive operations. On September 25, 2018, the Army Acquisition Executive (AAE) approved the use of Middle Tier Acquisition (MTA) authorities to execute MPF Rapid Prototyping. On June 24, 2022, the Army Acquisition Executive (AAE) approved both an MTA Outcome Determination (OD) that transitioned MPF to the Adaptive Acquisition Framework (AAF) Major Capability Acquisition (MCA) pathway as an Acquisition Category (ACAT) 1B Program, as well as the MPF Milestone C (MS C) and entry into LRIP. On June 28, 2022, General Dynamics Land Systems (GDLS) was awarded the MPF LRIP contract. The Mobile Protected Firepower vehicle was renamed the M10 Booker during the Army's 248th Birthday Celebration on June 10th, 2023. On June 26, 2023, General Dynamics Land Systems (GDLS) was awarded the M10 Booker LRIP 2 contract.

(U) Responsible Office**Program Executive Officer**

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(U) Executive Summary

Program Highlights Since Last Report

On September 25, 2018, the Army Acquisition Executive (AAE) approved the use of Middle Tier Acquisition (MTA) authorities to execute Mobile Protected Firepower (MPF) Rapid Prototyping (RP). On June 24, 2022, the Army Acquisition Executive (AAE) approved both an MTA Outcome Determination (OD) that transitioned MPF to the Adaptive Acquisition Framework (AAF) Major Capability Acquisition (MCA) pathway as an Acquisition Category (ACAT) 1B Program, as well as the MPF Milestone C (MS C) and entry into LRIP. On June 28, 2022, General Dynamics Land Systems (GDLS) was awarded the MPF LRIP contract. On June 15, 2023, the AAE approved the LRIP 2 production decision. During the Army's 248th Birthday Celebration, the Mobile Protected Firepower vehicle was officially named the M10 Booker vehicle. The Booker continues to execute within its threshold Milestone C Acquisition Program Baseline (APB). The current cost estimate reflects the PB25 budget position. The "LRIP Initial Delivery (Start)" and the "Live Fire Test & Evaluation (FUSL) (Start)" Milestones occurred in 2QFY24, as identified in the APB. Performance risks identified during MTA-RP have shown significant improvement from LRIP vehicle redesign and retesting. All KPPs are expected to meet performance requirements outlined in the Capabilities Development Document and cited in the APB at the conclusion of IOT&E testing.

Program total RDTE and Procurement funded quantities delivered to date are 26 of 377 vehicles, or 6.9% delivered. Program funding appropriated to date is \$2,153.17 (\$M), making the program 27.9% appropriated. Program funding expended to date is \$916.26 (\$M), making the program 11.9% expended.

The Defense Cost and Resource Center (DCARC) Cost and Software Data Reporting (CSDR) Compliance Rating is currently "RED". M10 Booker DCARC rating is currently red due to the overdue (previously rejected) CSDR submission. Program Office is working with Prime Contractor to correct issues in rejected report.

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

PB25 funding is adequate to meet cost, schedule, and performance objectives. The PM recommends certifying the 2023 MSAR.

(U) History of Significant Developments Since Program Inception

Date	Description
March 2024	Live Fire Test & Evaluation Start
February 2024	LRIP Initial Delivery
September 2023	Program Management Review II conducted in Lima, OH with General Dynamics Land Systems.
June 2023	Mobile Protected Firepower name changed to M10 Booker
June 2023	LRIP II Decision Approved
March 2023	Program Management Review conducted at Anniston Army Depot with General Dynamics Land Systems.
August 2022	Acquisition Program Baseline Approved
June 2022	Milestone C ASARC

Date	Description
June 2022	Milestone C Army Cost Position Approved
June 2022	Booker Designated ACAT IB
June 2022	Capability Development Document- Update Approved
June 2022	Low-Rate Initial Production Contract Award to General Dynamics Land Systems
January 2022	Pre-production Prove-out Test Completion
November 2021	LRIP RFP Release
October 2021	Limited User Test (LUT) Completion
September 2021	Soldier Vehicle Assessment (SVA) Completion
June 2020	Initial Prototype Delivery
December 2018	Rapid Prototyping Contracts Awarded
September 2018	Middle Tier of Acquisition-Rapid Prototyping Authorization
June 2018	Capability Development Document Approved
November 2017	MTA-RP RFP Release
September 2017	Analysis of Alternatives (AoA) Completed
October 2016	Materiel Development Decision (MDD)
February 2016	Designated a New Start program in the FY17 President's Budget Submission
December 2015	Initial Capabilities Development approval by the Joint Req. Oversight Council

(U) Schedule**(U) Schedule Events**

Events		Production APB (Milestone) 8/26/2022 Objective	Production APB (Current) 8/26/2022 Objective / Threshold		Current Estimate 12/31/2023	Actual
Milestone C Low-Rate Initial Production (LRIP) Decision						
Low-Rate Initial Production Decision(Start)	LRIP Decision	Jun 2022	Jun 2022	Jun 2022	-	24 Jun 2022
LRIP Initial Delivery(Start)	1st Unit	Nov 2023	Nov 2023	May 2024	-	29 Feb 2024
Live Fire Test & Evaluation (FUSL) (Start)	LFT&E	Dec 2023	Dec 2023	Jun 2024	-	11 Mar 2024
Initial Operational Test & Evaluation(Start)	OT&E	Aug 2024	Aug 2024	Feb 2025	Jul 2024	-
Milestone C Full-Rate Production Decision(Start)	FRP Decision	Mar 2025	Mar 2025	Sept 2025	Mar 2025	-
First Unit Equipped(Start)	FUE	Aug 2025	Aug 2025	Feb 2026	Sept 2025	-
Initial Operational Capability(Start)	IOC	Sept 2027	Sept 2027	Mar 2028	Sept 2027	-

Notes

If Prime Contractor experiences significant delays to production material, planned timelines for live fire & performance testing, and log products completion, then there may be potential delays to the start of IOT&E and increased risk to the Full Rate Production decision date.

Schedule Baseline Deviation Explanation

None

(U) Current Significant Schedule Risks and Risks Identified at Milestones/Decisions

None

(U) Performance

(U) Performance Attributes

7 Protection		
7.1 Prevent 7.1.1 Prevent Kinetic Attack 7.2 Mitigate 7.2.1 Mitigate Lethal Effects		
KPP 1 Force Protection		KPP
Current Estimate 12/31/2023	Initial analysis indicates that the program will meet the threshold.	
Demonstrated Performance -	-	
Production APB (Current) 8/26/2022	Objective	MPF should be capable of protecting the crew from Explosive Formed Penetrators (EFPs), chemical energy (CE) threats and integrating VPS through the use the Army's Modular Active Protection System (MAPS) soft-kill program currently in development.
	Threshold	MPF shall protect the crew from small arms, heavy machine gun, overhead artillery, underbelly mine, side IED, and kinetic energy (KE) threats. It will protect the crew from serious or greater injuries due to onboard fires, various blasts, shock, overpressure, fragments, spall, and accelerated effects of attack by the specified threats. MPF shall extinguish fires in the crew compartment with an automatic fire suppression system.
Production APB (Milestone) 8/26/2022	Objective	MPF should be capable of protecting the crew from Explosive Formed Penetrators (EFPs), chemical energy (CE) threats and integrating VPS through the use the Army's Modular Active Protection System (MAPS) soft-kill program currently in development.
KPP 2 System Survivability (Kinetic)		KPP
Current Estimate 12/31/2023	Initial analysis indicates that the program will meet the threshold.	
Demonstrated Performance -	-	
Production APB (Current) 8/26/2022	Objective	MPF will survive against the objective threats outlined in the classified annex.
	Threshold	MPF shall survive against designated threat weapon systems, outlined in the classified annex, on the contemporary battlefield while maintaining its ability to perform its primary mission, to include in the degraded mode (defined as anything less than full operational capability) during a single mission, when attacked by any of the defined threats. MPF shall extinguish fires in the engine compartment with an automatic fire suppression system. MPF shall incorporate thermal and visual signature management capabilities. The MPF is designated CBRN Mission Critical IAW DoDI 3150.09. The MPF shall ensure that CBRN contaminants can effectively be removed using standard decontamination processes. The MPF shall withstand High Altitude Electromagnetic Pulse (HEMP); it is not expected to

		survive exposure to other initial nuclear effects (i.e. blast, thermal, etc.). Accomplishment of the mission requires the ability to shoot, move and communicate with no more than one full vehicle reboot. Non-mission essential GFE and MEP equipment are exempt.
Production APB (Milestone) 8/26/2022	Objective	MPF will survive against the objective threats outlined in the classified annex.
KPP 2 System Survivability (Cyber)		KPP
Current Estimate 12/31/2023		Initial analysis indicates that the program will meet the threshold.
Demonstrated Performance -		-
Production APB (Current) 8/26/2022	Objective	MPF will survive against the objective threats outlined in the classified annex.
	Threshold	MPF shall seek to employ safeguards on software updates and leverage built-in test to inform operators of potentially malicious cyber activity to aid in prevention, mitigation, and recovery from cyber-attacks (deny, degrade, and destroy cyber systems as well as exploitation of data). To the extent possible, and toward future growth, the MPF shall seek the capacity to authenticate messaging across internal data links/interchange(s). To the extent possible, the MPF shall check for anomalous activity on interchanges and seek ways to segregate sub-system functions if anomalous activity is detected. MPF must be able to perform critical mission functions and operate fully mission capable with a degraded or no network connection. MPF shall meet assessment and authorization requirements per DoDI 8500-Series (RMF), 5200.44, and 5200.39; and use NSA-approved crypto for wireless communications. MPF's prevent, mitigate, and recover capabilities must be capable of withstanding ATT 3-level cyber-attack TTPs.
Production APB (Milestone) 8/26/2022	Objective	MPF will survive against the objective threats outlined in the classified annex.
6. Net-Centric		
6.1 Information Transport 6.1.1 Wired Transmission 6.1.2 Wireless Transmission 6.2 Enterprise Services 6.2.1 Information Sharing/Computing		
KPP 3 Net Ready		KPP
Current Estimate 12/31/2023		KPP Met.
Demonstrated Performance 12/30/2021		KPP demonstrated during MTA-RP testing.
Production APB (Current)	Objective	Sufficient SWaP-C to facilitate integration of network technologies currently found on

8/26/2022		existing Infantry Brigade vehicles.
	Threshold	Sufficient SWaP-C to facilitate integration of network technologies currently found on existing Infantry Brigade vehicles.
Production APB (Milestone) 8/26/2022	Objective	Sufficient SWaP-C to facilitate integration of network technologies currently found on existing Infantry Brigade vehicles.
1. Force Support		
1.2 Force Preparation		
KPP 5 Training		KPP
Current Estimate 12/31/2023		Initial analysis indicates that the program will meet the threshold.
Demonstrated Performance -		-
Production APB (Current) 8/26/2022	Objective	95% critical tasks
	Threshold	Accomplish 80% or greater of the critical tasks required to operate and maintain MPF.
Production APB (Milestone) 8/26/2022	Objective	95% critical tasks
4. Logistics		
4.1 Deployment and Distribution 4.1.2 Sustain the Force 4.3 Maintain 4.3.1 Inspect 4.3.2 Test 4.3.3 Service		
KPP 4 Sustainment (Operational Availability (Ao))		KPP
Current Estimate 12/31/2023		Initial analysis indicates that the program will meet the threshold.
Demonstrated Performance -		-
Production APB (Current) 8/26/2022	Objective	An MPF shall have an Ao of 96% when measured continuously across the 30 day scenario in the MPF OMS/MP (Seize Initiative, Dominate, Stability phases)
	Threshold	The MPF must provide a 90% Operational Readiness (OR) Rate. The MPF shall have an Ao sufficient to maintain at least 8 of 14 (57%) MPF in a company available at least 90% of the time measured across the Seize Initiative Phase of the OMS/MP (72 hours).
Production APB (Milestone) 8/26/2022	Objective	An MPF shall have an Ao of 96% when measured continuously across the 30 day scenario in the MPF OMS/MP (Seize Initiative, Dominate, Stability phases)
KPP 4 Sustainment (Materiel Availability (Am))		KPP
Current Estimate 12/31/2023		Initial analysis indicates that the program will meet the threshold.
Demonstrated Performance -		-
Production APB	Objective	85.1%

(Current) 8/26/2022		
	Threshold	The MPF over a 26-year life cycle shall average a Material Availability (Am) of 76.7%.
Production APB (Milestone) 8/26/2022	Objective	85.1%
4.1 Deployment and Distribution 4.1.2 Sustain the Force 4.2 Supply 4.2.1 Manage supplies and equipment		
KPP 6 Energy		KPP
Current Estimate 12/31/2023		Initial analysis indicates that the program will meet the threshold.
Demonstrated Performance -		-
Production APB (Current) 8/26/2022	Objective	The MPF, using standard Army fuel, shall be capable of completing the 72-hour mission cycle identified in the MPF OMS/MP without refueling.
	Threshold	The MPF, using standard Army fuel, shall be capable of completing the 72-hour mission cycle identified in the MPF OMS/MP without refueling.
Production APB (Milestone) 8/26/2022	Objective	The MPF, using standard Army fuel, shall be capable of completing the 72-hour mission cycle identified in the MPF OMS/MP without refueling.
3. Force Application		
3.1 Force Application/ Maneuver 3.1.1 Kinetic Means		
KPP 7 Lethality		KPP
Current Estimate 12/31/2023		Initial analysis indicates that the program will meet the threshold.
Demonstrated Performance -		-
Production APB (Current) 8/26/2022	Objective	Total ammunition shall be no less than 28 rounds, should be capable of integrating anti-tank guided missile (ATGM) and defeat objective threats outlined in the classified annex.
	Threshold	Utilizing ammunition available in the DoD inventory, the MPF's main gun shall apply precise, lethal, long-range fire, capable of neutralizing a bunker, conducting a wall breach and defeating light armor and 2nd tier main battle tank equivalent armor while on the move, in day, night, and all weather conditions. The system will provide the capability to fire the second and subsequent rounds in no more than seven seconds. The system shall provide electrical and manual safe/arm, provide electrical/mechanical firing, enable the crew to perform misfire procedures, and load/unload/reload the main weapon. MPF shall defeat threats identified in the classified annex during the 72-hr Seize phase without re-boresighting the system. MPF shall be capable of identifying, tracking, and engaging threats in a degraded mode (no electrical power). MPF shall have ammunition sufficient to defeat all threats IAW the 72-hr

		Seize phase in the MPF OMS/MP.
Production APB (Milestone) 8/26/2022	Objective	Total ammunition shall be no less than 28 rounds, should be capable of integrating anti-tank guided missile (ATGM) and defeat objective threats outlined in the classified annex.

(U) Requirement Source:

Sponsor(s): United States Army

1. Capability Development Document, *MPF Capability Development Document Update (CDD-U)*
Validated By: Joint Requirements Oversight Council, June 24, 2022
Notes: The MPF CDD-U contains classified information. Key Performance Parameters 2 and 7 in the Performance Attributes section below contain information that needs to be input into SIPR DAVE. The SIPR DAVE system is expected to be ready for input in late 1QFY23.

Notes

The Booker CDD-U contains classified information. Key Performance Parameters 2 and 7 in the Performance Attributes section below contain information that must be input into SIPR DAVE. The SIPR DAVE system was anticipated in late 1QFY23. Awaiting further guidance on when this system will be ready for DAES/ MSAR use.

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate**(U) Total Acquisition Estimates and Quantities**

Category (\$M) Base Year: 2022	Production APB (Milestone) 8/26/2022 CY\$ obs Objective	Production APB (Current) 8/26/2022 CY\$ obs Objective / Threshold		Current Estimate PB 2025 CY\$ obs / TY\$ obs	
	RDT&E	1,185.4	1,185.4	1,303.9	1,184.7
Procurement	4,555.5	4,555.5	5,011.0	4,620.6	5,635.4
MILCON	576.9	576.9	634.6	576.9	688.8
O&M	167.4	167.4	184.2	171.6	235.1
Total Acquisition	6,485.2	6,485.2	-	6,553.8	7,713.1
Program Acquisition Unit Cost	17.202	17.202	18.922	17.384	20.459
Average Procurement Unit Cost	13.016	13.016	14.317	13.202	16.101
Program End-Item Quantity					
Development	27	27		27	
Procurement	350	350		350	
O&M-Acquired	-	-		-	

Budget Notes

Current APB Cost Estimate Reference: Booker MS C Army Cost Position (ACP) signed June 7, 2022. The Booker Army Cost Position (ACP) scope reflects a quantity of 350 vehicles in the Army Procurement Objective vs. the full quantity of 504 vehicles in the Army Acquisition Objective. The Booker Total Life Cycle Cost includes sunk costs incurred to complete Booker Middle Tier Acquisition and Rapid Prototyping (MTA-RP) effort. Total Booker MTA-RP costs, in Then-Year dollars, were \$854.2M RDT&E and \$18.7M Acq O&M. Total Booker MTA-RP costs, in Base-Year 2022 dollars, were \$891.4M RDT&E and \$19.3M Acq OMA.

Quantity Notes

RDTE funded vehicles:

12 Bookers from each MTA-RP phase vendor x 2 vendors = 24 Bookers.

3 production Bookers for LRIP phase Full-Up System Level (FUSL) live fire testing.

Procurement funded vehicle:

APO Qty of 350 Vehicles:

4 Active Army Divisions (42 Bookers x 4 Battalions) = 168 vehicles.

2 National Guard Divisions (42 Bookers x 2 Battalions) = 84 vehicles.

1 Army Prepositioned Stock set 42 vehicles.

Institutional Training, Training and Doctrine Command (TRADOC) = 28 vehicles.

Repair Cycle Float = 28 vehicles.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)
None
Current Baseline Risks (8/26/2022)
The Risk and Sensitivity Analysis is uploaded in the AIR system under Milestone C Army Cost Position Cost Analysis Brief, dated 7 June 2022.
Original Baseline Risks (8/26/2022)
The Risk and Sensitivity Analysis is uploaded in the AIR system under Milestone C Army Cost Position Cost Analysis Brief, dated 7 June 2022.

(U) Unit Costs**(U) Current Estimate Compared with Current Baseline**

Category (CY\$M) Base Year: 2022	Current Baseline 08/26/2022	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	6,485.2	6,553.8	
Program Quantity	377	377	
PAUC	17.202	17.384	1.06%
Average Procurement Unit Cost			
Procurement Cost	4,555.5	4,620.6	
Procurement Quantity	350	350	
APUC	13.016	13.202	1.43%

(U) Current Estimate Compared with Original Baseline

Category (CY\$M) Base Year: 2022	Original Baseline 08/26/2022	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	6,485.2	6,553.8	
Program Quantity	377	377	
PAUC	17.202	17.384	1.06%
Average Procurement Unit Cost			
Procurement Cost	4,555.5	4,620.6	
Procurement Quantity	350	350	
APUC	13.016	13.202	1.43%

(U) Cost Growth Details**Impacts of Schedule Changes on Unit Cost**

The current cost estimate is below the APB threshold estimate. There are no milestone schedule slips as of April 1, 2024.

Impacts of Performance Changes on Unit Cost

N/A

Actions taken or Proposed to Control Future Cost Growth

Booker LRIP is being executed through a Fixed Price Incentive Fee contract type to control costs during LRIP, cap the government's exposure to cost growth during LRIP, and incentivize the contractor to implement production efficiencies during LRIP to reduce Booker production costs in follow-on contracts.

Status of Each Major Contract and Significant Factors Contributing to Cost and Schedule Variance; Projected Effects on Future Program Costs

See Contracts section.

Notes

Cost update aligns to PB25 funding. Unit cost increased above the original estimate due to reduced WTCV funding, which forced the program to extend procurement and fielding by three years. This pushes out annual recurring costs and increases costs due to reduced vehicle quantity "rate" impacts.

Booker APO quantity = 350 vehicles

Booker AAO quantity = 504 vehicles

(U) Life-Cycle Costs**(U) Operating and Support and Disposal Cost Estimates Compared with Baseline**

Category (\$M) Base Year: 2022	Production APB (Milestone) 8/26/2022 CY\$ obs Objective	Production APB (Current) 8/26/2022 CY\$ obs Objective / Threshold		Current Estimate CY\$ obs / TY\$ obs	
Total O&S	8,859.3	8,859.3	9,745.3	8,569.4	15,345.3
Total Disposal	12.6	12.6	-	13.0	30.9

(U) Current Cost Estimate Sources**Operating and Support Cost**

Type: Component Cost Position

Approved by: Caral E. Spangler, June 07, 2022

Note: Ms. Caral E. Spangler, ASA(FM&C)

Disposal/Demilitarization Cost

Type: Component Cost Position

Approved by: Caral E. Spangler, June 07, 2022

Note: Ms. Caral E. Spangler, ASA(FM&C)

Operating and Support Baseline Deviation Explanation

None

Cost Notes

Total Cost remains consistent with the Milestone C APB Objective values.

Total Cost = # of systems x service life per system x average annual cost.

APB Base Year Objective = \$8,859.3 = 350 x 30 x \$0.844 (BY 2022 \$M)

(U) Operating and Support Variance with Prior Estimate

(CY\$M) Base Year: 2022	Estimate	
Prior Estimate (6/7/2022)	8,859.3	
Current Estimate	8,569.4	
Category		
	Variance	Explanation
Unit-Level Manpower	-63.3	Cost reduction is based on COMPO realignment of the final two company sets of equipment post-overhaul.
Unit Operations	-11.2	Cost reduction is based on COMPO realignment of the final two company sets of equipment post-overhaul.

(CY\$M) Base Year: 2022	Estimate	
Maintenance	-10.5	Cost reduction is based on COMPO realignment of the final two company sets of equipment post-overhaul.
Sustaining Support	95.4	For the Sustaining Support costs, the "increase" was due to the realignment of costs from the year of the first DEMIL to the last DEMIL as being Acq. OMA to Sustainment OMA.
Continuing System Improvements	-300.3	Reassessment of the estimated annual cost for software maintenance lowered the cost for Continuing System Improvements.
Other	0.0	
Not Categorized	0.0	

(U) Operating and Support Cost Element Structure Estimates by Acquired System

(CY\$M) Base Year: 2022							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
Booker	3,444.7	2,068.6	1,917.9	496.8	641.4	-	8,569.4
Program	3,444.7	2,068.6	1,917.9	496.8	641.4	-	8,569.4

(U) Annual Operating and Support Costs per Unit Compared with Antecedent System

No Data

(U) Operating and Support Cost Estimate Assumptions

No Data

Additional O&S Estimate Assumptions

N/A

Antecedent Estimate Assumptions

There is no antecedent system.

O&S Annual Cost Calculation Memo

Type of estimate: Milestone C Army Cost Position
Approval Authority: Ms. Caral E. Spangler, ASA(FM&C)
Approval Date: June 7, 2022

(U) Technologies and Systems Engineering

(U) Current Significant Technical Risks and Risks Identified at Milestones/Decisions

Event	Date	Description
Other	6/15/2023	Booker LRIP II ADM: No risks identified, ADM marked CUI, uploaded into PMRT AIR
MS C	6/24/2022	Booker MS C and LRIP ADM: Risks sufficiently addressed through vehicle modifications and testing, ADM marked CUI, uploaded into PMRT AIR

(U) Performing Activities and Contracts**(U) External Government Activities**

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
Booker MTA/EMD, LRIP, and STS Contract	W56HZV-19-C-0036 / N/A	General Dynamics Land Systems	Production

(U) Contract and Effort Identification, Price, Quantity and Performance

Contract Number:	W56HZV-19-C-0036	Order Number:	N/A
Contract Title:	Booker MTA/EMD, LRIP, and STS Contract	Strategy:	FAR 15: Negotiated Contracts
CAGE:	7W356 - General Dynamics Land Systems	Contracting Office:	ACC-DTA 6501 E. 11 Mile Road Detroit Arsenal, MI 48397-5000
City, State/Province:	Sterling Heights, MI		
Effort Number:	N/A	Supported Phase:	Production
Type:	Cost Plus Incentive Fee (Cost Based)	Award Date:	December 17, 2018
Latest Modification Date:	February 29, 2024	Definitization Date:	December 17, 2018
Latest Modification No.:	P00096	Work Start Date:	December 17, 2018
Technical Data Rights:	None		
Notes:	The Middle Tier of Acquisition- Rapid Prototyping (MTA-RP) portion of this contract preceded the current LRIP phase of the program. General Dynamics Land Systems Inc. was awarded an incrementally funded, Fixed Price Incentive Fee (Cost Based) and Firm Fixed Price contract (W56HZV-19-C-0036) with options, for the Booker program. Work will be performed in Sterling Heights, MI; Lima, OH; and Anniston, AL; with an estimated completion date of October 2026.		

Initial Price (TY\$M) Target / Ceiling		Current Price (TY\$M) Target / Ceiling		Est. Price at Completion (TY\$M) Contractor / PM	Initial Quantity	Current Quantity	Delivered Quantity	
660.5	689.4	999.9	1,055.7	-	1,029.9	25	52	2

(U) Production**(U) Low-Rate Initial Production**

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	26	54
Date	6/24/2022	6/15/2023
Reference	LRIP 1 ADM	LRIP 2 ADM
LRIP Period	FY 2022 - 2022	FY 2023 - 2023
Total Procurement Quantity	350	350
LRIP Percentage of Total	7.4%	15.4%

Rationale if LRIP Quantity Exceeds 10% of Total Procurement Quantity (Current Determination)

During LRIP, the Booker program will procure up to a total of 96 vehicles (19% of the Booker AAO) over three LRIP lot buys between FY22 and FY24. This three-year LRIP strategy provides the Army with several means to significantly reduce program cost and schedule risk. The three-year LRIP will ensure LRIP 1 actual costs (obtained through contractor cost reporting) are available to inform FRP contract negotiations. The three-year LRIP also provides the Army with flexibility to alter LRIP production activities to mitigate the likelihood of a production break between LRIP and FRP in the event of a delay to the FY25 FRP decision. The three-year LRIP will also ensure an orderly ramp-up to planned FRP levels. The Booker LRIP 1 lot will support performance, Live Fire, and Initial Operational Test and Evaluation (IOT&E) testing and provide vehicles for FUE. The LRIP 2 and LRIP 3 production lots will deliver systems to complete fielding of the initial Booker battalion, support fielding of a second Booker battalion, and provide a company set to TRADOC for institutional training.

LRIP Notes

The Booker program does not require advance procurement funds for the LRIP option awards or STS efforts.

(U) Deliveries and Expenditures**(U) Acquisition Funding**

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	-	8	-
Appropriations (TY, \$M)	7,713.1	2,153.2	27.9%
Expenditures (TY, \$M)	7,713.1	916.3	11.9%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Development	27			
Booker		27	24	
Procurement	350			
Booker		2	2	
Total	377	29	26	6.9%

Notes

The above data is current as of April 1, 2024.

(U) International Program Aspects

General Memo

N/A

Exportability and Business Issues

N/A

Is design for international exportability planned?	No	Industry/Partner Exportability Cost-Sharing?	No
If not, has the MDA approved an exportability waiver for a U.S.-only design?	Not Applicable		

Program Protection: Technology Security and Foreign Disclosure Issues

N/A

(U) Agreements

No International Agreements have been defined for Booker



UNCLASSIFIED

Modernized Selected Acquisition Report Supplement

M10 Booker (Booker)

FY 2025 President's Budget
Effective: December 31, 2023

UNCLASSIFIED

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name
M10 Booker

Short Name
Booker

PNO
738

Lead Component
Army

AAF Pathway
MCA

Acquisition Type
MDAP

Acquired Systems
Booker

Related Programs

Full Name	PNO	Pathway	Type	ACAT/ BCAT	Acquisition Status	Costs in SAR?	
						Acq	O&S

Program Use of the Adaptive Acquisition Framework

Infantry Brigades lack the mobile, protected firepower capability necessary to defeat enemy prepared positions, destroy enemy armored vehicles, close with the enemy through fire and maneuver, and ensure freedom of maneuver and action in close contact with the enemy. The M10 Booker (formerly, Mobile Protected Firepower (MPF)) will provide the protected, long range, precision direct-fire capability to ensure freedom of movement during offensive operations and defeat attacking enemy during defensive operations.

The Mobile Protected Firepower (MPF) RFP was issued on November 21, 2017 as a full and open, best value competitive action. On September 25, 2018, the Army Acquisition Executive (AAE) approved the execution of MPF Rapid Prototyping activities under Section 804 of the 2016 National Defense Authorization Act (NDAA) (Public Law 114-92), Middle Tier Acquisition (Rapid Prototyping). The competitive selection process for MPF Rapid Prototyping contracts included the evaluation of written proposals and optional bid samples to provide additional substantiating data for Source Selection Evaluation. On December 17, 2018, two MPF Rapid Prototyping contracts were awarded, one to BAE Systems and the other to General Dynamics Land Systems (GDLS). On June 24, 2022, the Army Acquisition Executive (AAE) approved both an MTA Outcome Determination (OD) that transitioned MPF to the Adaptive Acquisition Framework (AAF) Major Capability Acquisition (MCA) pathway as an Acquisition Category (ACAT) 1B Program, as well as the MPF Milestone C (MS C) and entry into LRIP. On June 28, 2022, General Dynamics Land Systems (GDLS) was awarded the MPF LRIP contract. The Mobile Protected Firepower vehicle was renamed the M10 Booker during the Army's 248th Birthday Celebration on June 10, 2023. On June 26, 2023, General Dynamics Land Systems (GDLS) was awarded the M10 Booker LRIP 2 contract. An M10 Booker Full Rate Production (FRP) decision is targeted for 3rd Quarter, FY 2025.

Technologies and Systems Engineering

M10 Booker

Major Software Efforts

Title	Status	Fielding Date	Description
M10 Booker Vehicle Software	Development	Sep 2025	Software package developed for the M10 Booker vehicle which provides the necessary functionality to deliver the required system capabilities.

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
N/A			The intent of Booker is to use Non-Developmental Item (NDI) material solutions. Therefore, other than integration, all capabilities are tested, proven, and assessed at a TRL level of eight or higher.

Funding Sources (Acquisition)

Acquisition Funding Notes

RDTE Funding: FY 2022 funding completed M10 Booker Rapid Prototyping, executed the Low Rate Initial Production (LRIP) source selection, and awarded LRIP phase contracts to continue logistics products development and procure long lead spares for Performance Qualification Test (PQT) and Initial Operational Test & Evaluation (IOT&E). FY 2023 funding continued M10 Booker logistics products development, initiated PQT, performed Modeling and Simulation (M&S) to aid in demonstrating system ballistic resiliency and survivability, and initiated efforts enabling integration of the Combat Vehicle Tactical Engagement Simulation System (CVTESS) and Crew Modular Unit Recorder (CMUR) training devices into the M10 Booker. FY 2024 funding will continue LRIP phase logistics products development and contractor technical support to testing. FY 2024 will also exhibit training device contract awards for the development of the Hands on Trainer (HOT), Diagnostic Troubleshooting Trainer (DTT) and Part Task Trainer (PTT), award of the prototype contract for the Advanced Gunnery Training System (AGTS), and the execution of PQT and IOT&E.

WTCV Funding: FY 2022 funding supported the production of Low Rate Initial Production (LRIP) Booker systems, the purchase of Initial Spares and Special Tools, and initial System Technical Support (STS) efforts. FY2023 funding supports the continued production of LRIP vehicles and STS efforts. FY2024 funding will support the continued production of LRIP vehicles, STS efforts, and procurement of Training Aids, Devices, Simulators, and Simulations (TADSS), and other associated activities.

M10 Booker

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	2040A	05	0604645A - Armored Systems Modernization (ASM) - Eng Dev	0604645A	EV8 - Mobile Protected Firepower		
Procurement	2033A	01	7181G80820 - M10 BOOKER	0211700A	-		

Funding Sources (Operating and Support)

Note: Budget lines fund activities executed by the Program Office or Sustainment Office.

Operating and Support Funding Notes

Sustainment funding will be required as Booker assets are fielded and added to the operational inventory.

M10 Booker

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
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Acquisition Estimate and Quantity Summary

M10 Booker

Acquisition Estimates

Category	PB 2025	TY (\$M)	Current Base Year	Original Base Year	Report Fiscal Year
			CY2022 (\$M)	CY2022 (\$M)	CY2024 (\$M)
RDT&E		1,153.8	1,184.7	1,184.7	1,271.4
Procurement		5,635.4	4,620.6	4,620.6	4,958.8
MILCON		688.8	576.9	576.9	619.2
O&M		235.1	171.6	171.6	184.1
Total Acquisition		7,713.1	6,553.8	6,553.8	7,033.4
PAUC		20.459	17.384	17.384	18.656
APUC		16.101	13.202	13.202	14.168

Acquisition End-Item Quantities

System	PB 2025	Development	Procurement
Booker		27	350
Total		27	350

Unit Description

A unit is one Booker M10 armored fighting vehicle.

Current and Future Years Defense Program Summary, TY(\$M)

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	986.5	102.2	48.1	17.0	-	-	-	-	1,153.8
Procurement	636.7	394.6	460.6	502.0	487.6	490.5	500.2	2,163.2	5,635.4
MILCON	69.7	108.1	136.1	138.3	113.1	71.3	36.0	16.1	688.8
O&M	27.2	7.8	8.2	7.9	8.1	8.2	8.4	159.4	235.1
PB 2025 Total	1,720.0	612.7	653.0	665.3	608.8	570.0	544.6	2,338.7	7,713.1

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

M10 Booker

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2040A - Research, Development, Test & Eval, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total		1,153.8	1,153.8	-	1,184.7
2017		11.006	11.0	0.886286	12.4
2018		40.214	40.2	0.902324	44.6
2019		358.910	358.9	0.917153	391.3
2020		273.231	273.2	0.946807	288.6
2021		123.992	124.0	0.986642	125.7
2022		118.296	118.3	1.032146	114.6
2023		60.827	60.8	1.072972	56.7
2024		102.201	102.2	1.098387	93.0
2025		48.097	48.1	1.121874	42.9
2026		17.033	17.0	1.145433	14.9

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

M10 Booker

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2033A - Procurement of W&TCV, Army									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total	4,406.2	454.0	31.8	114.8	4.9	623.7	5,635.4	-	4,620.6
2017							-	0.896386	-
2018							-	0.916821	-
2019							-	0.946453	-
2020							-	0.987752	-
2021							-	1.033641	-
2022	233.498	36.419	13.591	3.325	-	0.144	287.0	1.069559	268.3
2023	299.316	23.716	6.306	5.292	-	15.090	349.7	1.099374	318.1
2024	320.614	23.451	1.205	17.235	-	32.130	394.6	1.123095	351.4
2025	363.698	31.571	1.227	18.332	-	45.809	460.6	1.146727	401.7
2026	387.853	32.848	1.158	16.656	1.175	62.322	502.0	1.170808	428.8
2027	363.803	33.987	1.086	11.454	1.212	76.068	487.6	1.195395	407.9
2028	387.357	37.461	1.156	11.820	2.502	50.170	490.5	1.220499	401.9
2029	405.359	38.240	1.210	12.000	-	43.361	500.2	1.246129	401.4
2030	415.372	39.388	1.240	6.153	-	43.594	505.7	1.272298	397.5
2031	423.798	40.443	1.265	12.565	-	44.185	522.3	1.299016	402.0
2032	432.434	41.440	1.291	-	-	42.093	517.3	1.326295	390.0
2033	373.135	37.028	1.114	-	-	45.355	456.6	1.354148	337.2
2034	-	16.525	-	-	-	40.842	57.4	1.382585	41.5
2035	-	12.734	-	-	-	41.700	54.4	1.411619	38.6
2036	-	8.726	-	-	-	40.796	49.5	1.441263	34.4

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

M10 Booker

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2050A - Military Construction, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total		688.8	688.8	-	576.9
2017			-	0.923806	-
2018			-	0.949691	-
2019			-	0.979944	-
2020		-	-	1.027838	-
2021		-	-	1.071482	-
2022		3.635	3.6	1.101919	3.3
2023		66.052	66.1	1.126671	58.6
2024		108.133	108.1	1.150689	94.0
2025		136.099	136.1	1.174878	115.8
2026		138.330	138.3	1.199550	115.3
2027		113.147	113.1	1.224741	92.4
2028		71.263	71.3	1.250460	57.0
2029		35.988	36.0	1.276720	28.2
2030		13.488	13.5	1.303531	10.3
2031		2.637	2.6	1.330905	2.0

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

M10 Booker

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2020A - Operation & Maintenance, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
Total		235.1	235.1	-	171.6
2017		-	-	0.874607	-
2018		-	-	0.892139	-
2019		4.168	4.2	0.912436	4.6
2020		4.282	4.3	0.937424	4.6
2021		4.492	4.5	0.983279	4.6
2022		6.805	6.8	1.031990	6.6
2023		7.415	7.4	1.069149	6.9
2024		7.780	7.8	1.094381	7.1
2025		8.151	8.2	1.117750	7.3
2026		7.913	7.9	1.141222	6.9
2027		8.079	8.1	1.165188	6.9
2028		8.244	8.2	1.189657	6.9
2029		8.417	8.4	1.214640	6.9
2030		8.594	8.6	1.240147	6.9
2031		8.775	8.8	1.266190	6.9
2032		8.959	9.0	1.292780	6.9
2033		9.147	9.1	1.319929	6.9
2034		9.339	9.3	1.347647	6.9
2035		7.155	7.2	1.375948	5.2
2036		4.861	4.9	1.404843	3.5
2037		4.446	4.4	1.434344	3.1
2038		4.540	4.5	1.464466	3.1
2039		4.635	4.6	1.495219	3.1
2040		4.733	4.7	1.526619	3.1
2041		4.832	4.8	1.558678	3.1
2042		4.933	4.9	1.591410	3.1
2043		5.037	5.0	1.624830	3.1
2044		5.143	5.1	1.658951	3.1
2045		5.251	5.3	1.693789	3.1
2046		5.361	5.4	1.729359	3.1
2047		5.474	5.5	1.765675	3.1
2048		5.589	5.6	1.802754	3.1
2049		5.706	5.7	1.840612	3.1
2050		5.826	5.8	1.879265	3.1
2051		5.948	5.9	1.918730	3.1
2052		6.073	6.1	1.959023	3.1
2053		6.201	6.2	2.000162	3.1

M10 Booker

Source for TY\$-CY\$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

2020A - Operation & Maintenance, Army					
fiscal year		Other/ Unallocated	Total TY(\$M)	Weighted Rate	Total CY2022 (\$M)
2054		6.331	6.3	2.042166	3.1
2055		6.464	6.5	2.085051	3.1

Acquired System Annual End-Item Quantities by Appropriation Account
(Aligned to Budget Position: PB 2025)

M10 Booker

2040A - Research, Development, Test & Eval, Army				
fiscal year	Booker			Total
Total	27			27
Undistributed				-
2019	24			24
2020				-
2021				-
2022	3			3

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

M10 Booker

2033A - Procurement of W&TCV, Army				
fiscal year	Booker			Total
Total	350			350
Undistributed				-
2019				-
2020				-
2021				-
2022	22			22
2023	29			29
2024	33			33
2025	33			33
2026	31			31
2027	28			28
2028	29			29
2029	30			30
2030	30			30
2031	30			30
2032	30			30
2033	25			25

Nuclear Costs

M10 Booker

Program's Use of Department of Energy Resources

No data for 2023 MSAR

Operational Fielding Plan

M10 Booker

System: Booker

Fielding and Inventory Notes

FUE* Aug 2025 (O), Feb 2026 (T), IOC Sep 2027 (O), Mar 2028 (T)

*In accordance with the M10Booker Capability Development Document Update (CDD-U), signed June 24, 2022, the number of assets required to attain FUE is one Company set of 14 Bookers, while one Battalion set of 42 Bookers is required to achieve IOC. The CDD-U defines the number of assets required for FOC as the complete AAO of 504 Bookers.

Booker Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					
2024					-
2025	14				14
2026	42				56
2027	42				98
2028	42				140
2029	28				168

O&S Independent Cost Estimate

M10 Booker

Independent and Current Cost Estimate Comparison

Category	CY2022 (\$M)	Independent Cost Estimate 6/7/2022	Current Estimate 6/7/2022	Variance with ICE (%)
Unit-Level Manpower		3,508.0	3,444.7	-2%
Unit Operations		2,079.8	2,068.6	-1%
Maintenance		1,928.4	1,917.9	-1%
Sustaining Support		401.4	496.8	24%
Continued System Improvements		941.7	641.4	-32%
Other			-	-
Total O&S		8,859.3	8,569.3	-3%

Independent Cost Estimate Source

Event: Milestone C Decision
 Type: Component Cost Position
 Approved by: Ms. Caral E. Spangler, ASA(FM&C), June 7, 2022
 Note: Mileston C Army Cost Position

Current Cost Estimate Source

Type: Component Cost Position
 Approved by: Ms. Caral E. Spangler, ASA(FM&C), June 7, 2022
 Note: Current cost estimate aligned to PB 25 cost position. Continuing to update cost estimate in preparation for the 2QFY25 Cost Review Board for Full Rate Production. Annual O&S estimates not available at this time.

Cost Estimate Variance Explanation

The PMO Cost Team continues to update the Life Cycle Cost Estimate in preparation for the March 2025 Cost Review Board to support the Full Rate Production decision. Unit costs increased above the original estimate due to reduced WTCV funding, which forced the program to extend procurement and fielding by three years. This pushed out annual recurring costs and increased costs due to reduced vehicle quantity "rate" impacts. For the Sustaining Support costs, the "increase" was due to the realignment of costs from the year of the first DEMIL to the last DEMIL as being Acq OMA to Sustainment OMA. Reassessment of the estimated annual cost for software maintenance lowered the cost for Continuing System Improvements.

Annual Operating and Support Estimates by Cost Element

M10 Booker

System: Booker

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2022 (\$M)
Total	-	-	-	-	-	-	-