



Updated March 14, 2023

# The Army's Armored Multi-Purpose Vehicle (AMPV)

## Background

The Army describes the Armored Multi-Purpose Vehicle (AMPV), a tracked support vehicle, in the following section.

The Armored Multi-Purpose Vehicle (AMPV) is the replacement for the M-113 Family of Vehicles (FoV) within the Armored Brigade Combat Team (ABCT), comprising approximately 30% of its tracked vehicle fleet. Five variants are planned:

The **General Purpose (Figure 1)** variant accommodates two crew, six passengers, is reconfigurable to carry one litter, mount crew served weapons, and integrates a variety of communications and battle management systems.

The **Mortar Carrier** variant accommodates two crew members, two mortar crew members, one mounted 120 mm mortar, 69 rounds of 120 mm ammunition, and communications and fire control systems.

The **Mission Command** variant is the cornerstone of the Army's ABCT Network Modernization Strategy. It is intended to take advantage of increased size, weight, power and cooling technology and provide a significant increase in command, control, communications and computer capability. The variant accommodates a driver and commander and two workstation operators, and its network provides full tactical command post capabilities at brigade and battalion levels.

The **Medical Evacuation** variant includes room for three crew members, six ambulatory patients or four litter patients or three ambulatory and two litter patients, and storage for medical equipment.

The **Medical Treatment** variant includes room for four crew members, one litter patient, and a patient treatment table.

**Figure 1. The Armored Multi-Purpose Vehicle (AMPV) General Purpose Variant**



**Source:** United States Army Acquisition Support Center, <https://asc.army.mil/web/portfolio-item/gcs-ampv/>, accessed January 18, 2021.

## Program Status

The AMPV is produced by BAE Systems in York, PA. On January 25, 2019, the AMPV entered the low-rate initial production phase (LRIP). The Army originally planned for acquiring a total of 2,907 AMPVs, with initial vehicle delivery in 2020. The AMPV program plans to replace 2,897 M113 vehicles at the brigade and below level within the ABCT. There are an additional 1,922 M113s supporting non-ABCT affiliated units (referred to as Echelons Above Brigade [EAB] units) that are not included in the Army's modernization plan.

**Low-Rate Initial Production (LRIP)** is a programmatic decision made when manufacturing development is completed and there is an ability to produce a small-quantity set of articles. It also establishes an initial production base and sets the stage for a gradual increase in the production rate to allow for Full-Rate Production (FRP) upon completion of Operational Test and Evaluation (OT&E).

**Full-Rate Production (FRP)** is a decision made that allows for government contracting for economic production quantities following stabilization of the system design and validation of the production process.

## Testing Deficiencies and Production Problems

During a limited user test (LUT) in FY2019, the Department of Defense (DOD) Director of Operational Test and Evaluation (DOT&E) and the Army Test and Evaluation Command (ATEC) identified 24 items while testing prototype AMPVs that BAE needed to correct and have evaluated during the Initial Operational Test and Evaluation (IOT&E) by the end of 2021. Reportedly, due to BAE production challenges and effects of the Coronavirus Disease 2019 (COVID-19) pandemic, BAE did not meet

the July 2020 first vehicle delivery date and was six to eight months behind the original schedule to deliver vehicles to support AMPV IOT&E and live-fire test events. BAE reportedly delivered its first LRIP AMPV to the Army on August 31, 2020. In March 2023, it was noted by DOD that the AMPV FRP decision was expected sometime in FY2023.

**AMPV Reaches Low-Rate Initial Production Rates**

In October 2021, it was reported that monthly AMPV production had reached contracted LRIP levels and early manufacturing troubles had subsided. Because of previous delays, total AMPV production remained behind schedule, but BAE planned to achieve full-rate production by the end of FY2022.

**Army to Begin Training with AMPV in Early 2023**

In October 2022, the AMPV Program Executive Officer (PEO) reportedly stated the first Army unit would begin training with the AMPV in January 2023. The PEO further noted the Army planned to equip the unit with 130 AMPVs in January 2023 to facilitate training. The first Army unit to receive AMPVs was not identified, but final operational testing for the AMPV was conducted at Ft. Stewart, GA.

**FY2024 AMPV Budgetary Information**

**Table 1. FY2024 AMPV Budget Request**

Funding Category	Total Request (\$M)	Total Request (Qty.)
Procurement	\$554.8	91
<b>TOTAL</b>	<b>\$554.8</b>	<b>91</b>

**Source:** Office of the Under Secretary of Defense (Comptroller)/Chief Financial Officer, Program Acquisition Cost by Weapon System: United States Department of Defense Fiscal Year 2024 Budget Request, March 2023, p. 3-4.

**Notes:** \$M = U.S. dollars in millions; Qty. = FY2024 procurement quantities.

**AMPV Annual Production Rate**

Reportedly, by FY2024, AMPV production rates are planned to increase to 131 vehicles per year and to continue at that level until at least FY2027. Earlier AMPV program planning documents issued before the 2020 production delay had reportedly called for an annual production rate of 190 AMPVs per year by FY2024. Supposedly, reduced production rates and increased commodity prices have contributed to higher unit costs per vehicle. Unit price increases reportedly have also been attributed to strong

inflationary pressures on commodity prices, reusable parts supply expended from vehicles during LRIP, and purchasing AMPVs at lower production rates.

**Considerations for Congress**

Oversight questions Congress could consider include the following:

**M-113s Provided to Ukraine and AMPV Procurement**

According to a March 3, 2023, DOD fact sheet on U.S. Security Assistance to Ukraine, 300 M-113s have been pledged to Ukraine. Reportedly, the M-113s are to be taken from the Army National Guard. It is not known if the Biden Administration will include additional M-113s in future Ukraine military aid packages.

Reportedly, the Army plans to replace M-113s transferred to Ukraine with AMPVs on a one-to-one basis, and the Army was reportedly seeking additional funding in its FY2024 budget request. An examination of the FY2024 AMPV budget request at **Table 1** does not appear to include additional funds for a one-to-one replacement. However, the Army might seek this AMPV replacement funding in a FY2024 supplemental budget request. Congress might wish to clarify the Army's funding requirements and plans for replacing current and future M-113s provided to Ukraine with AMPVs.

**Updated AMPV Program Plans**

As previously noted, the 2020 AMPV production delay reportedly resulted in increased per vehicle costs and slower-than-planned-for annual production quantities. If approved AMPV acquisition quantities remain at 2,897 vehicles, there could be cost implications resulting from higher per-vehicle costs as well as a longer production and fielding timeline needed to equip Active and Army National Guard ABCTs. In addition, possible accelerated AMPV production to backfill M-113s provided to Ukraine could have an appreciable impact on the Army's current AMPV production and fielding plans. Given these considerations, Congress might decide to review the Army's current AMPV program plans to determine if an update is required.

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Andrew Feickert, Specialist in Military Ground Forces

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