

Mine Resistant Ambush Protected Vehicles (MRAP)

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance

MISSION

Provides tactical mobility for warfighters with multimission platforms capable of mitigating the effects of improvised explosive devices (IEDs), underbody mines, and small arms fire threats.

DESCRIPTION

The Joint Mine Resistant Ambush Protected (MRAP) Vehicle Program (JMVP) is a multi-service program currently supporting the Army, Navy, Marine Corps, Air Force, and the U.S. Special Operations Command. The program procures, tests, integrates, fields, and supports highly survivable vehicles that provide protection from IEDs and other threats. These four- to six-wheeled vehicles are configured with government furnished equipment to meet unique warfighting requirements. Vehicle combat weights (fully loaded without add-on armor) range from approximately 34,000 to

60,000 pounds, with payloads ranging from 1,000 to 18,000 pounds. Key components (e.g., transmissions, engines) vary between vehicles and manufacturers, but generally consist of common commercial and military parts.

Four categories of vehicles support the following missions:

- **Category (CAT) I:** Carries four to six passengers. Designed to provide increased mobility and reliability in rough terrain.
- **CAT II:** Multimission operations (such as convoy lead, troop transport, and ambulance). Carries 10 passengers.
- **CAT III:** Mine/IED clearance operations and explosive ordnance disposal (EOD); carries six passengers, plus specialized equipment to support EOD operations; the Force Protection Industries Buffalo is the only CAT III variant. This is the largest MRAP vehicle.

- **MRAP All Terrain Vehicle (M-ATV):** Carries four Soldiers plus a gunner. Supports small-unit combat operations in complex and highly restricted rural, mountainous, and urban terrains. The M-ATV provides better overall mobility characteristics than the original CAT I, II, and III MRAP vehicles yet retains the same survivability threshold.

SYSTEM INTERDEPENDENCIES

Other Major Interdependencies
MRAP vehicles are equipped with multiple GFE items, including communications equipment, mine and IED counter-measure equipment, in addition to weapons and crew protection systems.

PROGRAM STATUS

- **3QFY07–1QFY11:** Produce and field MRAP vehicles to Army, Marine Corps, Air Force, Navy, U.S. Special Operations and foreign military sales customers

- **1QFY08–2QFY09:** Upgrading vehicles to meet emerging threats, enhance survivability, vehicle mobility, and improve automotive performance by incorporating engineering changes in current production, planned orders, and fielded vehicles
- **2QFY08:** Initiated capabilities insertion program to provide enhanced rocket-propelled grenade protection, integration of remote weapon system, increased vehicle power and enhanced command, control, communications, computers, and intelligence capability

PROJECTED ACTIVITIES

- **1QFY11:** Production and fielding of MRAP vehicles complete based on current requirements
- **2QFY11:** Begin modernization of MRAP vehicles returning from theater in preparation for transition to enduring force requirements

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

Mine Resistant Ambush Protected Vehicles (MRAP)

FOREIGN MILITARY SALES

Canada, France, Italy, United Kingdom

CONTRACTORS

BAE Systems Land & Armaments, Ground Systems Division (York, PA)

BAE-TVS (Sealy, TX)

Force Protection Industries, Inc. (Ladson, SC)

General Dynamics Land Systems, Canada (Ontario, Canada)

Navistar Defense (Warrenville, IL)

Oshkosh Corp. (Oshkosh, WI)

