

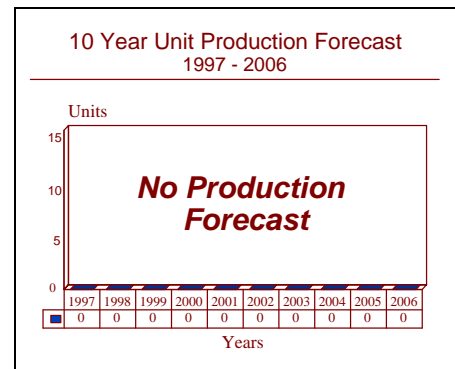
ARCHIVED REPORT

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M198 155 mm Howitzer - Archived 5/98

Outlook

- Production of the M198 was completed some years ago
- No further production is forecast
- Some further modernization/retrofit is possible
- Some additional export of existing inventory is forecast



Orientation

Description. A towed 155 millimeter artillery system.

Sponsor. The development and United States procurement of the M198 was sponsored by the United States Department of Defense through the United States Army Armament, Munitions and Chemical Command (now the Industrial Operations Command) located at Rock Island Arsenal, Illinois.

Contractors. This piece was developed and was manufactured by the then United States Army Armament, Munitions and Chemical Command, Rock Island Arsenal; Rock Island, Illinois, United States of America. Major subcontractors included Consolidated Diesel Mobile Equipment, Numax Electronics, Watervliet Arsenal.

Licenseses. None

Status. The serial production of the M198 was completed in November of 1993; the M198 is in service in the United States of America and several other nations.

Total Produced. A total of 1,869 M198 artillery pieces was manufactured.

Application. Fire support for the field army at the battalion level.

Price Range. Based on the planned procurement of 42 pieces, the Fiscal 1988/89 documents listed the unit price of the M198 at \$473,809. Based on the procurement of ten pieces, the unit price in Fiscal 1993 dollars was \$594,000. The M198 has not yet been traded on the open market by international arms merchants.

Technical Data

Crew. Eleven

Muzzle Brake. Double-baffle

Recoil System. Hydropneumatic

Breech Mechanism. Interrupted screw, stepped thread

Carriage Type. Split trail

Shield. None

Ammunition. Separate-bagged - M107 (High Explosive), M449 (High Explosive/Sub-Munition Dispens-

ing), M483/M483A1 (High Explosive/Sub-Munition Dispensing), M795 High Explosive; M692 (ADAM - High Explosive/Sub-Munition Dispensing), M864 DPICM - High Explosive/Sub-Munition Dispensing; M731 (RAAMS - High Explosive/Sub-Munition Dispensing), M549/M549A1 (High Explosive Rocket Assisted), M118 (Illumination), M485/M485A1 (Illumination), M694 (REMBASS), M110 (White

Phosphorous Smoke), M116 (Smoke-Base Eject), M631 (Chemical-CS),), M825 (Smoke-Base Eject), M121 (Chemical-VX or GB), M712 (Copperhead cannon-launched guided projectile), M741 (Sub-Munition Dispensing), M718 (Sub-Munition Dispensing), and Nuclear (W48 or W82). In addition, all NATO standard ammunition can also be fired.

Dimensions. The following data are for the last production standard.

	<u>SI units</u>	<u>US units</u>
Caliber	155 millimeters	6.10 inches
Length overall	12.39 meters	40.65 feet
Barrel length	39 calibers/6.05 meters	39 calibers/19.83 feet
Traveling width	2.79 meters	9.15 feet
Firing width	8.53 meters	27.99 feet
Traveling height	3.02 meters	9.91 feet
Firing height	1.80 meters	5.91 feet
Traveling weight	7.09 tonnes	7.81 tons
Firing weight	7.07 tonnes	7.79 tons

Performance. The range performance is with rocket assisted ammunition.

Elevation	+72°	+72°
Depression	-5°	-5°
Traverse	22.5°left/22.5°right	22.5°left/22.5°right
Maximum range	30,000 meters	32,808.33 yards
Maximum rate of fire	4 rounds per minute	4 rounds per minute
Sustained rate of fire	3 rounds per minute	3 rounds per minute

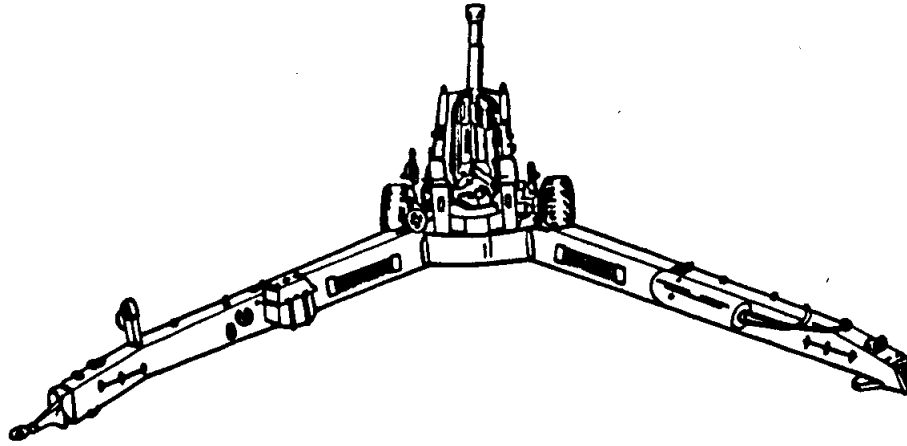
The M199 tube has a life of approximately 1,750 equivalent full charges.

Variants/Upgrades

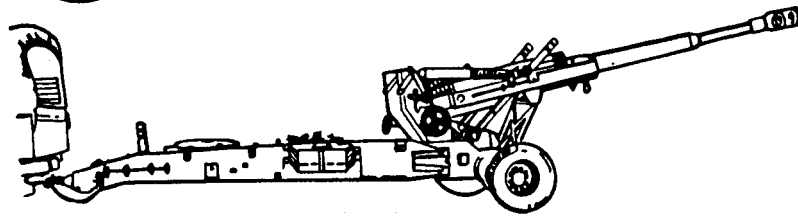
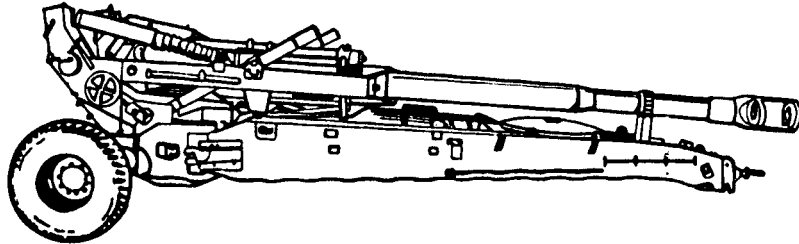
Variants. No variants of the M198 were developed.

Modernization and Retrofit Overview. The MC-4000 auxiliary propulsion unit has been developed for the M198, but no procurement has been made as of early 1997.

There has been a proposal to equip the M198 with the Flo-Track mobility aid in order to ease the towing of the piece over soft terrain. The Flo-Track system fits around the high-pressure tires of the M198, reducing the ground pressure and rolling resistance. Again, as of this writing, this enhancement has not been funded.



M198 155 mm HOWITZER - FIRING CONFIGURATION



M198 155 mm HOWITZER - TOWING CONFIGURATION

Source: US Army

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