

CH-47 Chinook

INVESTMENT COMPONENT

Modernization

Recapitalization

Maintenance



MISSION

Supports a full spectrum of operations including disaster relief, homeland defense and security, and current overseas contingency operations with a Future Force system design.

DESCRIPTION

The CH-47F is the Army's only heavy-lift cargo helicopter, supporting combat operations and many other critical operations other than war. The CH-47F aircraft has a suite of improved features such as an upgraded digital cockpit featuring the Common Avionics Architecture System (CAAS), a new monolithic airframe with vibration reduction and the Digital Automatic Flight Control System (DAFCS) which provides coupled (hands-off) controllability for operations in adverse environments (reduced visibility, brown out, high winds). The CH-47F's common cockpit enables multiservice digital compatibility and interoperability for improved situational awareness, mission performance, and survivability, as well as future growth potential. The CH-47F has an empty weight of 24,578

pounds and a maximum gross weight of 50,000 pounds. The CH-47F can lift intra-theater payloads up to 16,000 pounds in high/hot environments.

- **Max gross weight:** 50,000 pounds
- **Max cruise speed:** 160 knots
- **Troop capacity:** 36 (33 troops plus 3 crew members)
- **Litter capacity:** 24
- **Sling-load capacity:** 26,000 pounds center hook, 17,000 pounds forward/aft hook, 25,000 pounds tandem
- **Minimum crew:** 3 (pilot, copilot, and flight engineer)

SYSTEM INTERDEPENDENCIES

In this Publication

Advanced Threat Infrared Countermeasure/Common Missile Warning System (ATIRCM/CMWS), Air Warrior (AW)

Other Major Interdependencies

ARC-231, BFT, CXP (APX-118), CXP (APX-123), IDM, AMPS

PROGRAM STATUS

- **2QFY07:** Complete initial operational testing
- **4QFY07:** First unit equipped
- **1QFY08:** Multi-year procurement contract award

PROJECTED ACTIVITIES

- **FY13:** Multi-year II contract award
- **4QFY19:** CH-47F fielding complete

ACQUISITION PHASE

Technology Development

Engineering & Manufacturing Development

Production & Deployment

Operations & Support

CH-47 Chinook

FOREIGN MILITARY SALES

Australia

CONTRACTORS

Aircraft and Recap:

Boeing (Philadelphia, PA)

Engine:

Honeywell (Phoenix, AZ)

Software:

Rockwell Collins (Cedar Rapids, IA)

Engine Controls:

Goodrich (Danbury, CT)

