Characteristics Summary

(F) FIGHTER ......................... F-15

EAGLE
McDONNELL

Wing Area ......................... 608 sq ft
Length ......................... 63.75 ft
Span ......................... 42.81 ft
Height ......................... 18.45 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>ACTIVE</th>
<th>RESERVE</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

PROCUREMENT

<table>
<thead>
<tr>
<th>Number to be delivered in fiscal years</th>
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</table>

STATUS

1. Contract Definition Phase: Jan 69
2. Engineering Development: Jan 70
3. First Flight: Jul 72
4. First Squadron Delivery: Dec 74

Navy Equivalent: None

Mfr's Model: 199-JC

POWER PLANT

(2) F100-PW-100

Pratt & Whitney

ENGINE RATINGS

S.L.S. LR - | RPM | MIN
Max: 23,840-10,160/12,960- 5
Intermed: 14,690-10,190/12,970- 30
Max Cont: 12,410- 9840/12,570-Cont

* With afterburner operating
† LP/HP Rotor

FEATURES

Crew ......................... 1
Swept wings and tails
Twin vertical tails
Trailing edge flaps
All fuel tanks contain foam for survivability
Pressurized cockpit with an
ESPAC-1C (MOD) eject, seat
Liquid oxygen sys. and Anti-G
non pressure suit prov.
Fire Control System
(RID) Head-up Display
In-Flight Refueling
Inertial Nav, Set
TEWS (Prov)

Max Fuel Capacity: 3514 gal

ARMAMENT

Guns: (1) M61A1, 20mm, 938 rds
Location ft/hand wing root fillet
aft of the engine inlet.

Missiles:
(4) AIM-7F
(4) AIM-9E/AIM-9L

Bombs:
(18) MK-82 Slick or Snakeye
(5) MK-84 Laser, IR, EO, Slick
Firebombs;
(9) BLU-27/B (Finned)
(9) BLU-27/B (Unfinned)

Dispensers;
(9) CBU-42/A
(12) CBU-52/B, CBU-58/B,
CBU-71/B
(18) MK-20 (Rockeye)

Training:
(3) SUU-20B/A

Jan 76

(APF 1, Addn 105) (49 of 206)
Characteristics Summary Basic Mission

(C) AIR SUPERIORITY MISSION

48,000 ft
43,300 ft
10,000 ft

(C) COUNTER AIR MISSION

47,600 ft
40,200 ft
10,000 ft

(C) AREA INTERCEPT MISSION

59,440 ft
47,980 ft
43,460 ft
50,000 ft

PERFORMANCE

COMBAT RADIUS

242 nautical miles at 502 knots average in 0.66 hours
638 nautical miles at 502 knots average in 2.55 hours
372 nautical miles at 502 knots average in 1.48 hours

FERRY RANGE

2362 naut mi with 3514 gal fuel at 502 knots avg in 4.72 hours at 52,077 lb T.O. wt

S P E E D

COMBAT 8.93 knots at 10,000 ft alt, max power
MAX 14.34 knots at 45,000 ft alt, max power
BASIC 12.74 knots at 35,000 ft alt, max power

CLimb

18,680 fpm sea level, take-off weight intermediate power

Ceiling

49,830 ft 100 fpm, take-off weight intermediate power

Take-off

3180 ft ground run maximum power

Load

67,250 fpm sea level, combat weight maximum power

Weight

63,050 ft 500 fpm, combat weight maximum power

CSTALLING SPEED

128 knots power-off, landing configuration, take-off weight

TIME TO CLimb

2.24 min Sea Level to 30,000 ft T. O. Wt., intermed pwr

Notes

1. Performance Basis:
   (a) Contractor's estimated data; dtd July 74
   (b) Climb, Ceiling, Take-off, Speeds and Time to Climb are based on Mission 1
   (c) Distances for counter Air and Ferry Missions are decreased when external tanks are retained.