

UNCLASSIFIED

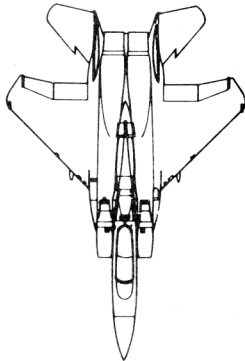
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SERVICE

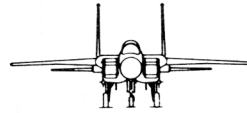
# Characteristics Summary

(U)

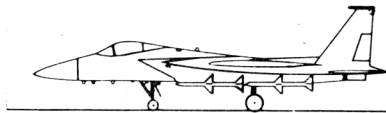
FIGHTER . . . . . F-15



EAGLE



McDONNELL



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

## AVAILABILITY

## PROCUREMENT

Number available

Number to be delivered in fiscal years

ACTIVE	RESERVE	TOTAL				

(U)

## STATUS

- Contract Definition Phase: Jan 69
- Engineering Development: Jan 70
- First Flight: Jul 72
- First Squadron Delivery: Dec 74

Navy Equivalent: None

Mfr's Model: 199-1C

## (C) POWER PLANT

(2) F100-PW-100

Pratt & Whitney

ENGINE RATINGS

S. L. S. LB - † 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

## (U) 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 (HUD) Head-up Display  
 In-Flight Refueling  
 Inertial Nav. Set  
 TEWS (Prov)

Max Fuel Capacity: 3514 gal

## (U) ARMAMENT

Guns: (1) M61A1, 20mm, 938 rds  
 Location Rt/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  
 (3) MK-84 Laser, IR, EO, Slick  
 Firebombs:  
 (9) BLU-27B/B (Finned)  
 (9) BLU-27B/B (Unfined)  
 Dispensers:  
 (9) CBU-42/A  
 (12) CBU-52B/B, CBU-58/B, CBU-71/B  
 (18) MK-20 (Rockeye)  
 Training:  
 (3) SUU-20B/A

Classification cancelled or changed to

Unclassified

Security Classification Guide, Oct. 86

By: *William M. White, GS-9*  
Signature and Grade  
7/30/87

CLASSIFIED BY F-15 SEC GUIDE  
 EXEMPT FROM GDS OF EO 11652  
 EXEMPTION: CATEGORY 3  
 DECLASSIFY: 31 DEC 1988

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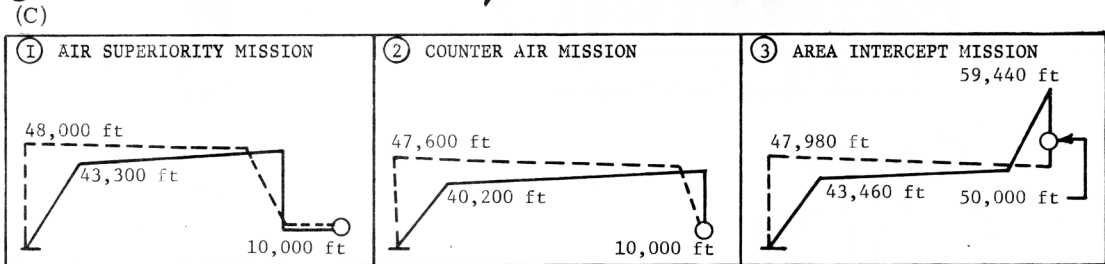
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*Characteristics Summary Basic Mission* . . . . . F-15A



(C) **PERFORMANCE**

(C) COMBAT RADIUS	(C) FERRY RANGE	(C) S P E E D
① 242 nautical miles at 502 knots average in 0.96 hours ② 638 nautical miles at 502 knots average in 2.55 hours ③ 372 nautical miles at 502 knots average in 1.48 hours	2362 naut. mi with 3514 gal fuel at 502 knots avg. in 4.72 hours at 52,077 lb T.O. wt.	COMBAT 893 knots at 10,000 ft alt, max power MAX 1434 knots at 45,000 ft alt, max power BASIC 1274 knots at 35,000 ft alt, max power

(C) C L I M B	(C) C E I L I N G	(U) T A K E - O F F
18,680 fpm sea level, take-off weight intermediate power	49,830 ft 100 fpm, take-off weight intermediate power	ground run 3180 ft maximum power
67,250 fpm sea level, combat weight maximum power	63,050 ft 500 fpm, combat weight maximum power	over 50 ft height 4490 ft maximum power

(C) L O A D	(U) W E I G H T S	(C) S T A L L I N G S P E E D																				
① (4) AIM-7F ② (4) AIM-7F plus (2) MK-84 ③ (4) AIM-7F	Empty . . . .25,870 lb Combat . . .36,374 lb ① 37,589 lb ② 35,301 lb ③	① 128 knots power-off, landing config- uration, take-off weight																				
<table border="1"> <thead> <tr> <th></th> <th>①</th> <th>②</th> <th>③</th> </tr> </thead> <tbody> <tr> <td>Fuel (gal)</td> <td>1714</td> <td>2314</td> <td>1714</td> </tr> <tr> <td>Protected</td> <td>24.7%</td> <td>18%</td> <td>24.7%</td> </tr> <tr> <td>Droppable</td> <td>0%</td> <td>25.9%</td> <td>0%</td> </tr> <tr> <td>External</td> <td>0%</td> <td>25.9%</td> <td>0%</td> </tr> </tbody> </table>		①	②	③	Fuel (gal)	1714	2314	1714	Protected	24.7%	18%	24.7%	Droppable	0%	25.9%	0%	External	0%	25.9%	0%	Take-off . . .40,327 lb ① 44,497 lb ② 40,327 lb ③	(C) <b>T I M E T O C L I M B</b> ① 2.24 min Sea Level to 30,000 ft T.O. Wt, intermed pwr
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(U) **N O T E S**

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.
2. Revision Basis: Initial Issue.