Characteristics Summary

(U) TRAINER TF-15A

EAGLE

McDONEL

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

<table>
<thead>
<tr>
<th>AVAILABILITY</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number available</td>
<td>Number to be delivered in fiscal years</td>
</tr>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Contract Definition Phase: Jan 69</td>
</tr>
<tr>
<td>2. Engineering Development: Jan 70</td>
</tr>
<tr>
<td>3. First Flight: Jul 70</td>
</tr>
<tr>
<td>4. First Squadron Delivery: Dec 74</td>
</tr>
</tbody>
</table>

Navy Equivalent: None

Mfr's Model: 199 ICT

(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: 14,090-10,190/12,970- 30
Max Cont: 12,410-9840/12,570-Cont

* With afterburner operating
† LF/HP Rotor

(up) FEATURES

Crew .............. 2
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
HID Head-Up Display
dual cockpit controls
Inflight refueling
Inertial Nav, Set
TEWS (Prov.)
Max Fuel Capacity: 3514 gal

(u) ARMAMENT

Guns: (1) M61A1, 20mm, 938 yds
Location Rt/hand wing root fillet
at of the engine inlet.
Missiles:
(4) AIM-7F
(4) AIM-9E/AIM-9L
Bombs:
(16) MK-82 Slick or Snakeye
(3) MK-54 Laser, IR, EO, Slick
Firebombs:
(9) BLU-27B/B (Finned)
(9) BLU-27B/B (Untinned)
Dispensers:
(9) CBU-42/A
(12) CBU-52/B, CBU-58/B,
CBU-71/B
(15) MK-20 (Rockeye)
Training:
(3) SUU-20B/A

Jan 76
(AF 1, Addn 105) (179 of 206)
## Characteristics Summary Basic Mission

**TF-15A**

### Performance

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>233 nautical miles at 502 knots average in 0.92 hours</td>
<td>2274 nautical miles with 3514 gal fuel at 502 knots avg. in 4.54 hours at 52,883 lb T.O. wt.</td>
<td>COMBAT 893 knots at 10,000 ft alt, max power</td>
</tr>
<tr>
<td>611 nautical miles at 502 knots average in 2.44 hours</td>
<td></td>
<td>MAX 1434 knots at 45,000 ft alt, max power</td>
</tr>
<tr>
<td>353 nautical miles at 502 knots average in 1.43 hours</td>
<td></td>
<td>BASIC 1273 knots at 35,000 ft alt, max power</td>
</tr>
</tbody>
</table>

### Climbing

- **18,080 fpm**
  - Sea level, take-off weight
  - Interim power

### Ceiling

- **49,240 ft**
  - 100 fpm, take-off weight
  - Interim power

### Take-off

- **65,020 fpm**
  - Sea level, combat weight
  - Maximum power

### Maximum Speed

- **61,790 ft**
  - 500 fpm, combat weight
  - Maximum power

### Load

<table>
<thead>
<tr>
<th>1</th>
<th>(4) AIM-7F</th>
<th>Empty</th>
<th>26,258 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>(4) AIM-7F plus (2) MK-84</td>
<td>Combat</td>
<td>37,256 lb</td>
</tr>
<tr>
<td>3</td>
<td>(4) AIM-7F</td>
<td>Take-off</td>
<td>41,133 lb</td>
</tr>
</tbody>
</table>

### Weights

- **26,289 lb**
- **37,256 lb**
- **41,133 lb**

### Stalling Speed

| 1 | 129 knots |

### Time to Climb

| 1 | 2.34 min |

### Notes

1. Performance Basis:
   - (a) Contractor's estimated data; dtd Jul 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.