Characteristics Summary

FIGHTER - YF-93A

NORTH AMERICAN

Wing area: 306.1 sq ft
Length: 44.1 ft
Span: 38.9 ft
Height: 15.6 ft

AVAILABILITY

Number available
ACTIVE | RESERVE | TOTAL

PROCUREMENT

Number to be delivered in fiscal years

STATUS

1. F-86C redesignated YF-93A
2. First flight: (1st art) 24 January 1950
3. Estimated acceptance: March 1951
4. No production contemplated

POWER PLANT

(1) J48-P-1
Pratt-Whitney
ENGINE RATINGS
S.L. Static LB - RPM
Max: 8000 - 11,000
Mil: 6000 - 11,000
Nor: 5000 - 10,450
*With afterburner operating

FEATURES

Crew: 1
2.75 psi Pressure Differential
Cooling and Heating
Ejection Seat and Canopy
"G" Suit Provisions
Adjustable Stabilizer
Speed Brake
Auto. Wing L.E. Slats
Hydraulic Boost Control
E-4 Auto Pilot
Blind Landing Equipment
Max Fuel Cap: 1581 gal

ARMAMENT

Turrets: None
Guns: 6x20mm
Ammunition (tot): 1380 rds
Max Bomb Load: 2x1000 lb
Rockets: 16x3" HVAR (T-36) or 8x5" HVAR (T-200)
AIM-7 Sight
AN/APG-30 Radar

9 MAY 1950
CONFIDENTIAL
Characteristics Summary Basic Mission YF-93A

COMBAT RADIUS = 700 Nautical Miles

**Performance**

<table>
<thead>
<tr>
<th>Performance</th>
<th>Combat Radius</th>
<th>Combat Range</th>
<th>Combat Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 naut. mi</td>
<td>1708 naut. mi</td>
<td>540 knots at 35,000 ft alt, max power</td>
<td></td>
</tr>
<tr>
<td>with 0 lb payload</td>
<td>with 0 lb payload</td>
<td>knots at zero ft alt, max power</td>
<td></td>
</tr>
<tr>
<td>at 465 knots avg.</td>
<td>at 464 knots avg.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>in 3.4 hours.</td>
<td>in 3.8 hours.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Maximum Speed**

615 knots at zero ft alt, max power

**Climb**

2420 fpm sea level, take-off weight normal power

31,000 ft 100 fpm, take-off weight normal power

**Ceiling**

11,960 fpm sea level, combat weight maximum power

45,500 ft 500 fpm, combat weight maximum power

**Take-off**

<table>
<thead>
<tr>
<th>Ground Run</th>
<th>Take-off</th>
</tr>
</thead>
<tbody>
<tr>
<td>3770 ft</td>
<td>3770 ft</td>
</tr>
<tr>
<td>no assist</td>
<td>assisted</td>
</tr>
</tbody>
</table>

**Load Weights**

<table>
<thead>
<tr>
<th>Load Items</th>
<th>Empty</th>
<th>Combat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bombs:</td>
<td>14,035 lb</td>
<td>21,610 lb</td>
</tr>
<tr>
<td>Ammunition:</td>
<td>1380 rds/20mm</td>
<td></td>
</tr>
<tr>
<td>Fuel:</td>
<td>1561 gal</td>
<td></td>
</tr>
<tr>
<td>protected</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>droppable</td>
<td>0%</td>
<td></td>
</tr>
<tr>
<td>external</td>
<td>0%</td>
<td></td>
</tr>
</tbody>
</table>

**Stalling Speed**

130 knots flaps down, take-off weight

**Time to Climb**

4.8 min. S.L. to 35,000 ft

**Notes**

1. **Performance Basis:**
   - Based on estimated data
   - Fuel density: 6.7 lb/gal (JP-1)
   - In computing radius and range, specific fuel consumptions have been increased 5% to allow for variations of fuel flow in service aircraft.
   - Radius and Range are decreased to 679 and 1656 nautical miles when using JP-3 (6.5 lb per gallon)

2. **Revision Basis:**
   - To show engine ratings and changes in “Security”, “Category”, “Features”, “Load” and “Notes” blocks.
   - *When using gasoline only.*