Characteristics Summary

FIGHTER ................. F-89A

NORTHROP

Wing area ....................... 606 sq ft
Length .................................. 53.4 ft
Span (Incl. tanks) .............. 56.2 ft
Height .................................. 17.7 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>Number available</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
</tr>
</tbody>
</table>

PROCUREMENT

Number to be delivered in fiscal years

STATUS

1. Design initiated: Sept 1946
2. First flight: (XF-89) Aug 1948
3. First flight: (F-89A) July 1950 (est)
4. First acceptance: July 1950 (est)
5. First service use: Oct 1950 (est)
6. In production

POWER PLANT

(2) J35-A-21 Allison

ENGINE RATINGS

S.L. Static LB RPM
Max: *6800 - 7900
Mil: 5200 - 7900
Nor: 4480 - 7400

*Afterburner operating

FEATURES

Crew: Instrument Land. System
Zero Reader
Thermal Anti-icing
All-Weather Interception
Radar
Ejection Seats
"G" Suit Provisions
Auto Pilot
Dive Brake
Max Fuel Cap: 1616 gal.

ARMAMENT

Turrets: None*
Guns: 6x20mm*
Ammunition: (tot.) 1200 rds
Max Bomb Load: 2x1600 lb
Max Bomb Size: 1600 lb
Rockets: 16x5" HVAR

*Turret or enclosed multiple rocket launcher may be substituted for guns.
**Characteristics Summary Basic Mission**

**Performance**

<table>
<thead>
<tr>
<th>Combat Radius</th>
<th>Combat Range</th>
<th>Combat Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>370 naut. mi</td>
<td>1130 naut. mi</td>
<td>496 knots at 35,000 ft alt, max power</td>
</tr>
<tr>
<td>with 0 lb payload</td>
<td>with 0 lb payload</td>
<td></td>
</tr>
<tr>
<td>at 432 knots avg.</td>
<td>at 434 knots avg.</td>
<td></td>
</tr>
<tr>
<td>in 2.13 hours.</td>
<td>in 2.7 hours.</td>
<td></td>
</tr>
</tbody>
</table>

**Climb Ceiling Take-Off**

<table>
<thead>
<tr>
<th>Climb</th>
<th>Ceiling</th>
<th>Take-Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>3400 fpm sea level, take-off weight normal power</td>
<td>37,400 ft 100 fpm, take-off weight normal power</td>
<td>1960 ft ground run</td>
</tr>
<tr>
<td>10,800 fpm sea level, combat weight maximum power</td>
<td>50,200 ft 500 fpm, combat weight maximum power</td>
<td>2990 ft over 50 ft height</td>
</tr>
</tbody>
</table>

**Load Weights Stallling Speed**

<table>
<thead>
<tr>
<th>Load</th>
<th>Weights</th>
<th>Stalling Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bombs: None</td>
<td>Empty..... 23,645 lb</td>
<td>98 knots flaps down, take-off weight</td>
</tr>
<tr>
<td>Ammunition: 1200 rds/20mm</td>
<td>Combat... 31,680 lb</td>
<td></td>
</tr>
<tr>
<td>Fuel: 1616 gal protected 13 %</td>
<td>Take-off 36,400 lb</td>
<td></td>
</tr>
<tr>
<td>droppable 0 %</td>
<td>limited by mission</td>
<td></td>
</tr>
<tr>
<td>external 38 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

1. **Performance Basis:**
   (a) Estimated data based on flight test of XF-89
   (b) Fuel density: 6.5 lb/gal
   (c) In computing Radius & Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.

2. **Revision Basis:** Change in "Features", "Category" and "Status" blocks.