Characteristics Summary

FIGHTER · · · · · · · · · · XF-90

LOCKHEED

Wing area .................... 350 sq ft
Length ...................... 56.2 ft
Span ........................ 40.0 ft
Height ...................... 15.8 ft

AVAILABILITY

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

STATUS

1. Teletype Authorization: 11 April 1946
2. Contract Date: 20 June 1946
3. Mock-up Inspection: December 1947
4. Engineering Inspection: April 1949
5. First Flight: (1st Art.) 3 June 1949; (2nd Art.) March 1950

POWER PLANT

(2) XJ34-WE-11 Westinghouse
ENGINE RATINGS
S.L. Static LB - RPM
Max: *4100 - 12500
Mil: 2920 - 12500
Nor: 2420 - 11800
*With afterburners operating

ATO
No. & Model (4)12AS1000D4
Mfr Aerojet
Thrust Lb (ea) 1000
Duration (sec) 12

FEATURES

Crew: 1
Pressurization
Cooling & Heating
AN/APG-5 Radar
A-1B Gun-Bomb-Rocket
Sight
Ejection Seat
Dive Brakes
Automatic Slats
Adjustable Stabilizer
Aileron Boost
Two-Position Fowler Flaps
Max Fuel Capacity: 1665 gal.

ARMAMENT

Turrets: None
Guns: 6x20mm
Ammunition (tot.): 1602 rds
Max Bomb Load: 2x1000 lb
Max Bomb Size: 1000 lb
Rockets: 8x5" HVAR
**Characteristics Summary Basic Mission**

**COMBAT RADIUS**: 333 naut. mi
- with 0 lb payload
- at 412 knots avg.
- in 2.03 hours.

**COMBAT RANGE**: 912 naut. mi
- with 0 lb payload
- at 411 knots avg.
- in 2.3 hours.

**COMBAT SPEED**: 550 knots at 25,000 ft alt., max power

**MAXIMUM SPEED**: 579 knots at 1000 ft alt., max power

**CLIMB**
- 723 fpm at sea level, take-off weight
- 7300 fpm at sea level, combat weight

**CEILING**
- 13,800 ft at 100 fpm, take-off weight
- 39,000 ft at 500 fpm, combat weight

**TAKE-OFF**
- ground run: 6260 ft, no assist; 5005 ft, assisted
- over 50 ft height: 11,640 ft, no assist; 6145 ft, assisted

**LOAD**
- Bombs: None
- Ammunition: 1602 rds/20mm
- Fuel: 1665 gal
  - protected 57%
  - droppable 43%
  - external 43%

**WEIGHTS**
- Empty... 18,523 lb
- Combat... 25,730 lb
- Take-off... 31,062 lb
- limited by mission

**STALLING SPEED**: 126 knots flaps down, take-off weight

**TIME TO CLimb**
- 4.5 min.
- S.L. to 25,000 ft
- Combat Wt., Max Power

**NOTES**
1. **PERFORMANCE BASIS:**
   - (a) Estimated data
   - (b) Fuel density: 6.0 lb/gal
   - (c) In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
   - (d) Radius and Range, are increased to 355 and 975 nautical miles when using JP-3 (6.5 lb/gal)
   - (e) Deviations: Operational altitude limited by cruising ceiling.

2. **REVISION BASES:**
   - To reflect change in security classification.