Characteristics Summary

FIGHTER .................. F-90 (VERSION II)

LOCKHEED

Wing area ...................... 350.0 sq ft
Length .......................... 56.2 ft
Span .......................... 40.0 ft
Height .......................... 15.8 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>

STATUS

1. Design study completed.
2. First flight: 3 June 1949 (XF-90)

POWER PLANT

(2) XJ46-WE-2
Westinghouse
ENGINE RATINGS
S.L.Static LB - RPM
Max: *6100 - 10,100
Mil: 4080 - 10,100
Nor: 3670 - 10,100
*With afterburners operating ATO

No.& Model (4) 12AS1000D4
Mfr Aerojet
ThrustLb (ea.) 1000
Duration(sec.) 12

FEATURES

Crew: 1
Pressurization
Cooling & Heating
AN/APG-30 Radar Gun Rang- ing
A-1C(mod.) Gun-Bomb-Roc- ket Sight
APX-6 Radar (IFF)
Ejection Seat
Dive Brakes
Automatic Slats
Adjustable Stabilizer
Aileron Boost
Two-Position Fowler Flaps
Max Fuel Capacity: 1665 gal.

ARMAMENT

Turrets: None
Guns: (6) 20mm
Ammunition (tot.): 1602 rds
Max Bomb Load: 2x1000 lb
Max Bomb Size: 1000 lb
Rockets: 8x5' HVAR

25 JAN. 1950

SECRET

F-90 (VERSION II)
### Characteristics Summary Basic Mission: F-90 (Version II)

**Combat Radius:** 476 naut. mi
- With 0 lb payload
- At 473 knots avg.
- In 2.46 hours.

**Combat Range:** 1352 naut. mi
- With 0 lb payload
- At 473 knots avg.
- In 2.87 hours.

**Combat Speed:** 552 knots at 35,000 ft alt., max power
- Maximum speed: 620 knots at zero ft alt., max power

### Performance

<table>
<thead>
<tr>
<th>Climb</th>
<th>Ceiling</th>
<th>Take-off</th>
</tr>
</thead>
<tbody>
<tr>
<td>3500 fpm, sea level, take-off weight, normal power</td>
<td>32,600 ft, 100 fpm, take-off weight, normal power</td>
<td>3360 ft, ground run, no assist</td>
</tr>
<tr>
<td>18,600 fpm, sea level, combat weight, maximum power</td>
<td>48,600 ft, 500 fpm, combat weight, maximum power</td>
<td>4460 ft, over 50 ft height, no assist</td>
</tr>
</tbody>
</table>

### Load Weights

- **Load:** None
- **Ammunition:** 1602 rds/20mm
- **Fuel:**
  - Protected: 1665 gal
  - Droppable: 57%
  - External: 43%

### STALLING SPEED

- 129 knots, flaps down, take-off weight

### Time to Climb

- 3.5 min.
- S.L. to 35,000 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 562 and 1517 nautical miles; take-off weight to 33,716 lb, when using JP-1 (6.7 lb/gal.)

2. **Revision Basis:** To reflect changes in "Status", "Power Plant" and "Notes" blocks.