**Characteristics Summary**

**FIGHTER································· F-90 (PROPOSAL)  
VERSION I**

- Wing area: 350.0 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. Design study completed.
2. Two XF-90's on contract
3. No procurement plans to date.

### POWER PLANT

- (2) Turbo-jet XJ34-WE-32 Westinghouse
- S.L. Static: LB - RPM
- T.O.: *4900 - 12500
- Max: *4900 - 12500
- Nor: 3020 -

*With afterburning

### FEATURES

- Crew: 1
- Cabin Pressurization
- Cabin Heating and Cooling
- Radar Gun Laying
- Ejection Seat
- JATO: (4) 1000 Lb. 12 sec. duration
- Max Fuel Capacity: 1665 gal.

### ARMAMENT

- Turrets: None
- Guns: (6) 20mm
- Ammunition: 1602 rds.
- Max Bomb Load: (2) 1000 lb.
- Max Bomb Size: 1000 lb.
- Rockets: (8) 5' HVAR

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10 JUNE 1949
### Characteristics Summary Basic Mission - F-90 (PROPOSAL)  
**Version I**

#### PERFORMANCE

<table>
<thead>
<tr>
<th><strong>COMBAT RADIUS</strong></th>
<th><strong>COMBAT RANGE</strong></th>
<th><strong>COMBAT SPEED</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><em>414 naut. mi</em></td>
<td><em>1112 naut. mi</em></td>
<td>540 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 458 knots avg.</td>
<td>at 461 knots avg.</td>
<td></td>
</tr>
<tr>
<td>in 2.24 hours.</td>
<td>in 2.52 hours.</td>
<td></td>
</tr>
</tbody>
</table>

#### CLIMB

- **SEA LEVEL, TAKE-OFF WEIGHT**
  - Normal Power: 1770 fpm
  - 100 fpm, take-off weight

#### CEILING

- **SEA LEVEL, COMBAT WEIGHT**
  - Maximum Power: 11,800 fpm

#### TAKE-OFF

- **GROUND RUN**
  - No Assist: 4400 ft
  - Assisted: 3580 ft

- **OVER 50 FT HEIGHT**
  - No Assist: 6260 ft
  - Assisted: 4430 ft

#### LOAD WEIGHTS

- **BOMBS:** None
- **AMMUNITION:** 1602 rds/20mm
- **FUEL:** 1665 gal
  - Protected: 57%
  - Droppable: 43%
  - External: 43%

- **EMPTY...** 19,427 lb
- **COMBAT...** 26,900 lb
- **TAKE-OFF...** 32,150 lb

- Limited by mission

#### STALLING SPEED

- 128 knots, flaps down, take-off weight

#### TIME TO CLIMB

- 5.0 min.
- S.L. to 35,000 ft.
- Combat Wt., Max. Power

### NOTES

1. **PERFORMANCE BASIS:** NACA standard conditions no wind, single airplane;
   - (a) Fuel consumption based on manufacturer's estimates increased 5%.
   - (b) Fuel density: 6.0 lb/gal. (gasoline)

2. **REVISION BASIS:** To present manufacturer's latest data.
   - *Use of kerosene (JP-1) increases Combat Radius to 471, Combat Range to 1224, Take-off Weight to 33,315 lb.*