**Characteristics Summary**

**FIGHTER . . . . . . . . . . . . . . . . . F-105A**

- Wing area: 366 sq ft
- Length: 52.3 ft
- Span: 36.7 ft
- Height: 17.7 ft

**AVAILABILITY**

<table>
<thead>
<tr>
<th>Number available</th>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
</tr>
</tbody>
</table>

**STATUS**

1. Further refinement of the F-84F airplane
2. Mock-Up: Mar 53 (est)
3. First Flight: Jan 55 (est)

Navy Equivalent: None

Mfr’s Model: AP-63-FBX

**POWER PLANT**

(1) J71-A-7 (Mod.)

**ENGINE RATINGS**

- S.L.S.: Lb - RPM - MIN
  - Max: 14,500-6100 - 5
  - Mil: 10,200-6100 - 30
  - Nor: 8800-6100 - Cont

*With afterburner operating

Note: Ratings are with screens retracted

**Features**

- Cockpit Pressurization
- Liquid Oxygen System
- Maneuvering Stabilizer
- Irreversible Flight Controls with Artificial “feel”
- Bomb Bay
- Wing Slats
- Speed Brakes
- Auto-pilot
- In-flight Refueling

Max Fuel Capacity: 2510gal

**ARMAMENT**

- Guns:* 4 x .60cal.
- Ammunition (tot): 1200 rds
- Max Bomb Load (int): 1x2000 lb
  - *1 x 3400 lb
- Max Bomb Load (ext): 3x2000 lb
  - *1x3400 lb
- Max Bomb Size: 3400 lb*
- Rockets: 24 x 5"HVAR
  - or
  - 24 x 8 cm Oerlikon

*Special Stores
**T-130 Type

3 December 1952

F-105A
Characteristics Summary Basic Mission

**F-105 A**

---

**Performance**

<table>
<thead>
<tr>
<th><strong>Combat Radius</strong></th>
<th><strong>Ferry Range</strong></th>
<th><strong>Speed</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>471 naut. mi</td>
<td>NOT AVAILABLE</td>
<td>COMBAT 660 knots at zero ft alt, mil power</td>
</tr>
<tr>
<td>with 2780 lb payload</td>
<td>with gal fuel</td>
<td>MAX 800 knots at 35,000 ft alt, max power</td>
</tr>
<tr>
<td>at —— knots avg.</td>
<td>at —— knots avg.</td>
<td>BASIC 670 knots at zero ft alt, max power</td>
</tr>
<tr>
<td>in —— hours.</td>
<td>in —— hours</td>
<td></td>
</tr>
</tbody>
</table>

**Climb Ceiling Take-Off**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>ground run</th>
</tr>
</thead>
<tbody>
<tr>
<td>sea level, take-off weight normal power</td>
<td>sea level, combat weight maximum power</td>
<td>5590 ft</td>
</tr>
<tr>
<td>100 fpm, take-off weight normal power</td>
<td>500 fpm, combat weight maximum power</td>
<td>no assist assisted</td>
</tr>
</tbody>
</table>

**Load Weights**

- Ammunition: 1200 rds/60 cal
- Bombs: 2 x 1000 lb
- Fuel: 2048 gal
  - protected —— gal
  - droppable 41.4%
  - external 41.4%

**Stalling Speed**

- Empty..... 18,217 lb
- Combat... 27,550 lb
- Take-off 37,000 lb
- limited by military characteristics

**Time to Climb**

167 knots power-off, landing configuration, take-off weight

**Notes**

1. Performance Basis:
   (a) Estimated Data (not substantiated by WADC)

2. Revision Basis: Initial issue