**Characteristics Summary**

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

**Wing Area** ............... 385 sq ft  **Length** ............... 62.0 ft
**Span** ............... 35.0 ft  **Height** ............... 17.5 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**

2. Development of the F-105A (YJ67-W-1) depends on the availability of the J67 engine.
3. First Flight: Dec 57 (est)

**POWER PLANT**

(1) YJ67-W-1 Wright

**ENGINE RATINGS**

S.L.S. LB - †RPM - MIN
Max: 31,500-6175/8000-5
Min: 13,200-6175/8000-30
Nor: 11,700-6175/8000-Cont
*With afterburner operating
†First figure represents RPM of the low pressure spool while the second that of the high pressure spool.

**FEATURES**

- Crew ............... 1
- Liquid Oxygen System
- Maneuvering Stabilizer
- Fuselage Bomb Bay
- L.E. Wing Flaps
- Speed Brakes
- Integrated Auto-pilot
- MA-8 Fire Control System
- In-flight Refueling Provision
- T-145 Weapons Release System
- Max Fuel Cap: ....... 2650 gal

**ARMAMENT**

- Guns .............. 1x20mm(T-171D)
- Ammunition (tot), 1000 rds
- Rockets .......... 24x5''HVAR or 24x2.75''FFAR
- Bombs:
  - Class (lb) Int. Ext. Load
  - 1000 .......... 1 ... 4 ... 5x1000
  - 2000 .......... 1 ... 2 ... 3x2000
  - 3000 .......... 1 ... 1 ... 1x3000
- Special Stores
  - 1700 .......... 1 ... - ... 1x1700
  - 3400 .......... 1 ... - ... 1x3400
- Max Bomb Size:
  - Int. .......... 3400 lb
  - Ext. .......... 3000 lb
- Max Bomb Load: ...... 6000 lb

**Navy Equivalent:** None  **Mfr's Model:** AP-63

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**12 JAN 54**

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**F-105A**

(J67 ENGINE)
### Characteristics Summary Basic Mission - F-105A

**Performance**

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>688 naut. mi</td>
<td>DATA NOT AVAILABLE</td>
<td>COMBAT 744 knots at Zero ft alt, max power</td>
</tr>
<tr>
<td>with 2780 lb payload</td>
<td>with gal fuel</td>
<td>MAX 1120 knots at 35,000 ft alt, max power</td>
</tr>
<tr>
<td>at 500 knots avg.</td>
<td>at avg.</td>
<td>BASIC 744 knots at Zero ft alt, max power</td>
</tr>
<tr>
<td>in 3.10 hours.</td>
<td>in hour</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>5670 fpm</td>
<td>37,150 ft</td>
<td>3060 ft</td>
</tr>
<tr>
<td>sea level, take-off weight</td>
<td>100 fpm, take-off weight</td>
<td>no assist</td>
</tr>
<tr>
<td>military power</td>
<td>military power</td>
<td>assisted</td>
</tr>
<tr>
<td>34,800 fpm</td>
<td>54,900 ft</td>
<td>3950 ft</td>
</tr>
<tr>
<td>sea level, combat weight</td>
<td>500 fpm, combat weight</td>
<td>no assist</td>
</tr>
<tr>
<td>maximum power</td>
<td>maximum power</td>
<td>assisted</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>Ammunition: 1000 rds/20mm Bombs ... 2 x 1000 lb</td>
<td>Empty..... 19,081 lb</td>
<td>148 knots</td>
</tr>
<tr>
<td>Fuel: 2400 gal protected</td>
<td>Combat... 28,903 lb</td>
<td>power-off, landing configuration, take-off weight</td>
</tr>
<tr>
<td>croppable 37.5 %</td>
<td>Take - off 39,637 lb</td>
<td></td>
</tr>
<tr>
<td>external 37.5 %</td>
<td>limited by mission</td>
<td></td>
</tr>
</tbody>
</table>

**Notes**

1. Performance Basis:
   (a) Estimated data

2. Revision Basis: Initial Issue

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F-105A (J67 ENGINE)