Characteristics Summary

FIGHTER .................. F-105G

"THUNDERCHIEF"  

REPUBLIC

Wing Area .................. 385 sq ft  
Length .................. 67.0 ft  
Span .................. 34.9 ft  
Height .................. 20.2 ft

AVAILABILITY

<table>
<thead>
<tr>
<th></th>
<th>ACTIVE</th>
<th>RESERVE</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

PROCUREMENT

<table>
<thead>
<tr>
<th></th>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
</table>

STATUS

The F-105G is a modified F-105F incorporating the Wild Weasel III capability. This modification provides radar homing and warning (RHAW), tape recorder and strike camera systems, and early warning missile site detection system.

Navy Equivalent: None

Mfr's Model: AP63-31

POWER PLANT

(1) J75-P-19W  
Pratt & Whitney  
ENGINE RATINGS

S, L, S, LB - RPM - MIN  
T, O, *26,500 - 6900/9000 - 2.5  
Max 24,500 - 6400/8900 - 15  
Min 16,100 - 6440/9000 - 30  
Norm 14,300 - 6080/8750 - Cont

* With water and afterburner  
With afterburner operating  
Limited by water supply

FEATURES

Crew .................. 2  
Area control fuselage  
Liquid oxygen system  
Fuselage bomb bay  
L.E. wing flaps  
Drag chute  
Integrated auto pilot  
Engine ram air ejector  
AN/ASG-19 fire control system  
(R-14A Radar)  
AN/APN-131 doppler navigation  
Noise wheel steering  
Spoiler/aileron combination  
In flight refueling (probe drogue & boom receptacle)  
Max fuel capacity: 2976 gal

ARMAMENT

Guns: 1 x 20mm (M-61)  
Ammo: (tot) .................. 1028 rds  
ROCKETS  
6 x LAU-3/A, -18/A  
6 x LAU-32, -50  
MISSILES  
2 x AGM-12C, AGM-45A  
AGM-78A & B  
4 x AIM-9E  
SPECIAL STORES  
4 x MK-25, MK-43  
3 x MK-61, 1 x MK-57  
BOMBS  
16 x MK-82, MK-82 (Snakeyes)  
9 x MK-83 .................. 1000 lb  
3 x MK-84 .................. 2000 lb  
16 x M-117 Ret, & Des, .................. 750 lb  
3 x M-118 .................. 3000 lb

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(AFG 1, Addn 103)  
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Characteristics Summary Basic Mission

33,200 FT ------ 24,000 FT ------ DROP FUSELAGE TANK & PYLON
26,400 FT ------ 31,400 FT ------ DROP WING TANKS & PYLONS

GROUND SUPPORT BOMBER

**PERFORMANCE**

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>391 naut. mi</td>
<td>1623 naut. mi</td>
<td></td>
</tr>
<tr>
<td>at 514 knots avg.</td>
<td>with 3100 gal fuel</td>
<td></td>
</tr>
<tr>
<td>in 1.62 hours.</td>
<td>at 51,139 lb T.O. wt.</td>
<td></td>
</tr>
</tbody>
</table>

**CLIMB**

<table>
<thead>
<tr>
<th>2900 fpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>sea level, take-off weight</td>
</tr>
<tr>
<td>military power</td>
</tr>
</tbody>
</table>

**Climbing**

<table>
<thead>
<tr>
<th>24,600 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 fpm, take-off weight</td>
</tr>
<tr>
<td>military power</td>
</tr>
</tbody>
</table>

**LOAD**

<table>
<thead>
<tr>
<th>23,000 fpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>sea level, combat weight</td>
</tr>
<tr>
<td>maximum power</td>
</tr>
</tbody>
</table>

**WEIGHTS**

<table>
<thead>
<tr>
<th>43,900 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 fpm, combat weight</td>
</tr>
<tr>
<td>maximum power</td>
</tr>
</tbody>
</table>

**WEIGHTS**

| Ammoe . . . . 581 rds/20mm |
| Stores . . . (3) AGM-78 (RIB) & (2) AGM-45A (O,B,) |
| Fuel: 2710 gal |
| protected 0 % |
| droppable 57.2 % |
| external 57.2 % |

**STALLING SPEED**

| Empty..... 31,279 lb |
| Combat... 41,091 lb |
| Take-off 54,580 lb |

**TIME TO CLIMB**

28.0 min, S. L. to 30,000 ft at combat wt, max power

**NOTES**

1. Performance Basis:
   (a) F-105F Category II Flight Tests
2. Wing tanks with 2370 lb of fuel are dropped prior to combat.
3. With water injection.
4. Indicates performance for an Instrument Flight Regulation Climb Schedule of 400 KCAS to optimum climb Mach number.
5. Revision Basis: Initial Issue