

GEORGIA AIR NATIONAL GUARD
128TH TACTICAL FIGHTER SQUADRON
DOBBINS AIR FORCE BASE, GEORGIA 30060



3 September 1981

Ms. Michelle Crean
Research Volunteer
Department of the Air Force
Air Force Museum
Wright-Patterson Air Force Base, Ohio 45433

Dear Michelle,

I am sorry this information is late but I have been quite busy since returning from Dayton.

First, enclosed is a Dash-1, an article written by Tom Lynn and an article from Stars and Stripes, dated 1973.

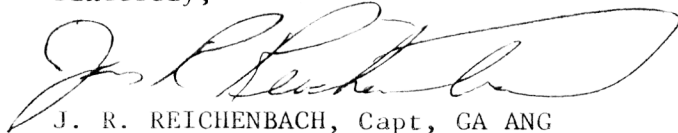
Second, note the changes I put on the performance data. This information is from practical experience and Dash-1.

Third, the performance is now much worse because of two factors. Number one, more drag to the aircraft; skin patches, plates, etc. Number two, engines are trimmed back slightly to save engine life.

Fourth, the 28 minute climb, probably was meant to be 2.8 minutes. Realistically, it is about 5.0 minutes. Maximum operational altitude is roughly 15,000-20,000 feet.

If you have any other questions, please don't hesitate to write.

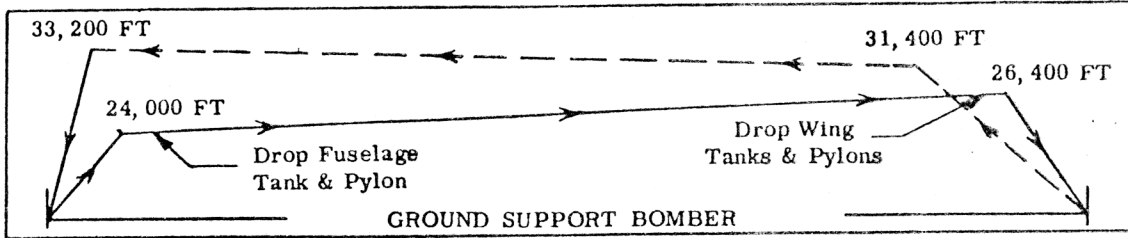
Sincerely,



J. R. REICHENBACH, Capt, GA ANG
Scheduling Officer

Enclosures

Characteristics Summary Basic Mission F-105G



| PERFORMANCE | | |
|--|--|---|
| COMBAT RADIUS | FERRY RANGE | S P E E D |
| ② ²⁸⁰ 391 naut. mi at 514 knots avg. in ^{1.3} 1.62 hours. | ⁹²⁵ 1623 naut. mi with 3100 gal fuel at ²⁹⁷⁶ 516 knots avg. in ^{2.3} 3.15 hours at ⁵²⁵⁷² 51,139 lb T.O. wt. | COMBAT 681 knots at S. L. ft alt, max power MAX 723 knots at 36,000 ft alt, max power BASIC 681 knots at S. L. ft alt, max power |
| C L I M B | C F I L I N G | T A K E - O F F |
| ④ 2900 fpm sea level, take-off weight military power | 24,600 ft 100 fpm, take-off weight military power | ③ ground run 5800 ft ft - no assist assisted |
| 23,000 fpm sea level, combat weight maximum power | ^{38,000} 43,900 ft 500 fpm, combat weight maximum power | ③ over 50 ft height 8210 ft ft no assist assisted |
| L O A D | W E I G H T S | S T A L L I N G S P E E D |
| Ammo ¹⁰²⁷ 561 rds/20mm Stores (1) AGM-78 (RIB) & (2) AGM-45A (O.B.) Fuel: ²⁵²⁶ 2710 gal protected 0 % droppable 57.2 % external 57.2 % | Empty..... 31,279 lb Combat... 41,091 lb Take - off 54,580 lb limited by mission | 187.6 knots power-off, landing config- uration, take-off weight TIME TO CLIMB ^{5.0} 28.0 min, S. L. to 30,000 ft at combat wt, max power |

- N O T E S**
- Performance Basis:
(a) F-105F Category II Flight Tests
 - Wing tanks with 2570 lb of fuel are dropped prior to combat.
 - With water injection.
 - Indicates performance for an Instrument Flight Regulation Climb Schedule of 400 KCAS to optimum climb Mach number.
 - Revision Basis: Initial Issue