

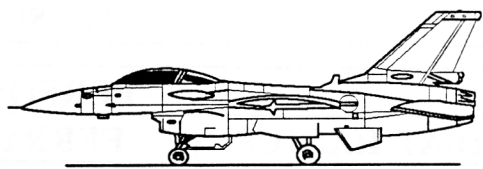
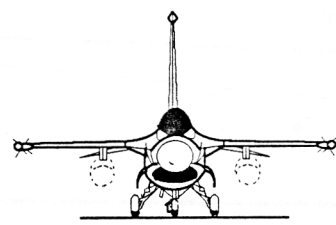
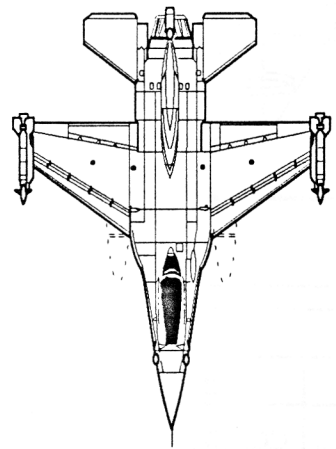
AI
F-16C/ch2

UNCLASSIFIED

SERVICE

CHARACTERISTICS SUMMARY

FIGHTER F-16C BLOCK 30 thru 30C



GENERAL DYNAMICS

Wing Area 300 sq ft Length 49.3 ft
Span 32.8 ft Height 16.6 ft

| AVAILABILITY | | PROCUREMENT | | | |
|------------------|---------|---------------------------------------|--|--|--|
| Number available | | Number to be delivered in fiscal year | | | |
| ACTIVE | RESERVE | | | | |
| | | | | | |

STATUS

- | | |
|--|---|
| 1. Single-place, single engine fighter | 6. First Production Airplane Delivery Aug 76 |
| 2. Prototype Contract Apr 72 | 7. Block 30 First Production Airplane Delivery Jun 87 |
| 3. Prototype First Flight Feb 74 | |
| 4. Full Scale Development Contract Jan 75 | |
| 5. Full Scale Development Airplane First Flight Dec 76 | Mfr's Model: 16 |

POWER PLANT

(1) F-100-GE-100
General Electric

ENGINE RATINGS

Sea Level

| SLS | Static Thrust (lbf) | RPM (HPC) |
|----------|---------------------|-----------|
| Max | 24,850* | 14,524 |
| Intermed | 14,880 | 14,535 |

SFC (LBM/HR/LBF)

| | |
|----------|-------|
| Max | 2.093 |
| Intermed | 0.666 |

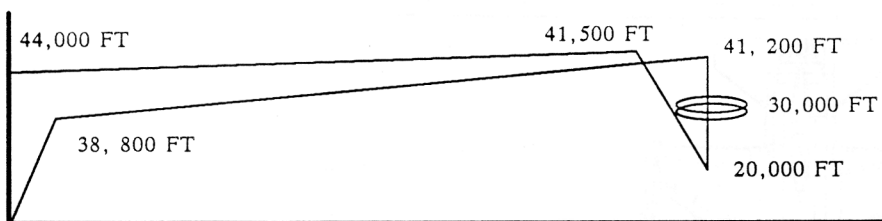
*With afterburner

- ### FEATURES
- Crew 1
 - AIM-9 Sidewinder Missiles carried on wing tip launchers
 - 8 tons external payload
 - inflight refueling
 - High-g combat-optimized advanced cockpit
 - Fixed Geometry Normal Shock inlet
 - Automatic Leading Edge Maneuver Flap
 - Fly-by-wire flight control
 - Advanced Technology High Thrust-to-Weight Engine
 - Aces II Ejection Seat

ARMAMENT

| TYPE | NO. |
|------------------------------|-----|
| Gun | |
| M-61A1 20mm | 1 |
| Missile (A-A) | |
| AIM-9L, M, N, P | 6 |
| AIM-20 | 6 |
| Guided Bomb | |
| GBU-10B, A/B | 4 |
| GBU-12B, A/B, B/B, C/B, B/B | 8 |
| Conventional Bombs | |
| MK-82, MK-82 Snakeeye, MK-36 | 12 |
| MK-84 | 4 |
| BLU-1C/B | 8 |
| BLU-52 | 4 |
| Missile (A-G) | |
| AGM-65A, B, D | 6 |
| LAU-3/A, B/A, C/A, 5003A | 4 |
| Dispenser | |
| SUU-30H/B | 10 |
| MK-20 MOD/3, 4, 6 | 12 |
| BL-755 MK-2 | 6 |
| M129E2, MC-1 | 4 |
| Nuclear | |
| B57, B61 | 5 |
| Training | |
| SUU-20B/A, ACMI, TER-9/A | 4 |

CHARACTERISTICS SUMMARY BASIC MISSION F-16C Block 30 thru 30C



AIR SUPERIORITY

| PERFORMANCE | | | | | | | | |
|---|--|--|-----------------------------|------------------|----------------|----------------|------------------------|--|
| COMBAT RADIUS | FERRY RANGE | S P E E D | | | | | | |
| 649 naut mi with 1247 lb payload at 493 knots avg in 2.74 hours | 1859 naut mi with 2113 gal fuel at 502 knots avg in 3.72 hours at 33,785 lb T.O. wt | COMBAT 1137 knots at 30,000 ft alt, max power MAX 1173 knots at 36,089 ft alt, max power | | | | | | |
| C L I M B | C E I L I N G | T A K E - O F F | | | | | | |
| T.O. weight (none) — | 36,750 ft 100 fpm, take-off weight military power | ground run 3420 ft no assist | | | | | | |
| 19,400 fpm sea level, combat weight maximum power | 50,200 ft 500 fpm, combat weight maximum power | over 50 ft. height 5920 ft no assist | | | | | | |
| L O A D | W E I G H T S | L A N D I N G D I S T. | | | | | | |
| Missiles 2 AIM-9L 2 AIM-120 with ammo, chaff & flares 1247 lb Fuel: 1073 gal internal 740 gal external | Empty 17,953 lb Combat 25,550 lb Take - off 32,883 lb | <table border="1"> <tr> <td>Ground Roll at Sea Level</td> <td>Total from 50 ft</td> </tr> <tr> <td>2405 ft</td> <td>3710 ft</td> </tr> <tr> <td colspan="2">Landing Wt = 19,753 lb</td> </tr> </table> | Ground Roll at Sea Level | Total from 50 ft | 2405 ft | 3710 ft | Landing Wt = 19,753 lb | |
| Ground Roll at Sea Level | Total from 50 ft | | | | | | | |
| 2405 ft | 3710 ft | | | | | | | |
| Landing Wt = 19,753 lb | | | | | | | | |

N O T E S

- Performance Basis:
 - General Dynamics/Fort Worth Report 16PR8705 (Performance)
 - General Dynamics/Fort Worth Report 16PR7582 (Aerodynamics)
 - General Electric computer deck G0077N/289 - Status: 12kw bleeds (engine)

Revision Basis: Initial Issue