CHARACTERISTICS SUMMARY

FIGHTER ............... F-16C BLOCK 25

GENERAL DYNAMICS

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

AVAILABILITY

Number available

PROCUREMENT

Number to be delivered in fiscal year

ACTIVE RESERVE TOTAL

STATUS

1. Single-place, single engine fighter
   Apr 72
2. Prototype Contract ......................... Feb 74
3. Prototype First Flight ..................... Jan 75
4. Full Scale Development Contract .......... Dec 76
5. Full Scale Development Airplane
   First Flight .......................... Mfr’s Model: 16
   Delivery ............................. Jul 84
   Aug 78

POWER PLANT

(1) F-100-PW-200
Pratt & Whitney

ENGINE RATINGS

SLS LB RPM

Max* 23,830 12,960
Intermed 14,590 12,980

SFC

Time Limit

Max* 2.17 5.0
Intermed 0.72 None

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
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-10/B 8
BLU-52 4
Missile (A-G)
AGM-65A, A, B, D 6
LAU-5/A, B/A, C/A, 5003A 4
Dispenser
SUU-36H/B 10
MK-20 MOD/3, 4, 6 12
BL-755 MK-2 6
M1292, MC-1 4
Nuclear
BS7, B61 5
Training
SUU-20B/A, ACM, TER-9/A 4

Mar 91
(AGF 1, Addn 108) (23 of 46)
### PERFORMANCE

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>495 naut mi</strong></td>
<td><strong>1874 naut mi</strong></td>
<td><strong>COMBAT 1088 knots at 30,000 ft alt, max power</strong></td>
</tr>
<tr>
<td>with 571 lb payload</td>
<td>with 2113 gal fuel</td>
<td></td>
</tr>
<tr>
<td>at 482 knots avg</td>
<td>at 461 knots avg</td>
<td>MAX 1118 knots at 36,089 ft alt, max power</td>
</tr>
<tr>
<td>in 2.21 hours</td>
<td>in 4.08 hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>at 32,614 lb T.O. wt</td>
<td></td>
</tr>
</tbody>
</table>

### CLIMB

<table>
<thead>
<tr>
<th>T.O. weight (none)</th>
<th>39,600 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 fps, take-off weight military power</td>
<td>3195 ft</td>
</tr>
</tbody>
</table>

### TAKE-OFF

<table>
<thead>
<tr>
<th>19,884 fpm</th>
<th>52,300 ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sea level, combat weight maximum power</td>
<td>5425 ft</td>
</tr>
</tbody>
</table>

### LOAD

<table>
<thead>
<tr>
<th>Missiles ..........</th>
<th>2 AIM-9L</th>
</tr>
</thead>
<tbody>
<tr>
<td>with ammo, chaff &amp; flares 571 lb</td>
<td></td>
</tr>
</tbody>
</table>

### WEIGHTS

<table>
<thead>
<tr>
<th>Empty .............</th>
<th>16,773 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combat ............</td>
<td>25,482 lb</td>
</tr>
<tr>
<td>Take-off ...........</td>
<td>30,810 lb</td>
</tr>
</tbody>
</table>

### STALLING SPEED

<table>
<thead>
<tr>
<th>Ground Roll at Sea Level</th>
<th>Total from 50 ft</th>
<th>Landing wt = 18,311 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>2298 ft</td>
<td>3765 ft</td>
<td></td>
</tr>
</tbody>
</table>

### NOTES

1. Performance Basis:
   (a) General Dynamics/Fort Worth Report 16PR8704 (performance)
   (b) General Dynamics/Fort Worth Report 16PR7582 (aerodynamics)
   (c) Pratt & Whitney Computer Deck CCD 1151-3.1 – Status: 8.6kw bleeds (engine)

Revision Basis: Initial Issue