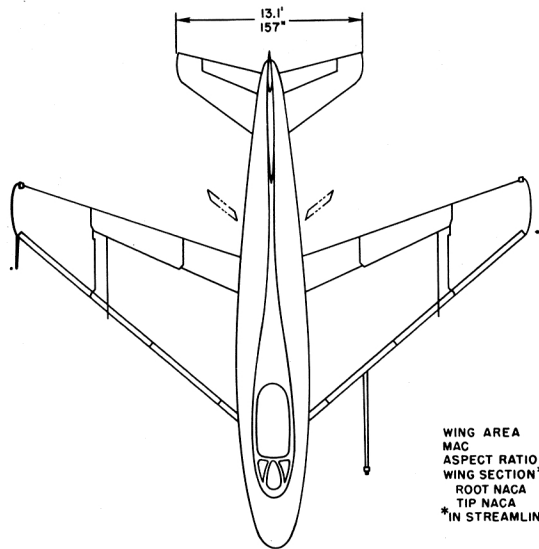
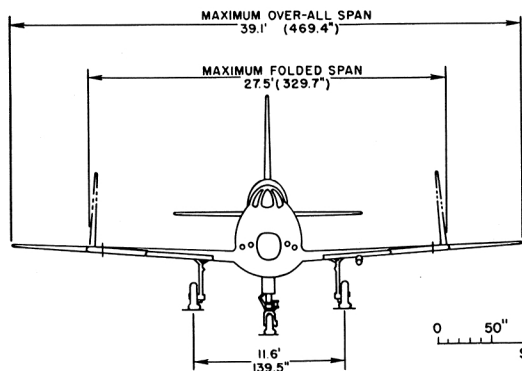


STANDARD AIRCRAFT CHARACTERISTICS
FJ-4 "FURY"
NORTH AMERICAN

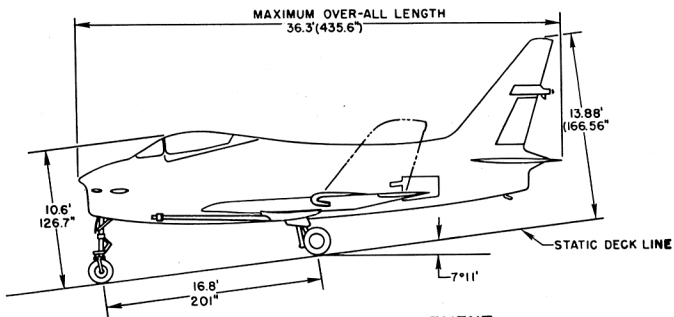
Standard Aircraft Characteristics NAVAER 1335A (REV. 1-55)



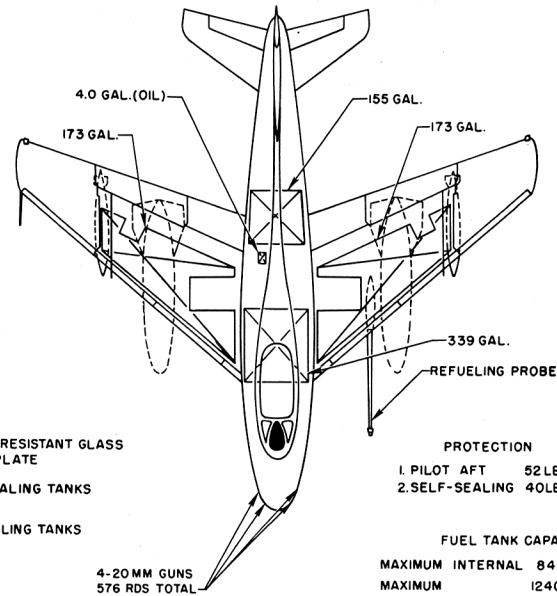
WING AREA 338.66
 MAC 114.42
 ASPECT RATIO 4.48
 WING SECTION*
 ROOT NACA 64A006 MODIFIED
 TIP NACA 64A006 MODIFIED
 *IN STREAMLINE



0 50" 100" 200"
 SCALE



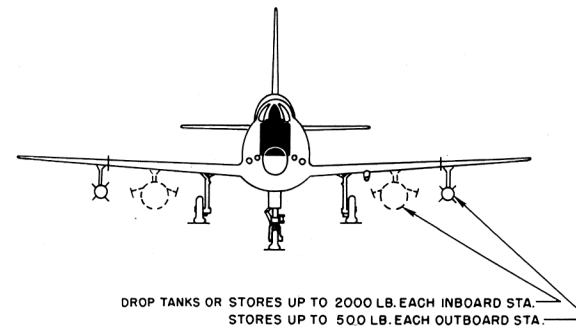
DESCRIPTIVE ARRANGEMENT



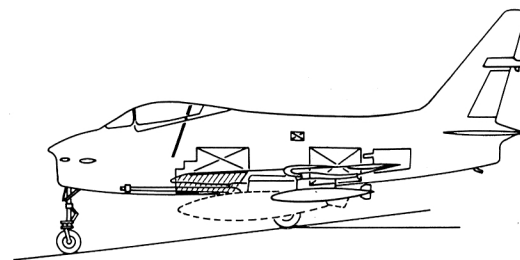
■ BULLET RESISTANT GLASS ARMOR PLATE
 ▨ SELF-SEALING TANKS
 ⊠ NON-SEALING TANKS

PROTECTION
 1. PILOT AFT 52 LBS
 2. SELF-SEALING 40 LBS

FUEL TANK CAPACITY
 MAXIMUM INTERNAL 840 GAL.
 MAXIMUM 1240 GAL.



DROP TANKS OR STORES UP TO 2000 LB. EACH INBOARD STA.
 STORES UP TO 500 LB. EACH OUTBOARD STA.



ARMAMENT & TANKAGE

Standard Aircraft Characteristics NAVIER 1335B (Rev. 1-55)

POWER PLANT

NO. & MODEL (1) J65-W-16A
MFR Wright Aero. Corp.
TYPE Axial Flow
LENGTH 128.0"
DIAMETER 37.5"
AUGMENTATION None

RATINGS

	LBS	@	RPM
T.O.	7700		8300
MIL.	7700		8300
NORM.	6780		8030

Sea Level Static

Spec. No. W.A.D. N890A

MISSION AND DESCRIPTION

The primary mission of the FJ-4 airplane is the destruction of hostile aircraft in flight. The secondary mission is to attack hostile ground or water-borne installations by employment of gun fire.

The FJ-4 airplane is a single-seat, carrier-based, day fighter capable of operating from an H8 catapult and a MK 5 or MK 7 arresting gear. Special features of this airplane are swept-back wing and tail, hydraulic speed brakes, 6 percent thick machined skin wing, hydraulic power-operated irreversible controls with artificial feel for the all-movable horizontal tail and ailerons and wing flaps for landing.

The cockpit is provided with differential pressurization, adequate heating and cooling, a jettisonable canopy, an ejection-type seat and anti-G suit provisions.

Design maximum dive speed is 600 knots EAS.
Design maximum Mach number is 1.345.

DEVELOPMENT

First Flight 28 October 1954
Service Use (Fleet Delivery) 24 July 1956

WEIGHTS

LOADINGS	LBS	L.F.
EMPTY	13,210
BASIC	13,721
DESIGN	16,500	6.5
COMBAT	17,845
MAX. TAKE-OFF	22,000
MAX. LANDING (Fld.)	18,000
MAX. LANDING (Carr.)	17,000

All weights are actual.

FUEL AND OIL

GALS.	NO. TANKS	LOCATION
346	2	Wing
494	2	Fuselage

FUEL GRADE JP-4 or JP-5
FUEL SPEC (applicable) MIL-F-5624

OIL

CAPACITY (Gals.) 4.0
SPEC (applicable) MIL-L-7808

ORDNANCEGUNS:

4-20mm/500 rds.
Type - MK 12 Mod 3
Feeder - MK 9 Mod 4 and 5
Gun camera - AN-N-6A
Fire Control System - MK 16 Mod 1
sight unit - MK 8 Mod 8

STORES:

	NO.
Sidewinder	4
Aero 6 rocket pkg.	4
Aero 7 rocket pkg.	4
Aero 10 rocket pkg.	4
5 in. HVAR	4
260 lb. frag. bomb	4
500 lb. L.D. or G.P.	4
1000 lb. G.P. bomb	2
1000 lb. L.D. bomb	2
2000 lb. L.D. bomb	2

DIMENSIONSWING

AREA 338.66 sq. ft.
SPAN 39' - 1"
M.A.C. 9' - 6"
SWEEPBACK 35 deg.

LENGTH 36' - 4"
HEIGHT 13' - 11"
TREAD 11' - 7"

ELECTRONICS

UHF XMTR-RCVR AN/ARC-27A
UHF AUTO DIR FINDER AN/ARA-25
IFF TRANSPONDER AN/APX-6B
RADAR AN/APG-30A
OMNI-RANGE RCVR AN/ARN-14E
COMPLETE PROVISIONS FOR AN/ARN-21

PERFORMANCE SUMMARY

TAKE-OFF LOADING CONDITION	(1) GENERAL PURPOSE FIGHTER CLEAN	(3) GENERAL PURPOSE FIGHTER 4 SIDEWINDERS	(5) GENERAL PURPOSE FIGHTER TWO-200 GAL. TANKS 2 SIDEWINDERS	(7) GROUND SUPPORT FOUR-500 LB. S.L. BOMBS	(8) GROUND SUPPORT TWO-200 GAL. TANKS TWO AERO 6B ROCKET PACKAGES
TAKE-OFF WEIGHT lb.	20,130	21,221	23,812	22,396	23,700
Fuel - Internal/External (JP-5) lb.	5712/0	5712/0	5712/2720	5712/0	5712/2720
Fayload lb.	370	370	680	2370	664
Wing loading lb./sq.ft.	59.5	62.7	70.3	66.1	70.0
Stall speed - power-off kn.	120.5	124.1	132.5	127.9	132.2
Take-off run at S.L. - calm ft.	2900	3400	4600	3900	4550
Take-off run at S.L. 25 kn. wind ft.	2150	2500	3350	2880	3330
Take-off to clear 50 ft. - calm ft.	4250	4800	6370	5450	6300
Max. speed/altitude (A) kn./ft.	591/S.L.	567/S.L.	536/10,000	567/S.L.	535/10,000
Rate of climb at S.L. (A) fpm.	6650	6000	4550	5700	4600
Time: S.L. to 20,000 ft. (A) min.	3.9	4.1	5.5	4.4	5.5
Time: S.L. to 30,000 ft. (A) min.	6.3	7.0	9.8	7.5	9.7
Service ceiling (100 fpm) (A) ft.	46,200	44,400	41,800	43,000	41,800
Combat range n.mi.	1290	1185	1755	1220	1755
Average cruising speed kn.	464	452	453	460	453
Cruising altitude(s) ft.	43,400 - 47,000	41,900 - 45,000	38,800 - 46,000	40,500 - 44,500	38,800 - 45,000
Combat radius/Mission Time n.mi./hr.	450/2.3	415/2.1	730/3.6	425/2.2	555/2.8
Average cruising speed kn.	464	457	451	460	448
CAP - Loiter Altitude/Loiter Time/Mission Time (B) ft./hr./hr.	35,000/1.4/2.4	35,000/1.2/2.2	35,000/2.7/3.8		
IFR - Radius/Mission Time (C) n.mi./hr.	--	--	1065/5.3		
COMBAT LOADING CONDITION	(2) CLEAN	(4) SIDEWINDERS RETAINED	(6) SIDEWINDERS RETAINED		
COMBAT WEIGHT lb.	17,845	18,936	20,712		
Engine power	Military	Military	Military		
Fuel lb.	3427	3427	5712		
Combat speed/combat altitude kn./ft.	548/35,000	536/35,000	534/35,000		
Rate of climb/combat altitude fpm/ft.	3000/35,000	2310/35,000	2070/35,000		
Combat ceiling (500 fpm) ft.	46,800	44,500	43,300		
Rate of climb at S.L. fpm.	7660	6890	6140		
Max. speed at S.L. kn.	591	568	572		
Max. speed/altitude kn./ft.	591/S.L.	569/10,000	572/5000		
LANDING WEIGHT lb.	15,333	15,811	15,751		
Fuel lb.	915	910	1061		
Stall speed - power-off/approach power kn./kn.	105/103	106.6/104.5	106.5/104.4		
Distance - ground roll/over 50' obstacle ft./ft.	4420/5650	4540/5780	4530/5770		

NOTES

PERFORMANCE BASIS: Contractor and NATC Flight Test data.

RANGE and RADIUS based on contractor and NATC Flight Test data.

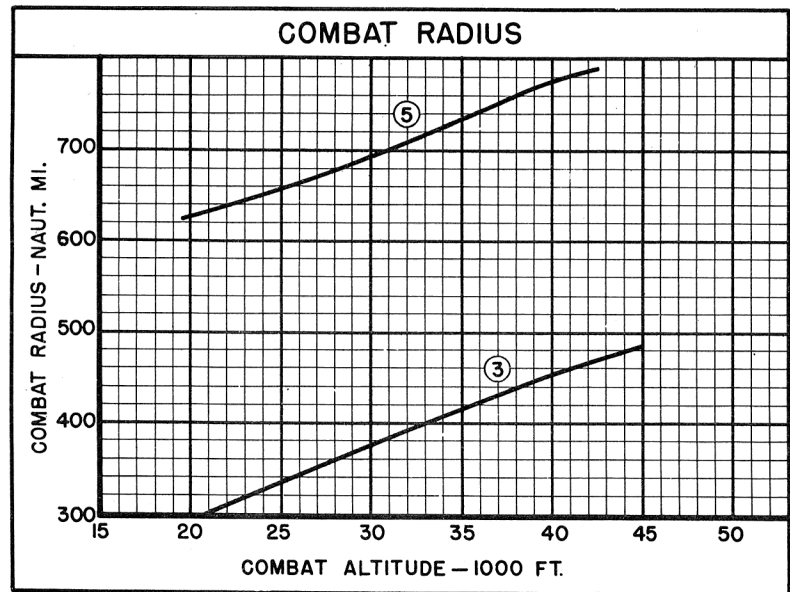
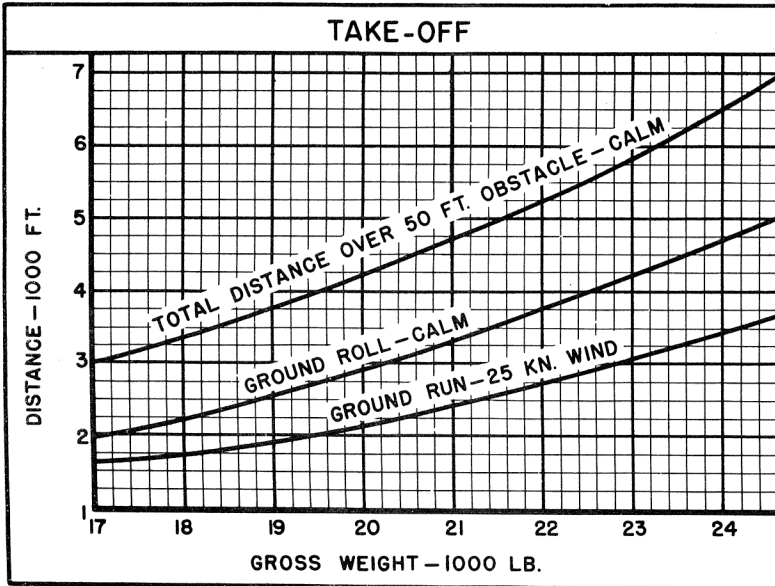
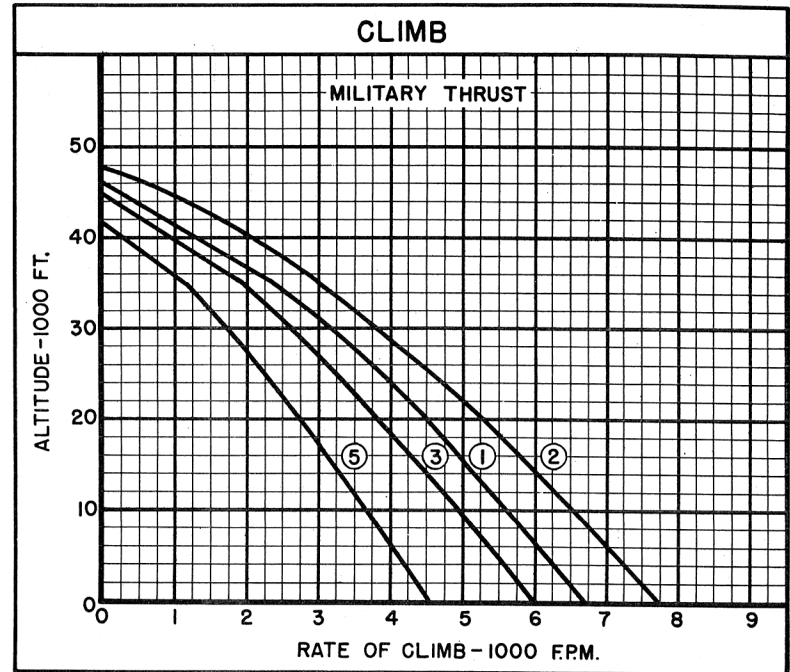
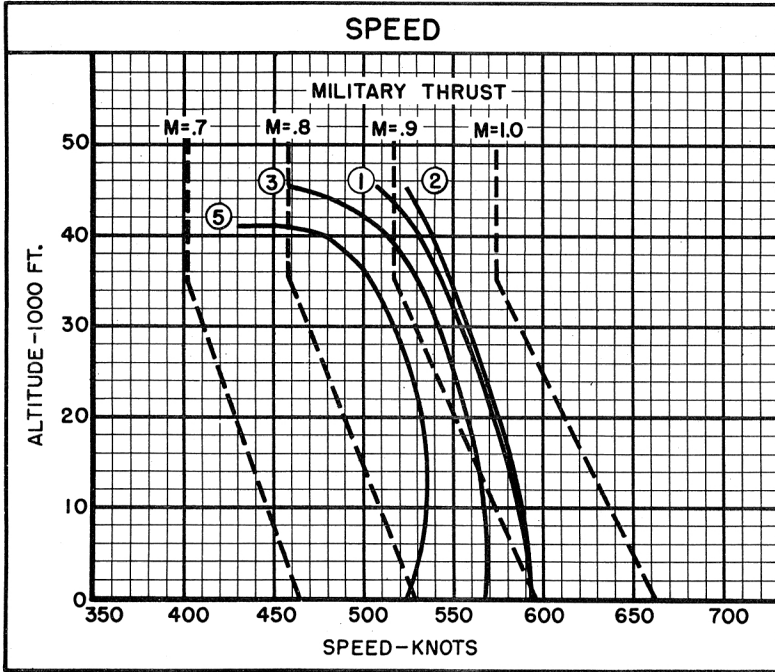
(A) MILITARY RATED THRUST

(B) COMBAT AIR PATROL - 150 n.mi. radius.

(C) IN-FLIGHT REFUELING from FJ-4B Buddy Tanker - outbound only.
Transfer 3163 lbs. at 35,000 ft. and 437 n.mi. out.

MISSION TIME: Any time where fuel is used and distance gained plus
Combat time and Loiter time.

SPOTTING: A total of 78 airplanes can be accommodated in a landing
spot on the flight and hangar decks of a CVA-19 class angled deck
carrier.



○ LOADING CONDITION COLUMN NUMBER

Standard Aircraft Characteristics NAVAER 1335E (Rev. 1-55)

NOTES

LOADING (All data based on JP-4)	TAKE-OFF WEIGHT	GENERAL PURPOSE FIGHTER		COMBAT AIR PATROL △ LOITER TIME
		△ COMBAT RADIUS	△ MISSION TIME	
Clean	19,878	-43 n.mi.	-.19 hr.	-.20 hr.
4 Sidewinders	20,969	-40 n.mi.	-.18 hr.	-.18 hr.
Two-200 Gal. Tanks, 2 Sidewinders	23,450	-50 n.mi.	-.22 hr.	-.24 hr.

GENERAL PURPOSE FIGHTER

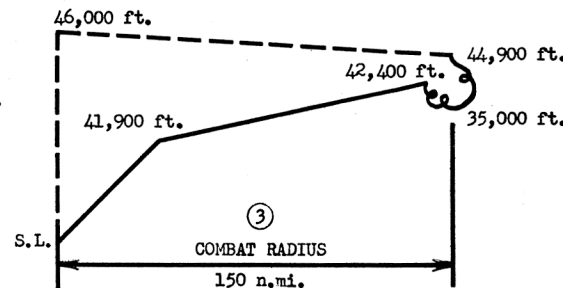
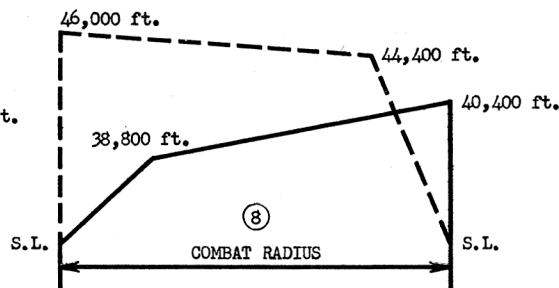
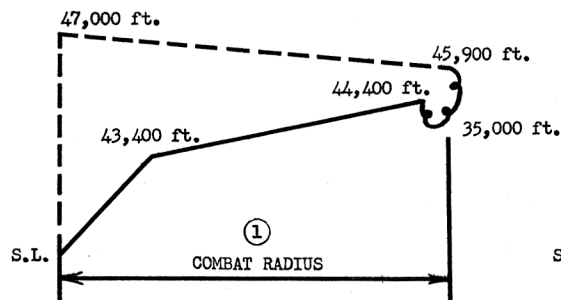
WARM-UP, TAKE-OFF AND ACCELERATE: 5 minutes at normal rated thrust at sea level.
 CLIMB: On course to cruise altitude with military rated thrust.
 CRUISE-OUT: At altitudes and speeds for maximum range.
 DESCEND: To 35,000 ft. (no distance gained, no fuel used).
 COMBAT FUEL ALLOWANCE: At 35,000 ft. with military rated thrust for 20 minutes (Assume aircraft at initial return cruise altitude at end of combat).
 CRUISE-BACK: At altitudes and speeds for maximum range.
 RESERVE: 5% of initial fuel load plus 20 minutes at speed for maximum endurance at sea level.

GROUND SUPPORT

WARM-UP, TAKE-OFF AND ACCELERATE: 5 minutes at normal rated thrust at sea level.
 CLIMB: On course to cruise altitude with military rated thrust.
 CRUISE-OUT: At altitudes and speeds for maximum range.
 DESCEND: To sea level (no distance gained, no fuel used).
 LOITER: At sea level for 10 minutes at speed for maximum endurance.
 COMBAT FUEL ALLOWANCE: At sea level for 10 minutes at military rated thrust.
 CLIMB: On course to cruise altitude with military rated thrust.
 CRUISE-BACK: At altitudes and speeds for maximum range.
 RESERVE: 5% of initial fuel load plus 20 minutes at speed for maximum endurance at sea level.

COMBAT AIR PATROL

WARM-UP, TAKE-OFF AND ACCELERATE: 5 minutes at normal rated thrust at sea level.
 CLIMB: On course to cruise altitude with military rated thrust.
 CRUISE-OUT: To point 150 n.mi. from base at altitudes and speeds for maximum range.
 LOITER: On station at altitude and speed for maximum endurance.
 DESCEND: To 35,000 ft. (no distance gained, no fuel used).
 COMBAT FUEL ALLOWANCE: At 35,000 ft. with military rated thrust for 20 minutes (Assume aircraft at initial return cruise altitude at end of combat).
 CRUISE-BACK: At altitudes and speeds for maximum range.
 RESERVE: 5% of initial fuel load plus 20 minutes at speed for maximum endurance at sea level.



○ LOADING CONDITION COLUMN NUMBER