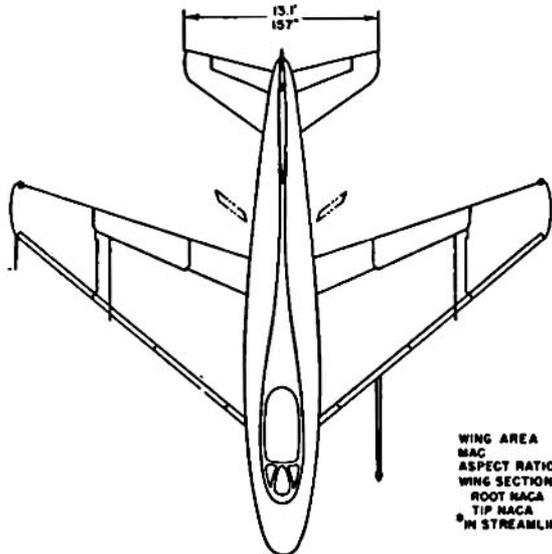
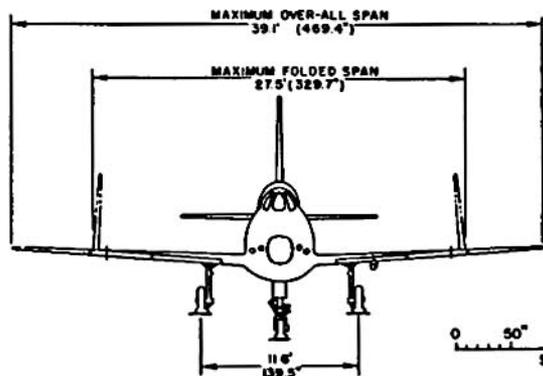


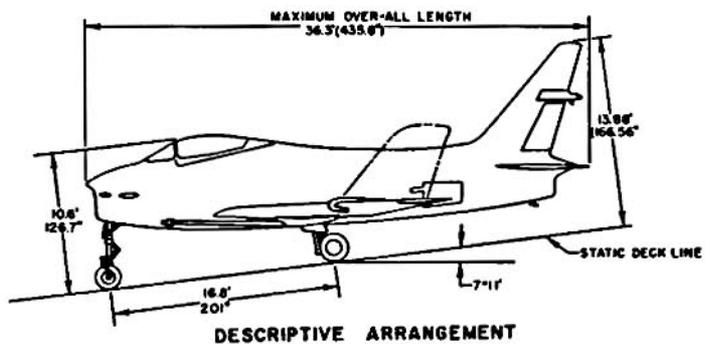
STANDARD AIRCRAFT CHARACTERISTICS
F-1E FURY
NORTH AMERICAN



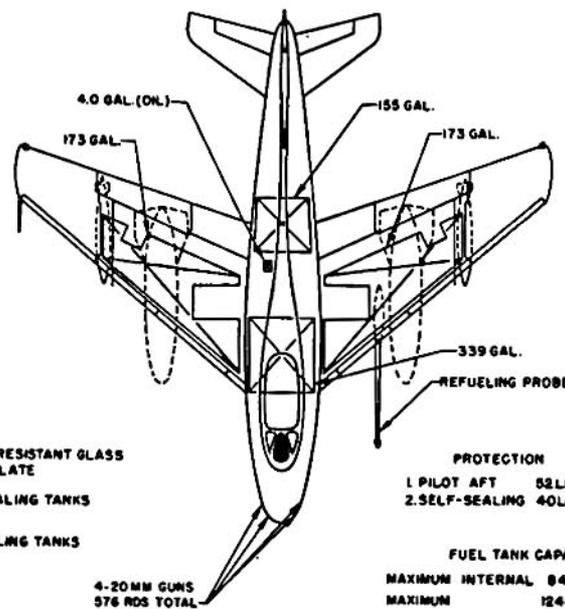
WING AREA 338.66
 MAC 114.42
 ASPECT RATIO 4.48
 WING SECTION *
 ROOT NACA 64A008 MODIFIED
 TIP NACA 64A008 MODIFIED
 IN STREAMLINE



0 50" 100" 200"
 SCALE



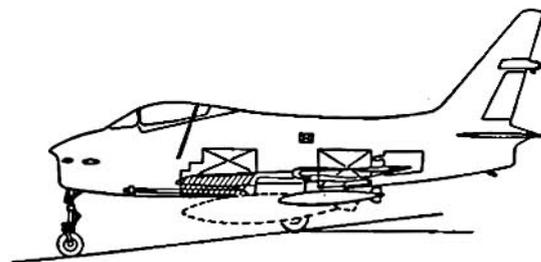
DESCRIPTIVE ARRANGEMENT



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

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

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



ARMAMENT & TANKAGE

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 68 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
Payload	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. 6690	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.

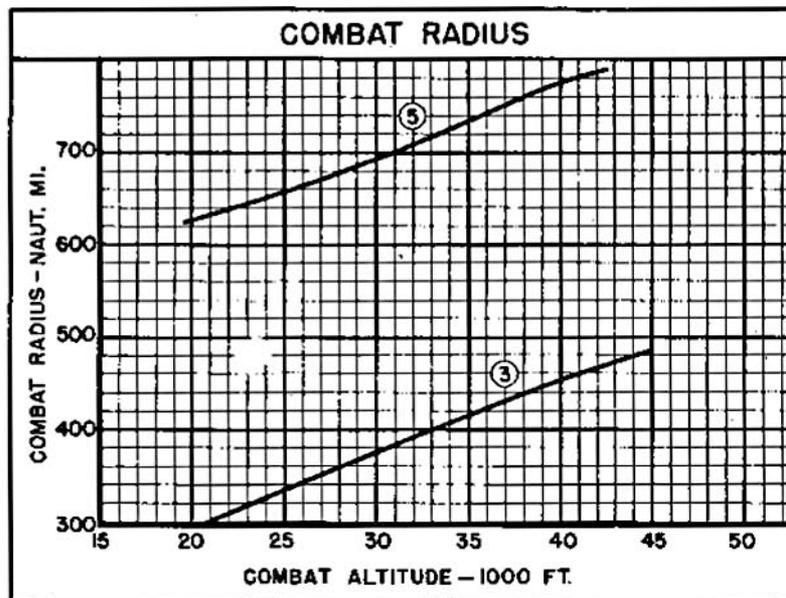
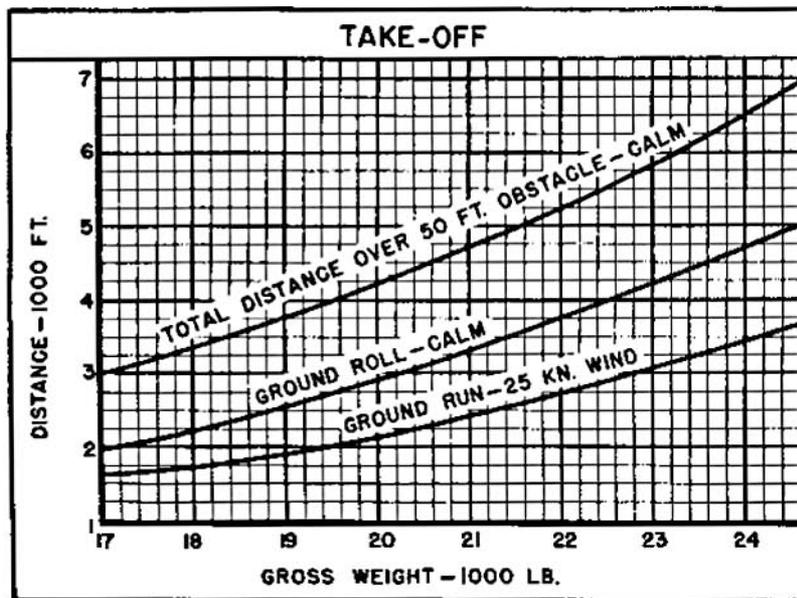
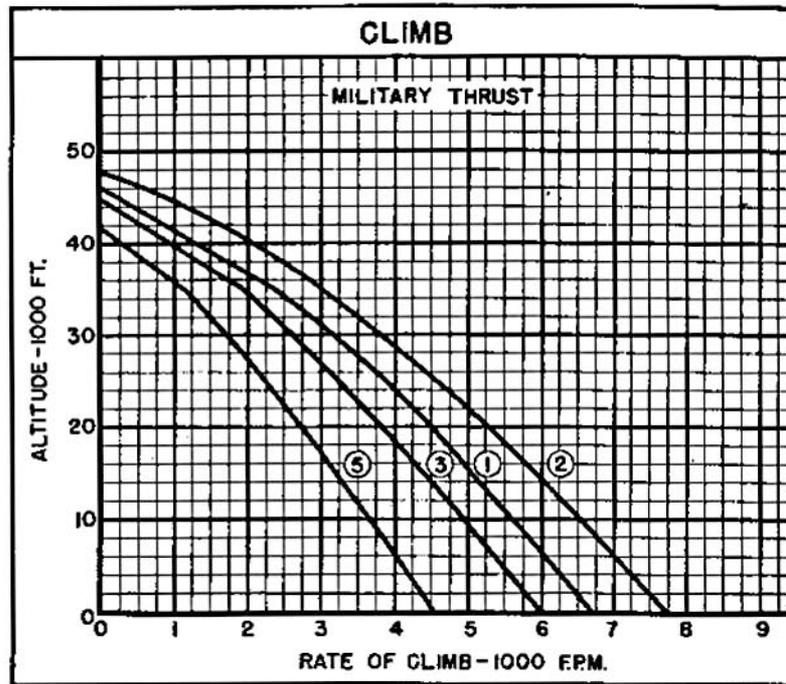
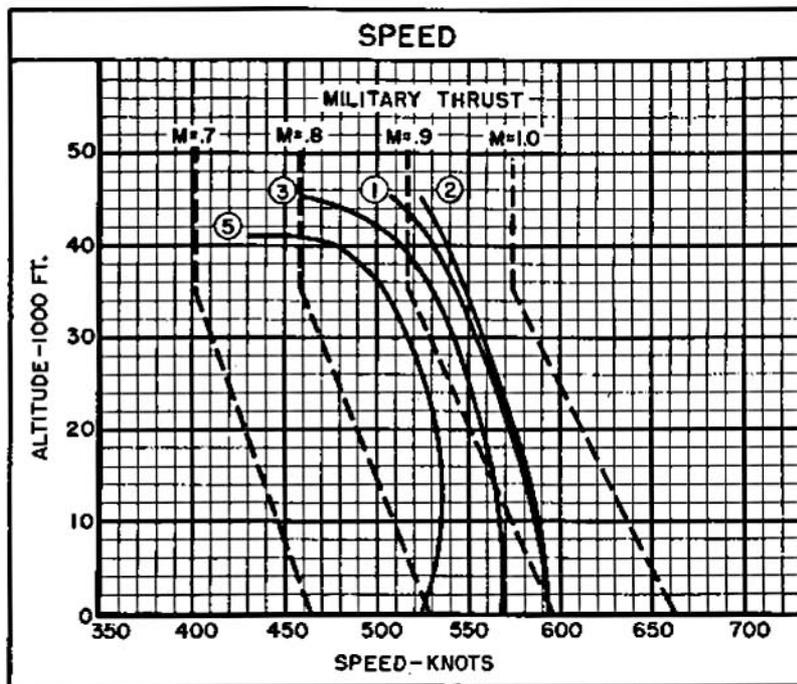
(A) MILITARY RATED THRUST

(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

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

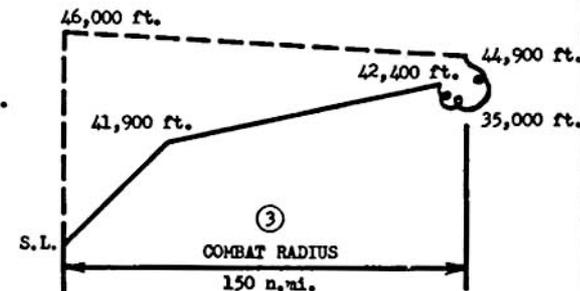
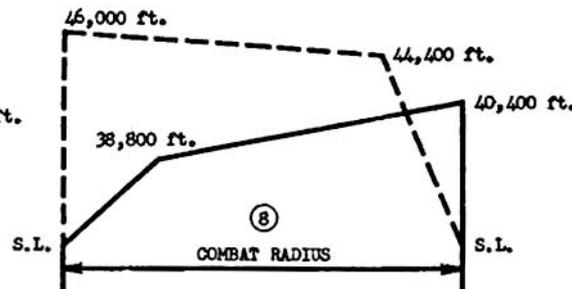
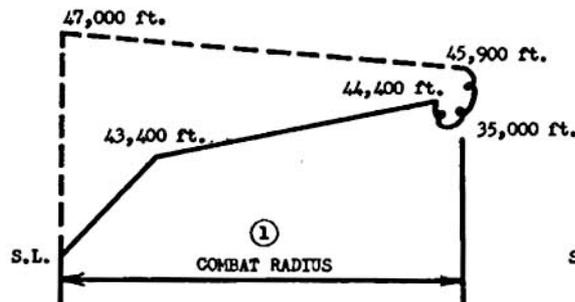
WARM-UP, TAKE-OFF AND ACCELERATE: 5 minutes at normal rated thrust at sea level.
 CLIMB: On course to cruise altitude with military rated thrust.
 CRUISE-OUT: At altitudes and speeds for maximum range.
 DESCEND: To 35,000 ft. (no distance gained, no fuel used).
 COMBAT FUEL ALLOWANCE: At 35,000 ft. with 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