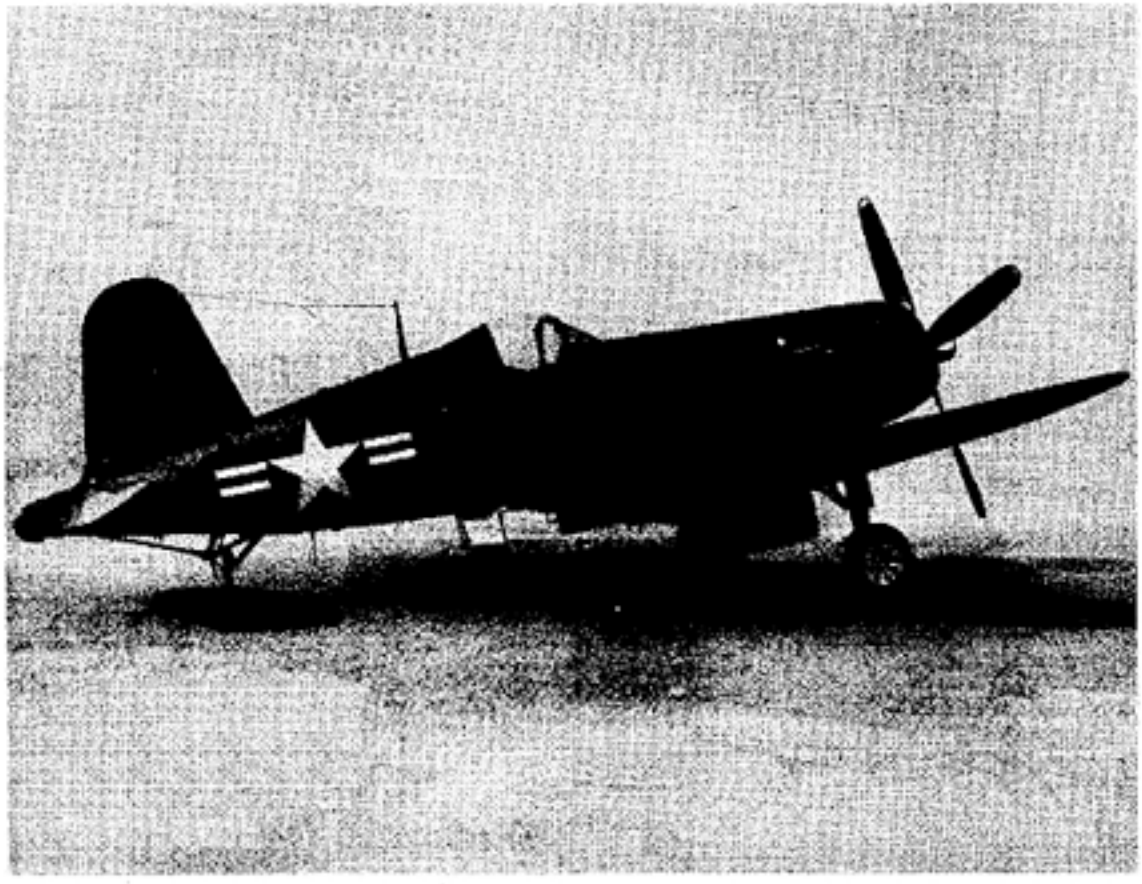
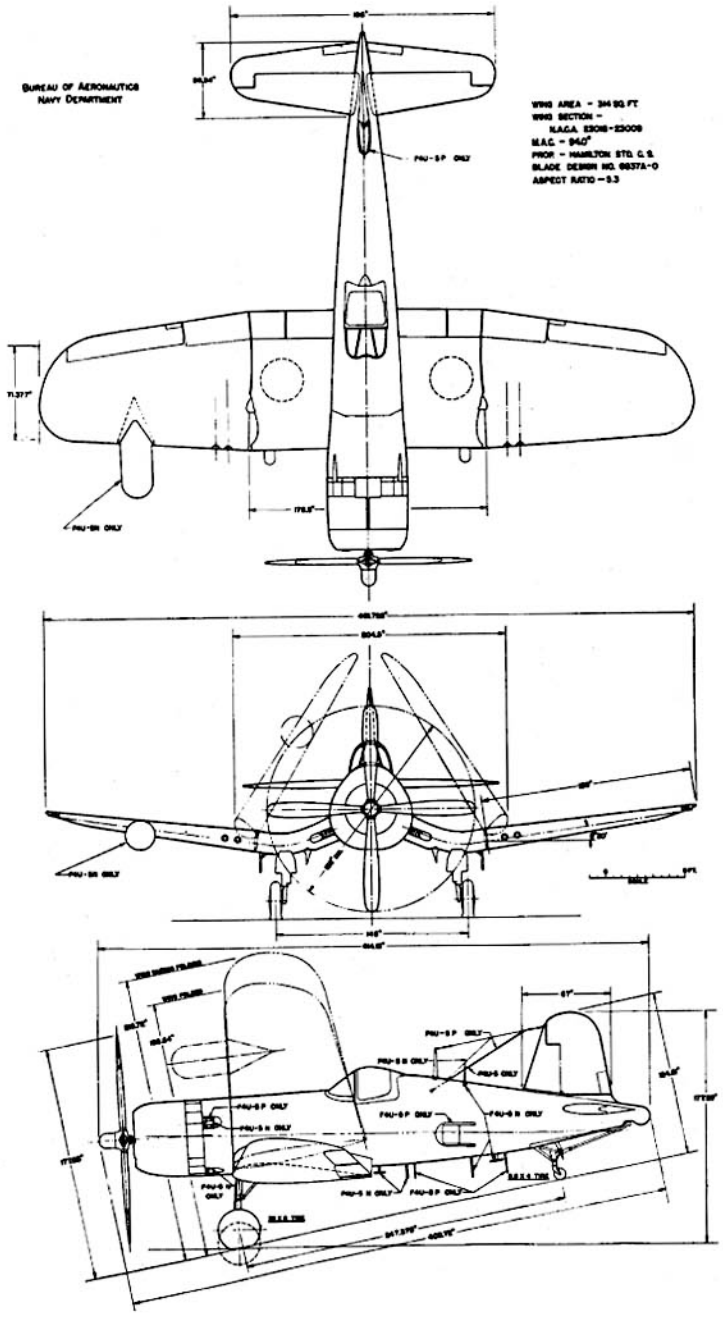
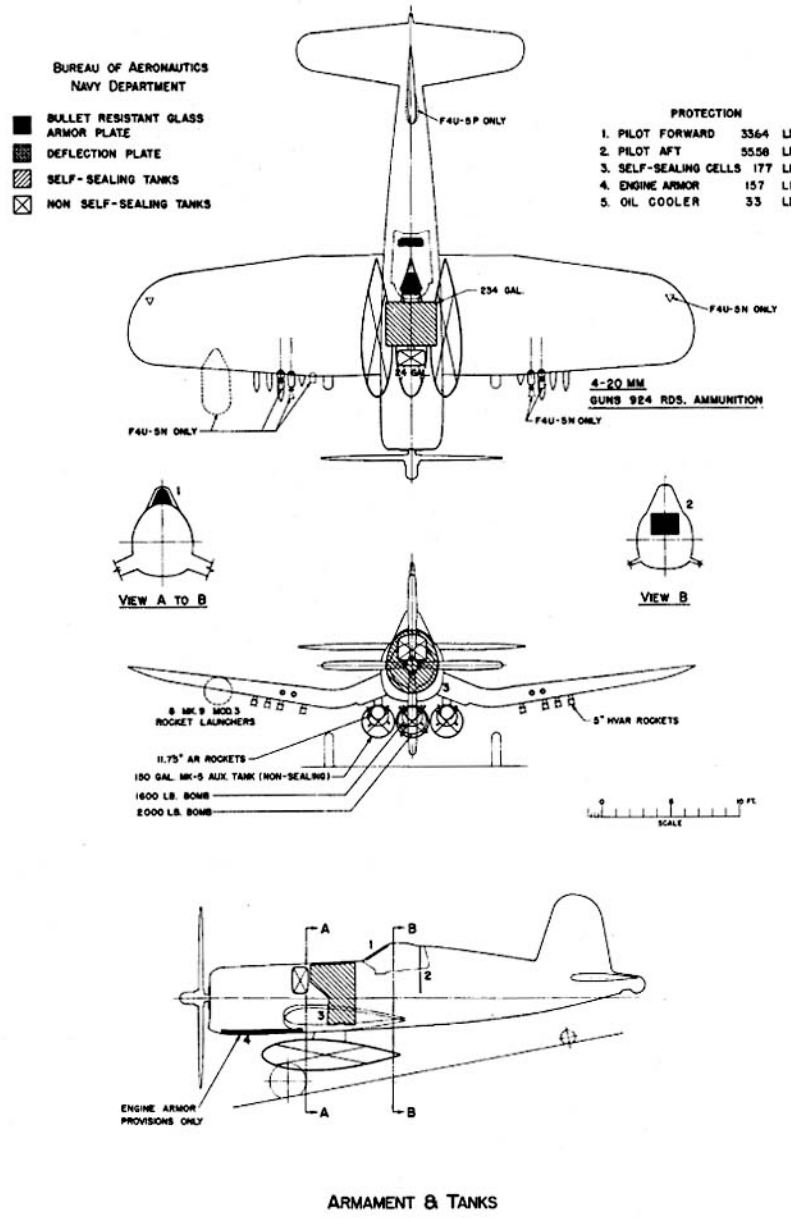


STANDARD AIRCRAFT CHARACTERISTICS

F4U-5P "CORSAIR"

CHANCE VOUGHT





Standard Aircraft Characteristics NAVAER 1335B (REV. 1-49)

POWER PLANT

NO. & MODEL....(1) R-2800-32W
MFR.....Pratt and Whitney
SUPERCH...2 Stage, Var. Speed
PROP. GEAR RATIO.....0.450
PROP. MFR.....Hamilton Stan.
PROP. DES. NO.....6837A-0
NO. BL./DIA.....4/13'-2"

RATINGS

	Bhp @	Rpm @	Alt.
T. O.	2,300	2,800	S. L.
COMB.	2,675	2,800	S. L.
	2,120	2,800	30,000'
MIL.	2,300	2,800	S. L.
	1,800	2,800	30,000'
NORM.	1,900	2,600	S. L.
	1,500	2,600	30,000'

SPEC. NO. E-8119

ORDNANCE

GUNS

No.	Size	Location	Rds.
4	20mm M-3	Wings	924

Mk. 6-0..Fire Control System

BOMBS AND ROCKETS

Type	Size	Location	No.
A.R.	11.75"	Wing	2
Bomb	500#	Wing	2
Bomb	1,600#	Wing	2
A.R.	11.75"	Fuselage	1
Bomb	500#	Fuselage	1
Bomb	2,000#	Fuselage	1

CAMERAS

One camera, vertical or oblique. May be K-18 (24") or K-17 (6" or 12" or 24") or S-7S (vertical only).

MAX. BOMB CAP.....5,200 lbs.

MISSION AND DESCRIPTION

The F4U-5P is a high-performance, propeller driven, single-seat, land-based or carrier-based photographic fighter and is also suitable for use as a general purpose fighter.

Except for the photographic equipment and its installation this airplane is essentially the same as the F4U-5.

DIMENSIONS

WING AREA.....314 sq. ft.
SPAN.....41' - 0"
LENGTH.....34' - 0"
HEIGHT.....14' - 9"
TREAD.....12' - 1"
M.A.C.....7' - 10"

WEIGHTS

Loadings	Lbs.	L.F.
EMPTY	9,756	
BASIC	10,723	
DESIGN	12,000	7.0
COMBAT	13,533	6.2
MAX.T.O.(Field)	18,300*	4.6
(Cat.)	18,300	
MAX.LAND.(Field)	15,000	
(Arrest)	14,000	

All weights are actual.
* Limited by flight characteristics

FUEL AND OIL

Gals.	No. Tanks	Location
234	1	Fuse. Seal
300	2	Wing, Drop

FUEL GRADE.....115/145
FUEL SPEC....MIL-F-5572

OIL

CAPACITY (Gals.).....25.5
GRADE.....1100
SPEC.....MIL-O-6082

ELECTRONICS

VHF.....AN/ARC-1
UHF COMM.....AN/ARC-27
(P.S.I., Repl. for AN/ARC-1)
RANGE REC.....R-23/ARC-5
HOMING.....AN/ARR-2A
VISUAL HOMING.....AN/ARN-21
(P.S.I., Repl. for ARR-2A and R-23/ARC-5)
ALTIMETER.....AN/APN-1
IFF.....AN/APX-1
IFF.....AN/APX-6
(Service Installation)

PERFORMANCE SUMMARY

TAKE-OFF LOADING CONDITION		(1) PHOTOGRAPHIC 1-150 Gal. External Tank				
TAKE-OFF WEIGHT	lb.	14,567				
Fuel (Fixed/Drop)	lb.	1,404/900				
Payload (Ammunition)	lb.	519				
Wing loading	lb./sq.ft.	46.4				
Stall speed - power-off	km.	87.6				
Take-off run at S.L. - calm	ft.	900				
Take-off run at S.L. 25 km. wind	ft.	450				
Take-off to clear 50 ft. - calm	ft.	--				
Max. speed/altitude (1)	km./ft.	343/30,000				
Rate of climb at S.L. (1)	fpm	2,575				
Time: S.L. to 10,000 ft. (1)	min.	4.0				
Time: S.L. to 20,000 ft. (1)	min.	8.4				
Service ceiling (100 fpm) (1)	ft.	37,700				
Combat range	n.mi.	790				
Average cruising speed	km.	198				
Cruising altitude(s)	ft.	15,000				
Combat radius	n.mi.	215				
Average cruising speed	km.	202				
COMBAT LOADING CONDITION		(2) 3-PYLONS	(3) 3-PYLONS			
COMBAT WEIGHT	lb.	13,533	13,533			
Engine power		Combat	Military			
Fuel	lb.	1,404	1,404			
Combat speed/combat altitude	km./ft.	375/15,000	355/15,000			
Rate of climb/combat altitude	fpm/ft.	3,980/15,000	3,240/15,000			
Combat ceiling (500 fpm)	ft.	43,400	38,800			
Rate of climb at S.L.	fpm	4,480	3,650			
Max. speed at S.L.	km.	328	309			
Max. speed/altitude	km./ft.	407/31,000	383/31,000			
LANDING WEIGHT	lb.	12,373				
Fuel	lb.	240				
Stall speed - power-off	km.	80.2				
Stall speed - with approach power	km.	71.4				

NOTES

(1) Normal Power

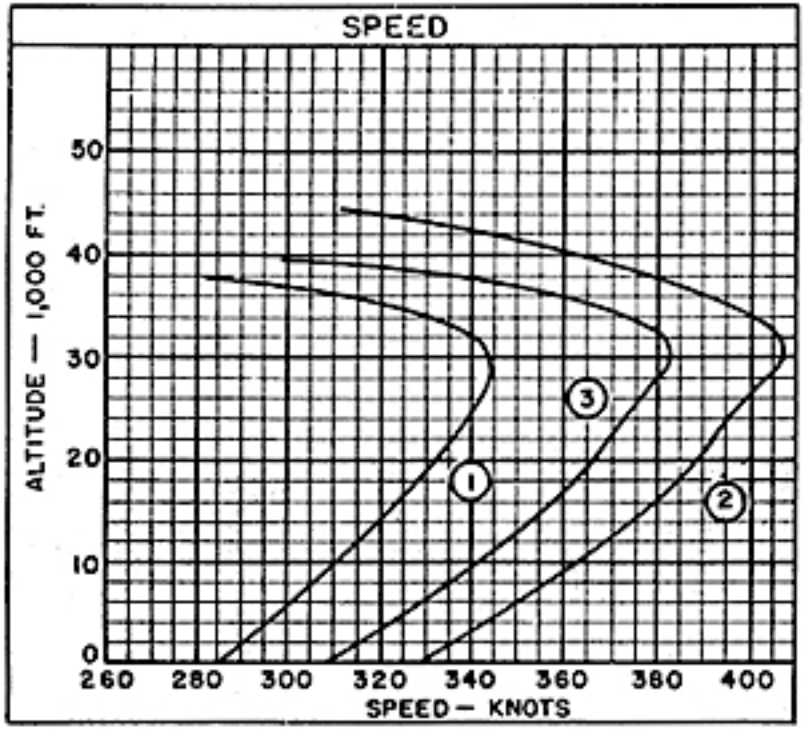
Performance is based on NATC flight test of F4U-5 airplane.

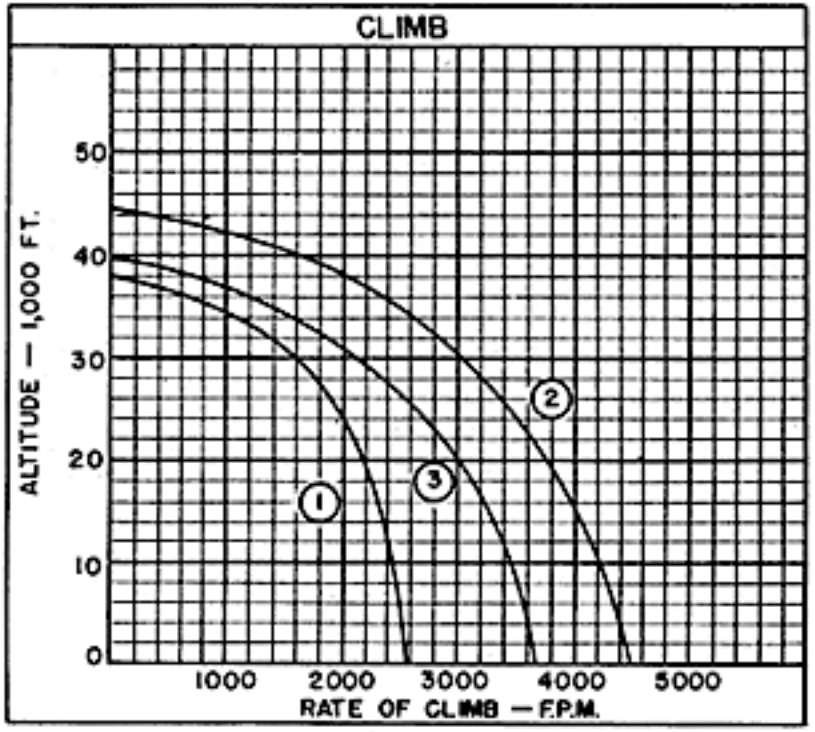
Range and radius are based on NATC flight test fuel consumption increased 5%.

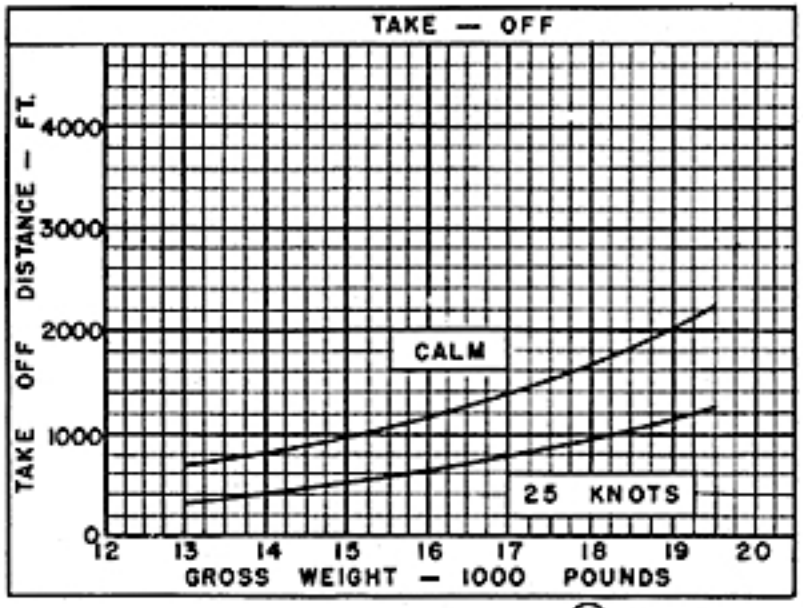
All conditions are with 3 wing pylons aboard.

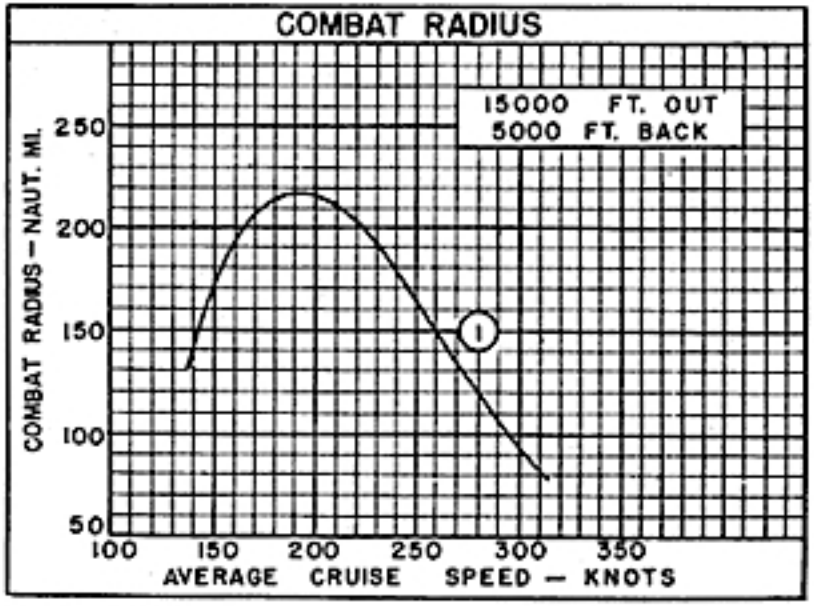
Water available for 8.6 minutes at combat power.

NAVAER-1335D (Rev. 10-51)









◯ LOADING CONDITION COLUMN NUMBER

Standard Aircraft Characteristics NAVAER 1335E (REV. 2-60)

NOTES

Spotting: 200 ft. length is required to spot 30 airplanes (wings folded) on the 96 ft. wide deck immediately aft of the forward ramp on CV-9 carriers.

GENERAL PURPOSE AND ESCORT FIGHTER COMBAT RADIUS PROBLEM (RECIPROCATING ENGINE)

WARM-UP, TAXI, TAKE-OFF: 10 minutes at normal power
CLIMB: To 15,000 feet at normal power; normal mixture
CRUISE-OUT: At 15,000 feet at V for long range; normal mixture. External tank dropped when empty.
COMBAT: 10 minutes at combat power plus 10 minutes at military power at 15,000 feet
DESCEND: To 5,000 feet
CRUISE-BACK: At 5,000 feet at V for long range; normal mixture
RESERVE: 20 minutes at V for long range at sea level plus 5% of initial fuel load

COMBAT RADIUS = CLIMB + CRUISE-OUT + CRUISE-BACK
