

# F6F-5 "Hellcat"

A/C Type: Grumman Carrier Based Fighter  
 Engine(s): One Pratt & Whitney R-2800-10W  
 Eng. Pwr: 1650 - 2200 HP, Radial Air Cooled  
 A/C Crew: Pilot

Max Speed: 380 MPH at 23,400 Feet  
 Max Ceiling: 36,000 / 29,500 / 21,300 Feet

Defense Factor: 5      Size Modifier: + 0  
 Damage Factor: 14 / 21      Endurance: 275  
 Cockpit View: Fair      Blind Area: Rear

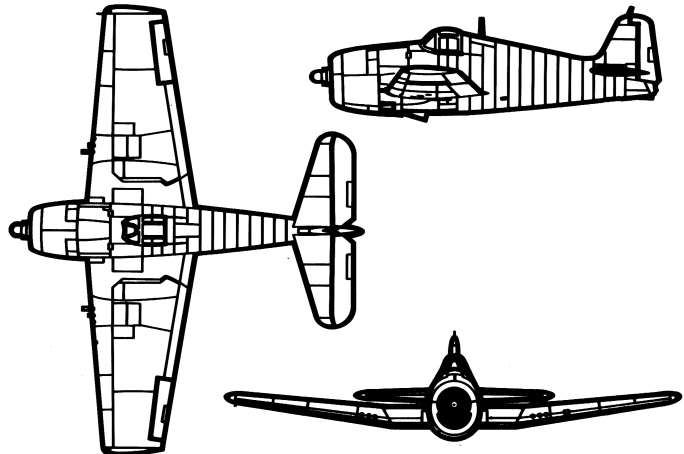
Protection: Cockpit +2    Fuel +2    Engine +0

Climb Decel / Dive Accel: 3.0 / 1.0  
 Weight and Load Limit: 3,000 / 3 - 10

Wpn. Stations	Weight	Allowed Loads
1-3 & 7-9	150	HVAR Rockets
4, 6	1,000	Bomb, Fuel Tank
5	2,000	Bomb, Fuel Tank

Country: U.S.A.

Service Entry Date: May 1944



Class: F

Victory Points: 7 - 14

## AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT (4)	Min. HT (5)	Min. BT (6)	Min. ET (7)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37 - 42	EH	—	—	—	—	—	—	—	EH	37 - 42	—
31 - 36	VH	3.0	7.0	10.0	4.0	6.0	7.0	8.0	VH	31 - 36	600
25 - 30	HI	2.5	7.5	10.5	3.5	5.0	6.5	7.5	HI	25 - 30	1,400
19 - 24	MH	2.5	7.5	10.5	3.5	4.5	5.5	6.5	MH	19 - 24	2,000
13 - 18	ML	2.0	7.5	10.5	3.0	4.5	5.0	6.0	ML	13 - 18	2,300
7 - 12	LO	2.0	7.0	10.0	2.5	4.0	4.5	5.5	LO	7 - 12	2,600
1 - 6	VL	2.0	6.5	9.5	2.5	3.5	4.5	5.0	VL	1 - 6	3,000

## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
W1-L	One .50 Calibre M2	15	3
W2-L	Two .50 Calibre M2	15	3
W3-R	Two .50 Calibre M2	15	3
W4-R	One .50 Calibre M2	15	3
(W1,W4)	One 20mm Hisp. Sz.	7	2

## GUN ATTACK FACTORS

Range	W1	W2	W3	W4	(W1, W4) Totals
0	9	18	18	9	22 54 / 80
1	7	14	14	7	16 42 / 60
2	4.5	9	9	4.5	11 27 / 40
3	3	6	6	3	7 18 / 26
4	2	4	4	2	5 12 / 18
5	1.5	3	3	1.5	4 9 / 14
6	1	2	2	1	3 6 / 10
7	—	—	—	—	— / —

## WEAPON STATIONS



## POWER VERSUS SPEED CHART

Levels	Band	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0 +	Band
43+	UH	—	—	—	—	UH
37 - 42	EH	—	—	—	—	EH
31 - 36	VH	3 / 4	1 / 2	—	—	VH
25 - 30	HI	5 / 6	2 / 3	—	—	HI
19 - 24	MH	7 / 8	4 / 5	—	—	MH
13 - 18	ML	7 / 8	4 / 5	—	—	ML
7 - 12	LO	7 / 8	4 / 5	—	—	LO
1 - 6	VL	7 / 8	4 / 5	—	—	VL
Banking FPs:		2	2	4	6	
Side Slip FPs:		3	4	6	7	

## NOTES & VARIANTS

**F6F-5:** G-suits introduced starting November, 1944 (D10 4 on or after November 1944. D10 8 after June 1945).

**F6F-5N:** Night fighter with APS-6 radar (1 decel point), IFF and radar altimeter. Reduce all ROC nos. by 100 FPM. Ceilings = 35,000 / 30,500 / 28,700 Feet. In 1945 many had APS-13 tail warning radar (D10 4). V.P.s = 8 - 16. All else as F6F-5.

**20mm F6F-5N:** April 1945 variant with 20mm cannons replacing .50 calibre M.G.s in W1 and W4. Use gun data in ( ) and firepower totals after the slash.

**Radar Data:** **APS-6** > Range = 2 to 90, H = front +30, V = ± 2 flight attitudes.  
**APS-13** > Range = 1 to 8, H = rear, V = opposite of flight attitude.

**Note:** APS-6 radar can detect surface ships up to 3 Op-scale dots away.