

Brewster Model 239

A/C Type: Single Engine Day Fighter
 Engine(s): Wright Cyclone R-1820-G5, (No F.I.)
 Eng. Pwr: 800 - 1,000 HP Radial Air Cooled
 A/C Crew: Pilot

Max Speed: 297 MPH at 15,600 Feet
 Max Ceiling: 32,500 / NA / NA Feet

Defense Factor: 5 Size Modifier: + 0
 Damage Factor: 6 / 10 Endurance: 200
 Cockpit View: Fair Blind Area: Rear

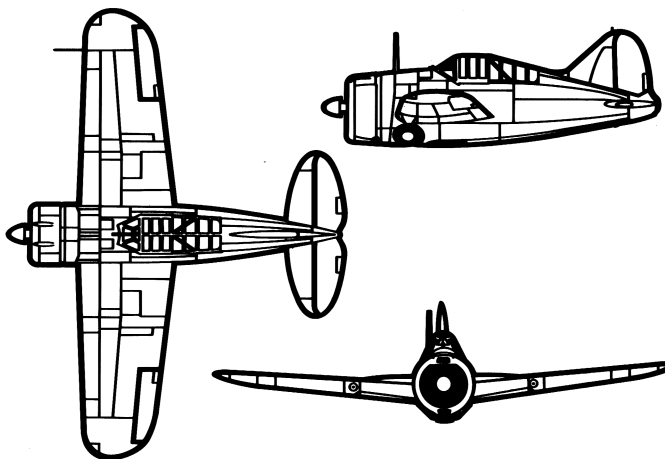
Protection: Cockpit +1 Fuel +0 Engine +0

Climb Decel / Dive Accel: 3.0 / 1.0
 Weight and Load Limit: NA

Wpn. Stations	Weight	Allowed Loads
None	NA	NA

Country: Finland

Service Entry Date: March 1940



Class: F

Victory Points: 3 - 6

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT (2)	Min. HT (3)	Min. BT (3)	Min. ET (4)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37 - 42	EH	—	—	—	—	—	—	—	EH	37 - 42	—
31 - 36	VH	2.5	5.0	10.0	3.5	5.0	6.0	7.0	VH	31 - 36	400
25 - 30	HI	2.0	5.0	10.5	3.0	4.5	5.5	6.0	HI	25 - 30	800
19 - 24	MH	2.0	5.5	11.0	3.0	4.0	5.0	5.5	MH	19 - 24	1,500
13 - 18	ML	2.0	6.0	11.0	2.5	3.5	4.5	5.0	ML	13 - 18	2,100
7 - 12	LO	1.5	5.5	10.0	2.5	3.5	4.0	4.5	LO	7 - 12	2,700
1 - 6	VL	1.5	5.5	9.0	2.0	3.0	3.5	4.0	VL	1 - 6	3,000

FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One .50 Calibre M2	8	3
N2	One .50 Calibre M2	8	3
W1-L	One .50 Calibre M2	7.5	3
W2-R	One .50 Calibre M2	7.5	3
(N1)	(One .30 Calibre Br.)	(15)	(4)

GUN ATTACK FACTORS

Range	N1	N2	W1	W2	(N1)	(Totals)
0	8	8	9	9	7	34 / 33
1	6	6	7	7	5	26 / 25
2	4	4	4.5	4.5	3	17 / 16
3	3	3	3	3	2	12 / 11
4	2	2	2	2	2	8 / 8
5	1	1	1.5	1.5	1	5 / 5
6	1	1	1	1	—	4 / 3
7	—	—	—	—	—	—

WEAPON STATIONS



None

POWER VERSUS SPEED CHART

Levels	Band	1.0 - 4.5	5.0 - 7.5	8.0 - 9.5	10.0 +	Band
37 - 42	EH	—	—	—	—	EH
31 - 36	VH	2	1	—	—	VH
25 - 30	HI	3	1	—	—	HI
19 - 24	MH	4	1.5	—	—	MH
13 - 18	ML	5	2	—	—	ML
7 - 12	LO	6	3	—	—	LO
1 - 6	VL	7	4	—	—	VL
Banking FPs:		1	2	3	5	
Side Slip FPs:		2	3	5	6	

NOTES & VARIANTS

Brewster Model 239: Export model of F2A-1, forty-four being purchased by Finland from the U.S. in late 1939. Initially had ring & bead gunsights. By June 1941, these had been replaced by normal gunsights. Weak landing gear (+05 LH to landing attrition rolls). Nicknamed "*Taivaan Helmi*" (Sky Pearl) by Finnish press. Finnish Brewsters are credited with a 26 to 1 kill ratio.

.30 Calibre Gun: Model 239 & F2A-1 originally delivered with one .30 and one .50 calibre gun in the nose. Use N1 data in () and firepower totals after slash. By June 194, the Finnish had replaced these with a second .50 calibre gun.

F2A-1 "Buffalo": Pre-war U.S. Navy model, eleven being flown by VF-3 until replaced by Brewster F2A-2s in October 1940. As Model 239 except, cockpit protection=+0, ceiling= 30,900 / NA / NA, telescope gunsight . Delete wing guns. Weak landing gear (+05 LH if on land, +15 LH if on carriers to landing attrition rolls).