

# B17C "Flying Fortress"

A/C Type: Long Range Heavy Bomber  
 Engine(s): Four Wright Cyclone R-1820-65  
 Eng. Pwr: 1000-1200 HP, Radial Air Cooled  
 A/C Crew: Two pilots, navigator, bombardier, radioman, and three crew-gunners

Maximum Speed: 283 MPH at 25,000  
 Maximum Ceiling: 36,500 / 26,700 / 17,500

Defense Factor: 7 Size Modifier: +2  
 Damage Factor: 22/33 Endurance: 800  
 Cockpit View: Good Blind Area: None

Protection: Cockpit +1 Fuel +0 Engine +0

Climb Decel / Dive Accel: 3.0/1.0

Weight and Load Limit: 4,800/7-21

Wpn Stations Weight Allowed Loads  
 2 4,800 Multiple Bombs

Country: USA

Service Entry Date: Nov, 1940

Class: H

Victory Points: 9-18

## AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT(3)	Min. HT(4)	Min. BT(5)	Min. ET(6)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37-42	EH	—	—	—	—	—	—	—	EH	37-42	—
31-36	VH	4.0	5.0	8.0	5.5	7.5	—	—	VH	31-36	200
25-30	HI	3.5	5.5	8.0	4.5	7.0	—	—	HI	25-30	300
19-24	MH	3.0	5.5	7.5	4.5	6.0	—	—	MH	19-24	500
13-18	ML	3.0	5.0	7.0	4.0	5.5	—	—	ML	13-18	700
7-12	LO	2.5	4.5	6.0	3.5	5.0	—	—	LO	7-12	900
1-6	VL	2.0	4.0	5.5	3.0	4.5	—	—	VL	1-6	1200

## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
FG	One .303 Cal MG	No limit	4
L/R/VG	One .50 Cal M2	No limit	3
DG	One .303 Cal MG	No limit	4
D-DG	Two .50 Cal M2	No limit	3
D-VG	Two .50 Cal M2	No limit	3

## GUN ATTACK FACTORS

Range	FG	L/R/VG	DG	D-DG	D-VG
0	3	5	3	10	12
1	3	4	2	7	9
2	2	3	1	5	6
3	2	2	1	3	4
4	1	1	1	2	3
5	1	1	1	2	2
6	1	1	—	1	2
7	—	—	—	1	1

## WEAPONS STATION DIAGRAM

## 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	0.5/1	0.5/1	—	—	VH
25-30	HI	0.5/1	0.5/1	—	—	HI
19-24	MH	1/1.25	0.75/1	—	—	MH
13-18	ML	1/1.25	0.75/1	—	—	ML
7-12	LO	1/1.25	—	—	—	LO
1-6	VL	1/1.25	—	—	—	VL
Banking FPs:		3	5	7	—	
Side Slip FPs:		4	6	8	—	

## DEFENSIVE GUN ARCS

FG: R or L front level (Bdr)  
 DG: Rear high+ (Rad)  
 VG: Rear low  
 RG: Right rear high to low  
 LG: Left rear high to low

Crewman in ( ) mans gun. FG in socket on either side of Bdr. Can switch in 4 tac turns of EZT or less.

**B17D:** Fall 41. Larger control surf; self sealing tanks - Fuel +1. If attacked thru front arc, Cockpit +2. All Cs upgraded to D by late fall. Ds have double .50s at DG & VG; use D-DG: & D-VG.

## NOTES AND VARIANTS

**B17B:** June 39 original USAAF version. 1K HP engines; max speed: 253 MPH; Subtract .5 from all max speeds. All 5 guns are 1x .30 cal mg. Use C's DG for attack values.

**B17C** first used vs Germans over France in July 1941. Considered too vulnerable. DG gunner in "bathtub."

# B-17B "Flying Fortress"

A/C Type: Long Range Heavy Bomber  
 Engine(s): Four Wright Cyclone R-1820-56  
 Eng. Pwr: 1000 HP, Radial Air Cooled  
 A/C Crew: Two pilots, navigator, bombardier, radioman, and two crew-gunners  
 Maximum Speed: 253 MPH at 25,000  
 Maximum Ceiling: 36,500 / 26,700 / 17,500

Defense Factor: 7 Size Modifier: +2  
 Damage Factor: 22/33 Endurance: 800  
 Cockpit View: Good Blind Area: None

Protection: Cockpit +0 Fuel +0 Engine +0

Climb Decel / Dive Accel: 2.0/1.0  
 Weight and Load Limit: 4,800/7-12

Wpn Stations Weight Allowed Loads  
 2 4,800 8 x 600lb bombs  
 internal bombbay

Country: USA

Service Entry Date: June 1939

Class: H

Victory Points: 8-17

## AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT(3)	Min. HT(4)	Min. BT(5)	Min. ET(6)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37-42	EH	—	—	—	—	—	—	—	EH	37-42	—
31-36	VH	3.5	4.5	8.0	5.5	8.0	—	—	VH	31-36	200
25-30	HI	3.0	5.0	8.0	5.0	7.5	—	—	HI	25-30	300
19-24	MH	2.5	5.0	7.5	5.0	6.5	—	—	MH	19-24	500
13-18	ML	2.5	4.5	7.0	4.5	6.0	—	—	ML	13-18	700
7-12	LO	2.0	4.0	6.0	4.0	5.5	—	—	LO	7-12	900
1-6	VL	2.0	4.0	5.5	3.5	5.0	—	—	VL	1-6	1000

## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
DG	One .30 Cal MG	No limit	4
LG/RG	One .30 Cal MG	No limit	4
FG	One .30 Cal MG	No limit	4
VG	One .30 Cal MG	No limit	4

## GUN ATTACK FACTORS

Range	DG	LG/RG	FG	VG
0	3	3	3	3
1	2	2	3	3
2	1	1	2	2
3	1	1	1	1
4	1	1	1	1
5	1	1	1	1
6	—	—	—	—
7	—	—	—	—

## WEAPONS STATION DIAGRAM

## 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	0.25/0.75	—	—	—	VH
25-30	HI	0.25/0.75	0.25/0.75	—	—	HI
19-24	MH	0.75/1	0.5/0.75	—	—	MH
13-18	ML	0.75/1	—	—	—	ML
7-12	LO	0.75/1	—	—	—	LO
1-6	VL	0.75/1	—	—	—	VL
Banking FPs:		4	6	7	—	
Side Slip FPs:		4	7	8	—	

## DEFENSIVE GUN ARCS

FG: Front High to low (Bdr)  
 DG: All high, but 6:00: High+ (Rad)  
 VG: Rear low  
 RG: Right rear -30, high to low  
 LG: Left rear -30, high to low  
 Crewman in ( ) mans gun.

## NOTES AND VARIANTS

**B-17B:** original USAAF June '39 production version. Used mostly for show.

# B17E "Flying Fortress"

A/C Type: Long Range Heavy Bomber  
 Engine(s): Four Wright Cyclone R-1820-65  
 Eng. Pwr: 1000-1200 HP, Radial Air Cooled  
 A/C Crew: Two pilots, navigator, bombardier, radioman, and four crew-gunners  
 Maximum Speed: 283 MPH at 25,000  
 Maximum Ceiling: 36,500 / 26,700 / 17,500

Defense Factor: 7 Size Modifier: +2  
 Damage Factor: 22/33 Endurance: 800  
 Cockpit View: Good Blind Area: None

Protection: Cockpit +1 Fuel +1 Engine +0

Climb Decel / Dive Accel: 3.0/1.0  
 Weight and Load Limit: 8,000/7-19

Wpn Stations Weight Allowed Loads  
 2 8,000 Multiple Bombs

Country: USA

Service Entry Date: Nov 1941

Class: H

Victory Points: 9-18

## AIRCRAFT PERFORMANCE CHART

Altitude Levels	Band	Minimum Speed	Maximum Speed	Maximum Dive Spd.	Min. TT(3)	Min. HT(4)	Min. BT(5)	Min. ET(6)	Altitude Band	Levels	Average Rate Of Climb
43+	UH	—	—	—	—	—	—	—	UH	43+	—
37-42	EH	—	—	—	—	—	—	—	EH	37-42	—
31-36	VH	4.0	5.0	8.0	5.5	7.5	—	—	VH	31-36	200
25-30	HI	3.5	5.5	8.0	4.5	7.0	—	—	HI	25-30	300
19-24	MH	3.0	5.5	7.5	4.5	6.0	—	—	MH	19-24	500
13-18	ML	3.0	5.0	7.0	4.0	5.5	—	—	ML	13-18	700
7-12	LO	2.5	4.5	6.0	3.5	5.0	—	—	LO	7-12	900
1-6	VL	2.0	4.0	5.5	3.0	4.5	—	—	VL	1-6	1000

## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
TT/BT	Two .50 Cal M2	No limit	3
TG	Two .50 Cal M2	No limit	3
LG/RG	One .50 Cal M2	No limit	3
FG	One .303 Cal MG	No limit	4

## GUN ATTACK FACTORS

Range	TT/BT	TG	LG/RG	FG
0	16	12	5	3
1	12	9	4	2
2	8	6	3	1
3	5	4	2	1
4	4	3	1	1
5	3	2	1	1
6	2	2	1	—
7	1	1	—	—

## WEAPONS STATION DIAGRAM

## 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	0.5/1	0.5/1	—	—	VH
25-30	HI	0.5/1	0.5/1	—	—	HI
19-24	MH	1/1.25	0.75/1	—	—	MH
13-18	ML	1/1.25	0.75/1	—	—	ML
7-12	LO	1/1.25	—	—	—	LO
1-6	VL	1/1.25	—	—	—	VL
Banking FPs:		3	5	7	—	
Side Slip FPs:		4	6	8	—	

## DEFENSIVE GUN ARCS

FG1: Front high to low (Bdr)  
 TT: All high, but 6:00: High+  
 BT: All low  
 RG: Right rear, high to low  
 LG: Left rear, high to low  
 TG: Rear High to low  
 Crewman in ( ) mans gun.

## NOTES AND VARIANTS

**B-17E:** Available November, 1941, Improvements over D were based on British combat reports on Cs. Considered by Boeing & USAAF as first "combat ready" B17. A dozen unarmed Es flew into Pearl Harbor during the Dec. 7th attack.