

Boeing P-26A "Peashooter"

A/C Type: Day fighter
 Engine(s): One Wright R-1340-27 radial
 Eng. Pwr: 500 hp, air-cooled, Non F.I.
 A/C Crew: Pilot

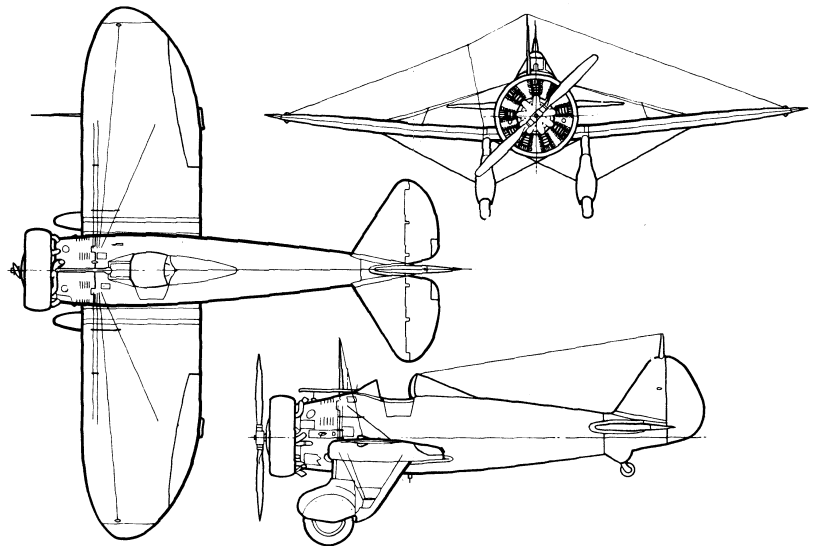
Maximum Speed: 234 mph at 7,600 ft
 Maximum Ceiling: 27,400 ft.
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 5/8 Endurance: 110
 Cockpit View: Good Blind Area: Rear
 Protection: Cockpit +0 Fuel +0 Engine +0

Climb Decel/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 220 / 1-2

Wpn Stations	Weight	Allowed Loads
1	220	2x 100lb bomb or 5x 30 lb bomb on A-3 bomb rack

Country: USA

Service Entry Date: Dec, 1935



Class: F

Victory Points: 3-5

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(2)	Min HT(3)	Min BT(4)	Min ET(5)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	2.5	3.5	7.5	4.0	5.5	6.5	7.5	25-30	HI	300
19-24	MH	2.0	3.5	7.5	3.5	5.0	6.0	7.0	19-24	MH	800
13-18	ML	1.5	4.0	8.0	3.0	4.5	5.5	6.5	13-18	ML	1,400
7-12	LO	1.5	4.5	7.5	3.0	4.0	5.0	6.0	7-12	LO	1,900
1-6	VL	1.5	4.5	7.0	2.5	3.5	4.5	5.5	1-6	VL	2,300

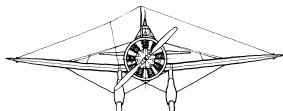
FIRE POWER CHART

Guns	Type	Weapons	Ammo	Criticals
N1	One	.30 cal M1 mg	8	4
N2	One	.30 cal M1 mg	8	4
N3	One	.50 cal M2 mg	7	3

GUN ATTACK FACTORS

Range	N1	N2	N3	Total
0	5.5	5.5	8	11/13
1	4	4	6	8/10
2	3	3	4	6/7
3	2	2	3	4/5
4	1	1	2	2/3
5	1	1	1	2/2
6	--	--	1	-/1
7	--	--	--	--

WEAPON STATION LOCATION



1

POWER VERSUS SPEED CHART

Levels	Bands	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	--	--	--	--	VH
25-30	HI	1	--	--	--	HI
19-24	MH	1	--	--	--	MH
13-18	ML	3	--	--	--	ML
7-12	LO	5	--	--	--	LO
1-6	VL	5	--	--	--	VL
Banking FPs		2	2	4	--	
Side Slip FPs		3	4	6	--	

NOTES AND VARIANTS

Boeing P-26 'Peashooter': First monoplane fighter in US service. Bomb capability with A-3 bomb rack. Open cockpit. Fixed gear. Telescopic sight. (Non-combat) Flaps.

P-26A: Available Dec 1933. Armed with N1&2; left total. 6 in service w/Philippine Army Air Service in 1941; about 20 in USAFFE in Dec. 1941. 111 built.

P-26B: Available 1934. P-26A w/R-1340-33 F.I. engine (see below). 25 built.

P-26C/Model 281: Available 1935. Armed with N1&3, right total. Improved (export) version w/R-1340-33 F.I. engine: +1 power ML-VL; -100 roc LO-VL; Ceiling 28,400. 1 fought for Republican Spain w/o nose guns, but with 2x .303 Vickers mg wingpods. 11 in service with China; 25 built for USAAC.

A-3 bomb rack: Wgt: 20
US 30lb Frag: Wgt: 30

Ld: 0.5
Ld: 0.5

Avail: 1934
Soft/hard Atk: 3/0

Curtiss Goshawk F11C-2

A/C Type: Biplane fighter-bomber
 Engine(s): One Wright R-1820-78 radial
 Eng. Pwr: 710-hp, air-cooled, Non-F.I.
 A/C Crew: Pilot

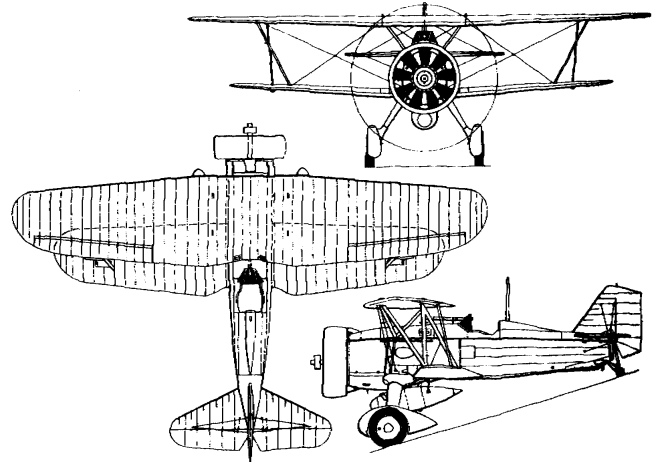
Maximum Speed: 240 mph at 11,500 ft
 Maximum Ceiling: 24,300 ft.
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 5/8 Endurance: 150
 Cockpit View: Fair Blind Area: Rear Low
 Protection: Cockpit +0 Fuel +0 Engine +0

Climb Dece/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 500 / 2-3

Wpn Stations	Weight	Allowed Loads
1, 2, 4, 5	112	1x 112 lb bomb
3	500	1x 500lb bomb or 30gal FT: BFC-2

Country: USA (F11C-2)
 China, Thailand (Hawk II)

Service Entry Date: April, 1933
 June, 1935



Class: F

Victory Points: 3-5

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(1)	Min HT(2)	Min BT(2)	Min ET(3)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	--	--	--	--	--	--	--	25-30	HI	--
19-24	MH	2.0	3.5	7.0	3.0	4.0	5.0	6.0	19-24	MH	600
13-18	ML	1.5	4.0	7.5	2.5	3.5	4.5	5.5	13-18	ML	1,200
7-12	LO	1.5	4.5	7.5	2.0	3.0	3.5	4.5	7-12	LO	1,700
1-6	VL	1.5	4.0	7.0	2.0	2.5	3.0	4.0	1-6	VL	2,000

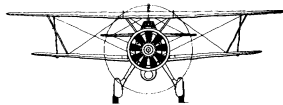
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One .30 cal M1 mg	8	4
N2	One .30 cal M1 mg	8	4

GUN ATTACK FACTORS

Range	N1	N2	Total
0	5.5	5.5	11
1	4	4	8
2	3	3	6
3	2	2	4
4	1	1	2
5	1	1	2
6	--	--	--
7	--	--	--

WEAPON STATION LOCATION



1 2 3 4 5

POWER VERSUS SPEED CHART

Levels	Bands	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	--	--	--	--	VH
25-30	HI	--	--	--	--	HI
19-24	MH	2	--	--	--	MH
13-18	ML	4	--	--	--	ML
7-12	LO	5	--	--	--	LO
1-6	VL	5	--	--	--	VL
Banking FPs		1	2	3	--	
Side Slip FPs		1	3	4	--	

NOTES AND VARIANTS

Curtiss F11C-2 Goshawk: Available Apr-33. Carrier-borne biplane fighter-bomber. Fixed gear. Telescopic sight. Carrier equipment. Renumbered BFC-2. When renumbered, add weapon stations. 28 built for US Navy.

Curtiss Hawk I: Export F11C-2 w/ 50 gal fuel: End=85. Chinese order of 60.

Curtiss Hawk II: Available 1935. Export F11C-2 w/ 94 gal fuel: End=150. China bought 80, Turkey 24, Thailand 12.

30-gal FT **Wgt:** 300 lbs **Ld:** 2.0/1.5 **End:** +35

Curtiss Hawk III

A/C Type: Biplane fighter-bomber
 Engine(s): One Wright R-1820-F53 radial
 Eng. Pwr: 785-hp, air-cooled, Non-F.I.
 A/C Crew: Pilot

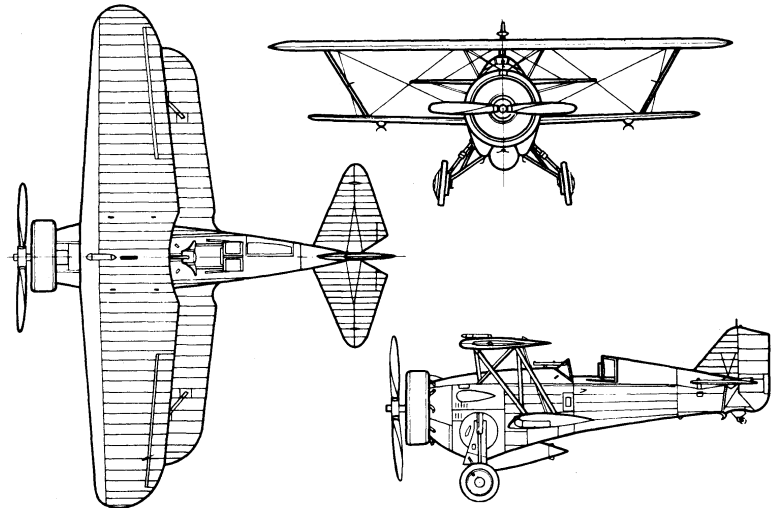
Maximum Speed: 240 mph at 11,500 ft
 Maximum Ceiling: 25,800 ft.
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 5/8 Endurance: 140
 Cockpit View: Fair Blind Area: Rear Low
 Protection: Cockpit +0 Fuel +0 Engine +0

Climb Dece/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 500 / 2-3

Wpn Stations	Weight	Allowed Loads
1, 2, 4, 5	112	1x 112 lb bomb
3	500	1x 500lb bomb or 30gal FT: BF2C-1

Country: USA (F11C-3)
 China, Thailand (Hawk III)

Service Entry Date: August, 1934
 June, 1935



Class: F

Victory Points: 3-5

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(1)	Min HT(2)	Min BT(2)	Min ET(3)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	2.5	3.5	7.0	3.5	4.5	5.5	6.5	25-30	HI	200
19-24	MH	2.0	4.0	7.0	3.0	4.0	5.0	6.0	19-24	MH	600
13-18	ML	1.5	4.5	7.5	2.5	3.5	4.5	5.5	13-18	ML	1,200
7-12	LO	1.5	5.0	7.5	2.0	3.0	3.5	4.5	7-12	LO	1,700
1-6	VL	1.5	4.5	7.0	2.0	2.5	3.0	4.0	1-6	VL	2,000

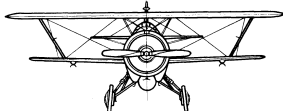
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	One .30 cal M1 mg	8	4
N2	One .30 cal M1 mg	8	4

GUN ATTACK FACTORS

Range	N1	N2	Total
0	5.5	5.5	11
1	4	4	8
2	3	3	6
3	2	2	4
4	1	1	2
5	1	1	2
6	--	--	--
7	--	--	--

WEAPON STATION LOCATION



1 2 3 4 5

POWER VERSUS SPEED CHART

Levels	Bands	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	--	--	--	--	VH
25-30	HI	1	--	--	--	HI
19-24	MH	3	--	--	--	MH
13-18	ML	5	--	--	--	ML
7-12	LO	6	2	--	--	LO
1-6	VL	6	--	--	--	VL
Banking FPs		1	2	3	--	
Side Slip FPs		1	3	4	--	

NOTES AND VARIANTS

Curtiss F11C-3/BF2C-1 Goshawk: Available August 1934. Improved all-metal carrier-borne fighter-bomber built for USN. However, metal wings produced excessive vibration (+1 attack mod). Redesignated BF2C-1 before delivery. Withdrawn after a few months. Open cockpit. Telescopic sight. Retractable gear. Carrier equipment. 27 built.

Curtiss Hawk III: Available 1935. Export version. Metal wing replaced with wooden one, eliminating vibration. Thailand bought 37; Argentina 10. China license-built 80, bought 30. Chinese Hawks fought in 1937, but were soon destroyed or grounded by poor maintenance. Thai Hawks fought vs. Vichy French in Jan 1941 and Japanese in Dec. 1941; survivors served as trainers. Telescopic sight. Retractable gear. Open cockpit.

30-gal FT **Wgt:** 300 lbs **Ld:** 2.0/1.5 **End:** +35

Curtiss A-12 Shrike

A/C Type: Light bomber
 Engine(s): One Wright R-1820-21 radial
 Eng. Pwr: 775-890 hp, air-cooled, Non-F.I.
 A/C Crew: Pilot, Observer

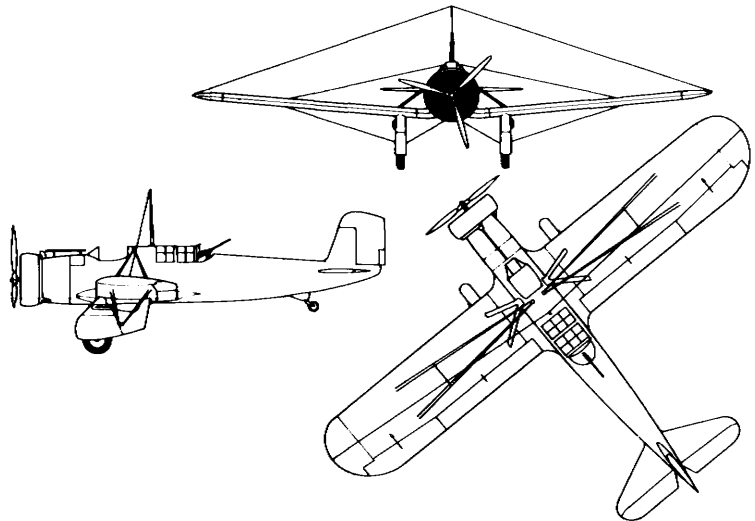
Maximum Speed: 189 mph at Sea level
 Maximum Ceiling: 15,500 / 10,000 ft.
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 7/11 Endurance: 120
 Cockpit View: Fair Blind Area: Rear, Low
 Protection: Cockpit +0 Fuel +0 Engine +0

Climb Decel/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 500 / 2-4

Wpn Stations	Weight	Allowed Loads
1 (Bombbay)	300	10x 30 lb bombs or 52 gal aux FT
2 (external rack)	400	4x 100lb bomb

Country: USA
 China

Service Entry Date: Dec, 1933
 1936



Class: L

Victory Points: 3-5

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(3)	Min HT(4)	Min BT(5)	Min ET(-)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	--	--	--	--	--	--	--	25-30	HI	--
19-24	MH	--	--	--	--	--	--	--	19-24	MH	--
13-18	ML	1.5	3.0	5.5	2.5	3.5	4.5	--	13-18	ML	300
7-12	LO	1.5	3.0 (3.5)	7.5	2.0	3.0	4.0	--	7-12	LO	800
1-6	VL	1.5	3.5	7.0	2.0	2.5	3.5	--	1-6	VL	1,100

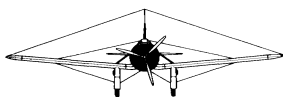
FIRE POWER CHART

Guns	Type	Weapons	Ammo	Criticals
N1	One	.30 cal M1 mg	10	4
N2	One	.30 cal M1 mg	10	4
DG	One	.30 cal M1 mg	8	4

GUN ATTACK FACTORS

Range	N1	N2	DG	Total
0	12	12	3	12
1	8	8	3	16
2	6	6	2	12
3	4	4	1	8
4	3	3	1	6
5	2	2	1	4
6	--	--	--	--
7	--	--	--	--

WEAPON STATION LOCATION



1,2

POWER VERSUS SPEED CHART

Levels	Bands	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	--	--	--	--	VH
25-30	HI	--	--	--	--	HI
19-24	MH	--	--	--	--	MH
13-18	ML	2(3)	--	--	--	ML
7-12	LO	3/(4)	--	--	--	LO
1-6	VL	4/(5)	--	--	--	VL
Banking FPs		2	2	--	--	--
Side Slip FPs		2	4	--	--	--

NOTES AND VARIANTS

DG: Rear +30, Level to High; 6:00 high only

Curtiss A-12 Shrike: Available Dec-33. First US monoplane bomber. Developed with Wright R-1820-21 Cyclone radial engine from A-8. No emergency power. Served with 3rd Attack group Dec-33 to mid-36. 15 Assigned to 26th Attack Sqdn, 18th Composite Group in Hawaii in 1936. 9 still available Dec-41. If no bombs carried, could drop aux. FT tank - and main fuel tank! Slatted wings, flaps, fixed gear, telescopic sight. 46 built, plus 20 for export.

Export Shrike: Available 1936. Stronger Wright SR-1820-F52 engine: Emergency power, max level speed in parentheses. 20 exported to China. Used in 1937, but were soon destroyed or grounded by poor maintenance.

52-gal Aux. FT: Wgt: 450 lbs **Ld:** 3.0/2.0 **End:** +50

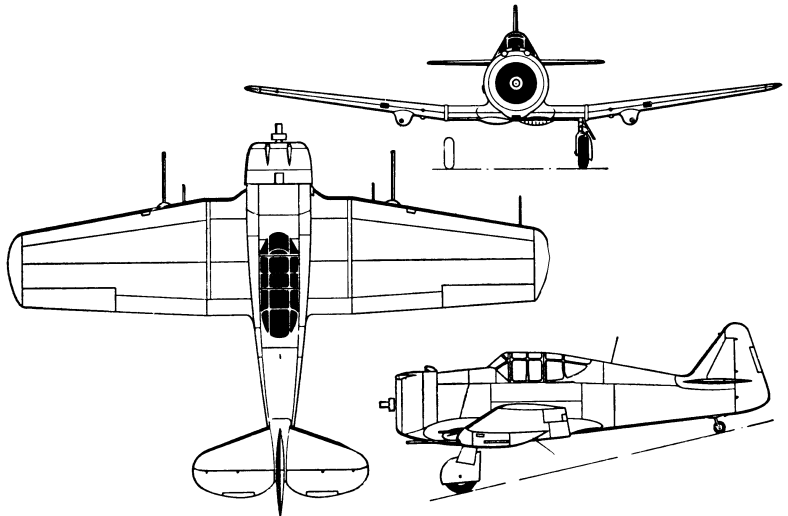
North American NA-68/P-64

A/C Type: Day fighter
 Engine(s): One Wright R-1820-77
 Eng. Pwr: 870-hp, air-cooled, Non-F.I.
 A/C Crew: Pilot

Maximum Speed: 270 mph at 8,700 ft
 Maximum Ceiling: 27,500 ft
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 7/10 Endurance: 162
 Cockpit View: Fair Blind Area: Rear
 Protection: Cockpit +0 Fuel +0 Engine +0
 Climb Decel/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 500 / 2-3
Wpn Stations Weight Allowed Loads
 1, 2, 3, 4 (NA-50) 125 lbs 1 bomb to 125 lb

Country: Thailand (NA-68)
 Peru (NA-50)

Service Entry Date: December 1941
 1939



AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(3)	Min HT(4)	Min BT(5)	Min ET(6)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	(3.0)	(4.0)	(8.0)	(4.0)	(5.5)	(6.5)	(7.5)	31-36	VH	(300)
25-30	HI	2.5	4.0 (4.5)	8.5	3.5	5.0	6.0	7.0	25-30	HI	600
19-24	MH	2.0	4.5 (5.0)	8.5	3.0	4.5	5.5	6.5	19-24	MH	1,100
13-18	ML	2.0	5.0 (5.5)	9.0	2.5	4.0	5.0	6.0	13-18	ML	1,600
7-12	LO	1.5	5.5 (6.0)	8.5	2.5	3.5	4.5	5.5	7-12	LO	2,000
1-6	VL	1.5	5.0	8.0	2.0	3.0	4.0	5.0	1-6	VL	2,300

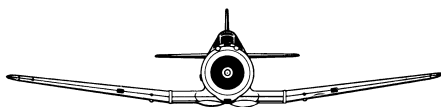
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	Two .30 cal mg	8	4
W1	One .20 mm cannon	3	2
W2	One 20 mm cannon	3	2

GUN ATTACK FACTORS

Range	N1	W1	W2	Total
0	11	22	22	55
1	8	16	16	40
2	6	11	11	28
3	4	8	8	20
4	3	6	6	15
5	2	4	4	10
6	--	3	3	6
7	--	--	--	--

WEAPON STATION LOCATION



1 2

3 4

POWER VERSUS SPEED CHART

(per engine)

Levels	Bands	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	(1)	--	--	--	VH
25-30	HI	1	--	--	--	HI
19-24	MH	2	(1)	--	--	MH
13-18	ML	4	1	--	--	ML
7-12	LO	6	3	--	--	LO
1-6	VL	6	3	--	--	VL
Banking FPs		2	3	4	6	
Side Slip FPs		3	4	5	7	

NOTES AND VARIANTS

North American NA-50: Available November 1939. An "economy" fighter variant of the AT-6 (NA-16) trainer. Armed with two .30 cal MGs (N1). Use speed & power in parens, +200 roc. 7 built for Peru. Used vs. Ecuador in 1941. 1 destroyed by AAA, 1 exploded by bomb stuck on rack.

North American NA-68: Available October 1941. Version of NA-50 ordered by Thai Air Force, adding 20mm cannon in wing gondolas. No weapon stations. Seized in the US before shipment or while on freighter, they were used as advanced fighter training ships. Included as "what if" aircraft for Thailand.

North American P-64: Available December 1941. The Thai fighters were confiscated dockside (or about to be shipped to the port). The 20mm cannon were removed, and they were used as advanced training fighters.

North American A-27

Country: USA

Service Entry Date: October, 1941

A/C Type: Light bomber
 Engine(s): One Wright R-1820-75
 Eng. Pwr: 745 hp, air-cooled, Non-F.I.
 A/C Crew: Pilot, radio-op/gunner

Maximum Speed: 250 mph at 11,500 ft
 Maximum Ceiling: 28,000 ft.
 Defense factor: 5 Size Modifier: +0
 Damage Factor: 7/11 Endurance: 165
 Cockpit View: Fair Blind Area: Rear, Low
 Protection: Cockpit +0 Fuel +0 Engine +0
 Climb Dece/ Dive Accel: 3.0 / 1.0
 Weight and Load Limit: 400 / 2-4
Wpn Stations Weight Allowed Loads
 1, 2, 3, 4 100 lbs 100 lb bombs up

Class: L

Victory Points: 7-15

AIRCRAFT PERFORMANCE CHART

Altitude Levels	Bands	Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(3)	Min HT(4)	Min BT(5)	Min ET(6)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	--	--	--	--	--	--	--	31-36	VH	--
25-30	HI	3.0	4.0	7.5	3.5	5.0	6.0	7.0	25-30	HI	500
19-24	MH	2.5	4.5	8.0	3.0	4.5	5.5	6.5	19-24	MH	1,000
13-18	ML	2.0	5.0	8.0	2.5	4.0	5.0	6.0	13-18	ML	1,400
7-12	LO	1.5	5.0	8.0	2.5	3.5	4.5	5.5	7-12	LO	1,800
1-6	VL	1.5	4.5	7.0	2.0	3.0	4.0	5.0	1-6	VL	2,100

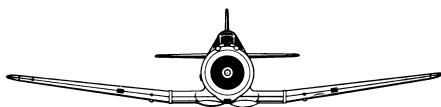
FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	Two .30 cal mg	8	4
W1	One .30 cal mg	12	4
W2	One .30 cal mg	12	4
DG	One .30 cal MG	8	4

GUN ATTACK FACTORS

Range	N1	W1	W2	DG	Total
0	11	6	6	4	23
1	8	4	4	3	16
2	6	3	3	2	12
3	4	2	2	1	8
4	3	1	1	1	5
5	2	1	1	1	4
6	--	--	--	--	7
7	--	--	--	--	--

WEAPON STATION LOCATION



1 2 3 4

POWER VERSUS SPEED CHART

Levels	Bands	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	--	--	--	--	VH
25-30	HI	1	--	--	--	HI
19-24	MH	1	--	--	--	MH
13-18	ML	4	1	--	--	ML
7-12	LO	5	2	--	--	LO
1-6	VL	5	--	--	--	VL
Banking FPs		2	3	4	--	
Side Slip FPs		3	4	5	--	

NOTES AND VARIANTS

Defensive Gun: Rear+30, Level to High; 6:00 High only.

North American A-27 (NA-69): Available Sept, 1941. Yet another derivative of the NA-16 (AT-6) trainer, the A-27 was a two-man light bomber. 18 were ordered by Thailand in 1940, They were intercepted by the US government in the Philippines and used by the USAAFFE during the Japanese attack Dec 41 - Feb 42. All were destroyed during the campaign. Also as "what if" aircraft for Thai Air Force.

North American NA-72: Similar aircraft sold to Brazil with 775 hp R-1820-F52 engine: roc +100, End=150. 30 built.