

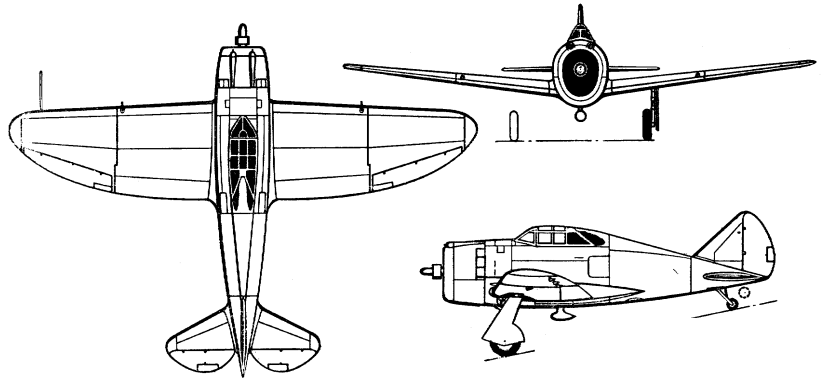
# Republic P-43A-1 Lancer

A/C Type: Day Fighter  
 Engine(s): P&W R-1830-57 Twin Wasp radial  
 Eng. Pwr: 1200-hp, Air-cooled  
 A/C Crew: Pilot

Maximum Speed: 356 mph @ 20,000 ft  
 Maximum Ceiling: 36,000 ft / 30,000 ft  
 Defense factor: 5 Size Modifier: 0  
 Damage Factor: 7/11 Endurance: 278  
 Cockpit View: Fair Blind Area: Rear  
 Protection: Engine +0 Fuel +1 Cockpit +2  
 Climb Dece/ Dive Accel: 3 / 1  
 Weight and Load Limit: 350 / 2-3  
 Wpn Stations Weight Allowed Loads  
 1 350 FT, 1x200lb bomb  
 or 6x20lb w/adaptor  
 or 41.6-gal FT (P43A)

Country: China (US-built)

Service Entry Date: Nov. 1941



Class: F

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(6)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	-	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	3.0	6.0	9.5	5.0	6.0	7.0	8.0	31-36	VH	600
25-30	HI	2.5	6.5	10.0	4.5	5.5	6.5	7.5	25-30	HI	1,000
19-24	MH	2.5	7.0	10.0	4.0	5.0	6.0	7.0	19-24	MH	1,500
13-18	ML	2.0	7.0	10.0	3.5	4.5	5.5	6.5	13-18	ML	2,000
7-12	LO	2.0	6.5	9.5	3.0	4.0	5.0	6.0	7-12	LO	2,400
1-6	VL	1.5	6.0	8.5	3.0	3.5	4.5	5.5	1-6	VL	2,800

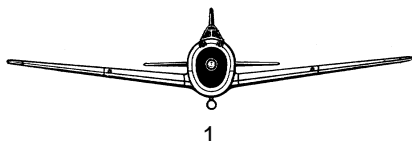
## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	2x .50 M2 mgs	12	3
W1	1x .50 M2 mg	12	3
W2	1x .50 M2 mg	12	

## GUN ATTACK FACTORS

Range	N1	W1	W2	Total
0	17	9	9	35
1	12	6	6	24
2	8	4	4	16
3	6	3	3	12
4	4	2	2	8
5	3	1	1	5
6	2	1	1	4
7	--	--	--	--

## WEAPON STATION LOCATION



## 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	2	1	--	--	VH
25-30	HI	3	1	--	--	HI
19-24	MH	4	2	--	--	MH
13-18	ML	6	3	--	--	ML
7-12	LO	6	3	--	--	LO
1-6	VL	6	3	--	--	VL
Banking FPs		3	4	5	7	
Side Slip FPs		4	5	6	9	

## NOTES AND VARIANTS

**P-43 Lancer:** Available May, 1941. First fighter developed by Republic after being reorganized from Seversky Aircraft (of P-35 fame). It was mediocre for its time. With better models available, the USAAC limited its contract. Original was unarmored; armed with two .50s (nose) plus a .30 in each wing (N1=17/12/8/5/3/2/1/-, W1&2=6/4/3/2/1/1/-/-; total=29/20/14/9/5/4/1/-). 54 built (later re-engined & equipped to A-1s).

**P-43A:** Available Sept, 1941. Unarmed USAAC photo recon version. Delete weapons. Raise max speed .5 at MH and above. Ft-capable. 80 built.

**P-43A-1:** Available November, 1941. Up-gunned and up-engined P-43 given to the Chinese Air Force. 108 built (54 built; 54 upgraded from original P-43).

**FT:** 41.6-gal tank: 350 lbs 3.0/2.0 +30 end.

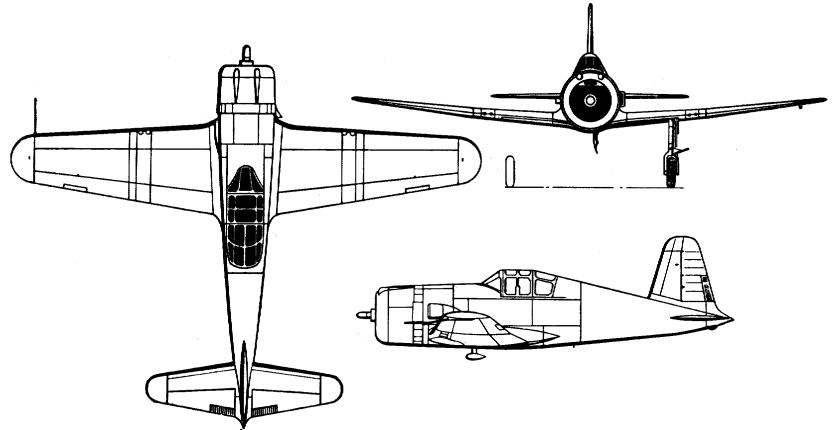
# Vultee P-66 Vanguard

A/C Type: Day Fighter  
 Engine(s): P&W R-1830-S3C4-G radial  
 Eng. Pwr: 1050-1200-hp, Air-cooled  
 A/C Crew: Pilot

Maximum Speed: 340 mph @ 15,100 ft  
 Maximum Ceiling: 28,200 ft  
 Defense factor: 5 Size Modifier: 0  
 Damage Factor: 6/9 Endurance: 175  
 Cockpit View: Fair Blind Area: Rear  
 Protection: Engine +0 Fuel +0 Cockpit +0  
 Climb Dece/ Dive Accel: 3/1  
 Weight and Load Limit: none  
 Wpn Stations Weight Allowed Loads

Country: China (US-built)

Service Entry Date: Sept, 1942



Class: F

Victory Points: 3-5

## AIRCRAFT PERFORMANCE CHART

Altitude Levels		Minimum Speed	Maximum Speed	Maximum Dive Spd	Min TT(3)	Min HT(4)	Min BT(5)	Min ET(6)	Altitude Levels		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	6.0	10.0	4.0	5.5	6.5	7.5	25-30	HI	1,000
19-24	MH	2.0	6.5	10.0	3.5	5.0	6.0	7.0	19-24	MH	1,400
13-18	ML	2.0	7.0	10.0	3.0	4.0	5.0	6.0	13-18	ML	1,900
7-12	LO	1.5	6.5	9.5	2.5	3.5	4.5	5.5	7-12	LO	2,300
1-6	VL	1.5	6.0	8.5	2.0	3.0	4.0	5.0	1-6	VL	2,500

## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	2x .50 M2 mgs	12	3
W1	2x .30 cal mgs	14	4
W2	2x .30 cal mgs	14	4

## GUN ATTACK FACTORS

Range	N1	W1	W2	Total
0	17	12	12	41
1	12	8	8	28
2	8	6	6	20
3	6	4	4	14
4	4	3	3	10
5	3	2	2	7
6	2	--	--	2
7	--	--	--	--

## WEAPON STATION LOCATION

## 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	1	--	--	HI
19-24	MH	3	1	--	--	MH
13-18	ML	5	2	--	--	ML
7-12	LO	6	3	--	--	LO
1-6	VL	6	3	--	--	VL
Banking FPs		2	2	4	6	
Side Slip FPs		3	4	6	8	

## NOTES AND VARIANTS

**Vultee P-66 Vanguard:** Originally ordered by Sweden in 1940, P-66s were confiscated by the USAAC when Sweden's weapons imports were cut off. 120 were given to China via Lend-Lease. 24 were retained, first to arm a couple west coast squadrons in early 1942, then used as advanced trainers. Pilots found it "more aerobatic than a P-36" and "the best fighter ever flown." It was lightly built. Flaps. 144 built.

**China service:** Chinese aircraft shipped and assembled in Karachi, then sent to units in China. Several destroyed in post-assembly tests and in training accidents. 12 Vanguards served with 7th FS of 23 FG in Kunming. 2 Chinese squadrons based at An-Su used Vanguards in combat from August 1943. Many were destroyed on the ground. Several were destroyed by Chinese AA due to a resemblance to Ki-43 and Ki-44. Some were still crated in 1947, in storage for future use. Some probably still are.

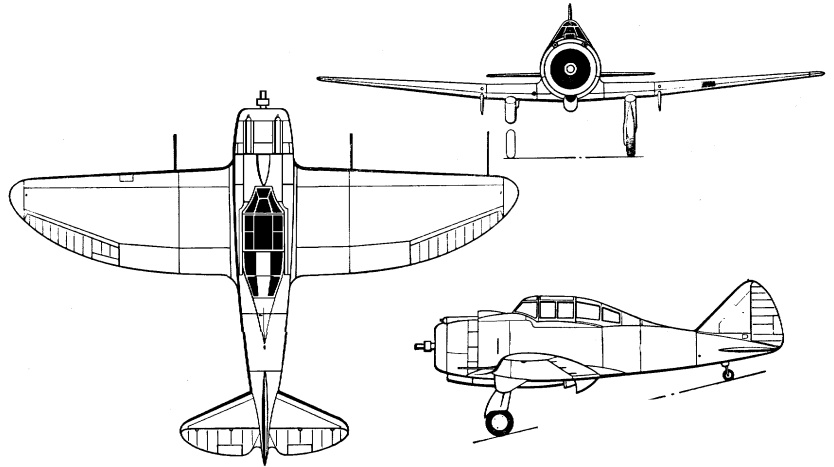
# Seversky P-35A

A/C Type: Day Fighter  
 Engine(s): P&W R-1830-45 Twin Wasp radial  
 Eng. Pwr: 900-1050 hp, Air-cooled  
 A/C Crew: Pilot

Maximum Speed: 290 mph @ 12,000 ft  
 Maximum Ceiling: 31,400 ft / 30,000 ft  
 Defense factor: 5 Size Modifier: 0  
 Damage Factor: 5/8 Endurance: 138  
 Cockpit View: Fair Blind Area: Rear  
 Protection: Engine +0 Fuel +0 Cockpit +0  
 Climb Dece/ Dive Accel: 3 / 1  
 Weight and Load Limit: 350 / 2-3  
 Wpn Stations Weight Allowed Loads  
 1 350 1x200lb bomb  
 or 6x20lb

Country: USA  
 Sweden (EP-106)

Service Entry Date: July, 1940  
 June, 1940



Class: F

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(6)	Altitude Levels	Bands	Average Rate of Climb
43+	UH	--	--	--	--	--	--	--	43+	UH	--
37-42	EH	--	--	--	--	--	--	--	37-42	EH	--
31-36	VH	2.5	4.0	9.0	4.5	6.5	7.5	8.5	31-36	VH	300
25-30	HI	2.0	4.5	9.0	4.0	5.5	6.5	7.5	25-30	HI	600
19-24	MH	2.0	5.0	9.0	3.5	5.0	6.0	7.0	19-24	MH	800
13-18	ML	1.5	5.5	9.0	3.0	4.5	5.5	6.5	13-18	ML	1,000
7-12	LO	1.5	6.0	8.5	2.5	3.5	4.5	5.5	7-12	LO	1,400
1-6	VL	1.5	5.0	7.5	2.0	3.0	4.0	5.0	1-6	VL	1,900

## FIRE POWER CHART

Guns	Type Weapons	Ammo	Criticals
N1	2x .50 M2 mg	8	3
W1	1x .30 cal mg	10	4
W2	1x .30 cal mg	10	4
P-35:			
N2	1x .50 M2 mg	7	3
N3	1x .30 cal mg	9	4

## GUN ATTACK FACTORS

Range	N1	W1	W2	N2	N3	Total
0	17	6	6	8	5	29/13
1	12	4	4	6	4	20/10
2	8	3	3	4	3	14/7
3	6	2	2	3	2	10/5
4	4	1	1	2	1	6/3
5	3	1	1	1	1	5/2
6	2	--	--	1	--	2/1
7	--	--	--	--	--	--

## WEAPON STATION LOCATION

## 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	1	--	--	--	VH
25-30	HI	1	--	--	--	HI
19-24	MH	2	1	--	--	MH
13-18	ML	4	1	--	--	ML
7-12	LO	5	2	--	--	LO
1-6	VL	5	2	--	--	VL
Banking FPs		3	4	6	6	
Side Slip FPs		4	5	8	10	

## NOTES AND VARIANTS

**Seversky P-35:** Available July 37. Smaller 850 hp Wright Cyclone engine; armed with 1 .50 and 1 .30 firing through the propellor (N2 & N3, total to right). 77 built.

**P-35A:** The P-35s confiscated from the Swedish order were designated P-35As. Shortly before Pearl Harbor, two USAAF Pursuit Squadrons were sent to the Philippines armed with 40 P-35As. Most were destroyed on the ground or destroyed in combat within 48 hours of combat. The 8 survivors were redesignated as RP-35As and used only for recon. 28 P-35s and 12 P-35As were sold to Ecuador.

**EP-106:** 60 of 120 P-35s ordered by Sweden were delivered under the designation EP-106 before the June 1940 arms embargo. The Swedish Air Force called it the J-9, serving until 1944.