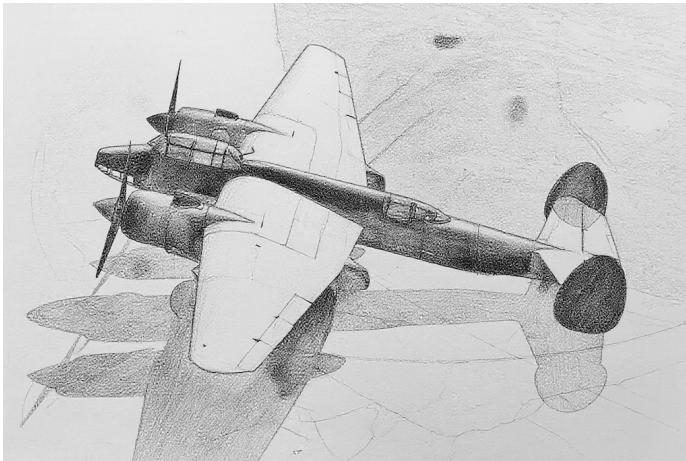


# Tupolev Tu-2



The Tupolev Tu-2 was a propeller-driven medium bomber that served in WW2 and after. Its NATO reporting name is Bat.

## Versions

### **Tu-2**

The Tu-2 was the initial version and entered service in small numbers with the Soviet VVS in 1942. Although well regarded, production was suspended in favor of fighters and the Pe-2 light bomber.

### **Tu-2S**

In 1943, production restarted of the improved Tu-2S version. This version had improved and more powerful ASh-82FNs engines, a four-bladed propeller in place of the earlier three-bladed one, changes to the structure and systems, including elimination of the dive brakes to simplify production and improve robustness, removal of the fixed forward machine guns, and improved defensive armament in the form of three single 12.7 mm UBT machine guns.

The Tu-2S served in the VVS from early 1944 until 1955. It also served with the Bulgarian Air Force, Chinese PLAAF, Hungarian Air Force, North Korean KPAF, Polish Air Force and Navy, and Romanian Air Force. Indonesia later received a few ex-Chinese Tu-2S aircraft.

### **Tu-2P**

The PLAAF developed the Tu-2P to intercept overflights by ROCAF aircraft. The RP-1 radar from the J-5A (MiG-17PF) was installed in the nose, and two 23 mm NR-23 cannons replaced the 20 mm cannons in the wings. Defensive armament was deleted. The radar was modified to eliminate the lower part of the scan, which reduced ground clutter at the cost of only being able to detect and track targets at the

same or higher altitude.

Several PLAAF aircraft were converted in 1959.

## Armament and Stores

The Tu-2S was armed with two fixed 20mm ShVaK cannons in the wing roots and three 12.7mm UBT defensive guns in single mounts operated by the navigator, the radio operator, and the ventral gunner. In the Tu-2P, the fixed guns were replaced by a pair of 23mm NR-23 cannons, and the defensive guns presumably removed.

A typical bomb load for the Tu-2S would be three 1,000 kg bombs (one carried internally and one under each wing), four 250 kg bombs (two carried internally and one under each wing), or nine 100 kg bombs (all carried internally).

## Combat

The Tu-2S saw combat in WW2, with Chinese communist forces in the Chinese Civil War, with the PLAAF and KPAF in the Korean War, and with the PLAAF in the 1959 Tibetan Uprising and associated conflicts before and after.

The Tu-2P saw combat in November 1960 when three PLAAF aircraft attempted to intercept a ROCAF P2V. Two of the three flew into terrain, and the P2V escaped.

## ADCs

- Tu-2S
- Tu-2P

## Photo Credit

- Tu-2: SDASM Archives (Public Domain)

<b>Tu-2S</b>								<b>Crew:</b> Pilot, Navigator/Gunner, Radio Operator/Gunner, and Ventral Gunner									
				<b>Maneuver HFPs/DPs:</b>				LR/DR	1.0	2.0							
				VR				VR	1.0								
<b>Power APs/DPs/FPs:</b> ○○								<b>Turn DPs:</b>									
CL 1/2 DT Fuel								CL	1/2	DT							
FT	1.0	1.0	1.0	1.0				TT	0.0	0.0	0.5						
HT	0.5	0.5	0.5	0.5				HT	0.5	1.0	1.0						
N	0.0	0.0	0.0	0.2				BT	1.5	—	—						
I	0.5	0.5	0.5	0.0				ET	—	—	—						
SPBR	—	—	—	—													
If speed ≥ 3.0, reduce power by 0.5.				Cruise Speed: 2.5 Restr. Arcs: 30–													
				Climb Speed: 2.0 Blind Arcs: —													
				Visibility: 7 Internal Fuel: 200													
				Size: -1 AtA Refuel: No													
				Vulnerability: +1 Ejection Seat: None													
<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>											
Alt. Band	Conf. Ceil.	CL 24	1/2 20	DT 14	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band								
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+							
VH	36–45	—	—	—	—	— —	— —	— —	— —	VH							
HI	26–35	2.0 – 3.0	—	—	4.5	— 0.25	— —	— —	— —	HI							
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	— 0.25	— 0.25	— —	— —	MH							
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	— 0.25	ML							
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	— 0.25	LO							
<b>Radar:</b> —				<b>ECM:</b> —				<b>Weapon Stations Diagram:</b>									
ECCM: —				RWR: —													
Arcs: —				DDS: —													
Search: —				DJM: —													
Track: —				AJM: —													
Lock-On: —				BJM: —													
<b>Guns:</b> Two 20 mm ShVaK				<b>Technology:</b> None				<b>Load Point Limits:</b> CL : 0–2 1/2: 3–6									
To Hit:	5/3/0									<b>Weight Limit:</b> 6,600 DT : 7+							
Ammunition:	8.0									<b>Station</b> Limit Allowed Loads							
Gunsight:	TT+0/HT+2/BT+3					1 and 3 2,200 BB				2 2,200 BB							
Ranging:	—									<b>Load Notes:</b>							
AtA/AtG:	3/3*									1. Stations 1 and 3 are under-wing stations. Load options for each are: (a) one 2,200 lb bombs or (b) one 550 lb bombs.							
<b>Bomb System:</b> Manual								2. Station 2 is the internal bomb bay. Load options are: (a) one 2,200 lb bombs, (b) two 550 lb bombs, or (c) nine 220 lb bombs. Any bombs carried must be low-drag.									
<b>Notes:</b>				3. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 65 fuel points (1.3 load points).													
								<b>VPs:</b> 6/4/2/1									
								v1.0000000 0000-00-00T00:00:00									

<b>Tu-2P</b>								<b>Crew:</b> Pilot, Radar Operator, Navigator, and Radio Operator			
				<b>Maneuver HFPs/DPs:</b>				LR/DR	1.0	2.0	
<b>Power APs/DPs/FPs:</b> ○○								VR	1.0		
CL 1/2 DT Fuel											
FT	1.0	1.0	1.0	1.0							
HT	0.5	0.5	0.5	0.5							
N	0.0	0.0	0.0	0.2							
I	0.5	0.5	0.5	0.0							
SPBR	—	—	—	—							
Cruise Speed: 2.5 Restr. Arcs: 30–											
Climb Speed: 2.0 Blind Arcs: —											
Visibility: 7 Internal Fuel: 200											
Size: -1 AtA Refuel: No											
Vulnerability: +1 Ejection Seat: None											
<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL 24	1/2 20	DT 14	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+	
VH	36–45	—	—	—	—	— —	— —	— —	— —	VH	
HI	26–35	2.0 – 3.0	—	—	4.5	— 0.25	— —	— —	— —	HI	
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	— 0.25	— 0.25	— —	— —	MH	
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	— 0.25	ML	
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	— 0.25	LO	
<b>Radar:</b> RP-1 Izumrud		<b>ECM:</b>		<b>Weapon Stations Diagram:</b>							
ECCM:	0	RWR:	—								
Arcs:	Limited	DDS:	—								
Search:	18–6	DJM:	—								
Track:	6–6	AJM:	—								
Lock-On:	6	BJM:	—								
<b>Guns:</b> Two 23 mm NR-23		<b>Technology:</b>		<b>Load Point Limits:</b>						CL : 0–2	
To Hit:	4/2/1	None		1/2: 3–6							
Ammunition:	3.0			<b>Weight Limit:</b> 6,600						DT : 7+	
Gunsight:	TT+0/HT+2/BT+3			<b>Station</b> Limit Allowed Loads							
Ranging:	RE	1 and 3 2,200 BB		2 2,200 BB							
AtA/AtG:	4/3			<b>Load Notes:</b>							
<b>Bomb System:</b> Manual				1. Stations 1 and 3 are under-wing stations. Load options for each are: (a) one 2,200 lb bombs or (b) one 550 lb bombs.							
		2. Station 2 is the internal bomb bay. Load options are: (a) one 2,200 lb bombs, (b) two 550 lb bombs, or (c) nine 220 lb bombs. Any bombs carried must be low-drag.		3. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 65 fuel points (1.3 load points).							
<b>Notes:</b>											
1. The Tupolev Tu-2P is a night interceptor. A few Tu-2S were converted by the PLAAF by adding the radar from the J-5A (MiG-17PF) and replacing the 20 mm cannons with 23 mm NR-23 cannons. The NATO reporting name is Bat.											
2. Low roll rate (LRR).											
3. Modified Radar Scan. In level flight, the radar may detect and track targets at equal or higher altitude, regardless of the altitude of the target, but may not detect targets at lower altitude. In diving or climbing flight, it may only detect targets at higher altitude.											
4. Gun Muzzle Flash. If the guns are fired at night, for the rest of the current game turn and during the following two game turns, the aircraft may not sight, may not conduct any attack that requires the target to be sighted, and is considered to be flying in adverse weather conditions.											
<b>VPs:</b> 12/8/4/2						v1.0000000 0000-00-00T00:00:00					

# Tupolev Tu-4



The Tupolev Tu-4 was a propeller-driven strategic bomber. As it provided the Soviet Union for the first time with the ability to conduct a one-way strike on peripheral cities in the continental US, including Los Angeles and Chicago, it spurred the development and deployment of defensive interceptors and SAMs. This effort gained further urgency when the Soviet Union demonstrated its first nuclear bomb. The NATO reporting name for the Tu-4 is Bull.

## Versions

### *Tu-4*

The Tu-4 was largely reverse-engineered from Boeing B-29As that had made emergency landings in the USSR during WWII and were subsequently interned. It was, however, fitted with Soviet Shvetsov ASh-73 engines and auxiliary equipment. Furthermore, the .50 cal machine guns on the original B-29A were replaced by more powerful 23 mm NS-23 cannons, with two in each turret and two in the tail position. The RPB Kobal't attack radar was a copy of the B-29's APQ-13 radar; its NATO reporting name is Mushroom.

The Tu-4 entered service with the Soviet DA VS (Long-Range Aviation) in large numbers in 1949. In addition to service in the DA VS, a small number were used by the Chinese PLAAF from 1953.

### *Tu-4A*

The Tu-4A version was a nuclear bomber and the counterpart of the Silverplate and Saddletree variants of the B-29A. Armament and armor were sacrificed to give longer range.

The Tu-4A served only in the Soviet DA VS.

### *Tu-4P*

The Tu-4P version was a conversion carried out by the Chinese PLAAF to create a night fighter specifically to counter ROCAF intruders. The navigation radar was moved from its normal ventral position to a radome in place of the forward

dorsal turret, creating a basic all-round air-search radar. The bomb bay was used as an air-intercept command post, and the guns were equipped with a basic infrared sight.

A few Tu-4P aircraft served with the PLAAF in 1960.

## Armament and Stores

A typical bomb load for the conventional Tu-4 would be six 1,000 kg bombs in the internal bays.

The nuclear Tu-4A could carry the RDS-1, -3, and -5 nuclear bombs.

## Combat

Only the Tu-4P saw combat.

## ADCs

- Tu-4
- Tu-4A
- Tu-4P

## See Also

- Boeing B-29 Superfortress
- Tu-4: Pavel Adzhigildaev (CC BY-SA 3.0)

## Photo Credit

• Tu-4: Pavel Adzhigildaev (CC BY-SA 3.0)

<b>Tu-4</b>				Crew: Pilot, Co-pilot, Bombardier, Flight Engineer, Navigator, Radio Operator, Radar Observer, Right Gunner, Left Gunner, Fire Control Officer, and Tail Gunner								
				<b>Maneuver HFPs/DPs:</b>								
<b>Power APs/DPs/FPs:</b> ○○○○				LR/DR — — VR — —								
CL	1/2	DT	Fuel	<b>Turn DPs:</b>								
FT	0.5	0.5	0.5	2.0	CL 1/2 DT							
HT	0.2	0.2	0.2	1.0	TT	1.0	—	—	—	—	—	—
N	0.0	0.0	0.0	0.4	HT	—	—	—	—	—	—	—
I	0.5	0.5	0.5	0.0	BT	—	—	—	—	—	—	—
SPBR	—	—	—	—	ET	—	—	—	—	—	—	—
If speed ≥ 3.0, reduce power by 0.2.				Cruise Speed: 2.0 Restr. Arcs: — Climb Speed: 2.0 Blind Arcs: — Visibility: 10 Internal Fuel: 2900 Size: -2 AtA Refuel: No Vulnerability: +2 Ejection Seat: None								
				No rolling maneuvers allowed.								
<b>Speeds and Ceilings</b>												
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band			
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+		
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	— —	VH		
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	— 0.25	HI		
MH	17–25	1.0 – 3.5	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	— 0.25	MH		
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	— 0.25	ML		
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.25	— 0.25	— 0.25	LO		
<b>Radar:</b> RPB Kobal't				<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>						
ECCM:	0			RWR:	A							
Arcs:	0+			DDS:	—							
Search:	Gr. Nav. (120)			DJM:	—							
Track:	Gr. Attack (60)			AJM:	—							
Lock-On:	6			BJM:	A2							
<b>Guns:</b> Ten 23 mm NS-23				<b>Technology:</b>				<b>Load Point Limits:</b>				
To Hit:	2/1/1			None				CL : 0–11 1/2: 12–23				
Ammunition:	11.0							<b>Weight Limit:</b> 20,000				
Gunsight:	—							DT : 24+				
Ranging:	—							<b>Station</b> Limit Allowed Loads				
AtA/AtG:	4/4							1 and 2 10,000 BB FT				
<b>Bomb System:</b> Manual								<b>Load Notes:</b>				
<b>Notes:</b>								1. Stations 1 and 2 are the forward and rear internal bays. Each can carry up to (a) two 1,500 kg (3,300 lb) FAB-1500 M46 bombs, (b) six 500 kg (1,100 lb) FAB-500 M46 bombs, (c) twelve 250 kg (550 lb) FAB-250 M46 bombs, or (d) two special 2400L FTs. All bombs must be the same type. 2. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 750 fuel points (15 load points).				
<b>VPs:</b> 24/16/8/4								v1.0000000 0000-00-00T00:00:00				

<b>Tu-4A</b>								Crew: Pilot, Copilot, Flight Engineer, Navigator, Bombardier, Weaponer, Radio Operator, Radar Operator, Countermeasures Operator, and Tail Gunner							
								<b>Maneuver HFPs/DPs:</b>							
<b>Power APs/DPs/FPs:</b> ○○○○								LR/DR	—	—					
CL 1/2 DT Fuel FT 0.5 0.5 0.5 2.0 HT 0.2 0.2 0.2 1.0 N 0.0 0.0 0.0 0.4 I 0.5 0.5 0.5 0.0 SPBR — — — —								VR	—	—					
Cruise Speed: 2.0 Restr. Arcs: — Climb Speed: 2.0 Blind Arcs: — Visibility: 10 Internal Fuel: 2900 Size: -2 AtA Refuel: No Vulnerability: +1 Ejection Seat: None								<b>Turn DPs:</b>							
								CL	1/2	DT					
								TT	1.0	—	—				
								HT	—	—	—				
								BT	—	—	—				
								ET	—	—	—				
								No rolling maneuvers allowed.							
If speed ≥ 3.0, reduce power by 0.2.															
<b>Speeds and Ceilings</b>								<b>Climb Capabilities</b>							
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band						
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+					
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	— —	VH					
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	— 0.25	HI					
MH	17–25	1.0 – 3.5	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	— 0.25	MH					
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	— 0.25	ML					
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.25	— 0.25	— 0.25	LO					
<b>Radar:</b> RPB Kobal't				<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>									
ECCM:	0			RWR:	A										
Arcs:	0+			DDS:	—										
Search:	Gr. Nav. (120)			DJM:	—										
Track:	Gr. Attack (60)			AJM:	—										
Lock-On:	6			BJM:	A2										
<b>Guns:</b> Two 23 mm NS-23				<b>Technology:</b>				<b>Load Point Limits:</b>							
To Hit:	3/2/2			None				CL : 0–11							
Ammunition:	11.0							1/2: 12–23							
Gunsight:	—							<b>Weight Limit:</b> 20,000							
Ranging:	—							DT : 24+							
AtA/AtG:	4/4							<b>Station</b> Limit Allowed Loads							
<b>Bomb System:</b>	Manual							1 and 2	10,000 BB FT						
<b>Notes:</b>															
1. The Tupolev Tu-4 is a propeller-driven strategic nuclear bomber. It is a reverse-engineered version of the Boeing B-29A. The NATO reporting name for the aircraft is Bull. 2. Low roll rate (LRR). 3. Flight Restrictions. VD, VC, and unloading are forbidden. 4. Articulated Guns. The guns can only fire at targets in the 60° arc. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size.															
<b>Load Notes:</b>															
1. Station 1 is the internal bomb bay. It can carry either (a) one RDS-1 nuclear bomb (weight 10,000), (b) one RDS-3 nuclear bomb (weight 8000), or (c) one RDS-5 nuclear bomb (weight unknown). 2. Station 2 is the rear internal bomb bay and can carry two special 2400L FTs. 3. Exceptionally, internal fuel also contributes 1 load point per 50 fuel points. A return mission will typically require leaving the target with at least 750 fuel points (15 load points).															
<b>VPs:</b> 24/16/8/4								v1.0000000 0000-00-00T00:00:00							

<b>Tu-4P</b>								Crew: Pilot, Co-pilot, Flight Engineer, Navigator, Radio Operator, Radar Operator, Intercept Officer, Intercept Officer, Plotter, Plotter, Fire Control Officer, Right Gunner, Left Gunner, and Tail Gunner																
								<b>Maneuver HFPs/DPs:</b>																
<b>Power APs/DPs/FPs:</b> ○○○○								LR/DR	—	—														
CL 1/2 DT Fuel								VR	—	—														
FT	0.5	0.5	0.5	2.0																				
HT	0.2	0.2	0.2	1.0																				
N	0.0	0.0	0.0	0.4																				
I	0.5	0.5	0.5	0.0																				
SPBR	—	—	—	—																				
If speed ≥ 3.0, reduce power by 0.2.								Cruise Speed:	2.0	Restr. Arcs:	—													
								Climb Speed:	2.0	Blind Arcs:	—													
								Visibility:	10	Internal Fuel:	2900													
								Size:	-2	AtA Refuel:	No													
								Vulnerability:	+2	Ejection Seat:	None													
								No rolling maneuvers allowed.																
<b>Speeds and Ceilings</b>								<b>Climb Capabilities</b>																
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band															
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+														
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	— —	VH														
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	— 0.10	HI														
MH	17–25	1.0 – 3.5	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	— 0.25	MH														
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	— 0.25	ML														
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.25	— 0.25	— 0.25	LO														
<b>Radar:</b> RPB Kobal't				<b>ECM:</b> IFF				<b>Weapon Stations Diagram:</b>																
ECCM:	0	RWR: A		DDS:	—																			
Arcs:	All	DJM: —																						
Search:	120–8	AJM: —																						
Track:	—	BJM: A2																						
<b>Guns:</b> Eight 23 mm NS-23				<b>Technology:</b>				<b>Load Point Limits:</b>				CL : 0–11												
To Hit:	2/1/1	None						1/2: 12–23																
Ammunition:	11.0							<b>Weight Limit:</b> 20,000				DT : 24+												
Gunsight:	—							<b>Station</b>				<b>Allowed Loads</b>												
Ranging:	—											<b>Load Notes:</b>												
AtA/AtG:	4/4							1. No stores may be carried. The internal bomb bay is used to house an air-intercept control post.																
<b>Bomb System:</b> Manual																								
<b>Notes:</b>																								
1. The Tupolev Tu-4P is a propeller-driven night interceptor converted from the Tu-4 bomber. The NATO reporting name is Bull.																								
2. Low roll rate (LRR).																								
3. Flight Restrictions. VD, VC, and unloading are forbidden.																								
4. Dorsal Radar. In level flight, the radar may detect targets at equal or higher altitude, regardless of the altitude of the target, but may not detect targets at lower altitude. In diving or climbing flight, it may only detect targets at higher altitude.																								
5. Articulated Guns. The guns can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size and a -1 modifier when firing into the 60° arc.																								
<b>VPs:</b> 24/16/8/4								v1.0000000 0000-00-00T00:00:00																

# Ilyushin Il-28



The Ilyushin Il-28 was a conventional and nuclear tactical bomber and a long-range reconnaissance aircraft. The NATO reporting name for the aircraft is "Beagle".

It was powered by two Klimov VK-1 engines in underwing pods. This engine was a development on the Klimov RD-45, an unauthorized copy of the Rolls-Royce Nene engine, and was also used in the MiG-15bis.

## Versions

### Il-28

The Il-28 was a conventional tactical bomber. It was armed with two fixed 23 mm NR-23 cannons and two more in a defensive tail mount. It could carry up to 3,000 kg (6,600 lb) of bombs in its internal bomb bay, but a normal load was 1,000 kg (2,200 lb).

The Il-28 entered service with the Soviet VVS in 1950 and AV MF (Naval Aviation) in 1951 and with the PLAAF in 1952. They were exported to many other countries, including Afghanistan, Algeria, Bulgaria, Cambodia, Czechoslovakia, East Germany, Egypt, Finland, Hungary, Indonesia, Iraq, Morocco, Nigeria, North Korea, North Vietnam, Romania, Somalia, Syria, and Yemen. They were built under license in Czechoslovakia. China later built a modified version as the Harbin H-5.

### Il-28T

The Il-28T was a torpedo bomber. Its bomb bay was lengthened to allow the internal carriage of torpedoes and its wing moved slightly to compensate for the resulting change in the center of gravity. It was equipped with two 350L wing-tip fuel tanks to compensate for the reduced capacity of the in fuselage fuel tanks.

The IL-28T entered service with the Soviet AV MF in 1951.

### Il-28R

The Il-28R was a long-range photo-reconnaissance aircraft. Its bomb bay was given over to cameras, flares, and

additional fuel. It also was equipped with two 350L wing-tip fuel tanks. One of the forward-firing guns was replaced by reconnaissance equipment.

The IL-28R entered service with the VVS and AV MF in 1952.

### Il-28N

The Il-28N was a nuclear tactical bomber. It could carry the RDS-4 nuclear bomb in its internal bomb bay. Like the Il-28R, it was equipped with two 350L wing-tip fuel tanks.

The IL-28N entered service with the VVS in about 1954.

### Il-28REB

The Il-28REB was an electronic-countermeasures aircraft. Its primary role was to protect Il-28s on conventional and nuclear bombing missions. Like the Il-28R, it was equipped with two 350L wing-tip fuel tanks.

The IL-28REB entered service with the VVS in about 1954.

## Armament and Stores

The Il-28 could carry up to 3,000 kg (6,600 lb) of bombs in its internal bay. Alternatively, the Il-28T could carry one Type 45 or two RAT-52 torpedoes. The Il-28N could carry a single RDS-4 nuclear bomb.

## Combat

PLAAF Il-28s did not see combat in the Korean War, but were an implicit threat during the last year of the Korean War. They saw action in 1956 against Taiwan, bombing the Tachen Islands, and suffered losses to RoCAF F-84 and F-86s. They were also used in the 1959 Tibetan Uprising.

Egyptian Air Force Il-28s fought in the 1967 War, the War of Attrition, and the 1973 War.

Soviet VVS Il-28s saw combat in the Soviet-Afghan War.

## ADCs

- Il-28
- Il-28T
- Il-28R
- Il-28N

## Photo Credit

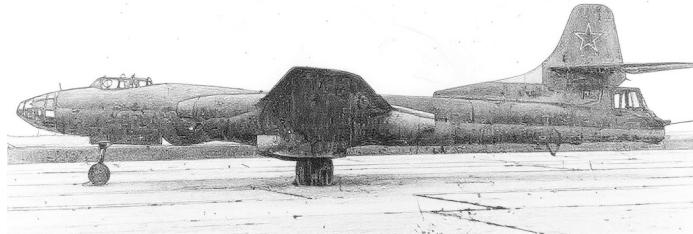
- Il-28: Bjoern Schwarz (CC BY 2.0)

<b>Il-28</b>					<b>Crew:</b> Pilot, Bombardier, and Gunner								
					<b>Maneuver HFPs/DPs:</b>								
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —								
AB — — — —					VR — —								
M 1.0 1.0 0.5 2.0	N 0.0 0.0 0.0 1.0	I 0.5 0.5 0.5 0.0	SPBR 0.5 0.5 0.5 —	<b>Turn DPs:</b>									
Cruise Speed: 4.5 Restr. Arcs: -					CL 1/2 DT								
Climb Speed: 3.5 Blind Arcs: -					TT 0.0 1.0 1.0								
Visibility: 8 Internal Fuel: 565					HT 1.0 2.0 2.0								
Size: -1 AtA Refuel: No					BT — — —								
Vulnerability: -2 Ejection Seat: Early					ET — — —								
No rolling maneuvers allowed.													
<b>Speeds and Ceilings</b>													
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band				
EH+	46+	—	—	—	—	— —	— —	— —	EH+				
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH				
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	HI				
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH				
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	ML				
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	— 1.0	— 1.0	— 0.5	LO				
<b>Radar:</b> PSB-N			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>								
ECCM:	0		RWR:	A									
Arcs:	180+		DDS:	—									
Search:	Gr. Nav. (90)		DJM:	—									
Track:	Gr. Attack (45)		AJM:	—									
Lock-On:	6		BJM:	—									
<b>Guns:</b> Two 23 mm NR-23			<b>Technology:</b>		<b>Load Point Limits:</b>								
To Hit:	3/2/1		None		CL : 0–4								
Ammunition:	6.0				1/2: 5–8								
Gunsight:	TT+1/HT+2				<b>Weight Limit:</b> 6,600								
Ranging:	—				DT : 9+								
AtA/AtG:	4/3				<b>Station</b> 1 Limit 6,600 Allowed Loads BB								
<b>Bomb System:</b> Manual					<b>Load Notes:</b>								
<b>Notes:</b> <ol style="list-style-type: none"> <li>The Ilyushin Il-28 is a medium bomber. The NATO reporting name for the aircraft is Beagle.</li> <li>High transonic drag (HTD). Low roll rate (LRR).</li> <li>Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.</li> <li>Articulated Guns. In addition to its fixed guns, the aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0.</li> <li>The tail gunner does not have an ejection seat and can only bail out.</li> <li>RWR from 1960.</li> </ol>													
<b>VPs:</b> 12/8/4/2							v1.0000000 0000-00-00T00:00:00						

<b>Il-28R</b>					Crew: Pilot, Observer, and Gunner																
					<b>Maneuver HFPs/DPs:</b>																
<b>Power APs/DPs/FPs:</b> ○○					LR/DR	—	—	—	—												
CL 1/2 DT Fuel					VR	—	—	—	—												
AB	—	—	—	—	<b>Turn DPs:</b>																
M	1.0	1.0	0.5	2.0	CL	1/2	DT	—	—												
N	0.0	0.0	0.0	1.0	TT	0.0	1.0	1.0	—												
I	0.5	0.5	0.5	0.0	HT	1.0	2.0	2.0	—												
SPBR	0.5	0.5	0.5	—	BT	—	—	—	—												
Cruise Speed: 4.5 Restr. Arcs: -					ET	—	—	—	—												
Climb Speed: 3.5 Blind Arcs: -					No rolling maneuvers allowed.																
Visibility: 8 Internal Fuel: 765																					
Size: -1 AtA Refuel: No																					
Vulnerability: -2 Ejection Seat: Early																					
<b>Speeds and Ceilings</b>																					
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band												
EH+	46+	—	—	—	—	— —	— —	— —	EH+												
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH												
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	HI												
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH												
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	ML												
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	— 1.0	— 1.0	— 0.5	LO												
<b>Radar:</b> PSB-N		<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>																		
ECCM:	0	RWR: A																			
Arcs:	180+	DDS: —																			
Search:	Gr. Nav. (90)	DJM: —																			
Track:	Gr. Attack (45)	AJM: —																			
Lock-On:	6	BJM: —																			
<b>Guns:</b> One 23 mm NR-23		<b>Technology:</b>		<b>Load Point Limits:</b>																	
To Hit:	3/2/1	None		CL : 0–2 1/2: 3–6																	
Ammunition:	6.0			<b>Weight Limit:</b> 0 DT : 7+																	
Gunsight:	TT+1/HT+2			<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>															
Ranging:	—			1	0																
AtA/AtG:	3/2			<b>Load Notes:</b>																	
<b>Bomb System:</b> Manual				1. Station 1 is the internal bomb bay. These guns may only carry twelve parachute illumination flares. 2. Internal fuel includes two fixed 350L wing-tip fuel tanks and larger fuselage tanks. As an exception to the normal rules for load points, internal fuel above 565 fuel points contributes 1 load point for each 50 fuel points.																	
<b>Notes:</b>																					
1. The Ilyushin Il-28R is a photo-reconnaissance aircraft. It is a development of the Il-28 medium bomber. The NATO reporting name for the aircraft is Beagle.																					
2. High transonic drag (HTD). Low roll rate (LRR).																					
3. Articulated Guns. In addition to its fixed guns, the aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0.																					
4. The tail gunner does not have an ejection seat and can only bail out.																					
5. Overhead and left oblique cameras in the bomb bay																					
6. RWR from 1960.																					
<b>VPs:</b> 12/8/4/2								v1.0000000 0000-00-00T00:00:00													

<b>Il-28N</b>					<b>Crew:</b> Pilot, Bombardier, and Gunner																		
					<b>Maneuver HFPs/DPs:</b>																		
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —																		
AB — — — —					VR — —																		
M 1.0 1.0 0.5 2.0	N 0.0 0.0 0.0 1.0	I 0.5 0.5 0.5 0.0	SPBR 0.5 0.5 0.5 —						<b>Turn DPs:</b>														
					CL 1/2 DT																		
					TT 0.0 1.0 1.0																		
					HT 1.0 2.0 2.0																		
					BT — — —																		
					ET — — —																		
					No rolling maneuvers allowed.																		
<b>Speeds and Ceilings</b>																							
Alt. Band	Conf. Ceil.	CL 40	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band														
EH+	46+	—	—	—	—	— —	— —	— —	EH+														
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH														
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	HI														
MH	17–25	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH														
ML	8–16	2.0 – 5.0	2.5 – 5.0	2.5 – 4.5	6.0	— 0.5	— 0.5	— 0.5	ML														
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.0 – 4.5	6.0	— 1.0	— 1.0	— 0.5	LO														
<b>Radar:</b> PSB-N		<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>																				
ECCM:	0	RWR: A																					
Arcs:	180+	DDS: —																					
Search:	Gr. Nav. (90)	DJM: —																					
Track:	Gr. Attack (45)	AJM: —																					
Lock-On:	6	BJM: —																					
<b>Guns:</b> Two 23 mm NR-23		<b>Technology:</b> None		<b>Load Point Limits:</b> CL : 0–4 1/2: 5–8																			
To Hit:	3/2/1			<b>Weight Limit:</b> 6,600 DT : 9+																			
Ammunition:	6.0			<b>Station</b> 1 Limit 6,600 Allowed Loads																			
Gunsight:	TT+1/HT+2																						
Ranging:	—			<b>Load Notes:</b>																			
AtA/AtG:	4/3			1. Station 1 is the internal bomb bay. It may only carry one RDS-4 nuclear bomb (weight 2650 and load 4.5). 2. Internal fuel includes two fixed 350L wing-tip fuel tanks. As an exception to the normal rules for load points, internal fuel above 565 fuel points contributes 1 load point for each 50 fuel points.																			
<b>Bomb System:</b> Manual																							
<b>Notes:</b>																							
1. The Ilyushin Il-28N is a tactical nuclear bomber. It is a development of the Il-28 medium bomber. The NATO reporting name for the aircraft is Beagle. 2. High transonic drag (HTD). Low roll rate (LRR). 3. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target. 4. Articulated Guns. In addition to its fixed guns, the aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0. 5. The tail gunner does not have an ejection seat and can only bail out. 6. RWR from 1960.																							
<b>VPs:</b> 12/8/4/2								v1.0000000 0000-00-00T00:00:00															

## Tupolev Tu-14



The Tupolev Tu-14 was a conventional medium bomber and torpedo bomber. Its NATO reporting name is Bosun.

### Versions

#### *Tu-14*

The Tu-14 was a conventional tactical bomber. It was developed in competition with the Ilyushin Il-28 and shares many features with that aircraft, including unswept wings, a swept tail, two Klimov VK-1 engines in pods under the wings, and a gun armament of two fixed 23 mm NR-23 guns and two more in a tail turret. It could carry 3,000 kg (6,600 lb) in its internal bomb bay.

However, the Tu-14 was not accepted for service by the VVS, which preferred the Il-28.

#### *Tu-14T*

The Tu-14T was a torpedo bomber, developed for Soviet AM VF. In contrast to the Tu-14 bomber version, the pilot and weapons officer are provided with ejection seats.

The Tu-14T served from 1952 to 1959 in Naval Aviation but did not serve in other branches and was not exported.

### Armament and Stores

The Tu-14T could carry torpedoes, mines, or bombs in its internal bomb bay.

### Combat

The Tu-14 did not see combat.

### ADCs

- Tu-14
- Tu-14T

### Photo Credit

- Tu-14: SDASM Archives (Public Domain)

<b>Tu-14</b>					<b>Crew:</b> Pilot, Weapons Officer, and Gunner						
					<b>Maneuver HFPs/DPs:</b>						
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —						
CL 1/2 DT Fuel					VR —						
AB	—	—	—	—	<b>Turn DPs:</b>						
M	0.5	0.5	0.5	2.0	CL 1/2 DT						
N	0.0	0.0	0.0	1.0	TT	0.0	0.0	1.0			
I	0.5	0.5	0.5	0.0	HT	1.0	1.0	—			
SPBR	0.5	0.5	0.5	—	BT	—	—	—			
Smoker in military power (SMP).					ET	—	—	—			
Cruise Speed: 4.5 Restr. Arcs: -					No rolling maneuvers allowed.						
Climb Speed: 3.5 Blind Arcs: -											
Visibility: 8 Internal Fuel: 750											
Size: -1 AtA Refuel: No											
Vulnerability: -2 Ejection Seat: None											
<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL 38	1/2 32	DT 24	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	EH+		
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH		
HI	26–35	2.5 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	HI		
MH	17–25	2.5 – 5.0	2.5 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH		
ML	8–16	2.0 – 5.5	2.5 – 5.0	2.5 – 5.0	6.5	— 0.5	— 0.5	— 0.5	ML		
LO	0–7	2.0 – 5.0	2.0 – 5.0	2.0 – 4.5	6.5	— 1.0	— 0.5	— 0.5	LO		
<b>Radar:</b> PSB-N			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>						
ECCM:	0		RWR:	—							
Arcs:	180+		DDS:	—							
Search:	Gr. Nav. (90)		DJM:	—							
Track:	Gr. Attack (45)		AJM:	—							
Lock-On:	6		BJM:	—							
<b>Guns:</b> Two 23 mm NR-23			<b>Technology:</b>		<b>Load Point Limits:</b>						
To Hit:	3/2/1		None		CL : 0–4						
Ammunition:	6.0				1/2: 5–8						
Gunsight:	TT+1/HT+3				<b>Weight Limit:</b> 6,600						
Ranging:	—				DT : 9+						
AtA/AtG:	4/3				<b>Station</b> Limit Allowed Loads						
<b>Bomb System:</b>	Manual				1	6,600	BB				
<b>Notes:</b>					<b>Load Notes:</b>						
1.	The Tupolev Tu-14 is a medium bomber. The NATO reporting name for the aircraft is Bosun.				1. Station 1 is the internal bomb bay. Load options are: (a) two FAB-1000 2,200 lb bombs, (b) four FAB-500 1,100 lb bombs, (c) six FAB-250 550 lb bombs, or (d) sixteen FAB-100 225 lb bombs. Any bombs carried must be low-drag.						
2.	High transonic drag (HTD).										
3.	Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.										
4.	Articulated Guns. In addition to its fixed guns, the aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0.										
<b>VPs:</b> 13/9/4/2								v1.0000000 0000-00-00T00:00:00			

<b>Tu-14T</b>					Crew: Pilot, Weapons Officer, and Gunner								
					<b>Maneuver HFPs/DPs:</b>								
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —								
CL 1/2 DT Fuel					VR —								
AB	—	—	—	—	<b>Turn DPs:</b>								
M	0.5	0.5	0.5	2.0	CL 1/2 DT								
N	0.0	0.0	0.0	1.0	TT	0.0	0.0	1.0					
I	0.5	0.5	0.5	0.0	HT	1.0	1.0	—					
SPBR	0.5	0.5	0.5	—	BT	—	—	—					
Smoker in military power (SMP).					ET	—	—	—					
Cruise Speed: 4.5 Restr. Arcs: -					No rolling maneuvers allowed.								
Climb Speed: 3.5 Blind Arcs: -													
Visibility: 8 Internal Fuel: 750													
Size: -1 AtA Refuel: No													
Vulnerability: -2 Ejection Seat: Early													
<b>Speeds and Ceilings</b>													
Alt. Band	Conf. Ceil.	CL 38	1/2 32	DT 24	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band				
EH+	46+	—	—	—	—	— —	— —	— —	EH+				
VH	36–45	3.0 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	VH				
HI	26–35	2.5 – 5.0	3.0 – 4.5	—	6.0	— 0.5	— 0.5	— —	HI				
MH	17–25	2.5 – 5.0	2.5 – 5.0	3.0 – 5.0	6.0	— 0.5	— 0.5	— 0.5	MH				
ML	8–16	2.0 – 5.5	2.5 – 5.0	2.5 – 5.0	6.5	— 0.5	— 0.5	— 0.5	ML				
LO	0–7	2.0 – 5.0	2.0 – 5.0	2.0 – 4.5	6.5	— 1.0	— 0.5	— 0.5	LO				
<b>Radar:</b> PSB-N			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>								
ECCM:	0		RWR:	—									
Arcs:	180+		DDS:	—									
Search:	Gr. Nav. (90)		DJM:	—									
Track:	Gr. Attack (45)		AJM:	—									
Lock-On:	6		BJM:	—									
<b>Guns:</b> Two 23 mm NR-23			<b>Technology:</b>		<b>Load Point Limits:</b>								
To Hit:	3/2/1		None		CL : 0–4								
Ammunition:	6.0				1/2: 5–8								
Gunsight:	TT+1/HT+3				<b>Weight Limit:</b> 6,600								
Ranging:	—				DT : 9+								
AtA/AtG:	4/3				<b>Station</b> Limit Allowed Loads								
<b>Bomb System:</b>	Manual				1	6,600	BB TP						
<b>Notes:</b>													
1. The Tupolev Tu-14T is a torpedo bomber. It is a development of the Tu-14 medium bomber. The NATO reporting name for the aircraft is Bosun.													
2. High transonic drag (HTD).													
3. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.													
4. Tail Guns. In addition to its fixed guns, there aircraft has a tail mount with two 23 mm NR-23 guns that can fire into the 60° arc. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. The hit roll is 3/2/1 and no modifiers apply except target size. The AtA damage rating is 4. The ammunition is 6.0.													
5. The tail gunner does not have an ejection seat and can only bail out.													
<b>VPs:</b> 15/10/5/3								v1.0000000 0000-00-00T00:00:00					

## **Tupolev Tu-16**

The Tupolev Tu-16 is a conventional and nuclear strategic bomber. It has a swept wing and tail and two large Mikulin AM-3 engines in the wing roots. It is defended by six 23 mm AM-23 guns mounted in pairs in a tail turret, rear ventral turret, and forward dorsal turret, and also has a fixed forward-firing single 23 mm AM-23 gun.

The initial Tu-16 version is a conventional strategic bomber, and was the Soviet Union's first long-range jet bomber.

The Tu-16A is an adaptation of the Tu-16 for carrying nuclear weapons, including the Soviet Union's first hydrogen bomb, the RDS-37.

The Tu-16KS and Tu-16K were naval strike version, with improved search radar and the ability to carry KS-1 Komet (AS-1 Kennel) and KSR-2/KSR-11 (AS-5 Kelt) cruise missiles.

The Tu-16 entered service in 1954 with DA (Long-Range Aviation) and AVMF (Naval Aviation). The Tu-16A followed shortly thereafter. The Tu-16KS and Tu-16K entered service in 1954 and 1962 with AVMF.

The Tu-16 was exported to China (where it was also produced under license as the Xi'an H-6/B-6), Egypt, Indonesia, and Iraq.

Egyptian Tu-16s suffered heavy losses on the ground at the start of the 1967 War, but were more active in the 1973 War.

Iraqi Tu-16s saw combat in the Iran-Iraq War.

ADCs are provided for:

- Tu-16
- Tu-16A
- Tu-16KS
- Tu-16K

<b>Tu-16</b>					<b>Crew:</b> Pilot, Copilot, Bombardier, Navigator, Gunner, and Gunner						
					<b>Maneuver HFPs/DPs:</b>						
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —						
CL 1/2 DT Fuel					VR —						
AB	—	—	—	—	<b>Turn DPs:</b>						
M	1.0	1.0	0.5	10.0	CL 1/2 DT						
N	0.0	0.0	0.0	4.0	TT	1.0	2.0	2.0			
I	0.5	0.5	1.0	1.0	HT	2.0	3.0	3.0			
SPBR	0.5	0.5	0.5	—	BT	—	—	—			
Cruise Speed: 5.0 Restr. Arcs: -					ET	—	—	—			
Climb Speed: 3.5 Blind Arcs: -					No rolling maneuvers allowed.						
Visibility: 10 Internal Fuel: 3750											
Size: -2 AtA Refuel: No											
Vulnerability: +1 Ejection Seat: Early											
<b>Speeds and Ceilings</b>											
Alt. Band	Conf. Ceil.	CL 44	1/2 38	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	EH+		
VH	36–45	3.0 – 5.5	3.5 – 5.0	—	6.0	— 0.25	— 0.25	— —	VH		
HI	26–35	3.0 – 5.5	3.5 – 5.0	3.5 – 5.0	6.5	— 0.25	— 0.25	— 0.25	HI		
MH	17–25	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.50	MH		
ML	8–16	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	— 0.50	— 0.50	— 0.50	ML		
LO	0–7	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.5	— 1.00	— 1.00	— 0.50	LO		
<b>Radar:</b>			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>						
ECCM:	1		RWR:	A							
Arcs:	180+		DDS:	A							
Search:	Gr. Nav. (120)		DJM:	—							
Track:	Gr. Attack (90)		AJM:	A4							
Lock-On:	6		BJM:	—							
<b>Guns:</b> One 23 mm AM-23			<b>Technology:</b>		<b>Load Point Limits:</b>						
To Hit:	2/1/1		None		CL : 0–10 1/2: 11–18						
Ammunition:	10.0				<b>Weight Limit:</b> 20,000						
Gunsight:	TT+1/HT+2				DT : 19+						
Ranging:	—				<b>Station</b> Limit Allowed Loads						
AtA/AtG:	4/3*				1 19,800 BB						
<b>Bomb System:</b> Ballistic					<b>Load Notes:</b>						
<p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>The Tupolev Tu-16 is a strategic conventional bomber. The NATO reporting name for the aircraft is Badger-A, and for the tail radar is Bee Hind.</li> <li>DDS capacity is 60 CH and 20 FL or 80 CH.</li> <li>Tail Radar. Equiped with a PRS-1 Argon tail radar that allows an attempt at RE radar ranging when firing at targets in the 30° arc. The lock-on roll is 7°.</li> <li>Articulated Guns. In addition to its fixed guns, the aircraft has six 23 mm AM-23 guns, two in the forward dorsal twin turret, two in the rear ventral twin turret, and two in the tail turret. They can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 2/1/1 and are modified only by the target size, a -1 modifier when firing into the 60° arc, and possibly a -1 modifier for RE radar ranging with the tail radar. The AtA damage rating is 4. The ammunition is 10.0.</li> </ol>											
					<b>VPs:</b> 30/20/10/5						
					v1.0000000 0000-00-00T00:00:00						

<b>Tu-16A</b>										<b>Crew:</b> Pilot, Copilot, Bombardier, Navigator, Gunner, and Gunner	
<b>Power APs/DPs/FPs:</b> ○○										<b>Maneuver HFPs/DPs:</b>	
CL 1/2 DT Fuel										LR/DR	— —
AB — — — —										VR	—
M 1.0 1.0 0.5 10.0										<b>Turn DPs:</b>	
N 0.0 0.0 0.0 4.0										CL 1/2 DT	
I 0.5 0.5 1.0 1.0										TT 1.0 2.0 2.0	
SPBR 0.5 0.5 0.5 —										HT 2.0 3.0 3.0	
Cruise Speed: 5.0 Restr. Arcs: -										BT — — —	
Climb Speed: 3.5 Blind Arcs: -										ET — — —	
Visibility: 10 Internal Fuel: 3750										No rolling maneuvers allowed.	
Size: -2 AtA Refuel: No											
Vulnerability: +1 Ejection Seat: Early											

<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>						
Alt. Band	Conf. Ceil.	CL 44	1/2 38	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	EH+		
VH	36–45	3.0 – 5.5	3.5 – 5.0	—	6.0	— 0.25	— 0.25	— —	VH		
HI	26–35	3.0 – 5.5	3.5 – 5.0	3.5 – 5.0	6.5	— 0.25	— 0.25	— 0.25	HI		
MH	17–25	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.50	MH		
ML	8–16	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	— 0.50	— 0.50	— 0.50	ML		
LO	0–7	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.5	— 1.00	— 1.00	— 0.50	LO		

<b>Radar:</b> ECCM: 1 Arcs: 180+ Search: Gr. Nav. (120) Track: Gr. Attack (90) Lock-On: 6	<b>ECM:</b> IFF RWR: A DDS: A DJM: — AJM: A4 BJM: —	<b>Weapon Stations Diagram:</b>										
<b>Guns:</b> One 23 mm AM-23 To Hit: 2/1/1 Ammunition: 10.0 Gunsight: TT+1/HT+2 Ranging: — AtA/AtG: 4/3*	<b>Technology:</b> None	<b>Load Point Limits:</b> CL : 0–10 1/2: 11–18 <b>Weight Limit:</b> 20,000 DT : 19+										
<b>Bomb System:</b> Ballistic	<b>Station</b> Limit Allowed Loads 1 19,800 BB											
<b>Notes:</b>	<b>Load Notes:</b> 1. Station 1 is the internal bomb bay. It can carry up to one RDS-37 nuclear bomb (weight 12,000 lb).											
1. The Tupolev Tu-16A is a strategic nuclear bomber. It is derived from the Tu-16 conventional bomber. The NATO reporting name for the aircraft is Badger-A, and for the tail radar is Bee Hind. 2. DDS capacity is 60 CH and 20 FL or 80 CH. 3. Tail Radar. Equipped with a PRS-1 Argon tail radar that allows an attempt at RE radar ranging when firing at targets in the 30° arc. The lock-on roll is 7°. 4. Articulated Guns. In addition to its fixed guns, the aircraft has six 23 mm AM-23 guns, two in the forward dorsal twin turret, two in the rear ventral twin turret, and two in the tail turret. They can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 2/1/1 and are modified only by the target size, a -1 modifier when firing into the 60° arc, and possibly a -1 modifier for RE radar ranging with the tail radar. The AtA damage rating is 4. The ammunition is 10.0.	<b>VPs:</b> 30/20/10/5 v1.0000000 0000-00-00T00:00:00											

<b>Tu-16KS</b>					<b>Crew:</b> Pilot, Copilot, Bombardier, Navigator, Gunner, and Gunner											
					<b>Maneuver HFPs/DPs:</b>											
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —											
CL 1/2 DT Fuel					VR —											
AB	—	—	—	—	<b>Turn DPs:</b>											
M	1.0	1.0	0.5	10.0	CL 1/2 DT											
N	0.0	0.0	0.0	4.0	TT	1.0	2.0	2.0								
I	0.5	0.5	1.0	1.0	HT	2.0	3.0	3.0								
SPBR	0.5	0.5	0.5	—	BT	—	—	—								
Cruise Speed: 5.0 Restr. Arcs: -					ET	—	—	—								
Climb Speed: 3.5 Blind Arcs: -					No rolling maneuvers allowed.											
Visibility: 10 Internal Fuel: 3750																
Size: -2 AtA Refuel: No																
Vulnerability: +1 Ejection Seat: Early																
<b>Speeds and Ceilings</b>																
Alt. Band	Conf. Ceil.	CL 44	1/2 38	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band							
EH+	46+	—	—	—	—	— —	— —	— —	EH+							
VH	36–45	3.0 – 5.5	3.5 – 5.0	—	6.0	— 0.25	— 0.25	— —	VH							
HI	26–35	3.0 – 5.5	3.5 – 5.0	3.5 – 5.0	6.5	— 0.25	— 0.25	— 0.25	HI							
MH	17–25	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.50	MH							
ML	8–16	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	— 0.50	— 0.50	— 0.50	ML							
LO	0–7	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.5	— 1.00	— 1.00	— 0.50	LO							
<b>Radar:</b>			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>											
ECCM:	1		RWR:	B												
Arcs:	180+		DDS:	A												
Search:	Gr. Nav. (345)		DJM:	—												
Track:	Gr. Attack (345)		AJM:	A4												
Lock-On:	7		BJM:	—												
<b>Guns:</b> One 23 mm AM-23			<b>Technology:</b>		<b>Load Point Limits:</b>											
To Hit:	2/1/1		None		CL : 0–10 1/2: 11–18											
Ammunition:	10.0				<b>Weight Limit:</b> 20,000 DT : 19+											
Gunsight:	TT+1/HT+2				<b>Station</b> Limit Allowed Loads											
Ranging:	—		1 and 2 10,000 BB WR FT ASM													
AtA/AtG:	4/3*				<b>Load Notes:</b>											
<b>Bomb System:</b> Ballistic			1. Stations 1 and 2 may each carry one AS-1 Kennel ASM.													
<b>Notes:</b>																
1. The Tupolev Tu-16KS is a maritime strike aircraft. It is derived from the Tu-16 conventional bomber. The NATO reporting name for the aircraft is Badger-B, and for the tail radar is Bee Hind.																
2. DDS capacity is 60 CH and 20 FL or 80 CH.																
3. Tail Radar. Equipped with a PRS-1 Argon tail radar that allows an attempt at RE radar ranging when firing at targets in the 30° arc. The lock-on roll is 7°.																
4. Articulated Guns. In addition to its fixed guns, the aircraft has six 23 mm AM-23 guns, two in the forward dorsal twin turret, two in the rear ventral twin turret, and two in the tail turret. They can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 2/1/1 and are modified only by the target size, a -1 modifier when firing into the 60° arc, and possibly a -1 modifier for RE radar ranging with the tail radar. The AtA damage rating is 4. The ammunition is 10.0.																
<b>VPs:</b> 34/23/11/6								v1.0000000 0000-00-00T00:00:00								

<b>Tu-16K</b>					<b>Crew:</b> Pilot, Copilot, Bombardier, Navigator, Gunner, and Gunner											
					<b>Maneuver HFPs/DPs:</b>											
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —											
CL 1/2 DT Fuel					VR —											
AB	—	—	—	—	<b>Turn DPs:</b>											
M	1.0	1.0	0.5	10.0	CL 1/2 DT											
N	0.0	0.0	0.0	4.0	TT	1.0	2.0	2.0								
I	0.5	0.5	1.0	1.0	HT	2.0	3.0	3.0								
SPBR	0.5	0.5	0.5	—	BT	—	—	—								
Cruise Speed: 5.0 Restr. Arcs: -					ET	—	—	—								
Climb Speed: 3.5 Blind Arcs: -					No rolling maneuvers allowed.											
Visibility: 10 Internal Fuel: 3750																
Size: -2 AtA Refuel: No																
Vulnerability: +1 Ejection Seat: Early																
<b>Speeds and Ceilings</b>																
Alt. Band	Conf. Ceil.	CL 44	1/2 38	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band							
EH+	46+	—	—	—	—	— —	— —	— —	EH+							
VH	36–45	3.0 – 5.5	3.5 – 5.0	—	6.0	— 0.25	— 0.25	— —	VH							
HI	26–35	3.0 – 5.5	3.5 – 5.0	3.5 – 5.0	6.5	— 0.25	— 0.25	— 0.25	HI							
MH	17–25	2.5 – 6.0	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.50	MH							
ML	8–16	2.0 – 6.0	2.5 – 5.5	2.5 – 5.0	6.5	— 0.50	— 0.50	— 0.50	ML							
LO	0–7	1.5 – 5.5	2.0 – 5.0	2.0 – 4.5	6.5	— 1.00	— 1.00	— 0.50	LO							
<b>Radar:</b>			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>											
ECCM:	1		RWR:	B												
Arcs:	180+		DDS:	A												
Search:	Gr. Nav. (345)		DJM:	—												
Track:	Gr. Attack (345)		AJM:	A4												
Lock-On:	7		BJM:	—												
<b>Guns:</b> One 23 mm AM-23			<b>Technology:</b>		<b>Load Point Limits:</b>											
To Hit:	2/1/1		None		CL : 0–10 1/2: 11–18											
Ammunition:	10.0				<b>Weight Limit:</b> 20,000 DT : 19+											
Gunsight:	TT+1/HT+2				<b>Station</b> Limit Allowed Loads											
Ranging:	—		1 and 2 10,000 BB WR FT ARM ASM													
AtA/AtG:	4/3*				<b>Load Notes:</b>											
<b>Bomb System:</b> Ballistic					1. Stations 1 and 2 may each carry one AS-5 Kelt ASM or ARM.											
<b>Notes:</b>																
1. The Tupolev Tu-16K is a maritime strike aircraft. It is derived from the Tu-16K. The NATO reporting name for the aircraft is Badger-G, and for the tail radar is Bee Hind.																
2. DDS capacity is 60 CH and 20 FL or 80 CH.																
3. Tail Radar. Equipped with a PRS-1 Argon tail radar that allows an attempt at RE radar ranging when firing at targets in the 30° arc. The lock-on roll is 7°.																
4. Articulated Guns. In addition to its fixed guns, the aircraft has six 23 mm AM-23 guns, two in the forward dorsal twin turret, two in the rear ventral twin turret, and two in the tail turret. They can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are 2/1/1 and are modified only by the target size, a -1 modifier when firing into the 60° arc, and possibly a -1 modifier for RE radar ranging with the tail radar. The AtA damage rating is 4. The ammunition is 10.0.																
<b>VPs:</b> 34/23/11/6								v1.0000000 0000-00-00T00:00:00								

## **Tupolev Tu-22M**

ADCs are provided for

- Tu-22M2

<b>Tu-22M2</b>										<b>Crew:</b> Pilot, Copilot, Navigator, and Communications Officer		
<b>Power APs/DPs/FPs:</b> ○○										<b>Maneuver HFPs/DPs:</b>		
CL 1/2 DT Fuel										LR/DR	—	—
AB 2.5 2.0 1.0 24.0										VR	—	—
M 1.5 1.0 0.5 11.0										<b>Turn DPs:</b>		
N 0.0 0.0 0.0 5.0										CL	1/2	DT
I 0.5 0.5 1.0 0.0										TT	3.0	3.0
SPBR 0.5 1.0 1.0 —										HT	5.0	5.0
										BT	6.0	6.0
										ET	—	—
										No rolling maneuvers allowed.		

<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>							
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band			
EH+	46+	—	—	—	—	—	—	—	EH+			
VH	36–45	3.0 – 3.5	3.0 – 3.5	—	3.5	0.50 0.25	0.50 0.00	—	VH			
HI	26–35	2.5 – 3.5	3.0 – 3.5	3.0 – 3.5	3.5	1.00 0.50	1.00 0.25	0.50 0.25	HI			
MH	17–25	2.5 – 3.5	2.5 – 3.5	3.0 – 3.5	3.5	2.00 1.00	1.00 0.50	0.50 0.25	MH			
ML	8–16	2.0 – 3.5	2.5 – 3.5	2.5 – 3.5	3.5	2.50 1.00	1.50 0.50	1.00 0.25	ML			
LO	0–7	2.0 – 3.5	2.0 – 3.5	2.5 – 3.5	3.5	3.00 1.50	2.00 1.00	1.00 0.50	LO			

<b>Radar:</b> PN-A	ECCM: 2	ECM: IFF	<b>Weapon Stations Diagram:</b>												
ECCM: Arcs: 180+	Search: Gr. Nav. (300)	RWR: DDS: B B													
Track: Gr. Attack (180)	Lock-On: 7	DJM: —													
<b>Guns:</b> Two 23 mm GSh-23	To Hit: 5/3/1	Technology: None	<b>Load Point Limits:</b> CL : 0–40 1/2: 41–58												
Ammunition: 4.0	Gunsight: —	Ranging: —	<b>Weight Limit:</b> 47,000 DT : 59+												
AtA/AtG: 5/-	<b>Bomb System:</b> Ballistic	Station 1 and 5: 12,000 BB ASM NAM MR	<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>												
		2 and 4: 6,800 BB MR	1 and 5	12,000	BB ASM NAM MR										
		3: 19,000 BB ASM NAM	2 and 4	6,800	BB MR										
<b>Notes:</b>	<b>Load Notes:</b>														
1. The Tupolev Tu-22M2 is a bomber and maritime strike aircraft. The NATO reporting name for the aircraft is Backfire-B and for the radar is Down Beat.	1. Stations 1 and 5 are the wing-glove stations. They may each carry: (a) one Kh-22M/MA (AS-4 Kitchen) ASM/NAM, (b) nine FAB-250 BBs on a MR, (c) six FAB-500 BBs on a MR, (d) one FAB-1500 BB, or (e) one FAB-3000 BB.														
2. This is a variable-geometry aircraft with allowed geometries of forward, mid, and aft. The geometry may be changed at the end of the aircraft's move if the maximum turn rate used is TT or less. The data shown here are for the forward geometry.	2. Stations 2 and 4 are the fuselage external stations. They may carry the same bomb loads as stations 1 and 5.														
3. DDS capacity is 100 decoys.	3. Station 3 is the internal bay. It may carry: (a) one Kh-22M/AM (AS-4 Kitchen) ASM/NAM, (b) thirty-three FAB-250 BBs, (c) eighteen FAB-500 BBs, (d) six FAB-1500 BBs, or (e) naval mines.														
4. Tail Radar. Equipped with a Argon-2 tail radar with ECCM 1, arc 60–, search 30–7, track 12–7, and lock-on 7–.	4. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 2000 fuel points (40 load points).														
5. Articulated Guns. The guns can only fire at locked-on targets in the 30– arc. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size.															
	<b>VPs:</b> 46/31/15/8										v1.0000000 0000-00-00T00:00:00				

<b>Tu-22M2</b>					<b>Crew:</b> Pilot, Copilot, Navigator, and Communications Officer											
					<b>Maneuver HFPs/DPs:</b>											
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —											
CL 1/2 DT Fuel					VR —											
AB	2.5	2.0	1.0	24.0												
M	1.5	1.0	0.5	11.0												
N	0.0	0.0	0.0	5.0												
I	0.5	0.5	1.0	0.0												
SPBR	0.5	1.0	1.0	—												
					Cruise Speed: 5.5 Restr. Arcs: -											
					Climb Speed: 4.0 Blind Arcs: 60-											
					Visibility: 11 Internal Fuel: 5900											
					Size: -2 AtA Refuel: Yes											
					Vulnerability: +1 Ejection Seat: Early											
					No rolling maneuvers allowed.											
<b>Speeds and Ceilings</b>																
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band							
EH+	46+	—	—	—	—	— —	— —	— —	EH+							
VH	36–45	3.0 – 6.0	3.0 – 6.0	—	6.0	0.50 0.25	0.50 0.00	— —	VH							
HI	26–35	2.5 – 6.0	3.0 – 6.0	3.0 – 6.0	6.5	1.00 0.50	1.00 0.25	0.50 0.25	HI							
MH	17–25	2.5 – 6.0	2.5 – 6.0	3.0 – 6.0	6.5	2.00 1.00	1.00 0.50	0.50 0.25	MH							
ML	8–16	2.0 – 6.0	2.5 – 6.0	2.5 – 6.0	7.0	2.50 1.00	1.50 0.50	1.00 0.25	ML							
LO	0–7	2.0 – 6.0	2.0 – 6.0	2.5 – 6.0	7.0	3.00 1.50	2.00 1.00	1.00 0.50	LO							
<b>Radar:</b> PN-A			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>											
ECCM:	2		RWR:	B												
Arcs:	180+		DDS:	B												
Search:	Gr. Nav. (300)		DJM:	—												
Track:	Gr. Attack (180)		AJM:	B3												
Lock-On:	7		BJM:	B4												
<b>Guns:</b> Two 23 mm GSh-23			<b>Technology:</b>		<b>Load Point Limits:</b>											
To Hit:	5/3/1		None		CL : 0–40											
Ammunition:	4.0				1/2: 41–58											
Gunsight:	—				<b>Weight Limit:</b> 47,000											
Ranging:	—				DT : 59+											
AtA/AtG:	5/-															
<b>Bomb System:</b> Ballistic					<b>Station</b> Limit Allowed Loads											
					1 and 5 12,000 BB ASM NAM MR											
					2 and 4 6,800 BB MR											
					3 19,000 BB ASM NAM											
<b>Load Notes:</b>																
1. Stations 1 and 5 are the wing-glove stations. They may each carry: (a) one Kh-22M/MA (AS-4 Kitchen) ASM/NAM, (b) nine FAB-250 BBs on a MR, (c) six FAB-500 BBs on a MR, (d) one FAB-1500 BB, or (e) one FAB-3000 BB.																
2. Stations 2 and 4 are the fuselage external stations. They may carry the same bomb loads as stations 1 and 5.																
3. Station 3 is the internal bay. It may carry: (a) one Kh-22M/AM (AS-4 Kitchen) ASM/NAM, (b) thirty-three FAB-250 BBs, (c) eighteen FAB-500 BBs, (d) six FAB-1500 BBs, or (e) naval mines.																
4. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 2000 fuel points (40 load points).																
<b>VPs:</b> 46/31/15/8							v1.0000000 0000-00-00T00:00:00									

<b>Tu-22M2</b>					<b>Crew:</b> Pilot, Copilot, Navigator, and Communications Officer											
					<b>Maneuver HFPs/DPs:</b>											
<b>Power APs/DPs/FPs:</b> ○○					LR/DR — —											
CL 1/2 DT Fuel					VR —											
AB	2.5	2.0	1.0	24.0												
M	1.5	1.0	0.5	11.0												
N	0.0	0.0	0.0	5.0												
I	0.5	0.5	1.0	0.0												
SPBR	0.5	1.0	1.0	—												
					Cruise Speed: 5.5 Restr. Arcs: -											
					Climb Speed: 4.0 Blind Arcs: 60-											
					Visibility: 11 Internal Fuel: 5900											
					Size: -2 AtA Refuel: Yes											
					Vulnerability: +1 Ejection Seat: Early											
					No rolling maneuvers allowed.											
<b>Speeds and Ceilings</b>																
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band							
EH+	46+	—	—	—	—	— —	— —	— —	EH+							
VH	36–45	3.5 – 11.0	3.5 – 9.5	—	15.0	0.50 0.25	0.50 0.00	— —	VH							
HI	26–35	3.0 – 10.0	3.5 – 9.0	3.5 – 8.0	14.0	1.00 0.50	1.00 0.25	0.50 0.25	HI							
MH	17–25	3.0 – 9.0	2.5 – 8.5	3.5 – 7.5	13.0	2.00 1.00	1.00 0.50	0.50 0.25	MH							
ML	8–16	2.5 – 8.5	3.0 – 8.0	3.0 – 7.0	12.0	2.50 1.00	1.50 0.50	1.00 0.25	ML							
LO	0–7	2.5 – 8.5	2.5 – 8.0	3.0 – 7.0	11.0	3.00 1.50	2.00 1.00	1.00 0.50	LO							
<b>Radar:</b> PN-A			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>											
ECCM:	2		RWR:	B												
Arcs:	180+		DDS:	B												
Search:	Gr. Nav. (300)		DJM:	—												
Track:	Gr. Attack (180)		AJM:	B3												
Lock-On:	7		BJM:	B4												
<b>Guns:</b> Two 23 mm GSh-23			<b>Technology:</b>		<b>Load Point Limits:</b>											
To Hit:	5/3/1		None		CL : 0–40											
Ammunition:	4.0				1/2: 41–58											
Gunsight:	—				<b>Weight Limit:</b> 47,000											
Ranging:	—				DT : 59+											
AtA/AtG:	5/-															
<b>Bomb System:</b> Ballistic					<b>Station</b> Limit Allowed Loads											
					1 and 5 12,000 BB ASM NAM MR											
					2 and 4 6,800 BB MR											
					3 19,000 BB ASM NAM											
<b>Load Notes:</b>																
1. Stations 1 and 5 are the wing-glove stations. They may each carry: (a) one Kh-22M/MA (AS-4 Kitchen) ASM/NAM, (b) nine FAB-250 BBs on a MR, (c) six FAB-500 BBs on a MR, (d) one FAB-1500 BB, or (e) one FAB-3000 BB.																
2. Stations 2 and 4 are the fuselage external stations. They may carry the same bomb loads as stations 1 and 5.																
3. Station 3 is the internal bay. It may carry: (a) one Kh-22M/AM (AS-4 Kitchen) ASM/NAM, (b) thirty-three FAB-250 BBs, (c) eighteen FAB-500 BBs, (d) six FAB-1500 BBs, or (e) naval mines.																
4. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 2000 fuel points (40 load points).																
<b>VPs:</b> 46/31/15/8								v1.0000000 0000-00-00T00:00:00								

## Douglas B-26 and A-26 Invader and Counter-Invader

The Douglas B-26 Invader is a bomber and attack aircraft. It entered service in the USAAF before the end of WWII and saw combat in both the European and Pacific Theaters. It later served with the USAF in the Korean War, during Operation Farm Gate in South Vietnam, and finally flying "Nimrod" interdiction missions over Laos. Many of its missions in Korea, Vietnam, and Laos were flown at night. It was also used by the Armée de l'air in the First Indochina War, the CIA in the Bay of Pigs Invasion, and in small number in many other conflicts in the 1950s and 1960s.

The B-26 was designed with two remote-control turrets, one dorsal and one ventral, similar to the rear turrets of the B-29 and each equipped with two .50 cal M2 machine guns. The turrets were operated by a single gunner, positioned behind the bomb bay, who monitored the sky through large ventral and dorsal windows and aimed both turrets with an periscope sight. The lower turret was removed in many aircraft to give more fuel capacity. In later service, both turrets were removed as defensive guns were not useful for its missions in Vietnam and Laos.

The B-26 also had a number of different noses, with the most common being the solid nose with eight .50 cal M2 machine guns on the B-26B and the gunless glass nose (which allowed the use of a bomb sight) on the B-26C. There was also some variation in guns fitted in the wings.

The B-26K was a rebuilt version, necessary after several earlier aircraft had been lost because of metal fatigue in the main wing spar. It saw combat from 1966 to 1969 with the USAF, flying from Thailand on nighttime interdiction missions in Laos.

The Invader was originally designated A-26. In 1948, it was redesignated B-26, reusing the designation of the earlier B-26 Marauder which by then had left service. In 1966, the B-26K was redesignated A-26A to avoid the perception of a bomber being based in supposedly neutral Thailand.

Typical armament in the Korean War, beyond the guns, was 500 or 1000 lb bombs in the bomb bay and 500 or 1000 lb bombs, 110 gal napalm cans, or HVARs or parachute flares on the wing stations.

Typical armament of Farm Gate B-26s was TODO.

Typical armament of Nimrod B-26Ks was fragmentation and incendiary bombs in the bomb bay, and then a mixture of illumination pods, napalm, LAU-3A rocket pods, and CBUs under the wings.

- B-26C (Two Turrets)
- B-26C (One Turret)
- B-26C (No Turrets)
- B-26K
- A-26A

<b>B-26B Invader (Two Turrets)</b>								<b>Crew:</b> Pilot, Navigator, and Gunner			
<b>Power APs/DPs/FPs:</b> ○○								<b>Maneuver HFPs/DPs:</b>			
CL 1/2 DT Fuel								LR/DR — —			
FT 1.0 1.0 1.0 1.0								VR —			
HT 0.5 0.5 0.5 0.5								<b>Turn DPs:</b>			
N 0.0 0.0 0.0 0.2								CL 1/2 DT			
I 0.5 0.5 0.5 0.0								TT 0.0 0.0 0.5			
SPBR — — — —								HT 1.0 1.0 1.0			
Cruise Speed: 2.5 Restr. Arcs: 30–								BT 2.0 — —			
Climb Speed: 2.0 Blind Arcs: —								ET — — —			
Visibility: 8 Internal Fuel: 580								No rolling maneuvers allowed.			
Size: -1 AtA Refuel: No											
Vulnerability: +1 Ejection Seat: None											

<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL 24	1/2 20	DT 14	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+	
VH	36–45	—	—	—	—	— —	— —	— —	— —	VH	
HI	26–35	—	—	—	—	— —	— —	— —	— —	HI	
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	— 0.50	— 0.25	— —	— —	MH	
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	— 0.50	ML	
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	— 0.50	LO	

<b>Radar:</b> —	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>								
ECCM: —	RWR: —									
Arcs: —	DDS: —									
Search: —	DJM: —									
Track: —	AJM: —									
Lock-On: —	BJM: —									
<b>Guns:</b> Fourteen .50 cal M2	<b>Technology:</b> None	<b>Load Point Limits:</b>								CL : 0–6
To Hit: 4/2/0		1/2: 7–10								
Ammunition: 10.0		<b>Weight Limit:</b> 6,000								DT : 11+
Gunsight: TT+1/HT+2		<b>Station</b> Limit Allowed Loads								
Ranging: —		1 and 5 500 BB								
AtA/AtG: 5/7**		2 and 4 500 BB FT								
<b>Bomb System:</b> Manual		5 4,000 BB								
<b>Notes:</b>		6–9 and 16–19 150 RK								
1. The Douglas B-26B Invader is a attack aircraft. This variant has a solid nose, nose and wing guns, and both dorsal and ventral turrets. Prior to 1948, it was designated A-26B.		10–12 and 13–15 150 RK								
2. Low roll rate (LRR).		<b>Load Notes:</b>								
3. Articulated Guns. In addition to its fixed guns, this variant of the B-26 is equipped with dorsal and ventral turrets each with two .50 cal M2 guns. The turrets can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. As there is only one gunner, they may fire on only one aircraft per game turn. The hit rolls are 2/1/1 and the only modifiers are target size and a -1 modifier when firing into the 60° arc. The AtA damage rating is 2. The ammunition is 18.0.		1. Either stations 1 and 5 or stations 6 to 9 and 16 to 19 can be used.								
		2. Either stations 2 and 4 or stations 10 to 15 can be used.								
		3. Station 5 is the internal bomb bay. Load options are: (a) two 2,000 lb bombs, (b) four 1,000 lb bombs, (c) eight 500 or 250 lb bombs, or (d) sixteen 100 lb bombs. Any bombs carried must be low-drag.								
<b>VPs:</b> 12/8/4/2								v1.0000000	0000-00-00T00:00:00	

<b>B-26B Invader</b> <i>(One Turret)</i>								<b>Crew:</b> Pilot, Navigator, and Gunner		
								<b>Maneuver HFPs/DPs:</b>		
								LR/DR	—	—
								VR	—	—
<b>Power APs/DPs/FPs:</b> ☺								<b>Turn DPs:</b>		
CL      1/2      DT      Fuel								CL	1/2	DT
FT	1.0	1.0	1.0	1.0				TT	0.0	0.0
HT	0.5	0.5	0.5	0.5				HT	1.0	1.0
N	0.0	0.0	0.0	0.2				BT	2.0	—
I	0.5	0.5	0.5	0.0				ET	—	—
SPBR	—	—	—	—	Cruise Speed: 2.5    Restr. Arcs: 30–					
If speed ≥ 3.0, reduce power by 0.5.					Climb Speed: 2.0    Blind Arcs: —					
					Visibility: 8    Internal Fuel: 620					
					Size: -1    AtA Refuel: No					
					Vulnerability: +1    Ejection Seat: None			No rolling maneuvers allowed.		

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	24	20	14		AB	AB	AB	Band		
EH+	46+	—	—	—	—	—	—	—	EH+		
VH	36–45	—	—	—	—	—	—	—	VH		
HI	26–35	—	—	—	—	—	—	—	HI		
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	—	0.50	—	0.25	—	MH
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	—	0.50	—	0.50	—	0.25
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	—	0.50	—	0.50	—	0.50

<b>B-26B Invader (No Turrets)</b>								<b>Crew:</b> Pilot, Navigator, and Observer													
<b>Power APs/DPs/FPs:</b> ○○								<b>Maneuver HFPs/DPs:</b>													
CL 1/2 DT Fuel								LR/DR — —													
FT 1.0 1.0 1.0 1.0								VR —													
HT 0.5 0.5 0.5 0.5								<b>Turn DPs:</b>													
N 0.0 0.0 0.0 0.2								CL 1/2 DT													
I 0.5 0.5 0.5 0.0								TT 0.0 0.0 0.5													
SPBR — — — —								HT 1.0 1.0 1.0													
Cruise Speed: 2.5 Restr. Arcs: 30–								BT 2.0 — —													
Climb Speed: 2.0 Blind Arcs: —								ET — — —													
Visibility: 8 Internal Fuel: 620								No rolling maneuvers allowed.													
Size: -1 AtA Refuel: No																					
Vulnerability: +1 Ejection Seat: None																					
<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>															
Alt. Band	Conf. Ceil.	CL 24	1/2 20	DT 14	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band												
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+											
VH	36–45	—	—	—	—	— —	— —	— —	— —	VH											
HI	26–35	—	—	—	—	— —	— —	— —	— —	HI											
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	— 0.50	— 0.25	— —	— —	MH											
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	— 0.50	ML											
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	— 0.50	LO											
<b>Radar:</b> —		<b>ECM:</b> IFF		<b>Weapon Stations Diagram:</b>																	
ECCM: —		RWR: —																			
Arcs: —		DDS: —																			
Search: —		DJM: —																			
Track: —		AJM: —																			
Lock-On: —		BJM: —																			
<b>Guns:</b> Fourteen .50 cal M2		<b>Technology:</b>		<b>Load Point Limits:</b>																	
To Hit: 4/2/0		None		CL : 0–6																	
Ammunition: 10.0				1/2: 7–10																	
Gunsight: TT+1/HT+2				<b>Weight Limit:</b> 6,000																	
Ranging: —				DT : 11+																	
AtA/AtG: 5/7**				<b>Station</b> Limit Allowed Loads																	
<b>Bomb System:</b> Manual				1 and 5 500 BB																	
				2 and 4 500 BB FT																	
				5 4,000 BB																	
				6–9 and 16–19 150 RK																	
				10–12 and 13–15 150 RK																	
<b>Notes:</b>																					
1. The Douglas B-26B Invader is a propeller-driven attack aircraft. This variant has a solid nose, nose and wing guns, and no turrets. In place of the ventral turret, it has an extra fuel tank. Prior to 1948, it was designated A-26B.																					
2. Low roll rate (LRR).																					
3. Articulated Guns. In addition to its fixed guns, this variant of the B-26 is equipped with a dorsal turret with two .50 cal M2 guns. The turret can fire in any direction at targets that are at the same altitude or higher. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. As there is only one gunner, it may fire on only one aircraft per game turn. The hit rolls are 2/1/1 and the only modifiers are target size and a -1 modifier when firing into the 60° arc. The AtA damage rating is 2. The ammunition is 18.0.																					
<b>Load Notes:</b>																					
1. Either stations 1 and 5 or stations 6 to 9 and 16 to 19 can be used.																					
2. Either stations 2 and 4 or stations 10 to 15 can be used.																					
3. Station 5 is the internal bomb bay. Load options are: (a) two 2,000 lb bombs, (b) four 1,000 lb bombs, (c) eight 500 or 250 lb bombs, or (d) sixteen 100 lb bombs. Any bombs carried must be low-drag.																					
<b>VPs:</b> 12/8/4/2								v1.0000000 0000-00-00T00:00:00													

<b>B-26C Invader (Two Turrets)</b>								<b>Crew:</b> Pilot, Navigator, and Gunner													
<b>Power APs/DPs/FPs:</b> ○○								<b>Maneuver HFPs/DPs:</b>													
CL 1/2 DT Fuel								LR/DR — —													
FT 1.0 1.0 1.0 1.0								VR —													
HT 0.5 0.5 0.5 0.5								<b>Turn DPs:</b>													
N 0.0 0.0 0.0 0.2								CL 1/2 DT													
I 0.5 0.5 0.5 0.0								TT 0.0 0.0 0.5													
SPBR — — — —								HT 1.0 1.0 1.0													
If speed ≥ 3.0, reduce power by 0.5.								BT 2.0 — —													
								ET — — —													
								No rolling maneuvers allowed.													
<b>Speeds and Ceilings</b>								<b>Climb Capabilities</b>													
Alt. Band	Conf. Ceil.	CL 24	1/2 20	DT 14	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band												
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+											
VH	36–45	—	—	—	—	— —	— —	— —	— —	VH											
HI	26–35	—	—	—	—	— —	— —	— —	— —	HI											
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	— 0.50	— 0.25	— —	— —	MH											
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	— 0.50	ML											
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	— 0.50	LO											
<b>Radar:</b> —		<b>ECM:</b> IFF		<b>Weapon Stations Diagram:</b>																	
ECCM: —		RWR: —																			
Arcs: —		DDS: —																			
Search: —		DJM: —																			
Track: —		AJM: —																			
Lock-On: —		BJM: —																			
<b>Guns:</b> Six .50 cal M2				<b>Technology:</b>				<b>Load Point Limits:</b>													
To Hit: 4/2/0				None				CL : 0–6													
Ammunition: 10.0								1/2: 7–10													
Gunsight: TT+1/HT+2								<b>Weight Limit:</b> 6,000													
Ranging: —								DT : 11+													
AtA/AtG: 3/3**								<b>Station</b>													
								<b>Limit</b>													
								<b>Allowed Loads</b>													
								1 and 5 500 BB													
								2 and 4 500 BB FT													
								5 4,000 BB													
								6–9 and 16–19 150 RK													
								10–12 and 13–15 150 RK													
<b>Notes:</b>																					
1. The Douglas B-26C Invader is a propeller-driven attack aircraft. This variant has a glazed nose, wing guns, and both dorsal and ventral turrets. Prior to 1948, it was designated A-26C.																					
2. Low roll rate (LRR).																					
3. Articulated Guns. In addition to its fixed guns, this variant of the B-26 is equipped with dorsal and ventral turrets each with two .50 cal M2 guns. The turrets can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. As there is only one gunner, they may fire on only one aircraft per game turn. The hit rolls are 2/1/1 and the only modifiers are target size and a -1 modifier when firing into the 60° arc. The AtA damage rating is 2. The ammunition is 18.0.																					
4. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.																					
<b>VPs:</b> 12/8/4/2								v1.0000000 0000-00-00T00:00:00													

<b>B-26C Invader (One Turret)</b>					<b>Crew:</b> Pilot, Navigator, and Gunner
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR — —
FT 1.0 1.0 1.0 1.0					VR —
HT 0.5 0.5 0.5 0.5					
N 0.0 0.0 0.0 0.2					
I 0.5 0.5 0.5 0.0					
SPBR — — — —					
If speed ≥ 3.0, reduce power by 0.5.					No rolling maneuvers allowed.
Cruise Speed: 2.5 Restr. Arcs: 30–					
Climb Speed: 2.0 Blind Arcs: —					
Visibility: 8 Internal Fuel: 620					
Size: -1 AtA Refuel: No					
Vulnerability: +1 Ejection Seat: None					

Speeds and Ceilings						Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 24	1/2 20	DT 14	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+	
VH	36–45	—	—	—	—	— —	— —	— —	— —	VH	
HI	26–35	—	—	—	—	— —	— —	— —	— —	HI	
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	— 0.50	— 0.25	—	—	MH	
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	—	ML	
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	—	LO	

<b>Radar:</b> —	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: —	RWR: —	
Arcs: —	DDS: —	
Search: —	DJM: —	
Track: —	AJM: —	
Lock-On: —	BJM: —	
<b>Guns:</b> Six .50 cal M2	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–6 1/2: 7–10
To Hit: 4/2/0	None	<b>Weight Limit:</b> 6,000 DT : 11+
Ammunition: 10.0		<b>Station</b> Limit Allowed Loads
Gunsight: TT+1/HT+2		1 and 5 500 BB
Ranging: —		2 and 4 500 BB FT
AtA/AtG: 3/3**		5 4,000 BB
<b>Bomb System:</b> Manual		6–9 and 16–19 150 RK
		10–12 and 13–15 150 RK
<b>Notes:</b>		<b>Load Notes:</b>
1. The Douglas B-26C Invader is a propeller-driven attack aircraft. This variant has a glazed nose, wing guns, and only the dorsal turret. In place of the ventral turret, it has an extra fuel tank. Prior to 1948, it was designated A-26C. 2. Low roll rate (LRR). 3. Articulated Guns. In addition to its fixed guns, this variant of the B-26 is equipped with a dorsal turret with two .50 cal M2 guns. The turret can fire in any direction at targets that are at the same altitude or higher. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. As there is only one gunner, it may fire on only one aircraft per game turn. The hit rolls are 2/1/1 and the only modifiers are target size and a -1 modifier when firing into the 60° arc. The AtA damage rating is 2. The ammunition is 18.0. 4. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.	1. Either stations 1 and 5 or stations 6 to 9 and 16 to 19 can be used. 2. Either stations 2 and 4 or stations 10 to 15 can be used. 3. Station 5 is the internal bomb bay. Load options are: (a) two 2,000 lb bombs, (b) four 1,000 lb bombs, (c) eight 500 or 250 lb bombs, or (d) sixteen 100 lb bombs. Any bombs carried must be low-drag.	
		<b>VPs:</b> 12/8/4/2 v1.0000000 0000-00-T00:00:00

<b>B-26C Invader (No Turrets)</b>								<b>Crew:</b> Pilot, Navigator, and Observer			
<b>Power APs/DPs/FPs:</b> ○○								<b>Maneuver HFPs/DPs:</b>			
CL 1/2 DT Fuel								LR/DR — —			
FT 1.0 1.0 1.0 1.0								VR —			
HT 0.5 0.5 0.5 0.5								<b>Turn DPs:</b>			
N 0.0 0.0 0.0 0.2								CL 1/2 DT			
I 0.5 0.5 0.5 0.0								TT 0.0 0.0 0.5			
SPBR — — — —								HT 1.0 1.0 1.0			
Cruise Speed: 2.5 Restr. Arcs: 30–								BT 2.0 — —			
Climb Speed: 2.0 Blind Arcs: —								ET — — —			
Visibility: 8 Internal Fuel: 620								No rolling maneuvers allowed.			
Size: -1 AtA Refuel: No											
Vulnerability: +1 Ejection Seat: None											

<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL 24	1/2 20	DT 14	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+	
VH	36–45	—	—	—	—	— —	— —	— —	— —	VH	
HI	26–35	—	—	—	—	— —	— —	— —	— —	HI	
MH	17–25	1.5 – 3.0	2.0 – 3.0	—	4.5	— 0.50	— 0.25	— —	— —	MH	
ML	8–16	1.5 – 3.5	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	— 0.50	ML	
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	— 0.50	LO	

<b>Radar:</b> —	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>																			
ECCM: —	RWR: —																				
Arcs: —	DDS: —																				
Search: —	DJM: —																				
Track: —	AJM: —																				
Lock-On: —	BJM: —																				
<b>Guns:</b> Six .50 cal M2	<b>Technology:</b> None	<b>Load Point Limits:</b>								CL : 0–6											
To Hit: 4/2/0		1/2: 7–10																			
Ammunition: 10.0		<b>Weight Limit:</b> 6,000								DT : 11+											
Gunsight: TT+1/HT+2		<b>Station</b> Limit Allowed Loads																			
Ranging: —		1 and 5 500 BB																			
AtA/AtG: 3/3**		2 and 4 500 BB FT																			
<b>Bomb System:</b> Manual		5 4,000 BB																			
<b>Notes:</b>																					
1. The Douglas B-26C Invader is a propeller-driven attack aircraft. This variant has a glazed nose, wing guns, and no turrets. In place of the ventral turret, it has an extra fuel tank. Prior to 1948, it was designated A-26C.																					
2. Low roll rate (LRR).																					
3. Articulated Guns. In addition to its fixed guns, this variant of the B-26 is equipped with a dorsal turret with two .50 cal M2 guns. The turret can fire in any direction at targets that are at the same altitude or higher. These guns may return fire twice per game turn in response to gun attacks or conduct one attack. As there is only one gunner, it may fire on only one aircraft per game turn. The hit rolls are 2/1/1 and the only modifiers are target size and a -1 modifier when firing into the 60° arc. The AtA damage rating is 2. The ammunition is 18.0.																					
4. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.																					
<b>Load Notes:</b>																					
1. Either stations 1 and 5 or stations 6 to 9 and 16 to 19 can be used.																					
2. Either stations 2 and 4 or stations 10 to 15 can be used.																					
3. Station 5 is the internal bomb bay. Load options are: (a) two 2,000 lb bombs, (b) four 1,000 lb bombs, (c) eight 500 or 250 lb bombs, or (d) sixteen 100 lb bombs. Any bombs carried must be low-drag.																					
<b>VPs:</b> 12/8/4/2								v1.0000000 0000-00-00T00:00:00													

<b>B-26K Counter-Invader</b>					Crew: Pilot, Navigator, and Observer																																
					<b>Maneuver HFPs/DPs:</b>																																
<b>Power APs/DPs/FPs:</b> ○○ <table> <tr><td>CL</td><td>1/2</td><td>DT</td><td>Fuel</td><td></td></tr> <tr><td>FT</td><td>1.5</td><td>1.0</td><td>1.0</td><td>1.0</td></tr> <tr><td>HT</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.5</td></tr> <tr><td>N</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.2</td></tr> <tr><td>I</td><td>0.5</td><td>0.5</td><td>0.5</td><td>0.0</td></tr> <tr><td>SPBR</td><td>—</td><td>—</td><td>—</td><td>—</td></tr> </table>					CL	1/2	DT	Fuel		FT	1.5	1.0	1.0	1.0	HT	0.5	0.5	0.5	0.5	N	0.0	0.0	0.0	0.2	I	0.5	0.5	0.5	0.0	SPBR	—	—	—	—	LR/DR	—	—
CL	1/2	DT	Fuel																																		
FT	1.5	1.0	1.0	1.0																																	
HT	0.5	0.5	0.5	0.5																																	
N	0.0	0.0	0.0	0.2																																	
I	0.5	0.5	0.5	0.0																																	
SPBR	—	—	—	—																																	
Cruise Speed: 2.5 Restr. Arcs: 30– Climb Speed: 2.0 Blind Arcs: 30L Visibility: 8 Internal Fuel: 720 Size: -1 AtA Refuel: No Vulnerability: +1 Ejection Seat: None					VR	<b>Turn DPs:</b>																															
						CL	1/2	DT																													
						TT	0.0	0.0	0.5																												
						HT	1.0	1.0	1.0																												
						BT	2.0	—	—																												
						ET	—	—	—																												
					No rolling maneuvers allowed.																																
<b>Speeds and Ceilings</b>										<b>Climb Capabilities</b>																											
Alt. Band	Conf. Ceil.	CL 30	1/2 24	DT 17	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band																												
EH+	46+	—	—	—	—	— —	— —	— —	EH+																												
VH	36–45	—	—	—	—	— —	— —	— —	VH																												
HI	26–35	2.0 – 3.0	—	—	5.0	— 0.25	— —	— —	HI																												
MH	17–25	1.5 – 3.0	2.0 – 3.0	2.0 – 3.0	4.5	— 0.50	— 0.50	— 0.50	MH																												
ML	8–16	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	ML																												
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	LO																												
<b>Radar:</b> —		<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>																																		
ECCM: —		RWR: —																																			
Arcs: —		DDS: —																																			
Search: —		DJM: —																																			
Track: —		AJM: —																																			
Lock-On: —		BJM: —																																			
<b>Guns:</b> Eight .50 cal M2		<b>Technology:</b> None		<b>Load Point Limits:</b>		CL : 0–6 1/2: 7–13																															
To Hit:	4/2/0			<b>Weight Limit:</b> 8,000		DT : 14+																															
Ammunition:	10.0			<b>Station</b>		<b>Limit</b>	<b>Allowed Loads</b>																														
Gunsight:	TT+1/HT+2			1–2 and 8–9		750	BB RP GP																														
Ranging:	—			3–4 and 6–7		750	BB RP GP FT																														
AtA/AtG:	4/4**			5		4,000	BB																														
<b>Bomb System:</b> Manual ballistic		<b>Load Notes:</b>																																			
<b>Notes:</b>		1. The Douglas B-26K Counter-Invader is a propeller-driven attack aircraft. It is an upgrade of the B-26B/TB-26B/B-26C by On Mark Engineering, with strengthened wings, wing-tip fuel tanks, a solid nose, and nose guns, but without wing guns. It was subsequently redesignated A-26A. 2. Low roll rate (LRR). 3. When the internal fuel is more than 620 fuel points, the fixed wing-tip tanks are in use and the vulnerability is +0. 4. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.		1. Each wing can carry a maximum load of 2,000 lb. 2. Station 5 is the internal bomb bay. Load options are: (a) two 2,000 lb bombs, (b) four 1,000 lb bombs, (c) eight 500 or 250 lb bombs, or (d) sixteen 100 lb bombs. Any bombs carried must be low-drag.																																	
<b>VPs:</b> 14/9/5/2							v1.0000000 0000-00-00T00:00:00																														

<b>A-26A Counter-Invader</b>										<b>Crew:</b> Pilot, Navigator, and Observer	
<b>Power APs/DPs/FPs:</b> ○○										<b>Maneuver HFPs/DPs:</b>	
CL 1/2 DT Fuel										LR/DR	— —
FT 1.5 1.0 1.0 1.0										VR	—
HT 0.5 0.5 0.5 0.5										<b>Turn DPs:</b>	
N 0.0 0.0 0.0 0.2										CL	1/2 DT
I 0.5 0.5 0.5 0.0										TT	0.0 0.0 0.5
SPBR — — — —										HT	1.0 1.0 1.0
Cruise Speed: 2.5 Restr. Arcs: 30–										BT	2.0 — —
Climb Speed: 2.0 Blind Arcs: 30L										ET	— — —
Visibility: 8 Internal Fuel: 720										No rolling maneuvers allowed.	
Size: -1 AtA Refuel: No											
Vulnerability: +1 Ejection Seat: None											

<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>						
Alt. Band	Conf. Ceil.	CL 30	1/2 24	DT 17	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	—	EH+	
VH	36–45	—	—	—	—	— —	— —	— —	—	VH	
HI	26–35	2.0 – 3.0	—	—	5.0	— 0.25	— —	— —	—	HI	
MH	17–25	1.5 – 3.0	2.0 – 3.0	2.0 – 3.0	4.5	— 0.50	— 0.50	— 0.50	—	MH	
ML	8–16	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	—	ML	
LO	0–7	1.5 – 3.0	1.5 – 3.0	2.0 – 3.0	4.0	— 0.50	— 0.50	— 0.50	—	LO	

<b>Radar:</b> —	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>													
ECCM: —	RWR: —														
Arcs: —	DDS: —														
Search: —	DJM: —														
Track: —	AJM: —														
Lock-On: —	BJM: —														
<b>Guns:</b> Eight .50 cal M2	<b>Technology:</b> None	<b>Load Point Limits:</b>									CL : 0–6				
To Hit: 4/2/0		1/2: 7–13													
Ammunition: 10.0		<b>Weight Limit:</b> 8,000									DT : 14+				
Gunsight: TT+1/HT+2		<b>Station</b> Limit Allowed Loads													
Ranging: —		1–2 and 8–9	750	BB RP GP											
AtA/AtG: 4/4**		3–4 and 6–7	750	BB RP GP FT											
<b>Bomb System:</b> Manual ballistic		5	4,000	BB											
<b>Notes:</b>		<b>Load Notes:</b>													
1. The Douglas B-26K Counter-Invader is a propeller-driven attack aircraft. It is an upgrade of the B-26B/TB-26B/B-26C by On Mark Engineering, with strengthened wings, wing-tip fuel tanks, a solid nose, and nose guns, but without wing guns. It was previously designated B-26K.	1. Each wing can carry a maximum load of 2,000 lb.														
2. Low roll rate (LRR).	2. Station 5 is the internal bomb bay. Load options are: (a) two 2,000 lb bombs, (b) four 1,000 lb bombs, (c) eight 500 or 250 lb bombs, or (d) sixteen 100 lb bombs. Any bombs carried must be low-drag.														
3. When the internal fuel is more than 620 fuel points, the fixed wing-tip tanks are in use and the vulnerability is +0.															
4. Bomb system is ballistic (-1) if doing level bombing from four or more altitude levels above the target.															
<b>VPs:</b> 14/9/5/2										v1.0000000 0000-00-00T00:00:00					

## **Boeing B-29 Superfortress**

The Boeing B-29 Superfortress is a strategic bomber. It entered service in the USAAF before the end of WWII and saw combat in the Pacific Theaters. It later served with the USAF in the Korean War.

The defensive armament of the B-29 is four remote-control turrets, two dorsal and two ventral, each equipped with two .50 cal M2 machine guns and a tail station with two .50 cal M2 machine guns and one 20 mm M2 cannon. Later models have four .50 cals in the forward dorsal turret. The ballistic characteristics of the 20 mm were not well-matched to the .50 cals, and it was later removed or replaced by a third .50 cal. Each gun has 500 rounds of ammunition.

The RB-29A is a strategic photo-reconnaissance version of the B-29A. It retains full defensive and offensive armament.

The Silverplate and Saddletree versions are adapted for delivery of nuclear bombs. The Silverplate program began during WWII — Silverplate aircraft dropped nuclear bombs on Hiroshima and Nagasaki — but was superseded by the similar Saddletree program in 1947. These aircraft were converted by removing the four turrets and their associated fire-control system and all armor removed and installing equipment for nuclear weapons and additional fuel tanks. The Saddletree aircraft are also equipped for air-to-air refueling.

A typical bomb load for the conventional variant during the Korean War was twenty 500 lb M64 or 1,000 lb M65 bombs. Occasionally, 2,000 lb M66 and 4,000 lb M56 bombs were used.

The Silverplate and Saddletree variants could carry a single Mark 3, 4, or 6 nuclear bomb.

ADCs are provided for:

- B-29A
- RB-29A
- B-29A (Silverplate)
- B-29A (Saddletree)

### **See Also**

- Tupolev Tu-4
- Boeing B-50 Superfortress

<b>B-29A Superfortress</b>					Crew: Pilot, Co-pilot, Bombardier, Flight Engineer, Navigator, Radio Operator, Radar Observer, Right Gunner, Left Gunner, Fire Control Officer, and Tail Gunner											
					<b>Maneuver HFPs/DPs:</b>											
<b>Power APs/DPs/FPs:</b> ○○○○					LR/DR — —											
CL 1/2 DT Fuel					VR —											
FT	0.5	0.5	0.5	2.0												
HT	0.2	0.2	0.2	1.0												
N	0.0	0.0	0.0	0.4												
I	0.5	0.5	0.5	0.0												
SPBR	—	—	—	—												
If speed ≥ 3.0, reduce power by 0.2.																
Cruise Speed: 2.0 Restr. Arcs: —																
Climb Speed: 2.0 Blind Arcs: —																
Visibility: 10 Internal Fuel: 2900																
Size: -2 AtA Refuel: No																
Vulnerability: +2 Ejection Seat: None					No rolling maneuvers allowed.											
<b>Speeds and Ceilings</b>																
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band							
EH+	46+	—	—	—	—	— —	— —	— —	EH+							
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	VH							
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	HI							
MH	17–25	1.0 – 3.5	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	MH							
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	ML							
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.25	— 0.25	LO							
<b>Radar:</b> APQ-13			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>											
ECCM:	0		RWR:	A												
Arcs:	0+		DDS:	—												
Search:	Gr. Nav. (120)		DJM:	—												
Track:	Gr. Attack (60)		AJM:	—												
Lock-On:	6		BJM:	A2												
<b>Guns:</b> Thirteen .50 cal M2			<b>Technology:</b>		<b>Load Point Limits:</b>											
To Hit:	2/1/1		None		CL : 0–11											
Ammunition:	18.0				1/2: 12–23											
Gunsight:	—				<b>Weight Limit:</b> 20,000											
Ranging:	—				DT : 24+											
AtA/AtG:	2/2**				<b>Station</b> Limit Allowed Loads											
<b>Bomb System:</b>	Manual				1 and 2 10,000 BB FT											
<b>Notes:</b>																
1. The Boeing B-29A is a propeller-driven strategic bomber. The base variant described here is a conventional bomber. 2. Low roll rate (LRR). 3. Flight Restrictions. VD, VC, and unloading are forbidden. 4. Articulated Guns. The guns can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size and a -1 modifier when firing into the 60° arc.																
<b>Load Notes:</b>																
1. Stations 1 and 2 are the forward and rear internal bomb bays. Each can carry up to (a) two 4,000-lb M56 bombs, (b) four 2,000-lb M66 bombs, (c) six 1,000-lb M65 bombs, (d) twenty 500-lb M64 bombs, or (e) two special 640 gal (2400L) FTs. All bombs must be the same type. 2. As an exception to the normal rules for load points, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 750 fuel points (15 load points).																
<b>VPs:</b> 24/16/8/4								v1.0000000 0000-00-00T00:00:00								

<b>B-29A Superfortress (Silverplate)</b>								Crew: Pilot, Copilot, Flight Engineer, Navigator, Bombardier, Weaponer, Radio Operator, Radar Operator, Countermeasures Operator, and Tail Gunner													
<b>Power APs/DPs/FPs:</b> ○○○○								<b>Maneuver HFPs/DPs:</b>													
CL 1/2 DT Fuel								LR/DR — —													
FT 0.5 0.5 0.5 2.0								VR —													
HT 0.2 0.2 0.2 1.0								<b>Turn DPs:</b>													
N 0.0 0.0 0.0 0.4				Cruise Speed: 2.0 Restr. Arcs: —				CL 1/2 DT													
I 0.5 0.5 0.5 0.0				Climb Speed: 2.0 Blind Arcs: —				TT 1.0 — —													
SPBR — — — —				Visibility: 10 Internal Fuel: 2900				HT — — —													
If speed ≥ 3.0, reduce power by 0.2.				Size: -2 AtA Refuel: No				BT — — —													
				Vulnerability: +1 Ejection Seat: None				ET — — —													
				No rolling maneuvers allowed.																	
<b>Speeds and Ceilings</b>																					
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band												
EH+	46+	—	—	—	—	— —	— —	— —	—	—	EH+										
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	—	—	VH										
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	—	—	HI										
MH	17–25	1.0 – 3.5	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	—	—	MH										
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	—	—	ML										
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.25	— 0.25	—	—	LO										
<b>Radar:</b> APQ-13				<b>ECM:</b> IFF				<b>Weapon Stations Diagram:</b>													
ECCM:	0	RWR:	A	DDS:	—																
Arcs:	0+	DJM:	—	AJM:	—																
Search:	Gr. Nav. (120)	BJM:	A2																		
Track:	Gr. Attack (60)																				
Lock-On:	6																				
<b>Guns:</b> Three .50 cal M2				<b>Technology:</b>				<b>Load Point Limits:</b>													
To Hit:	3/2/2	None									CL : 0–17										
Ammunition:	18.0									1/2: 18–29											
Gunsight:	—																				
Ranging:	—																				
AtA/AtG:	2/2**																				
<b>Bomb System:</b> Manual																					
<b>Notes:</b>																					
1. The Boeing B-29A is a propeller-driven strategic nuclear bomber. This variant is a conversion of the conventional base variant under the 1943 to 1947 Silverplate program, with provision for nuclear weapons, all armor and turrets removed, and additional fuel tanks.																					
2. Low roll rate (LRR).																					
3. Flight Restrictions. VD, VC, and unloading are forbidden.																					
4. Articulated Guns. The guns can only fire at targets in the 60° arc. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size.																					
<b>VPs:</b> 24/16/8/4								v1.0000000 0000-00-00T00:00:00													

<b>B-29A Superfortress (Saddletree)</b>					Crew: Pilot, Copilot, Flight Engineer, Navigator, Bombardier, Weaponer, Radio Operator, Radar Operator, Countermeasures Operator, and Tail Gunner								
					<b>Maneuver HFPs/DPs:</b>								
<b>Power APs/DPs/FPs:</b> ○○○○					LR/DR — —								
CL 1/2 DT Fuel					VR —								
FT	0.5	0.5	0.5	2.0	<b>Turn DPs:</b>								
HT	0.2	0.2	0.2	1.0	CL 1/2 DT								
N	0.0	0.0	0.0	0.4	TT	1.0	—	—	—				
I	0.5	0.5	0.5	0.0	HT	—	—	—	—				
SPBR	—	—	—	—	BT	—	—	—	—				
If speed ≥ 3.0, reduce power by 0.2.					ET	—	—	—	—				
Cruise Speed: 2.0 Restr. Arcs: —					No rolling maneuvers allowed.								
Climb Speed: 2.0 Blind Arcs: —													
Visibility: 10 Internal Fuel: 2900													
Size: -2 AtA Refuel: Yes													
Vulnerability: +1 Ejection Seat: None													
<b>Speeds and Ceilings</b>													
Alt. Band	Conf. Ceil.	CL 40	1/2 37	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band				
EH+	46+	—	—	—	—	— —	— —	— —	EH+				
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	VH				
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	HI				
MH	17–25	1.0 – 3.5	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	MH				
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.25	— 0.25	ML				
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.25	— 0.25	LO				
<b>Radar:</b> APQ-13			<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>								
ECCM:	0		RWR:	A									
Arcs:	0+		DDS:	—									
Search:	Gr. Nav. (120)		DJM:	—									
Track:	Gr. Attack (60)		AJM:	—									
Lock-On:	6		BJM:	A2									
<b>Guns:</b> Three .50 cal M2			<b>Technology:</b>		<b>Load Point Limits:</b>								
To Hit:	3/2/2		None		CL : 0–17								
Ammunition:	18.0				1/2: 18–29								
Gunsight:	—				<b>Weight Limit:</b> 20,000								
Ranging:	—				DT : 30+								
AtA/AtG:	2/2**				<b>Station</b> Limit Allowed Loads								
<b>Bomb System:</b>	Manual				1	11,000	BB						
<b>Notes:</b>													
1. The Boeing B-29A is a propeller-driven strategic nuclear bomber. This variant is a conversion of the conventional base variant under the 1947 to 1949 Saddletree program, with provision for nuclear weapons, all armor and turrets removed, air-to-air refueling, additional fuel tanks, and winterized electronics.													
2. Low roll rate (LRR).													
3. Flight Restrictions. VD, VC, and unloading are forbidden.													
4. Articulated Guns. The guns can only fire at targets in the 60° arc. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size.													
<b>VPs:</b> 24/16/8/4					v1.0000000 0000-00-00T00:00:00								

<b>RB-29A Superfortress</b>								Crew: Pilot, Co-pilot, Bombardier, Flight Engineer, Navigator, Radio Operator, Radar Observer, Right Gunner, Left Gunner, Fire Control Officer, and Tail Gunner			
								<b>Maneuver HFPs/DPs:</b>			
								LR/DR	—	—	
								VR	—	—	
								<b>Turn DPs:</b>			
								CL	1/2	DT	
								TT	1.0	—	—
								HT	—	—	—
								BT	—	—	—
								ET	—	—	—
								No rolling maneuvers allowed.			

## **Convair B-36 Peacemaker**

An ADC is provided for the:

- B-36D

<b>B-36D Peacemaker</b>								Crew: Commander, Pilot, Pilot, Flight Engineer, Flight Engineer, Navigator, Bombardier, Radio Operator, Radio Operator, Right Gunner, Observer, Gunner, Gunner, Gunner, Gunner, and Gunner																																																																																	
								<b>Maneuver HFPs/DPs:</b>																																																																																	
<table border="1"> <tr> <td>Power APs/DPs/FPs:</td> <td>○○○○</td> <td>○○○○○○</td> <td>CL</td><td>1/2</td> <td>DT</td> <td>Fuel</td> <td>LR/DR</td> <td>—</td> <td>—</td> </tr> <tr> <td>FT</td><td>1.0</td><td>1.0</td><td>0.5</td><td>10.0</td><td></td><td></td> <td>VR</td><td>—</td><td>—</td> </tr> <tr> <td>HT</td><td>0.5</td><td>0.5</td><td>0.5</td><td>4.0</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>N</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.0</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>I</td><td>0.5</td><td>0.5</td><td>1.0</td><td>0.0</td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>SPBR</td><td>—</td><td>—</td><td>—</td><td>—</td><td></td><td></td><td></td><td></td><td></td> </tr> </table>								Power APs/DPs/FPs:	○○○○	○○○○○○	CL	1/2	DT	Fuel	LR/DR	—	—	FT	1.0	1.0	0.5	10.0			VR	—	—	HT	0.5	0.5	0.5	4.0						N	0.0	0.0	0.0	1.0						I	0.5	0.5	1.0	0.0						SPBR	—	—	—	—						<b>Turn DPs:</b>																					
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<b>Radar:</b> APS-23 ECCM: 1 Arcs: 180– Search: Gr. Nav. (200) Track: Gr. Attack (100) Lock-On: 0				<b>ECM:</b> IFF RWR: A DDS: — DJM: — AJM: A3 BJM: —	<b>Weapon Stations Diagram:</b>																																																																																				
<b>Guns:</b> Thirteen .50 cal M2 To Hit: 2/1/1 Ammunition: 18.0 Gunsight: — Ranging: — AtA/AtG: 2/2**				<b>Technology:</b> None	<b>Load Point Limits:</b> CL : 0–40 1/2: 41–70 <b>Weight Limit:</b> 86,000 DT : 71+																																																																																				
<b>Bomb System:</b> Ballistic					<b>Station</b> Limit Allowed Loads 1–4 21,500 BB FT																																																																																				
<b>Notes:</b> <ol style="list-style-type: none"> <li>The Convair B-36D Peacemaker is a propeller-driven strategic nuclear bomber.</li> <li>High transonic drag (HTD).</li> <li>Flight Restrictions. VD, VC, and unloading are forbidden.</li> <li>Articulated Guns. The guns can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size, a -1 modifier when firing into the 60– arc, and possibly a -1 modifier for RE radar ranging with the tail radar.</li> <li>Tail Radar. Equipped with an APG-32 tail radar with ECCM 1, arc 60–, search 30–10, track 15/10, and lock-on 7–.</li> </ol>					<b>Load Notes:</b> <ol style="list-style-type: none"> <li>Stations 1 to 4 are the internal bomb bays. Stations 1 and 2 and stations 3 and 4 may be combined.</li> <li>The load option for an individual bay are: (a) FT with 1075 fuel points, (b) six 3,000 lb bombs, (c) eight 2,000 lb bombs, (d) sixteen 1,000 lb bombs, (e) thirty three 500 lb bombs, or (f) photographic cameras. Any bombs carried must be low-drag.</li> <li>The load options for a combined pair are: (a) one 43,000 lb bomb, (b) two 22,000 lb bombs, (c) four 12,000 lb bombs, or (d) four 10,000 lb bombs.</li> </ol>																																																																																				
<b>VPs:</b> 42/28/14/7								v1.0000000 0000-00-00T00:00:00																																																																																	

## **Boeing B-50 Superfortress**

- B-50A
- B-50A (Saddletree)
- B-50D
- B-50D (Saddletree)

### **See Also**

- Boeing B-29 Superfortress

<b>B-50A Superfortress</b>					Crew: Pilot, Copilot, Bombardier, Navigator, Flight Engineer, Radio Operator, Radar Operator, Countermeasures Operator, Top Gunner, Right Gunner, Left Gunner, and Tail Gunner									
					<b>Maneuver HFPs/DPs:</b>									
<b>Power APs/DPs/FPs:</b> ○○○○					LR/DR — —									
CL 1/2 DT Fuel					VR —									
FT	1.0	1.0	0.5	2.0	<b>Turn DPs:</b>									
HT	0.5	0.5	0.5	1.0	CL 1/2 DT									
N	0.0	0.0	0.0	0.5	TT	1.0	2.0	2.0						
I	0.5	0.5	1.0	0.0	HT	2.0	—	—						
SPBR	—	—	—	—	BT	—	—	—						
Cruise Speed: 2.5 Restr. Arcs: —					ET	—	—	—						
Climb Speed: 2.0 Blind Arcs: —					No rolling maneuvers allowed.									
Visibility: 10 Internal Fuel: 2160														
Size: -2 AtA Refuel: Yes														
Vulnerability: +2 Ejection Seat: None														
<b>Speeds and Ceilings</b>														
Alt. Band	Conf. Ceil.	CL 39	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band					
EH+	46+	—	—	—	—	— —	— —	— —	EH+					
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	VH					
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	HI					
MH	17–25	1.0 – 4.0	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	MH					
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	ML					
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.50	— 0.50	LO					
<b>Radar:</b> APQ-24		<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>											
ECCM:	1	RWR: A												
Arcs:	180+	DDS: —												
Search:	Gr. Nav. (180)	DJM: —												
Track:	Gr. Attack (120)	AJM: —												
Lock-On:	0	BJM: A2												
<b>Guns:</b> Thirteen .50 cal M2		<b>Technology:</b>			<b>Load Point Limits:</b>									
To Hit:	2/1/1	None			CL : 0–15 1/2: 16–31									
Ammunition:	18.0				<b>Weight Limit:</b> 33,000 DT : 32+									
Gunsight:	—				<b>Station</b> Limit Allowed Loads									
Ranging:	—				1 and 4	4,500	BB DR TR WR FT							
AtA/AtG:	2/2**				2 and 3	10,000	BB FT							
<b>Bomb System:</b> Ballistic					<b>Load Notes:</b>									
<b>Notes:</b>					1. Stations 2 and 3 are the forward and rear internal bomb bays. Each can carry up to (a) two 4,000 lb bombs, (b) four 2,000 lb bombs, (c) six 1,000 lb bombs, (d) twenty 500 lb bombs. All bombs must be the same type and low-drag. Station 3 may alternatively carry a special 2200 gal (8300L) FT.									
2. Stations 1 and 4 may each carry a special 700 gal (2600L) FT.					2. As an exception to the normal rules, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 1250 fuel points (25 load points).									
<b>VPs:</b> 28/19/9/5								v1.0000000 0000-00-00T00:00:00						

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	39	36	32		AB	AB	AB	Band		
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	—	0.25	—	0.10	—	VH
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	—	0.50	—	0.25	—	HI
MH	17–25	1.0 – 4.0	1.0 – 3.5	1.0 – 3.5	4.5	—	0.50	—	0.25	—	MH
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	—	0.50	—	0.50	—	ML
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	—	0.50	—	0.50	—	LO

<b>Radar:</b>	APQ-24	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	1	RWR:	A	
Arcs:	180+	DDS:	—	
Search:	Gr. Nav. (180)	DJM:	—	
Track:	Gr. Attack (120)	AJM:	—	
Lock-On:	0	BJM:	A2	
<b>Guns:</b>	Three .50 cal M2	<b>Technology:</b>		<b>Load Point Limits:</b>
To Hit:	3/2/2	None		CL : 0-17
Ammunition:	18.0			1/2: 18-29
Gunsight:	—			
Ranging:	—			
AtA/AtG:	2/2**			<b>Weight Limit:</b> 30,000 DT : 30+
<b>Bomb System:</b>	Ballistic			<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
<b>Notes:</b>				1 and 4      4,500      FT
1.	The B-50A is a propeller-driven strategic bomber. This variant is a nuclear bomber converted from the conventional variant under the 1947 to 1949 Saddletree program, and has provision for nuclear weapons, all armor and turrets removed, air-to-air refueling, additional fuel tanks, and winterized electronics.			2      11,000      NBB
2.	Flight Restrictions. VD, VC, and unloading are forbidden.			3      14,000      FT
3.	Articulated Guns. The guns can only fire at targets in the 60° arc. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size.			<b>Load Notes:</b>
				1. Station 2 is the forward bomb bay. It can carry a Mark 4 (weight 11,000), Mark 5 (weight 3,000), or Mark 6 (weight 8,000) nuclear bomb.
				2. Station 3 is the rear bomb bay. It permanently carries a special 2200 gal (8300L) FT.
				3. Stations 1 and 4 may each carry a special 700 gal (2600L) FT.
				4. As an exception to the normal rules, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 1250 fuel points (25 load points).
				<b>VPs:</b> 28/19/9/5
				v1.0000000 0000-00-00T00:00:00

<b>B-50D Superfortress</b>					Crew: Pilot, Copilot, Bombardier, Navigator, Flight Engineer, Radio Operator, Radar Operator, Countermeasures Operator, Top Gunner, Right Gunner, Left Gunner, and Tail Gunner				
					<b>Maneuver HFPs/DPs:</b>				
<b>Power APs/DPs/FPs:</b> ○○○○					LR/DR — —				
					VR —				
					<b>Turn DPs:</b>				
					CL	1/2	DT		
					TT	1.0	2.0	2.0	
					HT	2.0	—	—	
					BT	—	—	—	
					ET	—	—	—	
					No rolling maneuvers allowed.				
<b>Speeds and Ceilings</b>									
Alt. Band	Conf. Ceil.	CL 39	1/2 36	DT 32	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band
EH+	46+	—	—	—	—	— —	— —	— —	EH+
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	— 0.25	— 0.10	— —	VH
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	— 0.50	— 0.25	— 0.10	HI
MH	17–25	1.0 – 4.0	1.0 – 3.5	1.0 – 3.5	4.5	— 0.50	— 0.25	— 0.25	MH
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	— 0.50	— 0.50	— 0.25	ML
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	— 0.50	— 0.50	— 0.50	LO
<b>Radar:</b> APQ-24		<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>						
ECCM:	1	RWR: A							
Arcs:	180+	DDS: —							
Search:	Gr. Nav. (180)	DJM: —							
Track:	Gr. Attack (120)	AJM: —							
Lock-On:	0	BJM: A2							
<b>Guns:</b> Thirteen .50 cal M2		<b>Technology:</b>			<b>Load Point Limits:</b>				
To Hit:	2/1/1	None			CL : 0–15 1/2: 16–31				
Ammunition:	18.0				<b>Weight Limit:</b> 33,000 DT : 32+				
Gunsight:	—				<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>		
Ranging:	—				1 and 4	4,500	BB DR TR WR FT		
AtA/AtG:	2/2**				2 and 3	10,000	BB FT		
<b>Bomb System:</b> Ballistic		<b>Load Notes:</b>							
<p><b>Notes:</b></p> <ol style="list-style-type: none"> <li>The Boeing B-50D Superfortress is a propeller-driven strategic bomber. The version described here is a conventional bomber. It is a development of the B-50A/B and has increased fuel capacity.</li> <li>Flight Restrictions. VD, VC, and unloading are forbidden.</li> <li>Articulated Guns. The guns can fire in any direction. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size and a -1 modifier when firing into the 60° arc.</li> </ol>									
<b>VPs:</b> 28/19/9/5								v1.0000000	0000-00-00T00:00:00

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	39	36	32		AB	AB	AB	Band		
EH+	46+	—	—	—	—	—	—	—	—	—	EH+
VH	36–45	1.5 – 3.5	1.5 – 3.5	—	4.5	—	0.25	—	0.10	—	VH
HI	26–35	1.0 – 4.0	1.5 – 4.0	1.5 – 3.5	4.5	—	0.50	—	0.25	—	HI
MH	17–25	1.0 – 4.0	1.0 – 3.5	1.0 – 3.5	4.5	—	0.50	—	0.25	—	MH
ML	8–16	1.0 – 3.5	1.0 – 3.5	1.0 – 3.0	4.0	—	0.50	—	0.50	—	ML
LO	0–7	1.0 – 3.0	1.0 – 3.0	1.0 – 3.0	3.5	—	0.50	—	0.50	—	LO

<b>Radar:</b>	APQ-24	<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>
ECCM:	1	RWR:	A	
Arcs:	180+	DDS:	—	
Search:	Gr. Nav. (180)	DJM:	—	
Track:	Gr. Attack (120)	AJM:	—	
Lock-On:	0	BJM:	A2	
<b>Guns:</b>	Three .50 cal M2	<b>Technology:</b>		<b>Load Point Limits:</b> CL : 0-17 1/2: 18-29
To Hit:	3/2/2	None		<b>Weight Limit:</b> 30,000 DT : 30+
Ammunition:	18.0			
Gunsight:	—			
Ranging:	—			
AtA/AtG:	2/2**			
<b>Bomb System:</b>	Ballistic			<b>Station</b> <b>Limit</b> <b>Allowed Loads</b>
<b>Notes:</b>				1 and 4      4,500      FT
1.	The B-50D is a propeller-driven strategic bomber. This variant is a nuclear bomber converted from the conventional variant under the 1947 to 1949 Saddletree program, with provision for nuclear weapons, all armor and turrets removed, air-to-air refueling, additional fuel tanks, and winterized electronics.			2      11,000      NBB
2.	Flight Restrictions. VD, VC, and unloading are forbidden.			3      14,000      FT
3.	Articulated Guns. The guns can only fire at targets in the 60° arc. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size.			<b>Load Notes:</b>
				1. Station 2 is the forward bomb bay. It can carry a Mark 4 (weight 11,000), Mark 5 (weight 3,000), or Mark 6 (weight 8,000) nuclear bomb.
				2. Station 3 is the rear bomb bay. It permanently carries a special 2200 gal (8300L) FT.
				3. Stations 1 and 4 may each carry a special 700 gal (2600L) FT.
				4. As an exception to the normal rules, internal loads contribute 1 load point for each 1,000 of weight and internal fuel contributes 1 load point for each 50 fuel points. A return mission will typically require leaving the target with at least 1250 fuel points (25 load points).
				<b>VPs:</b> 28/19/9/5
				v1.0000000 0000-00-00T00:00:00

## **Boeing B-52 Stratofortress**

- B-52D
- B-52G

<b>B-52D Stratofortress</b>								<b>Crew:</b> Pilot, Copilot, EW Officer, EW Officer, Navigator, and Gunner		
								<b>Maneuver HFPs/DPs:</b>		
								LR/DR	—	—
								VR	—	—
<b>Power APs/DPs/FPs:</b>					○○○○	○○○○				
	CL	1/2	DT	Fuel						
AB	—	—	—	—						
M	1.5	1.0	1.0	16.0						
N	0.0	0.0	0.0	8.0						
I	0.5	0.5	1.0	2.0						
SPBR	0.5	0.5	0.5	—						
Smoker in military power (SMP).					Cruise Speed: 5.0	Restr. Arcs: —				
					Climb Speed: 3.5	Blind Arcs: 30L				
					Visibility: 12	Internal Fuel: 11000				
					Size: —2	AtA Refuel: Yes				
					Vulnerability: +2	Ejection Seat: Std				
					No rolling maneuvers allowed.					

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	55	48	44		AB	AB	AB	Band		
EH+	46+	3.5 – 5.0	4.0 – 5.0	—	6.0	—	0.50	—	0.25	—	—
VH	36–45	3.0 – 5.5	3.5 – 5.5	3.5 – 5.0	6.0	—	0.50	—	0.50	—	0.25
HI	26–35	3.0 – 6.0	3.0 – 5.5	3.5 – 5.0	6.5	—	0.50	—	0.50	—	0.50
MH	17–25	2.5 – 6.0	2.5 – 5.5	3.0 – 5.0	6.5	—	1.00	—	1.00	—	0.50
ML	8–16	2.0 – 5.5	2.5 – 5.0	3.0 – 4.5	6.5	—	1.00	—	1.00	—	1.00
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.5 – 4.0	6.5	—	1.00	—	1.00	—	1.00

<b>B-52G Stratofortress</b>										<b>Crew:</b> Pilot, Copilot, EW Officer, EW Officer, Navigator, and Gunner			
<b>Power APs/DPs/FPs:</b>										<b>Maneuver HFPs/DPs:</b>			
										LR/DR	— —		
										VR	—		
										<b>Turn DPs:</b>			
										CL	1/2	DT	
										TT	2.0	2.0	2.0
										HT	3.0	—	—
										BT	—	—	—
										ET	—	—	—
										No rolling maneuvers allowed.			
Smoker in military power (SMP).													

<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL 55	1/2 48	DT 44	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	3.5 – 5.0	4.0 – 5.0	—	6.0	— 0.50	— 0.25	—	—	EH+	
VH	36–45	3.0 – 5.5	3.5 – 5.5	3.5 – 5.0	6.0	— 0.50	— 0.50	—	0.25	VH	
HI	26–35	3.0 – 6.0	3.0 – 5.5	3.5 – 5.0	6.5	— 0.50	— 0.50	—	0.50	HI	
MH	17–25	2.5 – 6.0	2.5 – 5.5	3.0 – 5.0	6.5	— 1.00	— 1.00	—	0.50	MH	
ML	8–16	2.0 – 5.5	2.5 – 5.0	3.0 – 4.5	6.5	— 1.00	— 1.00	—	1.00	ML	
LO	0–7	2.0 – 4.5	2.0 – 4.5	2.5 – 4.0	6.5	— 1.00	— 1.00	—	1.00	LO	

<b>Radar:</b> ECCM: Arcs: Search: Track: Lock-On:	Nav 3 150+ Gr. Nav. (300) Gr. Attack (180) 8	<b>ECM:</b> RWR: DDS: DJM: AJM: BJM:	IFF C B C4 C4 B3	<b>Weapon Stations Diagram:</b>																	
<b>Guns:</b> To Hit: Ammunition: Gunsight: Ranging: AtA/AtG:	Four .50 cal M3 6/4/2 8.0 — RE 4/4**	<b>Technology:</b> TFR-A								<b>Load Point Limits:</b> CL : 0–40 1/2: 41–70											
<b>Bomb System:</b>	Ballistic									<b>Weight Limit:</b> 64,000 DT : 71+											
<b>Notes:</b>	<p>1. 2. High transonic drag (HTD). Low roll rate (LRR). 3. DDS load is 240 CH and 60 FL. 4. Tail Radar. Equipped with an APS-54 tail radar with ECCM 2, arc 60–, search 40–8, track 18–6, and lock-on 8–. 5. Articulated Guns. The guns can only fire at locked-on targets in the 30– arc. They may return fire twice per game turn in response to gun attacks or conduct one attack. The hit rolls are modified only by the target size.</p>																				
	<p>1. Stations 1 and 5 may carry special 750 gal (2800L) or 3000 gal (11000L) FTs. 2. Stations 2 and 3 may each carry (a) twelve BB, (b) two ADM-120 Quail decoys, (c) one AGM-28 Hound Dog ASM, or (d) six AGM-69 SRAM ASM. 3. Station 3 is the internal bomb bay. These guns may carry (a) eight nuclear BB and two ADM-120 Quail decoys, (b) sixteen AGM-69 SRAM ASM, (c) eight AGM-69 SRAM ASM and two ADM-120 Quail decoys, (d) sixty six 750 lb BB, or (e) eighty four 500 lb BB.</p>																				
	<p><b>Station</b>                   <b>Limit</b>                   <b>Allowed Loads</b>            1 and 5                   20,000 FT            2 and 4                   10,000 BB ASM Decoys            3                           49,500 BB ASM Decoys</p> <p><b>Load Notes:</b></p> <ol style="list-style-type: none"> <li>Stations 1 and 5 may carry special 750 gal (2800L) or 3000 gal (11000L) FTs.</li> <li>Stations 2 and 3 may each carry (a) twelve BB, (b) two ADM-120 Quail decoys, (c) one AGM-28 Hound Dog ASM, or (d) six AGM-69 SRAM ASM.</li> <li>Station 3 is the internal bomb bay. These guns may carry (a) eight nuclear BB and two ADM-120 Quail decoys, (b) sixteen AGM-69 SRAM ASM, (c) eight AGM-69 SRAM ASM and two ADM-120 Quail decoys, (d) sixty six 750 lb BB, or (e) eighty four 500 lb BB.</li> </ol>																				
	<p><b>VPs:</b> 70/47/23/12</p>										v1.0000000 0000-00-00T00:00:00										

## **Martin B-57 Canberra**

- B-57B (Early)
- B-57B
- B-57B (PAF)
- B-57G

<b>B-57B Canberra (Early)</b>					<b>Crew:</b> Pilot and Weapons Officer
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR 1.0 2.0
AB — — — —					VR 1.0
M 1.0 1.0 0.5 3.0					
N 0.0 0.0 0.0 1.0					
I 0.5 0.5 1.0 0.0					
SPBR 0.5 0.5 1.0 —					
Cruise Speed: 4.5 Restr. Arcs: 60–					
Climb Speed: 3.5 Blind Arcs: 30–					
Visibility: 8 Internal Fuel: 875					
Size: -1 AtA Refuel: No					
Vulnerability: +0 Ejection Seat: Std					Only one vertical roll allowed per game turn.

<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL 48	1/2 42	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	3.0 – 5.0	—	—	6.0	— 0.5	— —	— —	EH+		
VH	36–45	2.5 – 5.5	3.0 – 5.0	—	6.0	— 0.5	— 0.5	— —	VH		
HI	26–35	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.5	— 0.5	— 0.5	— 0.5	HI		
MH	17–25	2.0 – 5.0	2.5 – 5.0	2.5 – 5.0	6.5	— 1.0	— 0.5	— 0.5	MH		
ML	8–16	2.0 – 5.0	2.0 – 5.0	2.5 – 4.5	6.5	— 1.0	— 1.0	— 0.5	ML		
LO	0–7	1.5 – 5.0	2.0 – 5.0	2.0 – 4.5	6.5	— 1.0	— 1.0	— 1.0	LO		

<b>Radar:</b> APW-11	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 0	RWR: —	
Arcs: 180+	DDS: —	
Search: Gr. Nav. (90)	DJM: —	
Track: Gr. Attack (30)	AJM: —	
Lock-On: 7	BJM: —	
<b>Guns:</b> Eight .50 cal M3	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–8 1/2: 9–15
To Hit: 4/2/1	None	<b>Weight Limit:</b> 12,000 DT : 16+
Ammunition: 7.0		<b>Station</b> Limit Allowed Loads
Gunsight: TT+1/HT+2/BT+3		1 and 11 2,200 FT
Ranging: —		2–3 and 9–10 250 BB RP RK
AtA/AtG: 5/7*		4–5 and 7–8 750 BB RP RK
<b>Bomb System:</b> Manual		6 6,000 BB
<b>Notes:</b>	<b>Load Notes:</b>	
1.	1. Station 6 is the internal bomb bay. It can carry six illumination flares and either (a) six 1,000 lb BB, (b) eight 750 lb BB, (c) nine 500 lb BB, or (d) twelve 250 lb BB. All BB must be HE type.	
2.	2. Stations 2 to 5 and 7 to 10 can each carry two RKS.	
3.	3. Tail Warning Radar. APS-54 with ECCM of 0, arc of 30–, and search capability of 30–10. The radar has no tracking capability.	
<b>VPs:</b> 16/11/5/3		v1.0000000 0000-00-00T00:00:00

<b>B-57B Canberra</b>										<b>Crew:</b> Pilot and Weapons Officer
<b>Power APs/DPs/FPs:</b> ○○										<b>Maneuver HFPs/DPs:</b>
CL    1/2    DT    Fuel					LR/DR              1.0    2.0					VR              1.0
AB    —    —    —    —										<b>Turn DPs:</b>
M    1.0    1.0    0.5    3.0					CL    1/2    DT					TT    0.0    0.0    0.0
N    0.0    0.0    0.0    1.0					HT    1.0    1.0    1.0					BT    1.0    1.0    —
I    0.5    0.5    1.0    0.0					ET    —    —    —					Only one vertical roll allowed per game turn.
SPBR    0.5    0.5    1.0    —										

<b>B-57B Canberra (PAF)</b>					<b>Crew:</b> Pilot and Weapons Officer
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR 1.0 2.0
AB — — — —					VR 1.0
M 1.0 1.0 0.5 3.0					
N 0.0 0.0 0.0 1.0					
I 0.5 0.5 1.0 0.0					
SPBR 0.5 0.5 1.0 —					
Cruise Speed: 4.5 Restr. Arcs: 60–					
Climb Speed: 3.5 Blind Arcs: 30–					
Visibility: 8 Internal Fuel: 875					
Size: -1 AtA Refuel: No					
Vulnerability: +0 Ejection Seat: Std					Only one vertical roll allowed per game turn.

<b>Speeds and Ceilings</b>						<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL 48	1/2 42	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	3.0 – 5.0	—	—	6.0	— 0.5	— —	— —	EH+		
VH	36–45	2.5 – 5.5	3.0 – 5.0	—	6.0	— 0.5	— 0.5	— —	VH		
HI	26–35	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.5	— 0.5	— 0.5	— 0.5	HI		
MH	17–25	2.0 – 5.0	2.5 – 5.0	2.5 – 5.0	6.5	— 1.0	— 0.5	— 0.5	MH		
ML	8–16	2.0 – 5.0	2.0 – 5.0	2.5 – 4.5	6.5	— 1.0	— 1.0	— 0.5	ML		
LO	0–7	1.5 – 5.0	2.0 – 5.0	2.0 – 4.5	6.5	— 1.0	— 1.0	— 1.0	LO		

<b>Radar:</b> RB-1A	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 0	RWR: —	
Arcs: 180+	DDS: —	
Search: Gr. Nav. (180)	DJM: —	
Track: Gr. Attack (60)	AJM: —	
Lock-On: 7	BJM: —	
<b>Guns:</b> Four 20 mm M39	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–8 1/2: 9–15
To Hit: 4/2/1	None	<b>Weight Limit:</b> 12,000 DT : 16+
Ammunition: 8.0		<b>Station</b> Limit Allowed Loads
Gunsight: TT+1/HT+2/BT+3		1 and 11 2,200 FT
Ranging: —		2–3 and 9–10 250 BB RP RK
AtA/AtG: 5/7*		4–5 and 7–8 750 BB RP RK FT
<b>Bomb System:</b> Manual		6 6,000 BB
<b>Notes:</b>	<b>Load Notes:</b>	
1.	1. Station 6 is the internal bomb bay. It can carry six illumination flares and either (a) six 1,000 lb BB, (b) eight 750 lb BB, (c) nine 500 lb BB, or (d) twelve 250 lb BB. All BB must be HE type.	
2.	2. Stations 2 to 5 and 7 to 10 can each carry two RKS.	
3.	3. Tail Warning Radar. APS-54 with ECCM of 0, arc of 30–, and search capability of 30–10. The radar has no tracking capability.	
<b>VPs:</b> 16/11/5/3		v1.0000000 0000-00-00T00:00:00

<b>B-57G Canberra</b>					Crew: Pilot and Weapons Officer										
					<b>Maneuver HFPs/DPs:</b>										
<b>Power APs/DPs/FPs:</b> ○○					LR/DR	1.0	2.0								
					VR		1.0								
					<b>Turn DPs:</b>										
					CL	1/2	DT								
					TT	0.0	0.0	0.0							
					HT	1.0	1.0	1.0							
					BT	1.0	1.0	—							
					ET	—	—	—							
					Only one vertical roll allowed per game turn.										
<b>Speeds and Ceilings</b>															
Alt. Band	Conf. Ceil.	CL 48	1/2 42	DT 35	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band						
EH+	46+	3.0 – 5.0	—	—	6.0	— 0.5	— —	— —	EH+						
VH	36–45	2.5 – 5.5	3.0 – 5.0	—	6.0	— 0.5	— 0.5	— —	VH						
HI	26–35	2.5 – 5.5	2.5 – 5.5	3.0 – 5.0	6.5	— 0.5	— 0.5	— 0.5	HI						
MH	17–25	2.0 – 5.0	2.5 – 5.0	2.5 – 5.0	6.5	— 1.0	— 0.5	— 0.5	MH						
ML	8–16	2.0 – 5.0	2.0 – 5.0	2.5 – 4.5	6.5	— 1.0	— 1.0	— 0.5	ML						
LO	0–7	1.5 – 5.0	2.0 – 5.0	2.0 – 4.5	6.5	— 1.0	— 1.0	— 1.0	LO						
<b>Radar:</b> APW-11		<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>												
ECCM:	0	RWR: A													
Arcs:	180+	DDS: A													
Search:	Gr. Nav. (90)	DJM: —													
Track:	Gr. Attack (30)	AJM: —													
Lock-On:	7	BJM: —													
<b>Guns:</b> —		<b>Technology:</b> TV/IR Optics and Laser Designator – A		<b>Load Point Limits:</b>											
To Hit:	—			CL : 0–8 1/2: 9–15											
Ammunition:	—			<b>Weight Limit:</b> 12,000 DT : 16+											
Gunsight:	TT+1/HT+2/BT+3			<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>									
Ranging:	—			1 and 11	2,200	FT									
AtA/AtG:	—			2–3 and 9–10	250	BB RP RK									
<b>Bomb System:</b> Computed				4–5 and 7–8	750	BB RP RK BG									
<b>Notes:</b>															
1. High transonic drag (HTD). Low roll rate (LRR).															
2. Tail Warning Radar. APS-54 with ECCM of 0, arc of 30–, and search capability of 30–10. The radar has no tracking capability.															
<b>VPs:</b> 20/13/7/3								v1.0000000 0000-00-00T00:00:00							

## **Douglas A3D/A-3 Skywarrior**

- A3D-2 (Early)
- A-3B (Early)
- A3D-2 (Late)
- A-3B (Late)
- A3D-2Q
- EA-3B

### **See Also**

- Douglas B-66 Destroyer

<b>A3D-2 Skywarrior (Early)</b>					<b>Crew:</b> Pilot, Bombardier-Navigator, and Gunner
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR — —
AB — — — —					VR 1.0
M 1.0 1.0 0.5 4.0					
N 0.0 0.0 0.0 2.0					
I 0.5 0.5 1.0 0.0					
SPBR 0.5 0.5 1.0 —					
Smoker in military power (SMP).					
Cruise Speed: 5.0 Restr. Arcs: —					
Climb Speed: 3.5 Blind Arcs: 60—					
Visibility: 8 Internal Fuel: 1450					
Size: -1 AtA Refuel: Yes					
Vulnerability: -1 Ejection Seat: None					Only one vertical roll allowed per game turn.

Speeds and Ceilings				Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 41	1/2 35	DT 30	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band
EH+	46+	—	—	—	—	— —	— —	— —	EH+
VH	36–45	3.0 – 5.5	—	—	6.0	— 0.50	— —	— —	VH
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.25	HI
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	— 1.00	— 0.50	— 0.50	MH
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	— 1.00	— 1.00	— 0.50	ML
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	— 1.00	— 1.00	— 1.00	LO

<b>Radar:</b> ASB-7	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 1	RWR: A	
Arcs: 180+	DDS: —	
Search: Gr. Nav. (150)	DJM: —	
Track: Gr. Attack (90)	AJM: A3	
Lock-On: 7	BJM: —	
<b>Guns:</b> Two 20 mm M3L	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–6 1/2: 7–9
To Hit: 3/2/1	None	<b>Weight Limit:</b> 15,000 DT : 10+
Ammunition: 6.0		<b>Station</b> Limit Allowed Loads
Gunsight: —		1 and 3 3,000 BB FT EP
Ranging: —		2 9,000 BB
AtA/AtG: 4/4*		<b>Load Notes:</b>
<b>Bomb System:</b> Ballistic		1. Station 2 is the internal bomb bay. Load options are (a) four 2,000 lb BB, (b) six 1,000 lb BB, (c) twelve 500 lb BB, or (d) two nuclear bombs.
<b>Notes:</b>		
1.		
2. High transonic drag (HTD).		
3. Tail Radar. Equipped with an APS-54 tail radar with ECCM 1, arc 60–, search 30–10, track 15–10, and lock-on 7–.		
4. Articulated Guns. The guns can only fire at locked-on targets in the 60– arc. They may return fire twice per game turn in response to gun attacks or conduct one gun attack. The hit rolls are modified only by the target size.		
		<b>VPs:</b> 24/16/8/4
		v1.0000000 0000-00-00T00:00:00

<b>A-3B Skywarrior (Early)</b>					<b>Crew:</b> Pilot, Bombardier-Navigator, and Gunner
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR — —
AB — — — —					VR 1.0
M 1.0 1.0 0.5 4.0					
N 0.0 0.0 0.0 2.0					
I 0.5 0.5 1.0 0.0					
SPBR 0.5 0.5 1.0 —					
Smoker in military power (SMP).					
Cruise Speed: 5.0 Restr. Arcs: —					
Climb Speed: 3.5 Blind Arcs: 60—					
Visibility: 8 Internal Fuel: 1450					
Size: -1 AtA Refuel: Yes					
Vulnerability: -1 Ejection Seat: None					Only one vertical roll allowed per game turn.

Speeds and Ceilings						Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 41	1/2 35	DT 30	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	—	—	—	—	— —	— —	— —	— —	EH+	
VH	36–45	3.0 – 5.5	—	—	6.0	— 0.50	— —	— —	— —	VH	
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.25	— 0.25	HI	
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	— 1.00	— 0.50	— 0.50	— 0.50	MH	
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	— 1.00	— 1.00	— 0.50	— 0.50	ML	
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	— 1.00	— 1.00	— 1.00	— 1.00	LO	

<b>Radar:</b> ASB-7	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 1	RWR: A	
Arcs: 180+	DDS: —	
Search: Gr. Nav. (150)	DJM: —	
Track: Gr. Attack (90)	AJM: A3	
Lock-On: 7	BJM: —	
<b>Guns:</b> Two 20 mm M3L	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–6 1/2: 7–9
To Hit: 3/2/1	None	<b>Weight Limit:</b> 15,000 DT : 10+
Ammunition: 6.0		<b>Station</b> Limit Allowed Loads
Gunsight: —		1 and 3 3,000 BB FT EP
Ranging: —		2 9,000 BB
AtA/AtG: 4/4*		<b>Load Notes:</b>
<b>Bomb System:</b> Ballistic		1. Station 2 is the internal bomb bay. Load options are (a) four 2,000 lb BB, (b) six 1,000 lb BB, (c) twelve 500 lb BB, or (d) two nuclear bombs.
<b>Notes:</b>		
1.		
2. High transonic drag (HTD).		
3. Tail Radar. Equipped with an APS-54 tail radar with ECCM 1, arc 60–, search 30–10, track 15–10, and lock-on 7–.		
4. Articulated Guns. The guns can only fire at locked-on targets in the 60– arc. They may return fire twice per game turn in response to gun attacks or conduct one gun attack. The hit rolls are modified only by the target size.		
		<b>VPs:</b> 24/16/8/4
		v1.0000000 0000-00-00T00:00:00

<b>A3D-2 Skywarrior (Late)</b>					<b>Crew:</b> Pilot, Bombardier-Navigator, and EW Officer
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR — — VR 1.0
AB — — — — M 1.0 1.0 0.5 4.0 N 0.0 0.0 0.0 2.0 I 0.5 0.5 1.0 0.0 SPBR 0.5 0.5 1.0 —					<b>Turn DPs:</b>
Cruise Speed: 5.0 Restr. Arcs: — Climb Speed: 3.5 Blind Arcs: 60– Visibility: 8 Internal Fuel: 1450 Size: -1 AtA Refuel: Yes Vulnerability: -1 Ejection Seat: None					CL 1/2 DT TT 1.0 2.0 3.0 HT 2.0 3.0 3.0 BT — — — ET — — —

<b>Speeds and Ceilings</b>				<b>Climb Capabilities</b>					
Alt. Band	Conf. Ceil.	CL	1/2	DT	Dive Speed	CL AB	1/2 AB	DT AB	Alt. Band
EH+	46+	—	—	—	—	—	—	—	EH+
VH	36–45	3.0 – 5.5	—	—	6.0	— 0.50	—	—	VH
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.25	HI
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	— 1.00	— 0.50	— 0.50	MH
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	— 1.00	— 1.00	— 0.50	ML
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	— 1.00	— 1.00	— 1.00	LO

<b>Radar:</b> ASB-7 ECCM: 1 Arcs: 180+ Search: Gr. Nav. (150) Track: Gr. Attack (90) Lock-On: 7	<b>ECM:</b> IFF RWR: A DDS: A DJM: B3 AJM: A3 BJM: —	<b>Weapon Stations Diagram:</b>
<b>Guns:</b> — To Hit: — Ammunition: — Gunsight: — Ranging: — AtA/AtG: —	<b>Technology:</b> None	<b>Load Point Limits:</b> CL : 0–6 1/2: 7–9 <b>Weight Limit:</b> 15,000 DT : 10+
<b>Bomb System:</b> Ballistic		<b>Station</b> Limit Allowed Loads 1 and 3 3,000 BB FT EP 2 9,000 BB
<b>Notes:</b> 1. 2. High transonic drag (HTD). 3. The DDS has 120 CH or 90 CH and 30 FL.		<b>Load Notes:</b> 1. Station 2 is the internal bomb bay. Load options are (a) four 2,000 lb BB, (b) six 1,000 lb BB, (c) twelve 500 lb BB, or (d) two nuclear bombs.
		<b>VPs:</b> 24/16/8/4 <span style="float: right;">v1.0000000 0000-00-00T00:00:00</span>

<b>A-3B Skywarrior (Late)</b>					<b>Crew:</b> Pilot, Bombardier-Navigator, and EW Officer
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR — —
AB — — — —					VR 1.0
M 1.0 1.0 0.5 4.0					
N 0.0 0.0 0.0 2.0					
I 0.5 0.5 1.0 0.0					
SPBR 0.5 0.5 1.0 —					
Smoker in military power (SMP).					
Cruise Speed: 5.0 Restr. Arcs: —					
Climb Speed: 3.5 Blind Arcs: 60—					
Visibility: 8 Internal Fuel: 1450					
Size: -1 AtA Refuel: Yes					
Vulnerability: -1 Ejection Seat: None					Only one vertical roll allowed per game turn.

Speeds and Ceilings				Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 41	1/2 35	DT 30	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band
EH+	46+	—	—	—	—	— —	— —	— —	EH+
VH	36–45	3.0 – 5.5	—	—	6.0	— 0.50	— —	— —	VH
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.25	HI
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	— 1.00	— 0.50	— 0.50	MH
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	— 1.00	— 1.00	— 0.50	ML
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	— 1.00	— 1.00	— 1.00	LO

<b>Radar:</b> ASB-7	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 1	RWR: A	
Arcs: 180+	DDS: A	
Search: Gr. Nav. (150)	DJM: B3	
Track: Gr. Attack (90)	AJM: A3	
Lock-On: 7	BJM: —	
<b>Guns:</b> —	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–6 1/2: 7–9
To Hit: —	None	<b>Weight Limit:</b> 15,000 DT : 10+
Ammunition: —		<b>Station</b> Limit Allowed Loads
Gunsight: —		1 and 3 3,000 BB FT EP
Ranging: —		2 9,000 BB
AtA/AtG: —		<b>Load Notes:</b>
<b>Bomb System:</b> Ballistic		1. Station 2 is the internal bomb bay. Load options are (a) four 2,000 lb BB, (b) six 1,000 lb BB, (c) twelve 500 lb BB, or (d) two nuclear bombs.
<b>Notes:</b>		
1. 2. High transonic drag (HTD). 3. The DDS has 120 CH or 90 CH and 30 FL.		
		VPs: 24/16/8/4 v1.0000000 0000-00-00T00:00:00

<b>A3D-2Q Skywarrior</b>								<b>Crew:</b> Pilot, Bombardier-Navigator, EW Officer, EW Officer, and EW Officer				
								<b>Maneuver HFPs/DPs:</b>				
								LR/DR	—	—		
								VR	1.0			
<b>Power APs/DPs/FPs:</b> ○○												
					CL	1/2	DT	Fuel				
AB	—	—	—	—								
M	1.0	1.0	0.5	4.0								
N	0.0	0.0	0.0	2.0								
I	0.5	0.5	1.0	0.0								
SPBR	0.5	0.5	1.0	—								
Smoker in military power (SMP).					Cruise Speed:	5.0	Restr. Arcs:	—				
					Climb Speed:	3.5	Blind Arcs:	60–				
					Visibility:	8	Internal Fuel:	1450				
					Size:	-1	AtA Refuel:	Yes				
					Vulnerability:	-1	Ejection Seat:	None				
								Only one vertical roll allowed per game turn.				

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	41	35	30		AB	AB	AB	Band		
EH+	46+	—	—	—	—	—	—	—	EH+		
VH	36–45	3.0 – 5.5	—	—	6.0	—	0.50	—	VH		
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	—	0.50	—	0.25	HI	
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	—	1.00	—	0.50	MH	
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	—	1.00	—	0.50	ML	
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	—	1.00	—	1.00	LO	

EA-3B Skywarrior								<b>Crew:</b> Pilot, Bombardier-Navigator, EW Officer, EW Officer, and EW Officer		
								<b>Maneuver HFPs/DPs:</b>		
								LR/DR	—	—
								VR	1.0	
<b>Power APs/DPs/FPs:</b> ○○								<b>Turn DPs:</b>		
								CL	1/2	DT
AB	—	—	—	—				TT	1.0	2.0
M	1.0	1.0	0.5	4.0				HT	2.0	3.0
N	0.0	0.0	0.0	2.0				BT	—	—
I	0.5	0.5	1.0	0.0				ET	—	—
SPBR	0.5	0.5	1.0	—	Cruise Speed: 5.0			Restr. Arcs:	—	
					Climb Speed: 3.5			Blind Arcs:	60–	
					Visibility: 8			Internal Fuel:	1450	
Smoker in military power (SMP).					Size: -1			AtA Refuel:	Yes	
					Vulnerability: -1			Ejection Seat:	None	
					Only one vertical roll allowed per game turn.					

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	41	35	30		AB	AB	AB	Band		
EH+	46+	—	—	—	—	—	—	—	EH+		
VH	36–45	3.0 – 5.5	—	—	6.0	—	0.50	—	VH		
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	—	0.50	—	0.25	HI	
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	—	1.00	—	0.50	MH	
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	—	1.00	—	0.50	ML	
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	—	1.00	—	1.00	LO	

## Douglas B-66 Destroyer

- B-66B (Early)
- B-66B (Late)
- RB-66C
- EB-66C

### See Also

- Douglas A3D/A-3 Skywarrior

<b>B-66B Destroyer (Early)</b>					<b>Crew:</b> Pilot, Bombardier-Navigator, and Gunner
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR — —
AB — — — —					VR 1.0
M 1.0 1.0 0.5 4.0					
N 0.0 0.0 0.0 2.0					
I 0.5 0.5 1.0 0.0					
SPBR 0.5 0.5 1.0 —					
Smoker in military power (SMP).					
Cruise Speed: 5.0 Restr. Arcs: —					
Climb Speed: 3.5 Blind Arcs: 60—					
Visibility: 8 Internal Fuel: 1450					
Size: -1 AtA Refuel: Yes					
Vulnerability: -1 Ejection Seat: Std					Only one vertical roll allowed per game turn.

Speeds and Ceilings				Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 41	1/2 35	DT 30	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band
EH+	46+	—	—	—	—	— —	— —	— —	EH+
VH	36–45	3.0 – 5.5	—	—	6.0	— 0.50	— —	— —	VH
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.25	HI
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	— 1.00	— 0.50	— 0.50	MH
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	— 1.00	— 1.00	— 0.50	ML
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	— 1.00	— 1.00	— 1.00	LO

<b>Radar:</b> APS-63	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 1	RWR: A	
Arcs: 180+	DDS: A	
Search: Gr. Nav. (180)	DJM: —	
Track: Gr. Attack (120)	AJM: A3	
Lock-On: 7	BJM: —	
<b>Guns:</b> Two 20 mm M3L	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–6 1/2: 7–9
To Hit: 3/2/1	None	<b>Weight Limit:</b> 15,000 DT : 10+
Ammunition: 6.0		<b>Station</b> Limit Allowed Loads
Gunsight: —		1 and 3 3,000 BB FT EP
Ranging: —		2 9,000 BB
AtA/AtG: 4/4*		<b>Load Notes:</b>
<b>Bomb System:</b> Ballistic		1. Station 2 is the internal bomb bay. Load options are (a) four 2,000 lb BB, (b) six 1,000 lb BB, (c) twelve 500 lb BB, or (d) two nuclear bombs.
<b>Notes:</b>		
1.		
2. High transonic drag (HTD).		
3. Tail Radar. Equipped with an APS-54 tail radar with ECCM 1, arc 60–, search 30–10, track 15–10, and lock-on 7–.		
4. Articulated Guns. The guns can only fire at locked-on targets in the 60– arc. They may return fire twice per game turn in response to gun attacks or conduct one gun attack. The hit rolls are modified only by the target size.		
		<b>VPs:</b> 24/16/8/4
		v1.0000000 0000-00-00T00:00:00

<b>B-66B Destroyer (Late)</b>					<b>Crew:</b> Pilot, Bombardier-Navigator, and Gunner
<b>Power APs/DPs/FPs:</b> ○○					<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel					LR/DR — —
AB — — — —					VR 1.0
M 1.0 1.0 0.5 4.0					
N 0.0 0.0 0.0 2.0					
I 0.5 0.5 1.0 0.0					
SPBR 0.5 0.5 1.0 —					
Smoker in military power (SMP).					
Cruise Speed: 5.0 Restr. Arcs: —					
Climb Speed: 3.5 Blind Arcs: 60-					
Visibility: 8 Internal Fuel: 1450					
Size: -1 AtA Refuel: Yes					
Vulnerability: -1 Ejection Seat: Std					Only one vertical roll allowed per game turn.

Speeds and Ceilings				Climb Capabilities					
Alt. Band	Conf. Ceil.	CL 41	1/2 35	DT 30	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band
EH+	46+	—	—	—	—	— —	— —	— —	EH+
VH	36–45	3.0 – 5.5	—	—	6.0	— 0.50	— —	— —	VH
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	— 0.50	— 0.50	— 0.25	HI
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	— 1.00	— 0.50	— 0.50	MH
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	— 1.00	— 1.00	— 0.50	ML
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	— 1.00	— 1.00	— 1.00	LO

<b>Radar:</b> APS-63	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>
ECCM: 1	RWR: A	
Arcs: 180+	DDS: A	
Search: Gr. Nav. (180)	DJM: B3	
Track: Gr. Attack (120)	AJM: A3	
Lock-On: 7	BJM: —	
<b>Guns:</b> Two 20 mm M3L	<b>Technology:</b>	<b>Load Point Limits:</b> CL : 0–6 1/2: 7–9
To Hit: 3/2/1	None	<b>Weight Limit:</b> 15,000 DT : 10+
Ammunition: 6.0		<b>Station</b> Limit Allowed Loads
Gunsight: —		1 and 3 3,000 BB FT EP
Ranging: —		2 9,000 BB
AtA/AtG: 4/4*		<b>Load Notes:</b>
<b>Bomb System:</b> Ballistic		1. Station 2 is the internal bomb bay. Load options are (a) four 2,000 lb BB, (b) six 1,000 lb BB, (c) twelve 500 lb BB, or (d) two nuclear bombs.
<b>Notes:</b>		
1.		
2. High transonic drag (HTD).		
3. The DDS has 120 CH or 90 CH and 30 FL.		
4. IR Jammer. Equipped with an IR jammer that gives a +2 modifier to IRM attacks from the 60° arc.		
<b>VPs:</b> 24/16/8/4		v1.0000000 0000-00-00T00:00:00

RB-66C Destroyer									<b>Crew:</b> Pilot, Navigator, EW Officer, EW Officer, and EW Officer		
									<b>Maneuver HFPs/DPs:</b>		
									LR/DR	—	—
									VR	1.0	
<b>Power APs/DPs/FPs:</b> ○○									<b>Turn DPs:</b>		
									CL	1/2	DT
AB	—	—	—	—					TT	1.0	2.0
M	1.0	1.0	0.5	4.0					HT	2.0	3.0
N	0.0	0.0	0.0	2.0					BT	—	—
I	0.5	0.5	1.0	0.0					ET	—	—
SPBR	0.5	0.5	1.0	—							
Smoker in military power (SMP).					Cruise Speed:	5.0	Restr. Arcs:	—			
					Climb Speed:	3.5	Blind Arcs:	60–			
					Visibility:	8	Internal Fuel:	1450			
					Size:	-1	AtA Refuel:	Yes			
					Vulnerability:	-1	Ejection Seat:	Std	Only one vertical roll allowed per game turn.		

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	41	35	30		AB	AB	AB	Band		
EH+	46+	—	—	—	—	—	—	—	EH+		
VH	36–45	3.0 – 5.5	—	—	6.0	—	0.50	—	VH		
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	—	0.50	—	0.25	HI	
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	—	1.00	—	0.50	MH	
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	—	1.00	—	0.50	ML	
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	—	1.00	—	1.00	LO	

EB-66C Destroyer									<b>Crew:</b> Pilot, Navigator, EW Officer, EW Officer, and EW Officer		
									<b>Maneuver HFPs/DPs:</b>		
									LR/DR	—	—
									VR	1.0	
<b>Power APs/DPs/FPs:</b> ○○									<b>Turn DPs:</b>		
									CL	1/2	DT
AB	—	—	—	—					TT	1.0	2.0
M	1.0	1.0	0.5	4.0					HT	2.0	3.0
N	0.0	0.0	0.0	2.0					BT	—	—
I	0.5	0.5	1.0	0.0					ET	—	—
SPBR	0.5	0.5	1.0	—							
Smoker in military power (SMP).					Cruise Speed:	5.0	Restr. Arcs:	—			
					Climb Speed:	3.5	Blind Arcs:	60–			
					Visibility:	8	Internal Fuel:	1450			
					Size:	-1	AtA Refuel:	Yes			
					Vulnerability:	-1	Ejection Seat:	Std	Only one vertical roll allowed per game turn.		

Speeds and Ceilings						Climb Capabilities					
Alt.	Conf.	CL	1/2	DT	Dive Speed	CL	1/2	DT	Alt.		
Band	Ceil.	41	35	30		AB	AB	AB	Band		
EH+	46+	—	—	—	—	—	—	—	EH+		
VH	36–45	3.0 – 5.5	—	—	6.0	—	0.50	—	VH		
HI	26–35	2.5 – 5.5	3.0 – 5.5	3.0 – 5.0	6.5	—	0.50	—	0.25	HI	
MH	17–25	2.0 – 6.0	2.5 – 5.5	2.5 – 5.5	6.5	—	1.00	—	0.50	MH	
ML	8–16	2.0 – 6.0	2.0 – 6.0	2.5 – 5.5	6.5	—	1.00	—	0.50	ML	
LO	0–7	1.5 – 6.0	2.0 – 5.5	2.0 – 5.0	6.5	—	1.00	—	1.00	LO	

# Rockwell B-1 Lancer



The Rockwell B-1 is a long-range strategic bomber.

## Versions

### B-1A

The original B-1A was designed and developed as a long-range, high-speed strategic nuclear bomber to replace the B-52. Four prototype aircraft were built. However, the project was cancelled in 1977 to a large degree because it was thought that the B-52 with air-launched cruise missiles could provide an equivalent capability at a lower cost.

The B-1A did not progress past the prototype stage.

### B-1B

The B-1 project was revived in the 1980s. A total of 100 B-1Bs were acquired by the USAF, with modifications that gave lower radar cross-section and higher speed at low altitude at the cost of much reduced speed at high altitude, an improved defensive countermeasures suite, and a secondary conventional role. Although the B-1B is formally named the "Lancer," informally it is called the "Bone".

The B-1B entered service with the USAF in 1986, although full operability of its TFR and ECM systems took several years.

### B-1R

The B-1R is a proposed modernization of the B-1B presented in 2004. It would have had more powerful Pratt & Whitney F119 engines, the air intakes reverted to a high-speed configuration (with a concomitant increase in radar cross-section), provision for weapons on the external stations, including AIM-120 AMRAAM AHMs for self-defense, a dual-mode radar able to combine air-to-air and air-to-ground modes, and improved defensive countermeasures.

The B-1R did not progress beyond a conceptual proposal.

## Armament and Stores

### B-1A

The B-1A is equipped with three internal bays. Each internal bay can carry a rotary launcher with either eight AGM-69A SRAM nuclear ASMs or eight B43 or B61 nuclear BBs or a 2,975 gal (11,200L) fuel tank.

If entered service, possible upgrades could have included the AGM-69B SRAM nuclear ASM and the B77 nuclear BB.

### B-1B

The B-1B is equipped with three internal bays and eight external weapon stations on the fuselage and wing gloves. The six fuselage stations have higher capacity than the two wing-glove stations. Use of the external stations causes a significant increase in the radar cross-section.

Each internal bay can carry either a Multi-Purpose Rotary Launcher (MPRL), a Conventional Bomb Module (CBM), or a 2,975 gal (11,200L) fuel tank. Except for in the first few aircraft, the two forward bays can also be combined to carry a Common Strategic Rotary Launcher (CSRL) and a 1,500 gal (5,700L) fuel tank.

At its entry to service in 1986, the nuclear weapon options of the B-1B were eight B61/B63 nuclear BB or eight AGM-69A SRAM nuclear ASM in each MPRL. The SRAM was retired in 1990, the B-1B removed from the nuclear role in 1997, and the ability to carry nuclear weapons was disabled in 2011 to comply with the New START treaty.

The B-1B was tested for the internal carriage of eight AGM-86B ALCM or AGM-129A ACM nuclear ASMs in the CSRL and for the external carriage of fourteen ALCMs or ACMs on the external stations (two on each of the six fuselage stations and one on each of the two wing-glove stations). The vibration levels were too severe for the external carriage of the ALCM, but external carriage of the more robust ACM was feasible. Nevertheless, neither of these options became operational as the USAF deployed the ALCM and ACM exclusively on the B-52 in compliance with the (unratified) SALT II treaty.

In addition to cruise missiles, the fuselage external stations were designed to each carry six Mk 84 bombs or one 1,000 gal (3,800L) FTs, and the wing-glove stations were designed to each carry four Mk 82 bombs, but these options were never deployed.

The conventional weapons load was initially restricted to twenty-eight Mk 82 500 lb bombs in a CBM. The Mk 82 bombs could be high-drag or low-drag, and the similar

Mk 36 or Mk 62 mines could be used as well.

The conventional weapons options were expanded considerably during the aircraft's service with a series of upgrades:

- The 1996 upgrade allowed each CBM to carry ten CBU-87/89/97 cluster BBs.
- The 1998 upgrade allowed each MPRL to carry eight Mk 84 2,000 lb BBs or eight GBU-31 2,000 lb JDAM BSes, specifically the GBU-31(V)1/B with the standard Mk 84 2000 lb bomb as a warhead and the GBU-31(V)3/B with the BLU-109/B 2000 lb penetration bomb.
- The 2003 upgrade allowed the MPRL to carry eight AGM-154A JSOW BSes, but this weapon was not deployed operationally. It also allowed each CBM to carry ten CBU-103/104/105 wind-corrected cluster BBs or five GBU-38 JDAM BSes with a Mk 82 500 lb bomb as a warhead.
- The 2005 upgrade allowed each MPRL to carry eight AGM-158A JASSM ASMs. It also allowed each weapon bay to carry a different conventional weapon option. Prior to this, all weapon bays had to carry the same type of launcher and each launcher had to carry the same type of weapon.
- The 2008 upgrade recommissioned external station 1 for the AAQ-33 Sniper DP/LP and allowed the use of the laser-guided GBU-54 JDAM BS/BG in place of the GBU-38 BS.
- The 2014 upgrade allowed each MPRL to carry eight AGM-158B JASSM-ER ASMs.
- The 2018 upgrade allowed each MPRL to carry eight AGM-158C LRASM ASMs.
- The 2022 upgrade allowed each MPRL to carry a mixture of GBU-31 and GBU-38 JDAM BSes, with two GBU-38s replacing one GBU-31.

### **B-1R**

I have assumed that the internal weapon options for the B-1R are the same as for the B-1B. I have assumed the external weapon stations can each carry two AMRAAMs or any air-to-ground weapon that can be carried internally.

### **Combat**

The B-1B saw combat in 1998 in the Operation Desert Fox bombing campaign against Iraq, in 1999 in the Operation Allied Force armed intervention in Serbia and Kosovo, in the 2001-2021 War in Afghanistan, in the 2003 Invasion of Iraq, and in the 2011-2024 Syrian Civil War.

### **ADCs**

- B-1A
- B-1B
- B-1R

### **Photo Credit**

- B-1B: Andy Dunaway (Public Domain)

<b>B-1A</b>								<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator											
								<b>Maneuver HFPs/DPs:</b>											
<b>Power APs/DPs/FPs:</b> OOOO								LR/DR	1.0	2.0									
CL 1/2 DT Fuel								VR	1.5										
AB	3.5	2.5	1.5	36.0															
M	2.5	2.0	1.0	9.0															
N	0.0	0.0	0.0	4.0															
I	0.5	1.0	1.0	1.0															
SPBR	1.0	1.0	1.0	—															
								Cruise Speed:	5.0	Restr. Arcs:	-								
								Climb Speed:	4.5	Blind Arcs:	90-								
								Visibility:	11	Internal Fuel:	9800								
								Size:	-2	AtA Refuel:	Yes								
								Vulnerability:	+1	Ejection Seat:	Adv								
								Rolling maneuvers only if CL.											
<b>Speeds and Ceilings</b>																			
Alt. Band	Conf. Ceil.	CL 55	1/2 48	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band										
EH+	46+	3.0 – 3.5	3.0 – 3.5	—	13.0	1.0 0.5	0.5 0.0	— —	EH+										
VH	36–45	3.0 – 3.5	3.0 – 3.5	3.0 – 3.5	12.0	1.0 1.0	0.5 0.5	0.5 —	VH										
HI	26–35	2.5 – 3.5	3.0 – 3.5	3.0 – 3.5	11.0	2.0 1.0	1.0 0.5	0.5 0.5	HI										
MH	17–25	2.5 – 3.5	2.5 – 3.5	2.5 – 3.5	11.0	3.0 1.0	2.0 1.0	1.0 0.5	MH										
ML	8–16	2.5 – 3.5	2.5 – 3.5	2.5 – 3.5	10.0	4.0 2.0	3.0 2.0	1.0 0.5	ML										
LO	0–7	1.5 – 3.5	2.0 – 3.5	2.0 – 3.5	10.0	4.0 2.0	3.0 2.0	2.0 1.0	LO										
<b>Radar:</b> APQ-144				<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>													
ECCM:	3			RWR:	C														
Arcs:	120+			DDS:	D														
Search:	Gr. Nav. (475)			DJM:	C4														
Track:	Gr. Attack (250)			AJM:	C4														
Lock-On:	8			BJM:	B3														
<b>Guns:</b>	—			<b>Technology:</b>		<b>Load Point Limits:</b>													
To Hit:	—			LPI Radar, TFR-B, and TV/IR Optics		CL : 0–64													
Ammunition:	—					1/2: 65–88													
Gunsight:	—					<b>Weight Limit:</b> 75,000													
Ranging:	—					DT : 89+													
AtA/AtG:	—					<b>Station</b> Limit Allowed Loads													
<b>Bomb System:</b>	Advanced			1–3 26,000 RL FT															
<b>Notes:</b>																			
1. The Rockwell B-1A Lancer is a strategic nuclear bomber.																			
2. This is a variable-geometry aircraft with allowed geometries of forward, mid, and aft. The geometry changes automatically at the end of each turn according to the speed. The data shown here are for the forward geometry and are used if the speed is 3.5 or less.																			
3. High bleed rate (HBR). High transonic drag (HTD). Low roll rate (LRR). Poor supersonic maneuverability (PSSM). Rapid acceleration (RA).																			
4. DDS capacity is 250 decoys.																			
<b>VPs:</b> 90/60/30/15										v1.0000000 0000-00-00T00:00:00									

<b>B-1A</b>								<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator													
								<b>Maneuver HFPs/DPs:</b>													
<b>Power APs/DPs/FPs:</b> OOOO								LR/DR	1.0	2.0											
CL 1/2 DT Fuel								VR	1.5												
AB	3.5	2.5	1.5	36.0																	
M	2.5	2.0	1.0	9.0																	
N	0.0	0.0	0.0	4.0																	
I	0.5	1.0	1.0	1.0																	
SPBR	1.0	1.0	1.0	—																	
								Cruise Speed:	5.0	Restr. Arcs:	-										
								Climb Speed:	4.5	Blind Arcs:	90-										
								Visibility:	11	Internal Fuel:	9800										
								Size:	-2	AtA Refuel:	Yes										
								Vulnerability:	+1	Ejection Seat:	Adv										
								Rolling maneuvers only if CL.													
<b>Speeds and Ceilings</b>								<b>Climb Capabilities</b>													
Alt. Band	Conf. Ceil.	CL 55	1/2 48	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band												
EH+	46+	3.0 – 5.0	3.0 – 5.0	—	13.0	1.0 0.5	0.5 0.0	— —	EH+												
VH	36–45	3.0 – 5.0	3.0 – 5.0	3.0 – 5.0	12.0	1.0 1.0	0.5 0.5	0.5 —	VH												
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	11.0	2.0 1.0	1.0 0.5	0.5 0.5	HI												
MH	17–25	2.5 – 5.0	2.5 – 5.0	2.5 – 5.0	11.0	3.0 1.0	2.0 1.0	1.0 0.5	MH												
ML	8–16	2.5 – 5.0	2.5 – 5.0	2.5 – 5.0	10.0	4.0 2.0	3.0 2.0	1.0 0.5	ML												
LO	0–7	1.5 – 5.0	2.0 – 5.0	2.0 – 5.0	10.0	4.0 2.0	3.0 2.0	2.0 1.0	LO												
<b>Radar:</b> APQ-144				<b>ECM:</b> IFF				<b>Weapon Stations Diagram:</b>													
ECCM:	3	RWR:	C																		
Arcs:	120+	DDS:	D																		
Search:	Gr. Nav. (475)	DJM:	C4																		
Track:	Gr. Attack (250)	AJM:	C4																		
Lock-On:	8	BJM:	B3																		
<b>Guns:</b> —				<b>Technology:</b>				<b>Load Point Limits:</b>													
To Hit:	—	LPI Radar, TFR-B, and TV/IR Optics									CL : 0–64 1/2: 65–88										
Ammunition:	—									<b>Weight Limit:</b> 75,000 DT : 89+											
Gunsight:	—									<b>Station</b> Limit Allowed Loads											
Ranging:	—									1–3 26,000 RL FT											
AtA/AtG:	—									<b>Load Notes:</b>											
<b>Bomb System:</b> Advanced																					
<b>Notes:</b>																					
1. The Rockwell B-1A Lancer is a strategic nuclear bomber. 2. This is a variable-geometry aircraft with allowed geometries of forward, mid, and aft. The geometry changes automatically at the end of each turn according to the speed. The data shown here are for the mid geometry and are used if the speed is 4.0 to 5.0. 3. High bleed rate (HBR). Low roll rate (LRR). Poor supersonic maneuverability (PSSM). Rapid acceleration (RA). 4. DDS capacity is 250 decoys.																					
<b>VPs:</b> 90/60/30/15								v1.0000000 0000-00-00T00:00:00													

<b>B-1A</b>								<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator															
								<b>Maneuver HFPs/DPs:</b>															
<b>Power APs/DPs/FPs:</b> OOOO								LR/DR	1.0	2.0													
CL 1/2 DT Fuel								VR		1.5													
AB	3.5	2.5	1.5	36.0																			
M	2.5	2.0	1.0	9.0																			
N	0.0	0.0	0.0	4.0																			
I	0.5	1.0	1.0	1.0																			
SPBR	1.0	1.0	1.0	—																			
								Cruise Speed:	5.0	Restr. Arcs:	-												
								Climb Speed:	4.5	Blind Arcs:	90–												
								Visibility:	11	Internal Fuel:	9800												
								Size:	-2	AtA Refuel:	Yes												
								Vulnerability:	+1	Ejection Seat:	Adv												
								Rolling maneuvers only if CL.															
<b>Speeds and Ceilings</b>								<b>Climb Capabilities</b>															
Alt. Band	Conf. Ceil.	CL 55	1/2 48	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band														
EH+	46+	3.0 – 14.0	3.0 – 12.0	—	15.0	1.0 0.5	0.5 0.0	— —	EH+														
VH	36–45	3.0 – 14.0	3.0 – 12.0	3.0 – 11.0	15.0	1.0 1.0	0.5 0.5	0.5 —	VH														
HI	26–35	2.5 – 12.0	3.0 – 11.0	3.0 – 10.0	14.0	2.0 1.0	1.0 0.5	0.5 0.5	HI														
MH	17–25	2.5 – 10.0	2.5 – 9.0	2.5 – 8.0	13.0	3.0 1.0	2.0 1.0	1.0 0.5	MH														
ML	8–16	2.5 – 8.0	2.5 – 7.0	2.5 – 6.5	11.0	4.0 2.0	3.0 2.0	1.0 0.5	ML														
LO	0–7	2.0 – 6.5	2.0 – 6.0	2.0 – 5.5	10.0	4.0 2.0	3.0 2.0	2.0 1.0	LO														
<b>Radar:</b> APQ-144				<b>ECM:</b> IFF				<b>Weapon Stations Diagram:</b>															
ECCM:	3	RWR:	C																				
Arcs:	120+	DDS:	D																				
Search:	Gr. Nav. (475)	DJM:	C4																				
Track:	Gr. Attack (250)	AJM:	C4																				
Lock-On:	8	BJM:	B3																				
<b>Guns:</b> —				<b>Technology:</b> LPI Radar, TFR-B, and TV/IR Optics				<b>Load Point Limits:</b> CL : 0–64 1/2: 65–88															
To Hit:	—					<b>Weight Limit:</b> 75,000 DT : 89+																	
Ammunition:	—					<b>Station</b> Limit Allowed Loads 1–3 26,000 RL FT																	
Gunsight:	—					<b>Load Notes:</b>																	
Ranging:	—					1. Stations 1–3 are internal bays and may each carry a rotary launcher with eight AGM-68A SRAM nuclear ASM or eight B43/B61 nuclear BB or an 11,200L FT (960 fuel points). 2. As an exception to the normal rules, internal stores and fuel contribute 1 load point for each 1,000 of weight or 50 fuel points. A return mission will typically require leaving the target with at least 3200 fuel points (64 load points).																	
AtA/AtG:	—																						
<b>Bomb System:</b> Advanced																							
<b>Notes:</b>																							
1. The Rockwell B-1A Lancer is a strategic nuclear bomber. 2. This is a variable-geometry aircraft with allowed geometries of forward, mid, and aft. The geometry changes automatically at the end of each turn according to the speed. The data shown here are for the aft geometry and are used if the speed is 5.5 or more. 3. High bleed rate (HBR). Low roll rate (LRR). Low transonic drag (LTD). Poor supersonic maneuverability (PSSM). Rapid acceleration (RA). 4. DDS capacity is 250 decoys.																							
<b>VPs:</b> 90/60/30/15								v1.0000000 0000-00-00T00:00:00															

<b>B-1B Lancer</b>							<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator				
<b>Power APs/DPs/FPs:</b> OOOO							<b>Maneuver HFPs/DPs:</b>				
CL 1/2 DT Fuel							LR/DR 1.0 2.0				
AB 3.5 2.5 1.5 36.0							VR 1.5				
M 2.5 2.0 1.0 9.0							<b>Turn DPs:</b>				
N 0.0 0.0 0.0 4.0								CL 1/2 DT			
I 0.5 1.0 1.0 1.0								TT 3.0 3.0 4.0			
SPBR 1.0 1.0 1.0 —								HT 5.0 5.0 6.0			
								BT 6.0 7.0 8.0			
								ET — — —			
								Rolling maneuvers only if CL.			
<b>Speeds and Ceilings</b>											
Alt. Band	Conf. Ceil.	CL 55	1/2 48	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	3.0 – 3.5	3.0 – 3.5	—	13.0	1.0 0.5	0.5 0.0	— —	EH+		
VH	36–45	3.0 – 3.5	3.0 – 3.5	3.0 – 3.5	12.0	1.0 1.0	0.5 0.5	0.5 —	VH		
HI	26–35	2.5 – 3.5	3.0 – 3.5	3.0 – 3.5	11.0	2.0 1.0	1.0 0.5	0.5 0.5	HI		
MH	17–25	2.5 – 3.5	2.5 – 3.5	2.5 – 3.5	11.0	3.0 1.0	2.0 1.0	1.0 0.5	MH		
ML	8–16	2.5 – 3.5	2.5 – 3.5	2.5 – 3.5	10.0	4.0 2.0	3.0 2.0	1.0 0.5	ML		
LO	0–7	1.5 – 3.5	2.0 – 3.5	2.0 – 3.5	10.0	4.0 2.0	3.0 2.0	2.0 1.0	LO		

<b>Radar:</b> APQ-164	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>										
ECCM: 3	RWR: D											
Arcs: 120+	DDS: D											
Search: Gr. Nav. (475)	DJM: C4											
Track: Gr. Attack (250)	AJM: C4											
Lock-On: 8	BJM: D4											
<b>Guns:</b> —	<b>Technology:</b> TFR-B, Stealth (2), LPI Radar, and Towed Decoy (+2)	<b>Load Point Limits:</b> CL : 0–64 1/2: 65–88										
To Hit: —		<b>Weight Limit:</b> 75,000 DT : 89+										
Ammunition: —		<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>								
Gunsight: —		1–3 and 9–11	7,000	ASM BB FT OP/LP								
Ranging: —		4 and 8	3,500	ASM BB								
AtA/AtG: —		5–7	26,000	CBM MPRL CSRL FT								
<b>Bomb System:</b> Advanced		<b>Load Notes:</b>										
<b>Notes:</b>		1. Stations 1–3 and 9–11 are the fuselage stations. 2. Stations 4 and 8 are the wing-glove stations. 3. Stations 5 to 7 are internal bays and may each carry a MPRL, CBM, or 11,200L FT (960 fuel points). Stations 5 and 6 may be combined to carry a CSRL and a 5,600L FT (480 fuel points). 4. See the extended notes for load options and restrictions for the MPRL, CBM, and CSRL. 5. Station 1 may carry an AAQ-33 Sniper DP/LP. 6. As an exception to the normal rules, internal stores and fuel contribute 1 load point for each 1,000 of weight or 50 fuel points. A return mission will typically require leaving the target with at least 3200 fuel points (64 load points).										
		<b>VPs:</b> 100/67/33/17										v1.0000000 0000-00-00T00:00:00

<b>B-1B Lancer</b>								<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator			
<b>Power APs/DPs/FPs:</b> OOOO								<b>Maneuver HFPs/DPs:</b>			
CL 1/2 DT Fuel								LR/DR	1.0	2.0	
AB 3.5 2.5 1.5 36.0								VR		1.5	
M 2.5 2.0 1.0 9.0								<b>Turn DPs:</b>			
N 0.0 0.0 0.0 4.0								CL	1/2	DT	
I 0.5 1.0 1.0 1.0								TT	3.0	4.0	5.0
SPBR 1.0 1.0 1.0 —								HT	5.0	6.0	7.0
								BT	7.0	7.0	8.0
								ET	—	—	—
								Rolling maneuvers only if CL.			
<b>Speeds and Ceilings</b>											
Alt. Band	Conf. Ceil.	CL 55	1/2 48	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	3.0 – 5.0	3.0 – 5.0	—	13.0	1.0 0.5	0.5 0.0	— —	EH+		
VH	36–45	3.0 – 5.0	3.0 – 5.0	3.0 – 5.0	12.0	1.0 1.0	0.5 0.5	0.5 —	VH		
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	11.0	2.0 1.0	1.0 0.5	0.5 0.5	HI		
MH	17–25	2.5 – 5.0	2.5 – 5.0	2.5 – 5.0	11.0	3.0 1.0	2.0 1.0	1.0 0.5	MH		
ML	8–16	2.5 – 5.0	2.5 – 5.0	2.5 – 5.0	10.0	4.0 2.0	3.0 2.0	1.0 0.5	ML		
LO	0–7	1.5 – 5.0	2.0 – 5.0	2.0 – 5.0	10.0	4.0 2.0	3.0 2.0	2.0 1.0	LO		

<b>Radar:</b> APQ-164	<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>										
ECCM: 3	RWR: D											
Arcs: 120+	DDS: D											
Search: Gr. Nav. (475)	DJM: C4											
Track: Gr. Attack (250)	AJM: C4											
Lock-On: 8	BJM: D4											
<b>Guns:</b> —	<b>Technology:</b> TFR-B, Stealth (2), LPI Radar, and Towed Decoy (+2)	<b>Load Point Limits:</b> CL : 0–64 1/2: 65–88										
To Hit: —		<b>Weight Limit:</b> 75,000 DT : 89+										
Ammunition: —		<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>								
Gunsight: —		1–3 and 9–11	7,000	ASM BB FT OP/LP								
Ranging: —		4 and 8	3,500	ASM BB								
AtA/AtG: —		5–7	26,000	CBM MPRL CSRL FT								
<b>Bomb System:</b> Advanced		<b>Load Notes:</b>										
<b>Notes:</b>		1. Stations 1–3 and 9–11 are the fuselage stations. 2. Stations 4 and 8 are the wing-glove stations. 3. Stations 5 to 7 are internal bays and may each carry a MPRL, CBM, or 11,200L FT (960 fuel points). Stations 5 and 6 may be combined to carry a CSRL and a 5,600L FT (480 fuel points). 4. See the extended notes for load options and restrictions for the MPRL, CBM, and CSRL. 5. Station 1 may carry an AAQ-33 Sniper DP/LP. 6. As an exception to the normal rules, internal stores and fuel contribute 1 load point for each 1,000 of weight or 50 fuel points. A return mission will typically require leaving the target with at least 3200 fuel points (64 load points).										
		<b>VPs:</b> 100/67/33/17										v1.0000000 0000-00-00T00:00:00

<b>B-1B Lancer</b>								<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator			
								<b>Maneuver HFPs/DPs:</b>			
								LR/DR	1.0	2.0	
								VR	—	1.5	
								<b>Turn DPs:</b>			
								CL	1/2	DT	
								TT	4.0	5.0	5.0
								HT	6.0	7.0	7.0
								BT	7.0	8.0	9.0
								ET	—	—	—
								Rolling maneuvers only if CL.			
<b>Speeds and Ceilings</b>											
Alt. Band	Conf. Ceil.	CL 55	1/2 48	DT 40	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band		
EH+	46+	3.0 – 8.0	3.0 – 7.5	—	13.0	1.0 0.5	0.5 0.0	— —	EH+		
VH	36–45	3.0 – 8.0	3.0 – 7.5	3.0 – 6.5	12.0	1.0 1.0	0.5 0.5	0.5 —	VH		
HI	26–35	2.5 – 8.5	3.0 – 8.0	3.0 – 7.5	11.0	2.0 1.0	1.0 0.5	0.5 0.5	HI		
MH	17–25	2.5 – 8.0	2.5 – 7.5	2.5 – 7.0	11.0	3.0 1.0	2.0 1.0	1.0 0.5	MH		
ML	8–16	2.5 – 7.5	2.5 – 7.0	2.5 – 6.5	10.0	4.0 2.0	3.0 2.0	1.0 0.5	ML		
LO	0–7	2.0 – 7.0	2.0 – 6.5	2.0 – 6.0	10.0	4.0 2.0	3.0 2.0	2.0 1.0	LO		
<b>Radar:</b> APQ-164				<b>ECM:</b> IFF	<b>Weapon Stations Diagram:</b>						
ECCM:	3	RWR:	D	DDS:							
Arcs:	120+	DJM:	C4	AJM:							
Search:	Gr. Nav. (475)	BJM:	D4								
Track:	Gr. Attack (250)										
Lock-On:	8										
<b>Guns:</b> —				<b>Technology:</b> TFR-B, Stealth (2), LPI Radar, and Towed Decoy (+2)				<b>Load Point Limits:</b> CL : 0–64 1/2: 65–88			
To Hit:	—								<b>Weight Limit:</b> 75,000 DT : 89+		
Ammunition:	—										
Gunsight:	—								<b>Station</b> Limit Allowed Loads		
Ranging:	—								1–3 and 9–11	7,000	ASM BB FT OP/LP
AtA/AtG:	—								4 and 8	3,500	ASM BB
<b>Bomb System:</b> Advanced											
<b>Notes:</b>								<b>5–7</b> 26,000 CBM MPRL CSRL FT			
1. The Rockwell B-1B Lancer is a strategic nuclear and conventional bomber that also serves as a long-endurance close-support aircraft. Its nickname is "Bone".				<b>Load Notes:</b>				1. Stations 1–3 and 9–11 are the fuselage stations.			
2. This is a variable-geometry aircraft with allowed geometries of forward, mid, and aft. The geometry changes automatically at the end of each turn according to the speed. The data shown here are for the aft geometry and are used if the speed is 5.5 or more.				2. Stations 4 and 8 are the wing-glove stations.				3. Stations 5 to 7 are internal bays and may each carry a MPRL, CBM, or 11,200L FT (960 fuel points). Stations 5 and 6 may be combined to carry a CSRL and a 5,600L FT (480 fuel points).			
3. High bleed rate (HBR). Low roll rate (LRR). Low transonic drag (LTD). Poor supersonic maneuverability (PSSM). Rapid acceleration (RA).				4. See the extended notes for load options and restrictions for the MPRL, CBM, and CSRL.				5. Station 1 may carry an AAQ-33 Sniper DP/LP.			
4. Tail Radar. Equipped with a ALQ-153 tail radar with ECCM 2, arc 60–, search 40–20, track 25–8, and lock-on 8–.				6. As an exception to the normal rules, internal stores and fuel contribute 1 load point for each 1,000 of weight or 50 fuel points. A return mission will typically require leaving the target with at least 3200 fuel points (64 load points).							
5. DDS capacity is 250 decoys.											
6. DDS/DJM/AJM/BJM from 1991. TFR-B from 1992. Towed decoy technology from 1998.											
7. Stealth technology is reduced to 1 if the OP/DP is carried and 0 if any other external store is carried.											
<b>VPs:</b> 100/67/33/17								v1.0000000 0000-00-00T00:00:00			

<b>B-1R Lancer</b>								<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator								
								<b>Maneuver HFPs/DPs:</b>								
<b>Power APs/DPs/FPs:</b> OOOO								LR/DR	1.0	2.0						
CL 1/2 DT Fuel								VR		1.5						
AB	4.0	3.0	2.0	42.0												
M	3.5	2.5	1.5	12.0												
N	0.0	0.0	0.0	5.0												
I	0.5	1.0	1.0	1.0												
SPBR	1.0	1.0	1.0	—												
								Cruise Speed:	5.5	Restr. Arcs:	-					
								Climb Speed:	4.5	Blind Arcs:	90–					
								Visibility:	11	Internal Fuel:	9800					
								Size:	-2	AtA Refuel:	Yes					
								Vulnerability:	+1	Ejection Seat:	Adv					
								Rolling maneuvers only if CL.								
<b>Speeds and Ceilings</b>								<b>Climb Capabilities</b>								
Alt. Band	Conf. Ceil.	CL 57	1/2 50	DT 42	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band							
EH+	46+	3.0 – 3.5	3.0 – 3.5	—	13.0	1.0 0.5	0.5 0.0	— —	EH+							
VH	36–45	3.0 – 3.5	3.0 – 3.5	3.0 – 3.5	12.0	1.0 1.0	0.5 0.5	0.5 —	VH							
HI	26–35	2.5 – 3.5	3.0 – 3.5	3.0 – 3.5	11.0	2.5 1.5	1.5 1.0	0.5 0.5	HI							
MH	17–25	2.5 – 3.5	2.5 – 3.5	2.5 – 3.5	11.0	3.5 1.5	2.5 1.5	1.0 0.5	MH							
ML	8–16	2.5 – 3.5	2.5 – 3.5	2.5 – 3.5	10.0	4.5 3.0	3.5 3.0	1.5 1.0	ML							
LO	0–7	1.5 – 3.5	2.0 – 3.5	2.0 – 3.5	10.0	5.0 3.0	3.5 3.0	2.5 1.5	LO							
<b>Radar:</b>				<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>										
ECCM:	4	RWR:	D	DDS:	D											
Arcs:	120+	DJM:	D5	AJM:	D5											
Search:	360–60	BJM:	D5													
Track:	300–60															
Lock-On:	8															
<b>Guns:</b> —				<b>Technology:</b>				<b>Load Point Limits:</b>								
To Hit:	—	Auto-Track, Look-Down Radar,	LPI Radar, Multi-Target (6),	Target ID, TFR-B, Towed Decoy (+2), and Track-While-Scan (100)	—	CL : 0–64	1/2: 65–88									
Ammunition:	—	—	—	—	—	<b>Weight Limit:</b> 75,000				DT : 89+						
Gunsight:	—	—	—	—	—	<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>								
Ranging:	—	—	—	—	—	1–3 and 9–11	7,000	MDR AHM BB BS BG ASM OP/LP								
AtA/AtG:	—	—	—	—	—	4 and 8	3,500	MDR AHM BB BS BG ASM								
<b>Bomb System:</b> Advanced				—	—	5–7	26,000	CBM MPRL FT								
<b>Notes:</b>																
1. The Rockwell B-1R Lancer is a strategic conventional bomber. Its nickname is "Bone".																
2. This is a variable-geometry aircraft with allowed geometries of forward, mid, and aft. The geometry changes automatically at the end of each turn according to the speed. The data shown here are for the forward geometry and are used if the speed is 3.5 or less.																
3. High bleed rate (HBR). High transonic drag (HTD). Low roll rate (LRR). Poor supersonic maneuverability (PSSM). Rapid acceleration (RA).																
4. DDS capacity is 250 decoys.																
5. Dual-Mode Radar. The radar may also function as a navigation/attack radar with a search range of 475, tracking range of 250, and a lock-on roll of 8–.																
<b>VPs:</b> 110/73/37/18								v1.0000000 0000-00-00T00:00:00								

<b>B-1R Lancer</b>								<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator										
								<b>Maneuver HFPs/DPs:</b>										
<b>Power APs/DPs/FPs:</b> OOOO								LR/DR	1.0	2.0								
CL    1/2    DT    Fuel								VR		1.5								
AB	4.0	3.0	2.0	42.0														
M	3.5	2.5	1.5	12.0														
N	0.0	0.0	0.0	5.0														
I	0.5	1.0	1.0	1.0														
SPBR	1.0	1.0	1.0	—														
								Cruise Speed:	5.5	Restr. Arcs:	-							
								Climb Speed:	4.5	Blind Arcs:	90-							
								Visibility:	11	Internal Fuel:	9800							
								Size:	-2	AtA Refuel:	Yes							
								Vulnerability:	+1	Ejection Seat:	Adv							
								Rolling maneuvers only if CL.										
<b>Speeds and Ceilings</b>								<b>Climb Capabilities</b>										
Alt. Band	Conf. Ceil.	CL 57	1/2 50	DT 42	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band									
EH+	46+	3.0 – 5.0	3.0 – 5.0	—	13.0	1.0 0.5	0.5 0.0	— —	EH+									
VH	36–45	3.0 – 5.0	3.0 – 5.0	3.0 – 5.0	12.0	1.0 1.0	0.5 0.5	0.5 —	VH									
HI	26–35	2.5 – 5.0	3.0 – 5.0	3.0 – 5.0	11.0	2.5 1.5	1.5 1.0	0.5 0.5	HI									
MH	17–25	2.5 – 5.0	2.5 – 5.0	2.5 – 5.0	11.0	3.5 1.5	2.5 1.5	1.0 0.5	MH									
ML	8–16	2.5 – 5.0	2.5 – 5.0	2.5 – 5.0	10.0	4.5 3.0	3.5 3.0	1.5 1.0	ML									
LO	0–7	1.5 – 5.0	2.0 – 5.0	2.0 – 5.0	10.0	5.0 3.0	3.5 3.0	2.5 1.5	LO									
<b>Radar:</b>				<b>ECM:</b>	IFF	<b>Weapon Stations Diagram:</b>												
ECCM:	4	RWR:	D	DDS:	D													
Arcs:	120+	DJM:	D5	AJM:	D5													
Search:	360–60	BJM:	D5															
Track:	300–60																	
Lock-On:	8																	
<b>Guns:</b> —				<b>Technology:</b>				<b>Load Point Limits:</b>										
To Hit:	—	Auto-Track, Look-Down Radar,	LPI Radar, Multi-Target (6),	Target ID, TFR-B, Towed Decoy	(+2), and Track-While-Scan (100)					CL : 0–64								
Ammunition:	—									1/2: 65–88								
Gunsight:	—					<b>Weight Limit:</b> 75,000				DT : 89+								
Ranging:	—																	
AtA/AtG:	—					<b>Station</b>	<b>Limit</b>	<b>Allowed Loads</b>										
<b>Bomb System:</b> Advanced						1–3 and 9–11	7,000	MDR AHM BB BS BG ASM OP/LP										
						4 and 8	3,500	MDR AHM BB BS BG ASM										
						5–7	26,000	CBM MPRL FT										
<b>Notes:</b>																		
1. The Rockwell B-1R Lancer is a strategic conventional bomber. Its nickname is "Bone".																		
2. This is a variable-geometry aircraft with allowed geometries of forward, mid, and aft. The geometry changes automatically at the end of each turn according to the speed. The data shown here are for the mid geometry and are used if the speed is 4.0 to 5.0.																		
3. High bleed rate (HBR). Low roll rate (LRR). Poor supersonic maneuverability (PSSM). Rapid acceleration (RA).																		
4. DDS capacity is 250 decoys.																		
5. Dual-Mode Radar. The radar may also function as a navigation/attack radar with a search range of 475, tracking range of 250, and a lock-on roll of 8–.																		
<b>VPs:</b> 110/73/37/18								v1.0000000 0000-00-00T00:00:00										

<b>B-1R Lancer</b>										<b>Crew:</b> Pilot, Copilot, Offensive Systems Operator, and Defensive Systems Operator
<b>Power APs/DPs/FPs:</b> OOOO										<b>Maneuver HFPs/DPs:</b>
CL 1/2 DT Fuel										LR/DR 1.0 2.0
AB 4.0 3.0 2.0 42.0										VR 1.5
M 3.5 2.5 1.5 12.0										
N 0.0 0.0 0.0 5.0										
I 0.5 1.0 1.0 1.0										
SPBR 1.0 1.0 1.0 —										
										<b>Turn DPs:</b>
										CL 1/2 DT
										TT 4.0 5.0 5.0
										HT 6.0 7.0 7.0
										BT 7.0 8.0 9.0
										ET — — —
										Rolling maneuvers only if CL.

<b>Speeds and Ceilings</b>					<b>Climb Capabilities</b>				
Alt. Band	Conf. Ceil.	CL 57	1/2 50	DT 42	Dive Speed	CL AB Oth	1/2 AB Oth	DT AB Oth	Alt. Band
EH+	46+	3.0 – 14.0	3.0 – 12.5	—	15.0	1.0 0.5	0.5 0.0	— —	EH+
VH	36–45	3.0 – 14.0	3.0 – 12.5	3.0 – 11.5	15.0	1.0 1.0	0.5 0.5	0.5 —	VH
HI	26–35	2.5 – 12.5	3.0 – 11.5	3.0 – 10.5	14.0	2.5 1.5	1.5 1.0	0.5 0.5	HI
MH	17–25	2.5 – 11.0	2.5 – 10.0	2.5 – 9.0	13.0	3.5 1.5	2.5 1.5	1.0 0.5	MH
ML	8–16	2.5 – 9.0	2.5 – 8.5	2.5 – 7.5	11.0	4.5 3.0	3.5 3.0	1.5 1.0	ML
LO	0–7	2.0 – 7.5	2.0 – 7.0	2.0 – 6.5	10.0	5.0 3.0	3.5 3.0	2.5 1.5	LO

<b>Radar:</b> ECCM: 4 Arcs: 120+ Search: 360–60 Track: 300–60 Lock-On: 8	<b>ECM:</b> IFF RWR: D DDS: D DJM: D5 AJM: D5 BJM: D5	<b>Weapon Stations Diagram:</b>
<b>Guns:</b> — To Hit: — Ammunition: — Gunsight: — Ranging: — AtA/AtG: —	<b>Technology:</b> Auto-Track, Look-Down Radar, LPI Radar, Multi-Target (6), Target ID, TFR-B, Towed Decoy (+2), and Track-While-Scan (100)	<b>Load Point Limits:</b> CL : 0–64 1/2: 65–88 <b>Weight Limit:</b> 75,000 DT : 89+
<b>Bomb System:</b> Advanced		<b>Station</b> Limit Allowed Loads 1–3 and 9–11 7,000 MDR AHM BB BS BG ASM OP/LP 4 and 8 3,500 MDR AHM BB BS BG ASM 5–7 26,000 CBM MPRL FT
<b>Notes:</b>		<b>Load Notes:</b> 1. Stations 1–3 and 9–11 are the fuselage stations. 2. Stations 4 and 8 are the wing-glove stations. 3. Stations 5 to 7 are internal bays and may each carry any internal load allowed for the B-1B. 4. Stations 1–4 and 8–11 may carry any BB, BG, BG, or ASM weapon that can be carried internally or a MDR with two AIM-120 AHMs. Stations 1–3 and 9–11 may each carry two 2,000 lb weapons or six 500 lb weapons. Stations 4 and 8 may each carry one 2,000 lb weapon or four 500 lb weapons. Station 1 may carry an AAQ-33 Sniper OP/DP. 5. As an exception to the normal rules, internal stores and fuel contribute 1 load point for each 1,000 of weight or 50 fuel points. A return mission will typically require leaving the target with at least 3200 fuel points (64 load points).
		<b>VPs:</b> 110/73/37/18 v1.0000000 0000-00-00T00:00:00