

Douglas AD/A-1 Skyraider

The Douglas AD Skyraider is a carrier-capable attack aircraft. Its development started during WWII, but it entered service with the USN in 1946. It was a large, single-engined propeller-driven aircraft. In 1962, it was redesignated as the A-1.

- A-1H
- AD-7
- A-1J

The Skyraider was initially armed with two 20 mm M3 cannon in the wings, but after experience in the early part of the Korean War this was increased to four in the AD-4 and subsequent versions. Later versions also had additional armor. It could also carry a heavy load on its centerline and underwing weapon stations.

In addition to the attack versions, it was adapted for radar search, anti-submarine, night attack, ECM, and night attack.

Early versions were a mainstay of the USN in the Korean War and later versions served in early part of the US involvement in the Vietnam War with the USN and USAF. It also saw limited service with the USMC. Most attack versions were single-seat, but the AD-5/A-1E had side-by-side seating for a pilot and copilot and was used by the USAF during Operation Farm Gate with a USAF pilot and nominal South Vietnamese copilot. Attack versions were also used by RAAF, Armée de l'Air, and the air forces of Cambodia, Chad, and Gabon. The AD-4W radar-search version also served with the RN as the Skyraider AEW.1.

From 1967, USAF A-1s were equipped with the Stanley rocket extraction system. While not an ejection seat, this system used a rocket to pull the pilot out of the cockpit when bailing out.

A typical air-to-ground load in the Korean War might be 500 lb M64, 1000 lb M65, or 2000 lb M66 GP bombs or 750 lb BLU-1 napalm bombs on the centerline and inner wing pylons and HVAR rockets or 100 lb M30, 250 lb M57 bombs on the outer wing pylons.

A typical air-to-ground load in the Vietnam War might include 500 lb Mk 82 or 1000 lb Mk 83 GP bombs or 750 lb BLU-27 napalm bombs on the centerline and inner wing station, a single SUU-11 gun pod on an inner-wing station, and 100 lb M47 WP bombs, 250 lb Mk 81 GP bombs, 500 lb BLU-11 napalm bombs, LAU-3 or LAU-68 70 mm rocket pods, CBU-25 cluster bomb dispensers on the outer wing pylons.

ADCs are provided for:

- AD-4
- AD-5
- A-1E
- AD-6

AD-4 Skyraider										Crew: Pilot														
										Maneuver HFPs/DPs:														
LR/DR		1.0		2.0																				
VR				1.0																				
Power APs/DPs/FPs: ☉										Turn DPs:														
CL		1/2		DT		Fuel		CL		1/2		DT												
FT		1.5		1.0		1.0		0.5		TT		0.0		0.0										
HT		0.5		0.5		0.5		0.2		HT		0.0		1.0										
N		0.0		0.0		0.0		0.1		BT		1.0		2.0										
I		0.5		0.5		0.5		0.0		ET		—		—										
SPBR		0.5		1.0		1.0		—																
					Cruise Speed: 2.0 Restr. Arcs: —																			
					Climb Speed: 1.5 Blind Arcs: 30–																			
					Visibility: 6 Internal Fuel: 120																			
					Size: +0 AtA Refuel: No																			
					Vulnerability: +1 Ejection Seat: None																			
Speeds and Ceilings										Climb Capabilities														
Alt. Band		Conf. Ceil.		CL 30		1/2 24		DT 13		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band						
EH+		46+		—		—		—		—		—		—		—		EH+						
VH		36–45		—		—		—		—		—		—		—		VH						
HI		26–35		1.5 – 3.0		—		—		4.5		— 0.5		—		—		HI						
MH		17–25		1.5 – 3.0		1.5 – 2.5		1.5 – 2.0		4.5		— 0.5		— 0.5		— 0.5		MH						
ML		8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 1.0		— 0.5		— 0.5		ML						
LO		0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 1.0		— 1.0		— 0.5		LO						
Radar: —					ECM: IFF					Weapon Stations Diagram:														
ECCM: —					RWR: —																			
Arcs: —					DDS: —																			
Search: —					DJM: —																			
Track: —					AJM: —																			
Lock-On: —					BJM: —																			
Guns: Four 20 mm M3					Technology:					Load Point Limits: CL : 0–6														
To Hit: 5/4/3					None					1/2: 7–12														
Ammunition: 6.0										Weight Limit: 8,000 DT : 13+														
Gunsight: TT+0/HT+1/BT+2										Station Limit Allowed Loads														
Ranging: —										1–6 and 10–15 500 BB RK														
AtA/AtG: 5/6*										7 and 9 2,200 BB RK														
										8 2,200 BB														
Bomb System: Manual										Load Notes:														
Notes: 1. The Douglas AD-4 Skyraider is a propeller-driven, carrier-capable attack aircraft. It is propeller-driven, has a single engine, and is carrier-capable.					1. Stations 1 to 6 and 10 to 15 are closely spaced and have restrictions: a station adjacent to one other loaded with a store of more than 250 lb may only carry a store of 250 lb or less and a station between two others loaded with stores of more than 250 lb may not be used.																			
VPs: 7/5/2/1										v1 0000000 0000-00-00T00:00:00														

AD-5 Skyraider										Crew: Pilot and Copilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		2.0															
VR				1.0															
Turn DPs:																			
		CL		1/2		DT													
TT		0.0		0.0		0.0													
HT		0.0		1.0		1.0													
BT		1.0		1.0		2.0													
ET		—		—		—													
Power APs/DPs/FPs: ☹					Cruise Speed: 2.0					Restr. Arcs: —									
CL 1/2 DT Fuel					Climb Speed: 1.5					Blind Arcs: 30–									
FT 1.5 1.0 1.0 0.5					Visibility: 6					Internal Fuel: 120									
HT 0.5 0.5 0.5 0.2					Size: +0					AtA Refuel: No									
N 0.0 0.0 0.0 0.1					Vulnerability: +2					Ejection Seat: None									
I 0.5 0.5 0.5 0.0																			
SPBR 0.5 0.5 0.5 —																			
Speeds and Ceilings										Climb Capabilities									
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT		Alt.			
Band Ceil.		30		24		13		Speed		AB Oth		AB Oth		AB Oth		Band			
EH+ 46+		—		—		—		—		— —		— —		— —		EH+ 46+			
VH 36–45		—		—		—		—		— —		— —		— —		VH 36–45			
HI 26–35		1.5 – 3.0		—		—		4.5		— 0.5		— —		— —		HI 26–35			
MH 17–25		1.5 – 3.0		1.5 – 2.5		1.5 – 2.0		4.5		— 0.5		— 0.5		— 0.5		MH 17–25			
ML 8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 1.0		— 0.5		— 0.5		ML 8–16			
LO 0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 1.0		— 1.0		— 0.5		LO 0–7			
Radar: —					ECM: IFF					Weapon Stations Diagram:									
ECCM: —					RWR: —														
Arcs: —					DDS: —														
Search: —					DJM: —														
Track: —					AJM: —														
Lock-On: —					BJM: —														
Guns: Four 20 mm M3					Technology:					Load Point Limits:									
To Hit: 5/4/3					None					CL : 0–6									
Ammunition: 6.0										1/2: 7–12									
Gunsight: TT+0/HT+1/BT+2										Weight Limit: 8,000									
Ranging: —										DT : 13+									
AtA/AtG: 5/6*										Station Limit Allowed Loads									
Bomb System: Manual										1–6 and 10–15 500 BB RK RP									
										7 and 9 2,200 BB RK RP FT									
										8 2,200 BB FT									
										Load Notes:									
										1. Stations 1 to 6 and 10 to 15 are closely spaced and have restrictions: a station adjacent to one other loaded with a store of more than 250 lb may only carry a store of 250 lb or less and a station between two others loaded with stores of more than 250 lb may not be used.									

A-1E Skyraider										Crew: Pilot and Copilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		2.0															
VR				1.0															
Turn DPs:																			
		CL		1/2		DT													
TT		0.0		0.0		0.0													
HT		0.0		1.0		1.0													
BT		1.0		1.0		2.0													
ET		—		—		—													
Power APs/DPs/FPs: ☹					Cruise Speed: 2.0					Restr. Arcs: —									
CL 1/2 DT Fuel					Climb Speed: 1.5					Blind Arcs: 30–									
FT 1.5 1.0 1.0 0.5					Visibility: 6					Internal Fuel: 120									
HT 0.5 0.5 0.5 0.2					Size: +0					AtA Refuel: No									
N 0.0 0.0 0.0 0.1					Vulnerability: +2					Ejection Seat: None									
I 0.5 0.5 0.5 0.0																			
SPBR 0.5 0.5 0.5 —																			
Speeds and Ceilings										Climb Capabilities									
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT		Alt.			
Band Ceil.		30		24		13		Speed		AB Oth		AB Oth		AB Oth		Band			
EH+ 46+		—		—		—		—		— —		— —		— —		EH+			
VH 36–45		—		—		—		—		— —		— —		— —		VH			
HI 26–35		1.5 – 3.0		—		—		4.5		— 0.5		— —		— —		HI			
MH 17–25		1.5 – 3.0		1.5 – 2.5		1.5 – 2.0		4.5		— 0.5		— 0.5		— 0.5		MH			
ML 8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 1.0		— 0.5		— 0.5		ML			
LO 0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 1.0		— 1.0		— 0.5		LO			
Radar: —					ECM: IFF					Weapon Stations Diagram:									
ECCM: —					RWR: —														
Arcs: —					DDS: —														
Search: —					DJM: —														
Track: —					AJM: —														
Lock-On: —					BJM: —														
Guns: Four 20 mm M3					Technology:					Load Point Limits: CL : 0–6									
To Hit: 5/4/3					None					1/2: 7–12									
Ammunition: 6.0										Weight Limit: 8,000 DT : 13+									
Gunsight: TT+0/HT+1/BT+2										Station Limit Allowed Loads									
Ranging: —										1–6 and 10–15 500 BB RK RP									
AtA/AtG: 5/6*										7 and 9 2,200 BB RK RP FT									
Bomb System: Manual										8 2,200 BB FT									
Notes:										Load Notes:									
1. The Douglas A-1E Skyraider is a propeller-driven, carrier-capable attack aircraft. It was developed from the AD-4 and added a widened fuselage and cockpit with a copilot next to the pilot, additional armor, and omitted the lateral dive brakes. Prior 1962, it was designated AD-5.										1. Stations 1 to 6 and 10 to 15 are closely spaced and have restrictions: a station adjacent to one other loaded with a store of more than 250 lb may only carry a store of 250 lb or less and a station between two others loaded with stores of more than 250 lb may not be used.									
2. From 1967, equipped with the Stanley rocket extraction device which gives a –1 modifier when bailing out.																			
										VPs: 8/5/3/1									
										v1 0000000 0000-00-00T00:00:00									

AD-6 Skyraider										Crew: Pilot														
										Maneuver HFPs/DPs:														
LR/DR		1.0		2.0																				
VR				1.0																				
Power APs/DPs/FPs: ☉										Turn DPs:														
CL		1/2		DT		Fuel		CL		1/2		DT												
FT		1.5		1.0		1.0		0.5		TT		0.0		0.0										
HT		0.5		0.5		0.5		0.2		HT		0.0		1.0										
N		0.0		0.0		0.0		0.1		BT		1.0		2.0										
I		0.5		0.5		0.5		0.0		ET		—		—										
SPBR		0.5		1.0		1.0		—																
					Cruise Speed: 2.0					Restr. Arcs: —														
					Climb Speed: 1.5					Blind Arcs: 30–														
					Visibility: 6					Internal Fuel: 120														
					Size: +0					AtA Refuel: No														
					Vulnerability: +2					Ejection Seat: None														
Speeds and Ceilings										Climb Capabilities														
Alt. Band		Conf. Ceil.		CL 30		1/2 24		DT 13		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band						
EH+		46+		—		—		—		—		—		—		—		EH+						
VH		36–45		—		—		—		—		—		—		—		VH						
HI		26–35		1.5 – 3.0		—		—		4.5		— 0.5		—		—		HI						
MH		17–25		1.5 – 3.0		1.5 – 2.5		1.5 – 2.0		4.5		— 0.5		— 0.5		— 0.5		MH						
ML		8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 1.0		— 0.5		— 0.5		ML						
LO		0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 1.0		— 1.0		— 0.5		LO						
Radar: —					ECM: IFF					Weapon Stations Diagram:														
ECCM: —					RWR: —																			
Arcs: —					DDS: —																			
Search: —					DJM: —																			
Track: —					AJM: —																			
Lock-On: —					BJM: —																			
Guns: Four 20 mm M3					Technology:					Load Point Limits: CL : 0–6														
To Hit: 5/4/3					None					1/2: 7–12														
Ammunition: 6.0										Weight Limit: 8,000 DT : 13+														
Gunsight: TT+0/HT+1/BT+2										Station Limit Allowed Loads														
Ranging: —										1–6 and 10–15 500 BB RK RP														
AtA/AtG: 5/6*										7 and 9 2,200 BB RK RP FT														
										8 2,200 BB FT														
Bomb System: Manual										Load Notes:														
Notes: 1. The Douglas AD-6 Skyraider is a propeller-driven, carrier-capable attack aircraft. It was developed from the AD-5, but returned to the fuselage single-pilot cockpit configuration of the AD-4. In 1962, it was redesignated A-1H.					1. Stations 1 to 6 and 10 to 15 are closely spaced and have restrictions: a station adjacent to one other loaded with a store of more than 250 lb may only carry a store of 250 lb or less and a station between two others loaded with stores of more than 250 lb may not be used.																			
VPs: 8/5/3/1										v1 0000000 0000-00-00T00:00:00														

A-1H Skyraider										Crew: Pilot									
										Maneuver HFPs/DPs:									
LR/DR		1.0		2.0															
VR				1.0															
Power APs/DPs/FPs: ☹										Turn DPs:									
CL		1/2		DT		Fuel		CL		1/2		DT							
FT		1.5		1.0		1.0		0.5		TT		0.0		0.0					
HT		0.5		0.5		0.5		0.2		HT		0.0		1.0					
N		0.0		0.0		0.0		0.1		BT		1.0		2.0					
I		0.5		0.5		0.5		0.0		ET		—		—					
SPBR		0.5		1.0		1.0		—											
					Cruise Speed: 2.0					Restr. Arcs: —									
					Climb Speed: 1.5					Blind Arcs: 30–									
					Visibility: 6					Internal Fuel: 120									
					Size: +0					AtA Refuel: No									
					Vulnerability: +2					Ejection Seat: None									
Speeds and Ceilings										Climb Capabilities									
Alt. Band		Conf. Ceil.		CL 30		1/2 24		DT 13		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band	
EH+		46+		—		—		—		—		—		—		—		EH+	
VH		36–45		—		—		—		—		—		—		—		VH	
HI		26–35		1.5 – 3.0		—		—		4.5		— 0.5		—		—		HI	
MH		17–25		1.5 – 3.0		1.5 – 2.5		1.5 – 2.0		4.5		— 0.5		— 0.5		— 0.5		MH	
ML		8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 1.0		— 0.5		— 0.5		ML	
LO		0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 1.0		— 1.0		— 0.5		LO	
Radar: —					ECM: IFF					Weapon Stations Diagram:									
ECCM: —					RWR: —														
Arcs: —					DDS: —														
Search: —					DJM: —														
Track: —					AJM: —														
Lock-On: —					BJM: —														
Guns: Four 20 mm M3					Technology:					Load Point Limits: CL : 0–6									
To Hit: 5/4/3					None					1/2: 7–12									
Ammunition: 6.0										Weight Limit: 8,000 DT : 13+									
Gunsight: TT+0/HT+1/BT+2										Station Limit Allowed Loads									
Ranging: —										1–6 and 10–15 500 BB RK RP									
AtA/AtG: 5/6*										7 and 9 2,200 BB RK RP FT									
										8 2,200 BB FT									
Bomb System: Manual										Load Notes:									
Notes: 1. The Douglas A-1H Skyraider is a propeller-driven, carrier-capable attack aircraft. It was developed from the AD-5, but returned to the fuselage and single-pilot cockpit configuration of the AD-4. Prior to 1962, it was designated AD-6. 2. From 1967, equipped with the Stanley rocket extraction device which gives a –1 modifier when bailing out.					1. Stations 1 to 6 and 10 to 15 are closely spaced and have restrictions: a station adjacent to one other loaded with a store of more than 250 lb may only carry a store of 250 lb or less and a station between two others loaded with stores of more than 250 lb may not be used.														
VPs: 8/5/3/1										v1 0000000 0000-00-00T00:00:00									

AD-7 Skyraider										Crew: Pilot														
										Maneuver HFPs/DPs:														
LR/DR		1.0		2.0																				
VR				1.0																				
Power APs/DPs/FPs: ☹										Turn DPs:														
CL		1/2		DT		Fuel		CL		1/2		DT												
FT		1.5		1.0		1.0		0.5		TT		0.0		0.0										
HT		0.5		0.5		0.5		0.2		HT		0.0		1.0										
N		0.0		0.0		0.0		0.1		BT		1.0		2.0										
I		0.5		0.5		0.5		0.0		ET		—		—										
SPBR		0.5		1.0		1.0		—																
					Cruise Speed: 2.0 Restr. Arcs: —																			
					Climb Speed: 1.5 Blind Arcs: 30–																			
					Visibility: 6 Internal Fuel: 120																			
					Size: +0 AtA Refuel: No																			
					Vulnerability: +2 Ejection Seat: None																			
Speeds and Ceilings										Climb Capabilities														
Alt. Band		Conf. Ceil.		CL 30		1/2 24		DT 13		Dive Speed		CL AB Oth		1/2 AB Oth		DT AB Oth		Alt. Band						
EH+		46+		—		—		—		—		—		—		—		EH+						
VH		36–45		—		—		—		—		—		—		—		VH						
HI		26–35		1.5 – 3.0		—		—		4.5		— 0.5		—		—		HI						
MH		17–25		1.5 – 3.0		1.5 – 2.5		1.5 – 2.0		4.5		— 0.5		— 0.5		— 0.5		MH						
ML		8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 1.0		— 0.5		— 0.5		ML						
LO		0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 1.0		— 1.0		— 0.5		LO						
Radar: —					ECM: IFF					Weapon Stations Diagram:														
ECCM: —					RWR: —																			
Arcs: —					DDS: —																			
Search: —					DJM: —																			
Track: —					AJM: —																			
Lock-On: —					BJM: —																			
Guns: Four 20 mm M3					Technology:					Load Point Limits: CL : 0–6														
To Hit: 5/4/3					None					1/2: 7–12														
Ammunition: 6.0										Weight Limit: 8,000 DT : 13+														
Gunsight: TT+0/HT+1/BT+2										Station Limit Allowed Loads														
Ranging: —										1–6 and 10–15 500 BB RK RP														
AtA/AtG: 5/6*										7 and 9 2,200 BB RK RP FT														
Bomb System: Manual										8 2,200 BB FT														
Notes:										Load Notes:														
1. The Douglas AD-7 Skyraider is a propeller-driven, carrier-capable attack aircraft. It was developed from the AD-6. In 1962, it was redesignated A-1J.										1. Stations 1 to 6 and 10 to 15 are closely spaced and have restrictions: a station adjacent to one other loaded with a store of more than 250 lb may only carry a store of 250 lb or less and a station between two others loaded with stores of more than 250 lb may not be used.														
										VPs: 8/5/3/1										v1 0000000 0000-00-00T00:00:00				

A-1J Skyraider										Crew: Pilot							
										Maneuver HFPs/DPs:							
LR/DR		1.0		2.0													
VR				1.0													
Power APs/DPs/FPs: ☹										Turn DPs:							
CL		1/2		DT		Fuel		CL		1/2		DT					
FT		1.5		1.0		1.0		0.5		TT		0.0		0.0			
HT		0.5		0.5		0.5		0.2		HT		0.0		1.0			
N		0.0		0.0		0.0		0.1		BT		1.0		2.0			
I		0.5		0.5		0.5		0.0		ET		—		—			
SPBR		0.5		1.0		1.0		—									
					Cruise Speed: 2.0 Restr. Arcs: —												
					Climb Speed: 1.5 Blind Arcs: 30–												
					Visibility: 6 Internal Fuel: 120												
					Size: +0 AtA Refuel: No												
					Vulnerability: +2 Ejection Seat: None												
Speeds and Ceilings						Climb Capabilities											
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT		Alt.	
Band Ceil.		30		24		13		Speed		AB Oth		AB Oth		AB Oth		Band	
EH+		46+		—		—		—		—		—		—		EH+	
VH		36–45		—		—		—		—		—		—		VH	
HI		26–35		1.5 – 3.0		—		4.5		— 0.5		—		—		HI	
MH		17–25		1.5 – 3.0		1.5 – 2.5		1.5 – 2.0		4.5		— 0.5		— 0.5		MH	
ML		8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 1.0		— 0.5		ML	
LO		0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 1.0		— 0.5		LO	

Radar: —			ECM: IFF			Weapon Stations Diagram:								
ECCM: —			RWR: —											
Arcs: —			DDS: —											
Search: —			DJM: —											
Track: —			AJM: —											
Lock-On: —			BJM: —											
Guns: Four 20 mm M3			Technology:			Load Point Limits:			CL : 0–6					
To Hit: 5/4/3			None						1/2: 7–12					
Ammunition: 6.0						Weight Limit:			8,000 DT : 13+					
Gunsight: TT+0/HT+1/BT+2						Station			Limit			Allowed Loads		
Ranging: —						1–6 and 10–15			500			BB RK RP		
AtA/AtG: 5/6*						7 and 9			2,200			BB RK RP FT		
						8			2,200			BB FT		
Bomb System: Manual						Load Notes:								
Notes: 1. The Douglas A-1J Skyraider is a propeller-driven, carrier-capable attack aircraft. It was developed from the AD-6. Prior to 1962, it was designated AD-7. 2. From 1967, equipped with the Stanley rocket extraction device which gives a –1 modifier when bailing out.						1. Stations 1 to 6 and 10 to 15 are closely spaced and have restrictions: a station adjacent to one other loaded with a store of more than 250 lb may only carry a store of 250 lb or less and a station between two others loaded with stores of more than 250 lb may not be used.								
VPs: 8/5/3/1						v1 0000000 0000-00-00T00:00:00								