

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 DPs: LR/DR 2.5 VR 1.5				
Turn DPs: CL 1/2 DT TT 0.5 0.5 0.5 HT 0.5 1.0 1.0 BT 1.0 1.0 1.5 ET — — —														
										Power APs/DPs: ☉ CL 1/2 DT Fuel FT 1.5 1.0 1.0 0.5 HT 0.5 0.5 0.5 0.2 N 0.0 0.0 0.0 0.1 I 1.0 1.0 1.0 0.0 SPBR 1.0 2.0 2.0 —				
Cruise Spd. CL: 2.0 Restr. Arcs: — Climb Spd.: 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						
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: — ECCM: — Arcs: — Search: — Track: — Lock-On: —					ECM: IFF RWR: — DDS: — DJM: — AJM: — BJM: —					Weapon Stations Diagram:				
Guns: Four 20 mm M3 To Hit: 5/4/3 Ammunition: 6.0 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*					Technology: None									
Bomb System: Manual														
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.										Load Point Limits: CL : < 7 1/2: <13 Weight Limit: 8,000 DT : ≥13 Station Limit Allowed Loads 1–6 and 10–15 500 BB RK 7 and 9 2,200 BB RK 8 2,200 BB 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.				
VPs: 7/5/2/1										v3 0000000 0000-00-00T00:00:00				

Radar: — ECCM: — Arcs: — Search: — Track: — Lock-On: —	ECM: IFF RWR: — DDS: — DJM: — AJM: — BJM: —	Weapon Stations Diagram:												
Guns: Four 20 mm M3 To Hit: 5/4/3 Ammunition: 6.0 Gunsight: TT+0/HT+1/BT+2 Ranging: — AtA/AtG: 5/6*	Technology: None	Load Point Limits: CL : < 7 1/2: <13 Weight Limit: 8,000 DT : ≥13												
Bomb System: Manual	<table border="1"> <thead> <tr> <th>Station</th> <th>Limit</th> <th>Allowed Loads</th> </tr> </thead> <tbody> <tr> <td>1–6 and 10–15</td> <td>500</td> <td>BB RK RP</td> </tr> <tr> <td>7 and 9</td> <td>2,200</td> <td>BB RK RP FT</td> </tr> <tr> <td>8</td> <td>2,200</td> <td>BB FT</td> </tr> </tbody> </table>		Station	Limit	Allowed Loads	1–6 and 10–15	500	BB RK RP	7 and 9	2,200	BB RK RP FT	8	2,200	BB FT
Station	Limit	Allowed Loads												
1–6 and 10–15	500	BB RK RP												
7 and 9	2,200	BB RK RP FT												
8	2,200	BB FT												
Notes: 1. The Douglas AD-5 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. In 1962, it was redesignated A-1E.														
VPs: 8/5/3/1		v3 0000000 0000-00-00T00:00:00												

A-1E Skyraider										Crew: Pilot and Copilot					
										Maneuver DPs:					
LR/DR		2.5													
VR		1.5													
Power APs/DPs: ☉										Turn DPs:					
CL		1/2		DT		Fuel		CL		1/2		DT			
FT		1.5		1.0		1.0		0.5		TT		0.5		0.5	
HT		0.5		0.5		0.5		0.2		HT		0.5		1.0	
N		0.0		0.0		0.0		0.1		BT		1.0		1.5	
I		1.0		1.0		1.0		0.0		ET		—		—	
SPBR		1.0		1.0		1.0		—							
					Cruise Spd. CL: 2.0 Restr. Arcs: —										
					Climb Spd.: 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	
Band Ceil.		30		24		13		Speed		AB Oth		AB Oth		AB Oth	
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		MH	
ML		8–16		1.0 – 3.0		1.0 – 2.5		1.0 – 2.5		4.0		— 0.5		ML	
LO		0–7		1.0 – 3.0		1.0 – 3.0		1.0 – 2.5		4.0		— 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 : < 7					
To Hit: 5/4/3					None					1/2: <13					
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. 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.					
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.															
2. From 1967, equipped with the Stanley rocket extraction device which gives a –1 modifier when bailing out.															
										VPs: 8/5/3/1					
										v3 0000000 0000-00-00T00:00:00					

AD-6 Skyraider										Crew: Pilot													
										Maneuver DPs:													
LR/DR		2.5																					
VR		1.5																					
Turn DPs:																							
					CL		1/2		DT														
TT					0.5		0.5		0.5														
HT					0.5		1.0		1.0														
BT					1.0		1.0		1.5														
ET					—		—		—														
Power APs/DPs: ☉					Cruise Spd. CL: 2.0					Restr. Arcs: —													
					Climb Spd.: 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							
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 : < 7							
To Hit:				5/4/3				None								1/2: <13							
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. 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.											
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.																							
												VPs: 8/5/3/1				v3 00000000 0000-00-00T00:00:00							

A-1H Skyraider										Crew: Pilot				
										Maneuver DPs:				
LR/DR		2.5												
VR		1.5												
Power APs/DPs: ☉										Turn DPs:				
CL	1/2	DT	Fuel		CL		1/2	DT						
FT	1.5	1.0	1.0	0.5	TT		0.5	0.5	0.5					
HT	0.5	0.5	0.5	0.2	HT		0.5	1.0	1.0					
N	0.0	0.0	0.0	0.1	BT		1.0	1.0	1.5					
I	1.0	1.0	1.0	0.0	ET		—	—	—					
SPBR	1.0	2.0	2.0	—										
					Cruise Spd. CL: 2.0		Restr. Arcs: —							
					Climb Spd.: 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						
Band	Ceil.	30	24	13	Speed	AB	Oth	AB	Oth	AB	Oth			
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	—	1.0	—	LO			
Radar: — ECM: IFF Weapon Stations Diagram:														
ECCM: —		RWR: —												
Arcs: —		DDS: —												
Search: —		DJM: —												
Track: —		AJM: —												
Lock-On: —		BJM: —												
Guns: Four 20 mm M3		Technology: None		Load Point Limits: CL : < 7										
To Hit: 5/4/3				1/2: <13										
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. 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.										
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.														
				VPs: 8/5/3/1										
				v3 0000000 0000-00-00T00:00:00										

AD-7 Skyraider										Crew: Pilot														
										Maneuver DPs:														
LR/DR2.5																								
VR1.5																								
Turn DPs:																								
Power APs/DPs: ☉					Cruise Spd. CL: 2.0 Restr. Arcs: — Climb Spd.: 1.5 Blind Arcs: 30– Visibility: 6 Internal Fuel: 120 Size: +0 AtA Refuel: No Vulnerability: +2 Ejection Seat: None					CL1/2DT														
CL1/2DTFuel										TT0.50.50.5														
FT1.51.01.00.5										HT0.51.01.0														
HT0.50.50.50.2										BT1.01.01.5														
N0.00.00.00.1										ET— — —														
I1.01.01.00.0																								
SPBR1.02.02.0—																								
Speeds and Ceilings										Climb Capabilities														
Alt. Conf.		CL		1/2		DT		Dive		CL		1/2		DT										
Band Ceil.		30		24		13		Speed		AB Oth		AB Oth		AB Oth										
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 : < 7														
To Hit: 5/4/3					None					1/2: <13														
Ammunition: 6.0										Weight Limit: 8,000 DT : ≥13														
Gunsight: TT+0/HT+1/BT+2										StationLimitAllowed Loads														
Ranging: —										1–6 and 10–15500BB RK RP														
AtA/AtG: 5/6*										7 and 92,200BB RK RP FT														
Bomb System: Manual										82,200BB 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														
										v3 0000000 0000-00-00T00:00:00														

A-1J Skyraider										Crew: Pilot				
										Maneuver DPs:				
LR/DR		2.5												
VR		1.5												
Power APs/DPs: ☉										Turn DPs:				
CL	1/2	DT	Fuel		Cruise Spd. CL: 2.0		Restr. Arcs: —		CL	1/2	DT			
FT	1.5	1.0	1.0	0.5	Climb Spd.: 1.5		Blind Arcs: 30–		TT	0.5	0.5	0.5		
HT	0.5	0.5	0.5	0.2	Visibility: 6		Internal Fuel: 120		HT	0.5	1.0	1.0		
N	0.0	0.0	0.0	0.1	Size: +0		AtA Refuel: No		BT	1.0	1.0	1.5		
I	1.0	1.0	1.0	0.0	Vulnerability: +2		Ejection Seat: None		ET	—	—	—		
SPBR	1.0	2.0	2.0	—										
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			
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: —														
Arcs: —														
Search: —														
Track: —														
Lock-On: —														
ECM: IFF														
RWR: —														
DDS: —														
DJM: —														
AJM: —														
BJM: —														
Weapon Stations Diagram:														
Guns: Four 20 mm M3														
To Hit: 5/4/3														
Ammunition: 6.0														
Gunsight: TT+0/HT+1/BT+2														
Ranging: —														
AtA/AtG: 5/6*														
Technology: None														
Load Point Limits: CL : < 7														
1/2: <13														
Weight Limit: 8,000 DT : ≥13														
Station Limit Allowed Loads														
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.														
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.														
VPs: 8/5/3/1														
v3 0000000 0000-00-00T00:00:00														