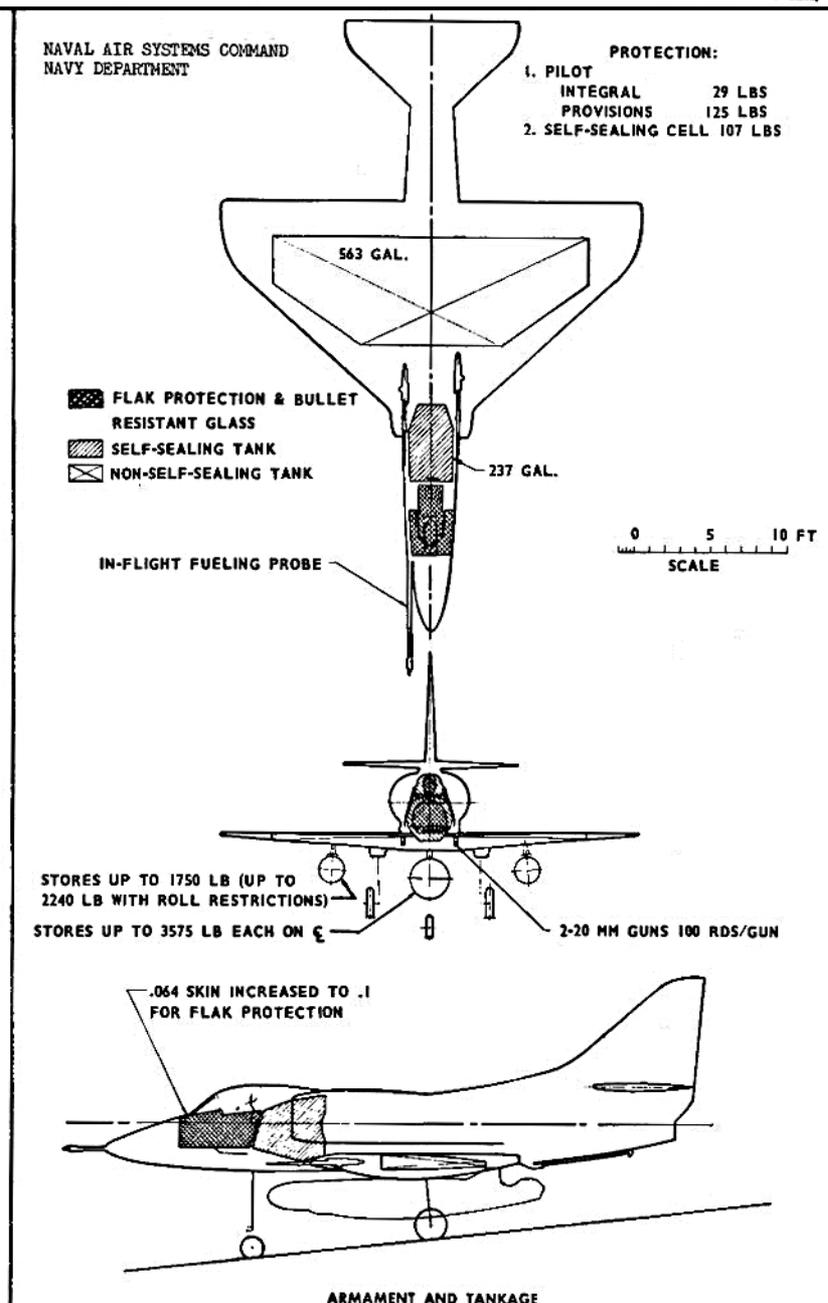
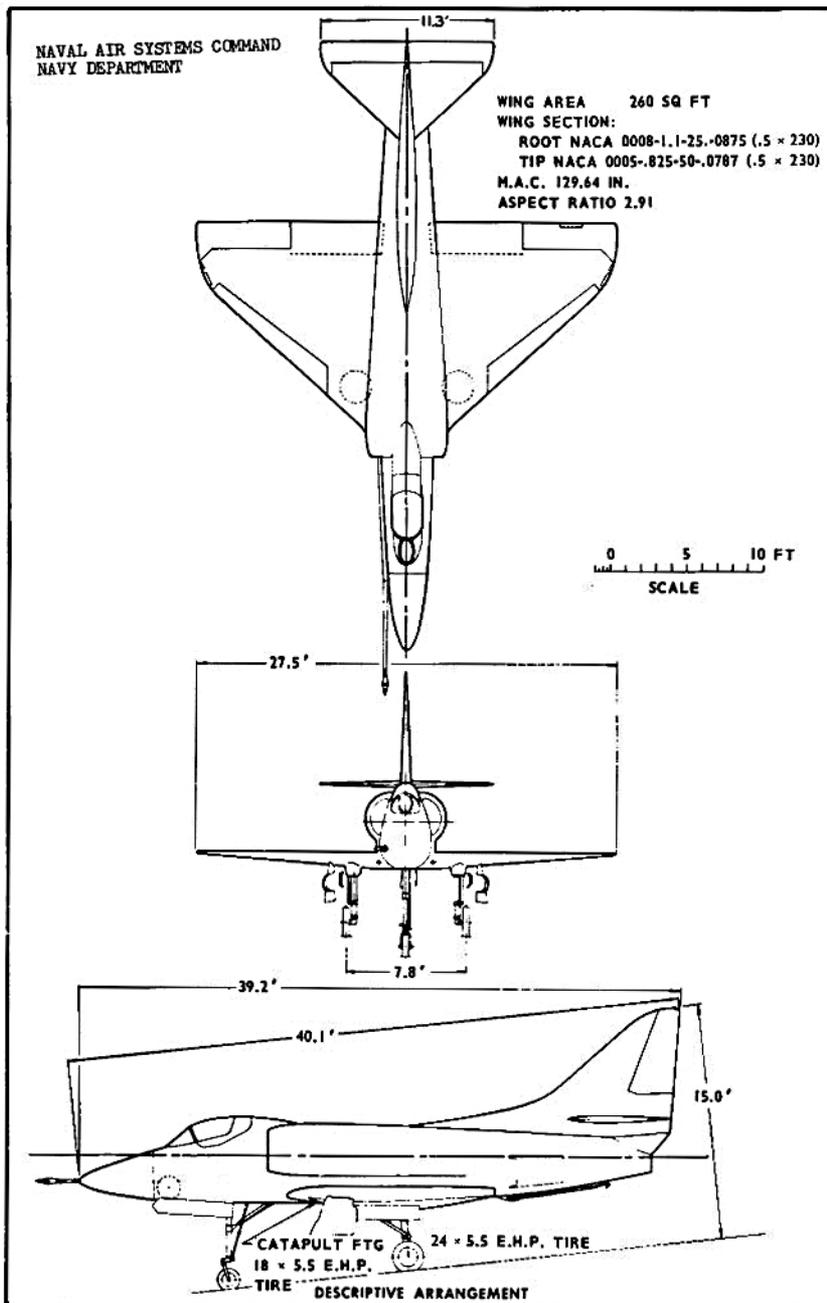


STANDARD AIRCRAFT CHARACTERISTICS

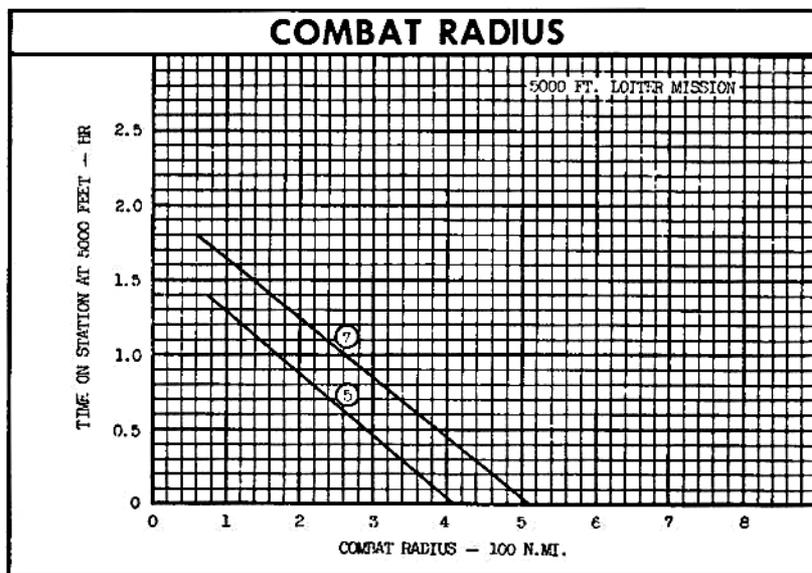
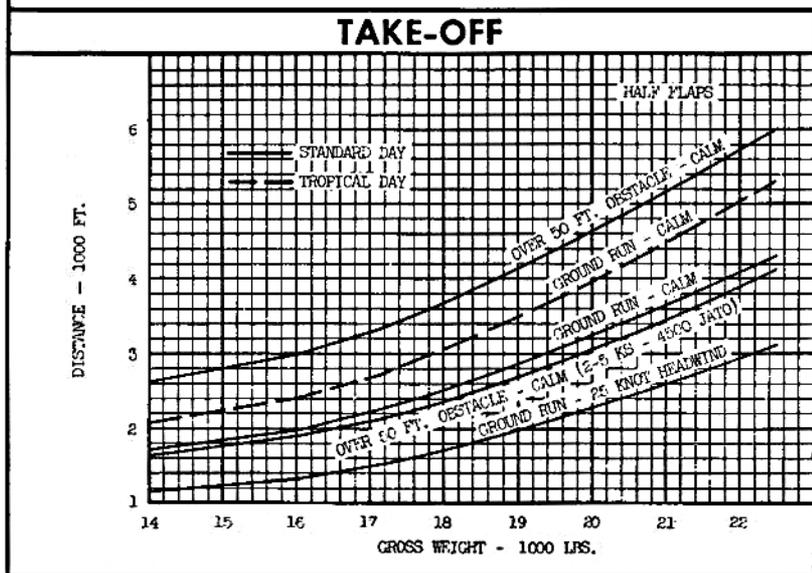
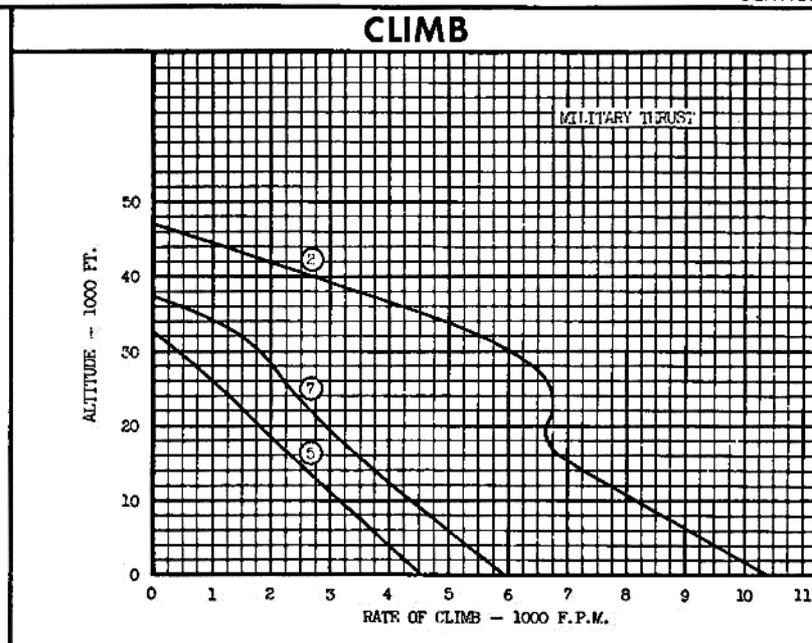
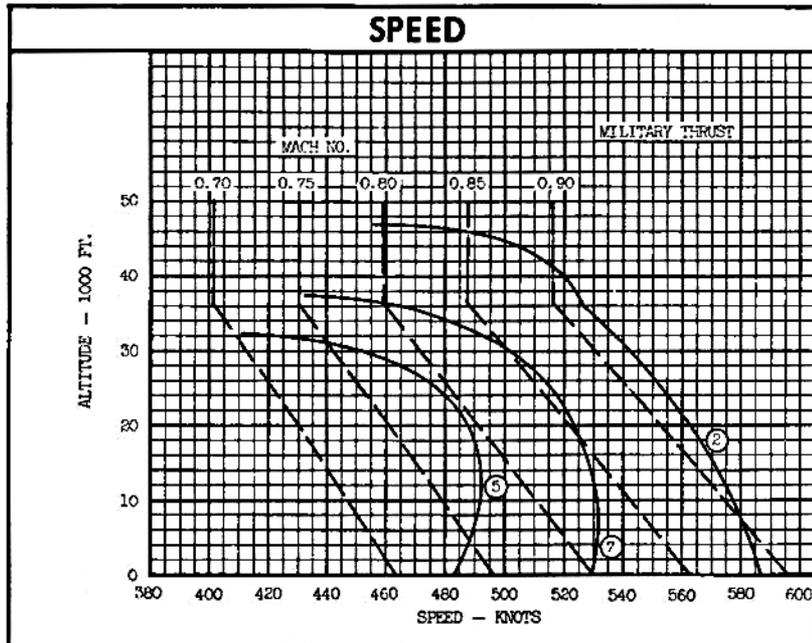
A-4L SKYHAWK

MCDONNELL DOUGLAS



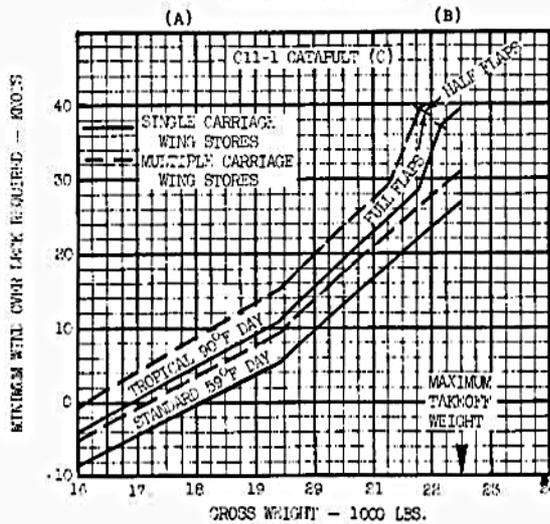
POWER PLANT	MISSION AND DESCRIPTION	WEIGHTS																																			
<p>No. & Model (2) A-1L-1-01 Axial Flow Turbojet Without Afterburner</p> <p>MFR. - Wright Aeronautical Spec. No. - Specification 1174 Length 113 in. Diameter 31 in.</p> <p style="text-align: center;">RATINGS</p> <table border="0"> <tr> <td>NIL.</td> <td>8400</td> <td>RPM</td> <td>8400 lb.</td> </tr> <tr> <td>Norm.</td> <td>8200</td> <td>RPM</td> <td>7400 lb.</td> </tr> </table>	NIL.	8400	RPM	8400 lb.	Norm.	8200	RPM	7400 lb.	<p>The A-1L airplane is a lightweight, high performance, carrier-based, jet-powered attack airplane capable of dive, glide and loft bombing, in-flight fueling (tanker or receiver), carrying a variety of conventional and special weapons, and firing conventional guns and rockets. It can operate from CVS and CVA type carriers. Limited all-weather navigational aids are provided.</p> <p>The arrangement is conventional with all-portal semi-monocoque structure and three-spar low aspect-ratio wing. Landing gear, flaps, and speed-brakes are hydraulically operated. An electrically operated, fully adjustable stabilizer is used to trim throughout the normal flight range. The ailerons, elevator, and rudder systems are hydraulic-power operated. Manual control is provided for emergencies. An automatic flight control system is provided for pilot relief.</p> <p>The small size of the airplane precludes the need for folding wings. A total of 175 airplanes can be accommodated in a landing spot on the flight and hanger decks of a CVA-59 class carrier.</p>	<table border="0"> <thead> <tr> <th>Loadings</th> <th>LEB</th> <th>L.F.</th> </tr> </thead> <tbody> <tr> <td>Empty</td> <td>2,454</td> <td>- - -</td> </tr> <tr> <td>Basic</td> <td>12,701</td> <td>- - -</td> </tr> <tr> <td>Flight Design</td> <td>18,104</td> <td>7.0g</td> </tr> <tr> <td>Combat</td> <td>19,182</td> <td>5.4g</td> </tr> <tr> <td>Max. Take-Off</td> <td>22,200</td> <td>3.9g</td> </tr> <tr> <td>Max. Landing</td> <td></td> <td></td> </tr> <tr> <td> Arrest</td> <td>14,550</td> <td>6.0g</td> </tr> <tr> <td> Airfield</td> <td>10,000</td> <td>5.9g</td> </tr> </tbody> </table>	Loadings	LEB	L.F.	Empty	2,454	- - -	Basic	12,701	- - -	Flight Design	18,104	7.0g	Combat	19,182	5.4g	Max. Take-Off	22,200	3.9g	Max. Landing			Arrest	14,550	6.0g	Airfield	10,000	5.9g
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<p>AN/ARQ-17 Electronic Control Control providing the following</p> <table border="0"> <thead> <tr> <th>Function</th> <th>Equivalent to</th> </tr> </thead> <tbody> <tr> <td>UHF Communications</td> <td>AN/ABC-27</td> </tr> <tr> <td>VHF</td> <td>AN/APX-6B</td> </tr> <tr> <td>SIF</td> <td>AN/APA-89</td> </tr> <tr> <td>UHF ADF</td> <td>AN/ANA-25</td> </tr> <tr> <td>Self-contained Navigation (Dead Reckoning Computer)</td> <td>AN/AGN-15A</td> </tr> <tr> <td>TACAN</td> <td>AN/ASN-21</td> </tr> <tr> <td>LARS</td> <td>AN/AJB-3</td> </tr> <tr> <td>Radar</td> <td>AN/APQ-53A</td> </tr> <tr> <td>Autopilot</td> <td>Douglas</td> </tr> <tr> <td>Store Arming</td> <td>T-249</td> </tr> </tbody> </table>	Function	Equivalent to	UHF Communications	AN/ABC-27	VHF	AN/APX-6B	SIF	AN/APA-89	UHF ADF	AN/ANA-25	Self-contained Navigation (Dead Reckoning Computer)	AN/AGN-15A	TACAN	AN/ASN-21	LARS	AN/AJB-3	Radar	AN/APQ-53A	Autopilot	Douglas	Store Arming	T-249	<p style="text-align: center;">DEVELOPMENT</p> <p>Contract Approval dates: Contract NOs(s)57-122, 85 airplanes, dtd. 9-9-57 NOs(s)59-015, 195 airplanes, dtd. 10-2-58 NOs(s)60-0128, 178 airplanes, dtd. 10-23-59 NOs(s)61-0022, 180 airplanes, dtd. 9-26-60</p> <p>First flight: August 1958 First fleet delivery: February 1960.</p> <p>NOs: Above aircraft delivered with DFV-22 jet engines, as A-1C's Replaced with J59-P-10 engines per RFP #58 (AN 42) and Redesignated A-1L</p>	<table border="0"> <thead> <tr> <th>Gal.</th> <th>No. Tanks</th> <th>Location</th> </tr> </thead> <tbody> <tr> <td>563</td> <td>1</td> <td>Wing</td> </tr> <tr> <td>237</td> <td>1</td> <td>Fuselage</td> </tr> </tbody> </table> <p>In-flight fueling provided. Fuel Spec MIL-Y-5624 or MIL-F-5572</p> <p>Maximum usable fuel 800 gal.</p> <p style="text-align: center;">OIL</p> <p>4.0 gal. mounted on engine Oil Spec MIL-L-1808</p>	Gal.	No. Tanks	Location	563	1	Wing	237	1	Fuselage				
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PERFORMANCE SUMMARY						
TAKE-OFF LOADING CONDITION	(1) M144-41 Clean Airplane	(2) J.L. Stage Battery 1-02 on Store	(3) Close Support 2-00 Gal Tank 1-02 on Store	(7) Close Support 2-AM LEO (Dullup A) 1-00 Gal Tank	(9) Ferry 3-00 Gal Tanks	
TAKE-OFF WEIGHT	lb.	23,631	20,301	22,000	20,036	22,500
Fuel Internal/external (P-3)	lb./lb.	2442/2782	2442/2782	2442/2000 (C)	2442/2040	2442/2000 (C)
Payload	lb.	2052	2040	2000	1140	2052
Wing loading	lb./sq. ft.	62.2	71.2	66.5	77.1	62.5
Stall speed—power-off	kn.	77.7	77.2	79.9	72.9	77.7
Take-off run at S.L.— calm	(A) ft.	2700	2400	4250	3250	4150
Take-off run at S.L.— 23 kn. wind	(A) ft.	2700	2400	3000	2250	2000
Take-off to clear 50 ft.— calm	(A) ft.	2800	2500	3600	4000	1600
Max. speed/altitude	(A) kn./ft.	667/8,000	742/9,000	493/18,000	622/9,000	524/4,000
Rate of climb at S.L.	(A) ft/min.	6550	4000	4550	1050	3950
Time S.L. to 20,000 ft.	(A) min.	2.9	3.9	6.5	4.6	n.a.
Time S.L. to 30,000 ft.	(A) min.	4.7	6.9	...	8.0	...
Service ceiling (100 gpm)	(A) ft.	45,800	28,000	31,900	37,100	34,000
Combat range (range and stores retained)	n.m.	630	205	680	920	3040 (P)
Average cruising speed	kn.	432	428	424	425	425
Cruising altitude	ft.	37,300 - 48,800	34,000 - 30,200	28,900 - 38,000	32,400 - 38,800	29,000 - 40,100
Combat radius/mission time	n.m./hr.	460/2.2	118/0.4 (B)	170/1.8	260/2.8	...
Average cruising speed	kn.	432	420	422	427	...
COMBAT LOADING CONDITION						
	(2) Clean Airplane	(4) Stores Retained	(6) Stores Retained Tank Dropped	(8) Missiles Retained Tank Dropped	(10) Tanks Retained	
COMBAT WEIGHT	lb.	23,631	24,325	20,542	17,603	
Engine power	MILITARY	MILITARY	MILITARY	MILITARY	MILITARY	
Fuel	lb.	2024	2024	2440	2440	
Combat speed/altitude	kn./ft.	521/38,000	542/3,000	501/3,000	544/3,000	
Rate of climb/altitude	ft./min.	5700/38,000	6700/3,000	6550/3,000	6300/3,000	
Combat ceiling (100 gpm)	ft.	45,300	41,300	33,600	40,000	
Rate of climb at S.L.	ft./min.	20,400	4000	5450	7900	
Max. speed at S.L.	kn.	567	562	470	547	
Max. speed/altitude	kn./ft.	567/3,000	652/3,000	206/15,000	544/7,000	
LANDING WEIGHT						
	(2) Clean Airplane	(4) Stores Retained	(6) Stores Retained Tank Dropped	(8) Missiles Retained Tank Dropped	(10) Tanks Retained	
LANDING WEIGHT	lb.	21,371	21,072	22,403	22,302	
Fuel	lb.	900	1000	1133	1119	
Stall speed—power-off/approach power	kn./ft.	65/21	60/14	100/26	100/25	
Landing distance—ground roll/over 50 ft. obst.	ft./ft.	2406/2150	1845/1340	2710/2025	2100/2305	
NOTES						
(A) Military thrust, takeoff weight, stores and tanks retained.						
(B) With 2-000 gallon tanks, the combat radius is 485 n.m.						
(C) Fuel off basis to maintain maximum all-weather takeoff weight of 22,000 pounds.						
(D) Ferry range is 3700 n.m. if tanks are dropped when empty.						
(E) All loadings except clean airplane include arms, ammunition, and pylons in all positions.						
(F) Performance based on KC-10 and DC-10 flight tests of the Models A-4A, A-4B and A-4C; Weight Engine Specification No. 1117A, revised Feb., 1968.						

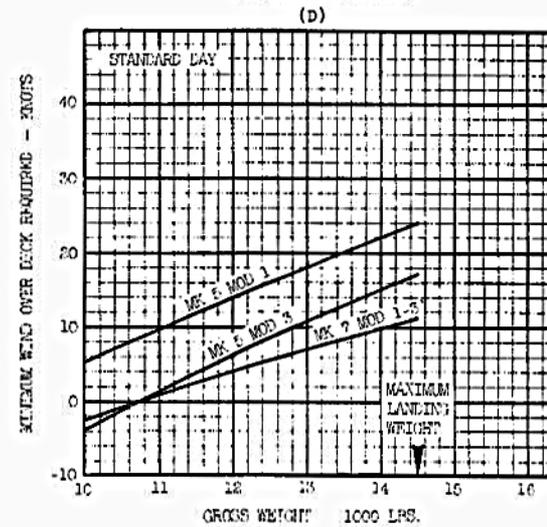


○ LOADING CONDITION COLUMN NUMBER

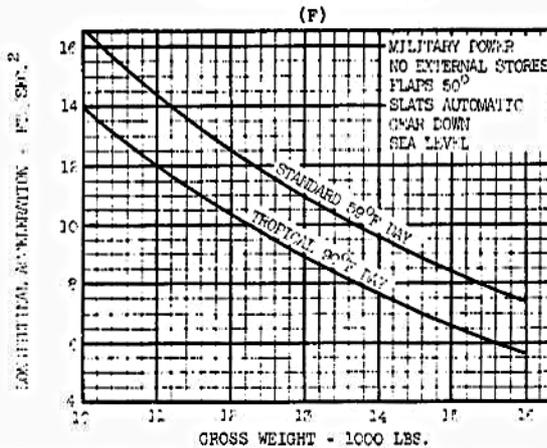
MINIMUM WIND OVER DECK REQUIRED FOR CATAPULTING VS. GROSS WEIGHT



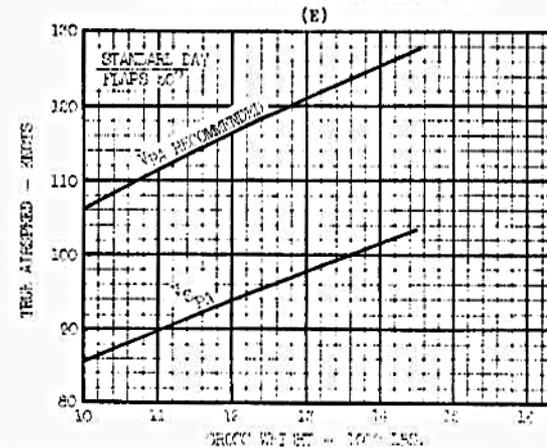
MINIMUM WIND OVER DECK REQUIRED FOR ARRESTING VS. GROSS WEIGHT



WAVE-OFF ACCELERATION



MINIMUM CARRIER APPROACH SPEEDS

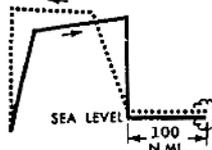
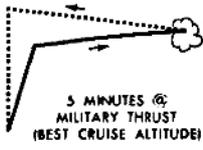
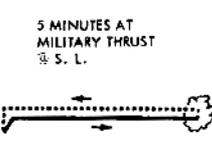
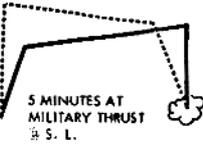


- (A) Catapult takeoff speeds are derived from a correlation of NATC findings on A-4A, -4B, -4C, -4E, and -4F.
- (B) Takeoff on C11-1 is limited by a maximum longitudinal acceleration of 7.0g up to a gross weight of 10,000 lb. on the C11-1 and C-7 catapults, a few days of 24,400 lb. at lighter gross weights.
- (C) Minimum wind over deck required for C-7 catapult is C11-1 requirement minus 10 knots.

NOTES

- (D) Engaging speed limited by 1.14g maximum longitudinal load factor.
- (E) Approach speeds based on fleet operational speeds and corresponding to 17° angle on the pilot's angle-of-attack indicator.
- (F) Wave-off acceleration based on longitudinal acceleration at fleet operational approach speeds.

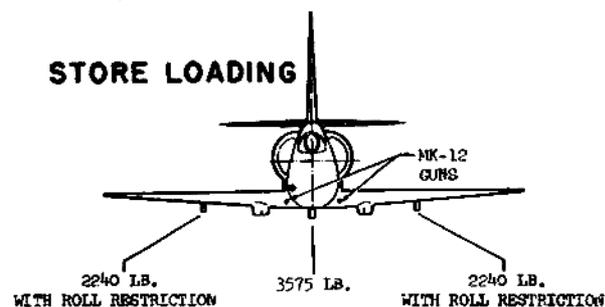
MISSION SUMMARY — ALTERNATE LOADINGS

		CLOSE SUPPORT		HI-LO-LO-HI		HI-HI-HI		LO-LO-LO		HI-LO-HI	
											
EXTERNAL STORE LOADING	T.O.G.W.	COMBAT RADIUS R. MI.	MISSION TIME hr.	COMBAT RADIUS R. MI.	MISSION TIME hr.	COMBAT RADIUS R. MI.	MISSION TIME hr.	COMBAT RADIUS R. MI.	MISSION TIME hr.	COMBAT RADIUS R. MI.	MISSION TIME hr.
3 (1) MK 28	18,501	95 (D)	1.6	155 (D)	2.1	365	1.8	150	1.1	260	1.3
7 (2) AGM 128 (Bullpup A) (1) 300 Gal. Drop Tank	20,066	265	2.2	305	1.7	580	2.5	230	1.6	425	2.1
11 (1) MK 28 (2) 300 Gal. Drop Tanks	22,500 (-478)	385	2.8	440	2.3	650	3.1	300	2.0	555	2.7
12 (6) MK 81 Snakeeyes	18,405	80 (D)	1.5	145 (D)	1.1	335	1.7	145	1.1	255	1.2
13 (6) MK 81 Snakeeyes (2) 300 Gal. Drop Tanks	22,500 (-380)	355	2.7	410	2.2	605	3.0	290	2.0	520	2.5
14 (6) MK 82 Snakeeyes	19,993	60 (D)	1.4	140 (D)	1.0	300	1.5	140	1.0	215	1.1
15 (6) MK 82 Snakeeyes (3) 300 Gal. Drop Tanks	22,500 (-1970)	200	2.0	265	1.6	455	2.3	220	1.6	370	1.9
16 (12) MK 81 Snakeeyes (6) MK 82 Snakeeyes	22,500 (-1411)	----	----	----	----	130	0.8	70	0.6	75 (D)	0.6
17 (2) LAU 3A Rocket Packs (1) 300 Gal. Drop Tank	19,499	295	2.4	330	1.8	560	2.7	240	1.7	455	2.2

NOTES

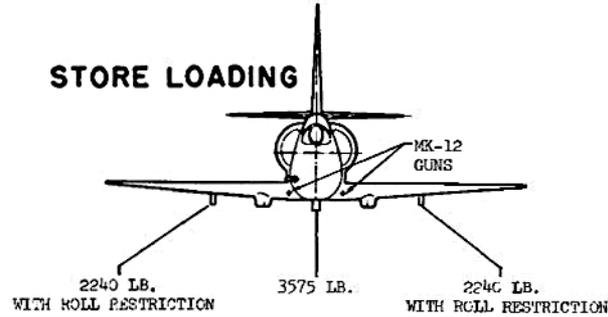
- (A) Some loadings will not utilize entire fuel capacity due to takeoff weight limitations (amount of fuel off-loaded shown below takeoff gross weight).
- (B) All loadings include guns and ammunition and two wing pylons.
- (C) Data basis: NATC and DAC flight tests of the Models A-4A, A-4B and A-4C; Wright Engine Specification No. 1117A, revised Feb., 1968
- (D) Based on cruise at intermediate altitude instead of optimum cruise altitude to obtain maximum climb plus cruise distance.

STORE LOADING



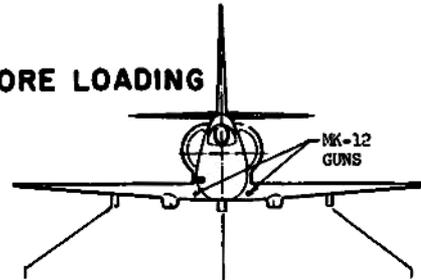
Ordnance			Station No. 3 Left Wing	Station No. 2 Fuselage Centerline	Station No. 1 Right Wing		
Suspension Equipment			1) Aero 20A Rack-Pylon 1) Aero 1A Adapter 1) MK-44 Missile Cluster Adapter (Lazy Dog) 1) Aero 3A Launcher 1) Aero 5A-1 Launcher Adapter 1) Aero 5A Pylon-Launcher 1) A/A 37B-1 MBR 1) A/A 37B-3 PMBR 1) MBR 1) TER	1) Aero 7A Rack-Pylon 1) MK-44 Missile Cluster Adapter (Lazy Dog) 1) Aero 5A-1 Launcher Adapter 1) Aero 5A Pylon-Launcher 1) A/A 37B-1 MBR 1) A/A 37B-3 PMBR 1) MBR 1) TER	1) Aero 20A Rack-Pylon 1) Aero 1A Adapter 1) MK-44 Missile Cluster Adapter (Lazy Dog) 1) Aero 3A Launcher 1) Aero 5A-1 Launcher Adapter 1) Aero 5A Pylon-Launcher 1) A/A 37B-1 MBR 1) A/A 37B-3 PMBR 1) MBR 1) TER		
Bombs			6) MK-81 6) MK-81 Snakeyes 3) MK-82 3) MK-82 Snakeyes 1) MK-83 1) M117 Demolition 5) AN-M81 (260 lb Frag.) 5) AN-M88 (220 lb Frag.) 5) AN-M57A (250 lb GP) 1) AN-M64A1 (500 lb GP) 1) AN-M65A1 (1000 lb GP) 1) AN-M66A2 (2000 lb GP) 1) AN-M30A1 (100 lb GP) 1) MK-94 Chemical 3) MK-77 Fire Bombs 1) MK-79 Fire Bomb 2) CBU-1A/A 2) CBU-2A/A	6) MK-81 6) MK-81 Snakeyes 6) MK-82 6) MK-82 Snakeyes 3) MK-83 1) MK-84 1) M117 Demolition 6) AN-M81 (260 lb Frag.) 6) AN-M88 (220 lb Frag.) 6) AN-M57A (250 lb GP) 1) AN-M64A1 (500 lb GP) 1) AN-M65A1 (1000 lb GP) 1) AN-M66A2 (2000 lb GP) 1) AN-M30A1 (100 lb GP) 1) MK-94 Chemical 4) MK-77 Fire Bombs 1) MK-79 Fire Bomb	6) MK-81 6) MK-81 Snakeyes 3) MK-82 3) MK-82 Snakeyes 1) MK-83 1) M117 Demolition 5) AN-M81 (260 lb Frag.) 5) AN-M88 (220 lb Frag.) 5) AN-M57A (250 lb GP) 1) AN-M64A1 (500 lb GP) 1) AN-M65A1 (1000 lb GP) 1) AN-M30A1 (100 lb GP) 1) MK-94 Chemical 3) MK-77 Fire Bombs 1) MK-79 Fire Bomb 2) CBU-1A/A 2) CBU-2A/A		

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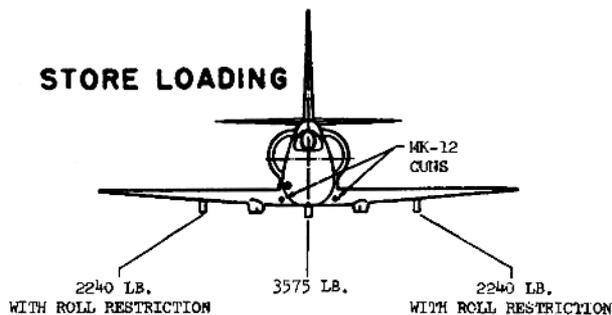
Ordnance			Station No. 3 Left Wing	Station No. 2 Fuselage Centerline	Station No. 1 Right Wing		
Bombs (Continued)			1) Aero 7A (Lazy Dog) 1) MK-44 Cluster Adapter (Lazy Dog)	1) MK-44 Cluster Adapter (Lazy Dog)	1) Aero 7A (Lazy Dog) 1) MK-44 Cluster Adapter (Lazy Dog)		
Guided Missiles			1) AGM-12A, -12B Bullpup A 1) AGM-12C Bullpup B 1) Sidewinder 1A	1) AGM-12A, -12B Bullpup A	1) AGM-12A, -12B Bullpup A 1) AGM-12C Bullpup B 1) Sidewinder 1A		
Rocket Launchers			2) LAU-32A/A 2) LAU-3A/A 2) LAU-10/A	3) LAU-32A/A 3) LAU-3A/A 3) LAU-10/A	2) LAU-32A/A 2) LAU-3A/A 2) LAU-10/A		
Mines			1) MK-36 with MK-27 Parapack 1) MK-36 Drill Mine with MK-4 Drill Kit 1) MK-50 with MK-15 Parapack 1) MK-52 with MK-20 Parapack or MK-35 Parapack	1) MK-25 with MK-26 Parapack or MK-34 Parapack 1) MK-25 Drill Mine with MK-4, -5 Drill Kit 1) MK-36 1) MK-27 Parapack 1) MK-36 Drill Mine with MK-4 Drill Kit 1) MK-50 with MK-15 Parapack 1) MK-52 with MK-20 Parapack or MK-35 Parapack 1) MK-55 with MK-24 Parapack or MK-36 Parapack 1) MK-56 or 1) MK-56 Drill Mine with MK-28, Mod 1 Parapack	1) MK-36 with MK-27 Parapack 1) MK-36 Drill Mine with MK-4 Drill Kit 1) MK-50 with MK-15 Parapack 1) MK-52 with MK-20 Parapack or MK-35 Parapack		

STORE LOADING



Ordnance			Station No. 3 Left Wing 2240 LB. WITH ROLL RESTRICTION	Station No. 2 Fuselage Centerline 3575 LB.	Station No. 1 Right Wing 2240 LB. WITH ROLL RESTRICTION		
Tanks and Pods			1) 150 Gal Ext Tank 1) 300 Gal Ext Tank 1) MK-12 Mod 0 Chemical Tank 1) ALQ-31 ECM Pod 1) ALQ-31A Pod 1) MX-900 Chaff Dispenser 1) IM-119A Film Delivery Container 1) LAU-10/A Leaflet Dispenser 1) GTC-85 Pod- Mounted	1) 150 Gal Ext Tank 1) 300 Gal Ext Tank 1) 400 Gal Ext Tank 1) 300 Gal Buddy Tank 1) Aero 14B Spray Tank 1) ALQ-31 ECM Pod 1) ALQ-31A Pod 1) MX-900 Chaff Dispenser 1) LAU-10/A Leaflet Dispenser 1) NAVPAC 1) GTC-85 Pod- Mounted	1) 150 Gal Ext Tank 1) 300 Gal Ext Tank 1) MK-12 Mod 0 Chemical Tank 1) ALQ-31 ECM Pod 1) ALQ-31A Pod 1) MX-900 Chaff Dispenser 1) IM-119A Film Delivery Container 1) LAU-10/A Leaflet Dispenser 1) GTC-85 Pod- Mounted		
Special Weapons				1) MK-28/MK-104 1) MK-43/BDU-8B /BDU-18 1) MK-57/BDU-12 /BDU-19 1) BDU-11E			
Pyrotechnics			6) MK-5 Mods 7, 10 Parachute flares 6) MK-6 Mods 5, 6 Parachute flares 6) MK-24 Mods 2A, 3 Parachute flares 6) MK-6 Mod 3 Float Light	6) MK-5 Mods 7, 10 Parachute flares 6) MK-6 Mods 5, 6 Parachute flares 6) MK-24 Mods 2A, 3 Parachute flares 6) MK-6 Mod 3 Float Light	6) MK-5 Mods 7, 10 Parachute flares 6) MK-6 Mods 5, 6 Parachute flares 6) MK-24 Mods 2A, 3 Parachute flares 6) MK-6 Mod 3 Float Light		

STORE LOADING



Ordnance			Station No. 3 Left Wing	Station No. 2 Fuselage Centerline	Station No. 1 Right Wing		
Training Stores			6) MK-86 WSF 6) MK-87 WSF 1) MK-88 WSF 6) MK-76 Mod 4, 5 (With MK-10 Lug) 6) MK-89 6) MK-106 Mod 3 6) MK-76 Mod 5 (With MK-14 Lug) 1) Aero 6A-1, 6A-2 2) Aero 7D 1) FAGU Pipe Organ 1) MK-26 Mod 0 Side-winder target rocket	6) MK-86 WSF 6) MK-87 WSF 1) MK-88 WSF 6) MK-76, Mod 4, 5 (With MK-10 Lug) 6) MK-89 6) MK-106 Mod 3 6) MK-76 Mod 5 (With MK-14 Lug) 1) Aero 8A PBC (MK-76, MK-89, MK-106) 1) Aero 6A-1, 6A-2 3) Aero 7D 1) FAGU Pipe Organ 1) Aero 6A, or IAU-32 and A/A37B-3 FWER with MK-76 Mod 5 or MK-106 Mod 3 1) Banner Tow Target	6) MK-86 WSF 6) MK-87 WSF 1) MK-88 WSF 6) MK-76 Mod 4, 5 (With MK-10 Lug) 6) MK-89 6) MK-106 Mod 3 6) MK-76 Mod 5 (With MK-14 Lug) 1) Aero 6A-1, 6A-2 2) Aero 7D 1) FAGU Pipe Organ 1) MK-26 Mod 0 Sidewinder target rocket		

NOTES

HI-HI-HI

Warm-Up, Taxi, Takeoff: 5 min
 S.L. NRP
 Climb: On course to opt cruise
 alt with Mil power
 Cruise Out: At max range speed at
 opt cruise alt (drop fuel tanks
 when empty)
 Combat: 5 Min at MRT (stores on, no
 distance gained) (drop stores)
 Cruise Back: At max range speed at
 opt alt
 Reserve: 5% initial fuel + 20 min
 at max endurance speed at S.L.

SEA LEVEL STORE DELIVERY

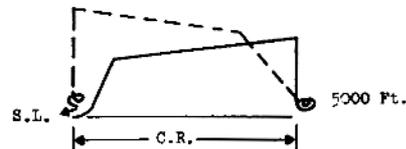
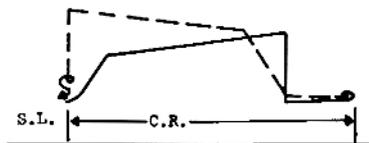
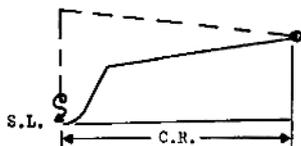
Warm-Up, Taxi, Takeoff: 5 min
 S.L. NRP
 Climb: On course to opt cruise
 alt with Mil power
 Cruise Out: At max range speed
 at opt cruise alt (drop
 fuel tanks when empty)
 Descend: To S.L. when 50 n mi
 from target (no fuel used
 no distance gained)
 Run In: 50 n mi at V_{max} at MRT
 Combat: 5 Min at MRT (stores on,
 no distance gained) stores
 dropped after combat
 Runout: 50 n mi at V_{max} at MRT
 at S.L.
 Climb: On course to opt cruise
 alt with Mil power
 Cruise Back: At max range speed
 at opt alt
 Reserve: 5% initial fuel + 20
 min at max endurance speed
 at S.L.

CLOSE AIR SUPPORT

Warm-Up, Taxi, Takeoff: 5 min
 S.L. NRP
 Climb: On course to opt cruise
 alt with Mil power
 Cruise Out: At max range speed
 at opt cruise alt (drop fuel
 tanks when empty)
 Descend: To 5000 Ft. (no fuel used
 no distance gained)
 Loiter: 1 hr at max end speed no
 distance gained, stores
 dropped at end of loiter
 Climb: On course to opt cruise
 alt with Mil power
 Cruise Back: At max range speed
 at opt alt
 Reserve: 5% initial fuel + 20 min
 at max end speed at S.L.

FERRY RANGE

Warm-Up, Taxi, Takeoff: 5 min
 S.L. NRP
 Climb: On course to opt cruise
 alt with Mil power
 Cruise Out: At max range speed
 at opt cruise alt (drop
 fuel tanks when empty)
 Reserve: 5% initial fuel + 20
 min at max end speed at
 S.L.



○ LOADING CONDITION COLUMN NUMBER

NOTES

HI-LO-LO-HI

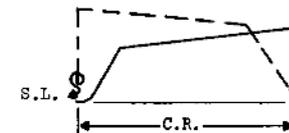
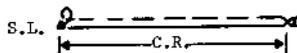
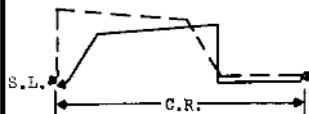
Warm-Up, Taxi, Takeoff: 5 min
S.L. NRP
Climb: On course to opt cruise
alt with Mil power
Cruise Out: At max range speed
at opt cruise alt (drop
fuel tanks when empty)
Descend: To S.L. when 100/200
n mi from target (no fuel
used, no distance gained)
Cruise: At max range speed at
S.L. (drop fuel tanks when
empty)
Combat: 5 Min. at MRT (stores on,
no distance gained)
Drop Stores
Cruise: At max range speed at
S.L. to a point 100/200
n mi from target
Climb: On course to opt cruise
alt with Mil power
Cruise Back: At max range speed
at opt alt
Reserve: 5% initial fuel + 20
min at max end speed at S.L.

LO-LO-LO

Warm-Up, Taxi, Takeoff: 5 min S.L.
NRP
Cruise: At max range speed at S.L.
(drop fuel tanks when empty)
Combat: 5 Min. at MRT (stores on, no
distance gained)
Drop Stores
Cruise: at max range speed at S.L.
Reserve: 5% initial fuel + 20 min
at max endurance speed at S.L.

HI-LO-HI

Warm-Up, Taxi, Takeoff: 5 min
S.L. NRP
Climb: On course to opt cruise
alt with Mil power
Cruise Out: At max range speed
at opt cruise alt (drop fuel
tanks when empty)
Descend: To S.L. (no fuel used, no
distance gained)
Combat: 5 Min. at MRT (stores on, no
distance gained)
Drop Stores
Climb: On course to opt cruise alt
with Mil power
Cruise Back: At max range speed at
opt alt
Reserve: 5% initial fuel + 20 min
at max endurance speed at S.L.



○ LOADING CONDITION COLUMN NUMBER