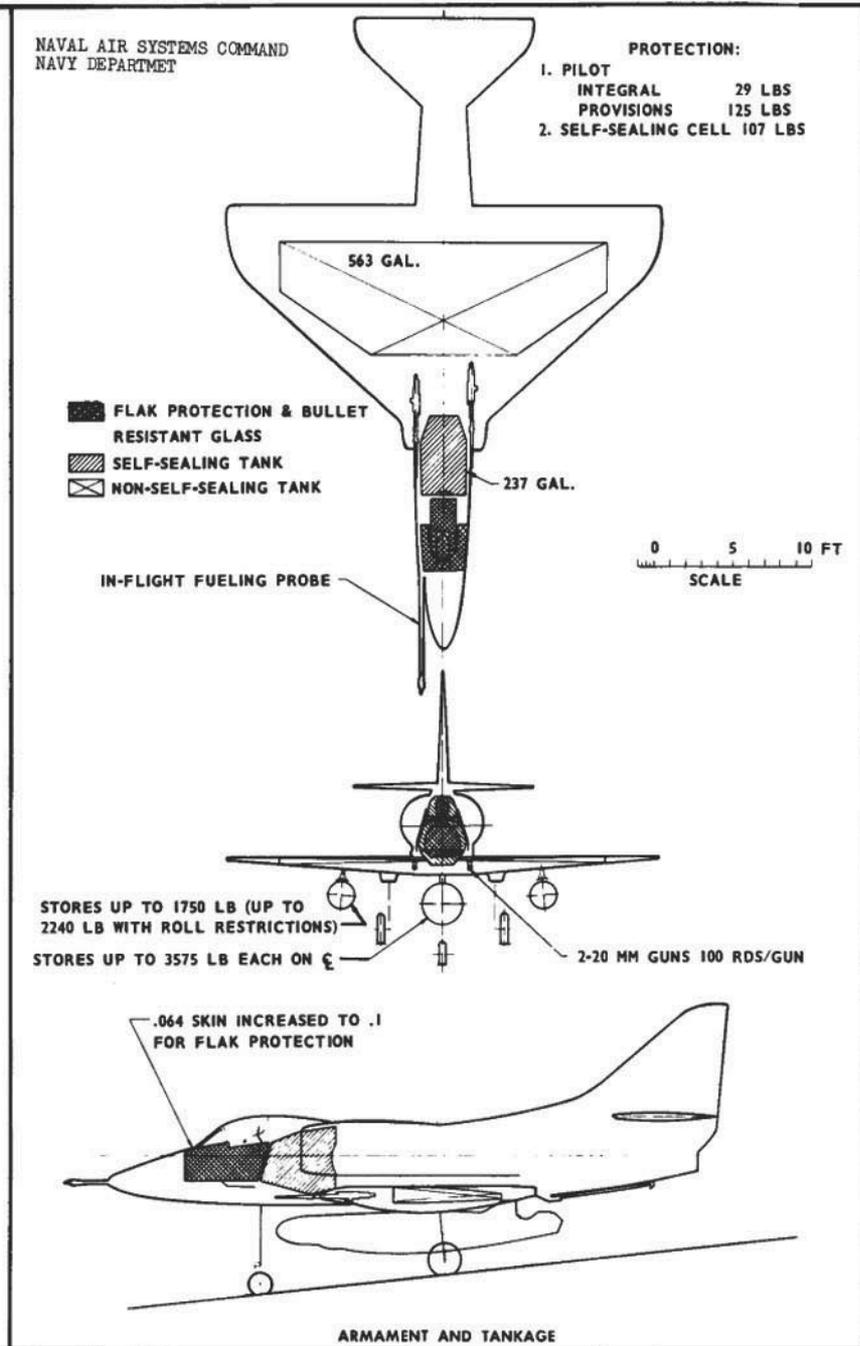
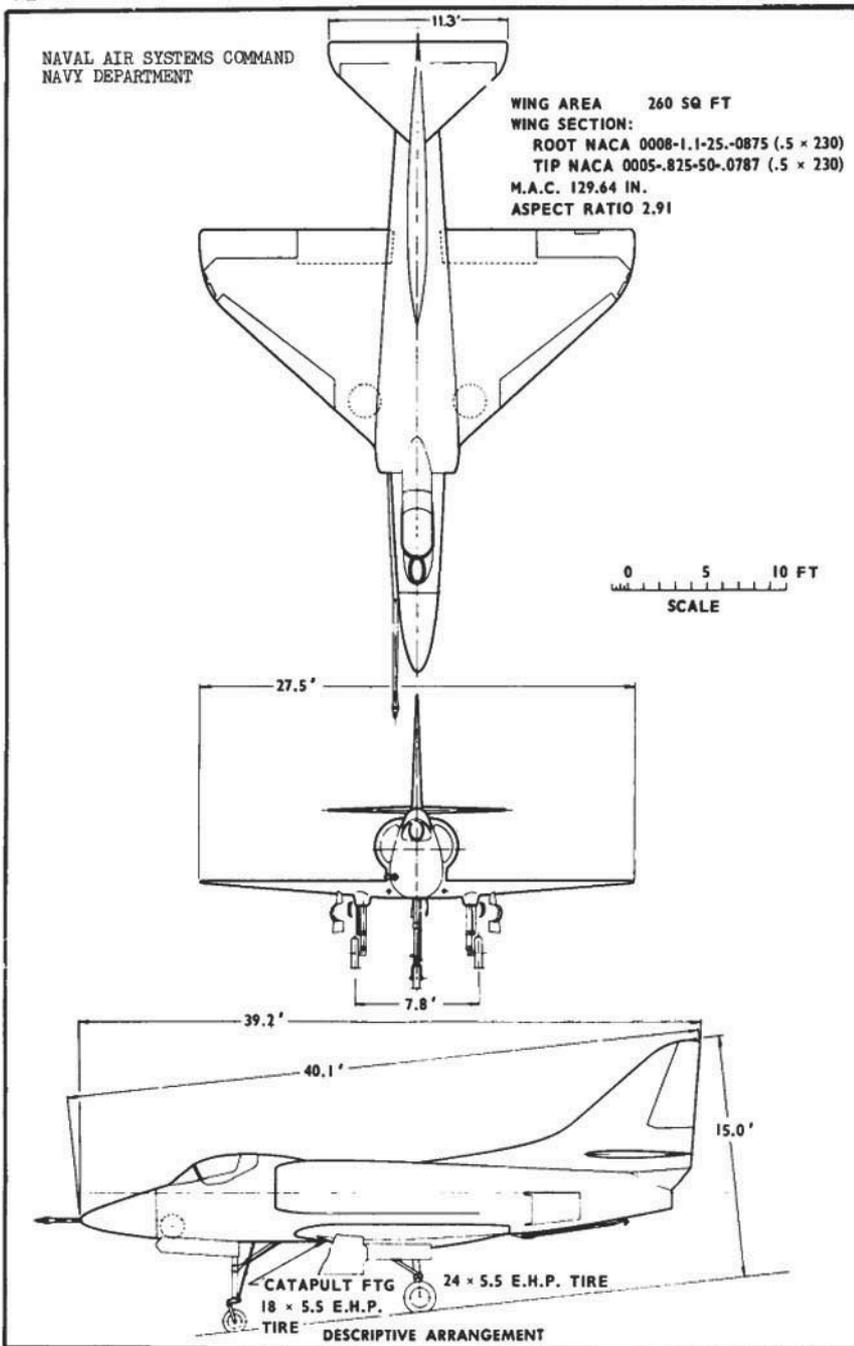




STANDARD AIRCRAFT CHARACTERISTICS

MODEL A-4C

DOUGLAS



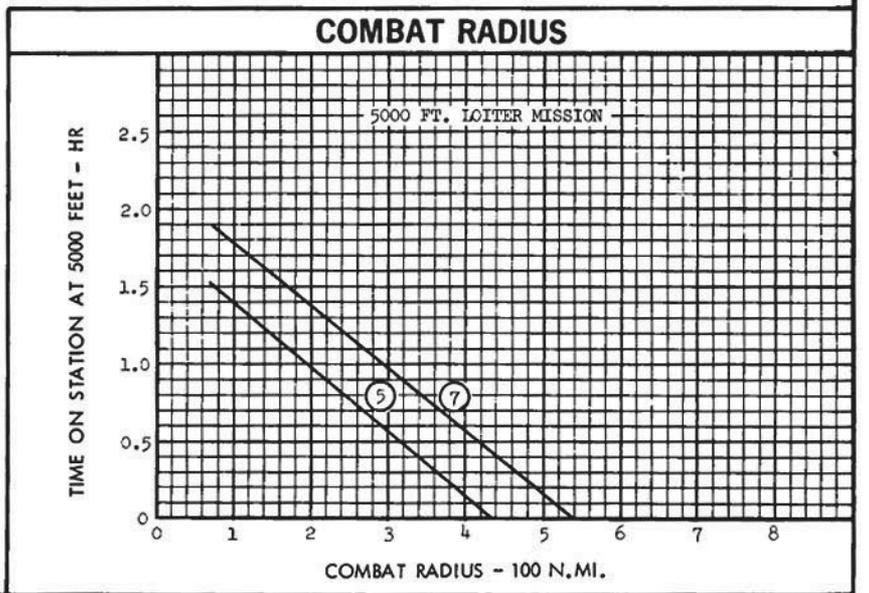
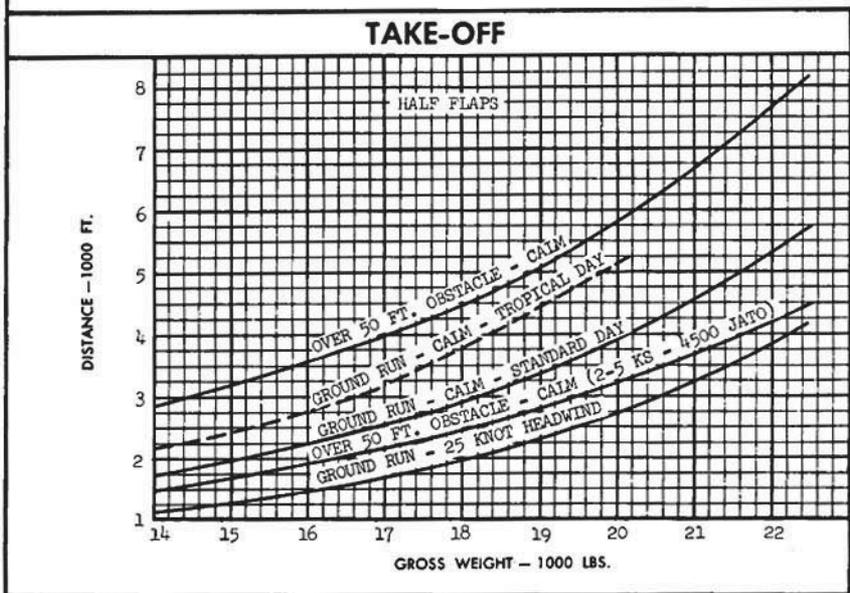
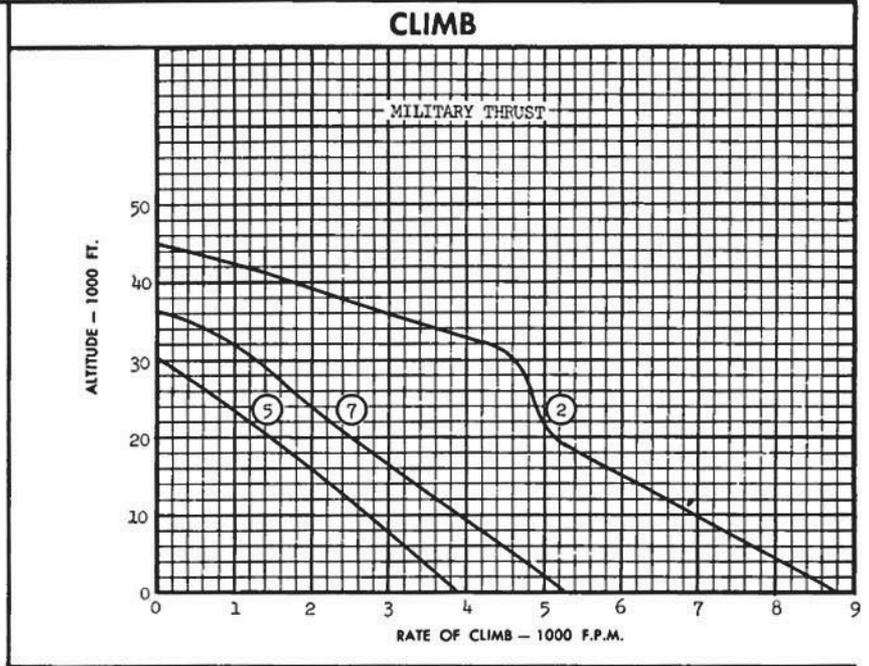
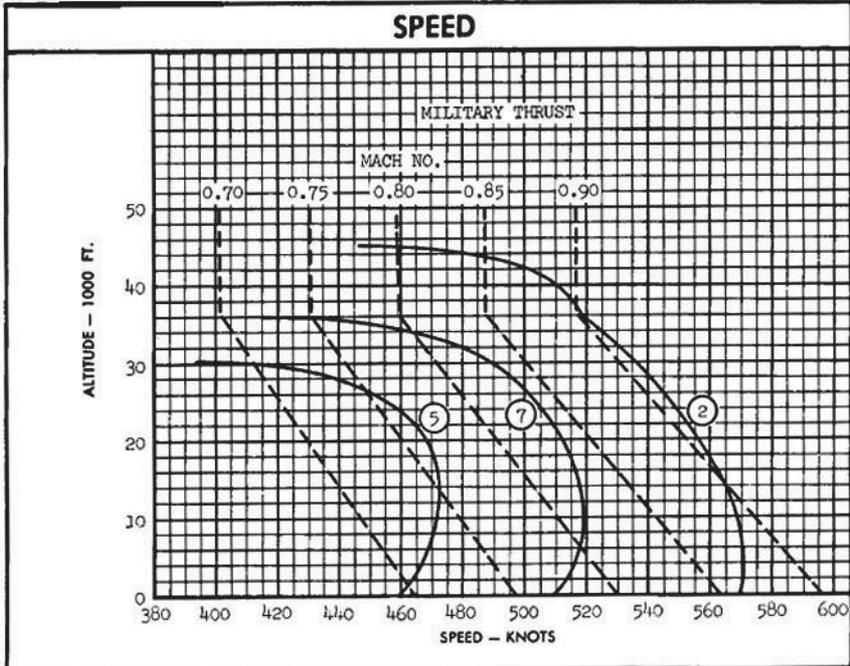
POWER PLANT	MISSION AND DESCRIPTION	WEIGHTS																																			
<p>No. & Model (1) J65-W-16A Axial Flow Turbojet Without Afterburner</p> <p>MFR. - Wright Aeronautical Spec. No. - W.A.C. Specification N890-B Length 113 in. Diameter 31 in.</p> <p style="text-align: center;">RATINGS</p> <table border="0"> <tr> <td>MIL.</td> <td>8200</td> <td>RPM</td> <td>7700 lb.</td> </tr> <tr> <td>Norm.</td> <td>8030</td> <td>RPM</td> <td>6780 lb.</td> </tr> </table>	MIL.	8200	RPM	7700 lb.	Norm.	8030	RPM	6780 lb.	<p>The A-4C 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 an air-to-surface missile, 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-metal 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 aileron, 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. The aft fuselage is readily removable to permit quick engine change.</p>	<table border="0"> <thead> <tr> <th>Loadings</th> <th>LBS</th> <th>L.F.</th> </tr> </thead> <tbody> <tr> <td>Empty</td> <td>9,827</td> <td>- - -</td> </tr> <tr> <td>Basic</td> <td>10,467</td> <td>- - -</td> </tr> <tr> <td>Flight Design</td> <td>12,504</td> <td>7.0g</td> </tr> <tr> <td>Combat</td> <td>16,249</td> <td>5.4g</td> </tr> <tr> <td>Max. Take-Off</td> <td>22,500</td> <td>3.9g</td> </tr> <tr> <td>Max. Landing</td> <td></td> <td></td> </tr> <tr> <td> Arrest</td> <td>14,500</td> <td>6.0g</td> </tr> <tr> <td> Airfield</td> <td>16,000</td> <td>5.5g</td> </tr> </tbody> </table>	Loadings	LBS	L.F.	Empty	9,827	- - -	Basic	10,467	- - -	Flight Design	12,504	7.0g	Combat	16,249	5.4g	Max. Take-Off	22,500	3.9g	Max. Landing			Arrest	14,500	6.0g	Airfield	16,000	5.5g
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SERVICE

PERFORMANCE SUMMARY

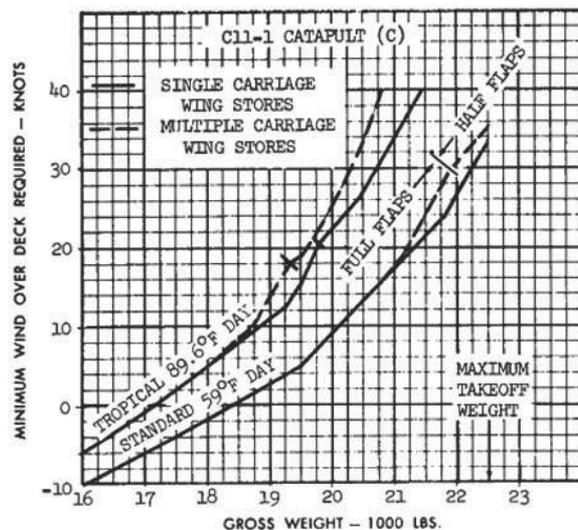
TAKE-OFF LOADING CONDITION	(1) Hi-Hi-Hi Clean Airplane	(3) S.L. Store Delivery 1-MK 28 Store	(5) Close Support 1-300 Gal Tank 12-MK 81 Snakeye	(7) Close Support 2-AGM 12B (Bullpup A) 1-300 Gal Tank	(9) Ferry 3-300 Gal Tanks	
TAKE-OFF WEIGHT	lb.	16,228	18,443	22,500	19,960	22,500
Fuel — internal/external (JP-5)	lb./lb.	5440/NONE	5440/NONE	5440/2031 (C)	5440/2040	5440/5552 (C)
Payload	lb.	NONE	2040	3600	1140	NONE
Wing loading	lb./sq. ft.	62.4	70.9	86.5	76.8	86.5
Stall speed—power-off	kn.	114	122	138	129	137
Take-off run at S.L.— calm (A)	ft.	2300	3050	5710	3890	5710
Take-off run at S.L.— 25 kn. wind (A)	ft.	1510	2080	4180	2710	4180
Take-off to clear 50 ft.— calm (A)	ft.	3650	4700	8220	5800	8220
Max. speed/altitude (A)	kn./ft.	570/3000	548/9000	473/14,000	518/10,500	520/8500
Rate of climb at S.L. (A)	fpm.	7500	6150	3900	5250	4450
Time: S.L. to 20,000 ft. (A)	min.	3.4	4.5	7.6	5.3	6.4
Time: S.L. to 30,000 ft. (A)	min.	5.7	7.7	---	9.8	13.3
Service ceiling (100 fpm) (A)	ft.	41,950	38,500	29,800	35,600	32,550
Combat range (Tanks Retained)	n.mi.	990	755	715	1020	1615 (D)
Average cruising speed	kn.	432	429	405	423	425
Cruising altitudes	ft.	36,800 - 42,150	34,050 - 38,400	27,800 - 35,200	32,500 - 39,000	29,800 - 40,300
Combat radius/mission time	n.mi./hr.	465/2.2	165/0.8 (B)	195/2.0	295/2.4	- - -
Average cruising speed	kn.	432	431	418	427	- - -
COMBAT LOADING CONDITION	(2) Clean Airplane	(4) Store Retained	(6) Tank Dropped Stores Retained	(8) Tank Dropped Missiles Retained	(10) Tanks Retained	
COMBAT WEIGHT	lb.	14,052	16,267	20,286	17,737	16,948
Engine power		MILITARY	MILITARY	MILITARY	MILITARY	MILITARY
Fuel	lb.	3264	3264	5440	5440	5440
Combat speed/combat altitude	kn./ft.	515/38,350	545/S.L.	480/5,000	530/5,000	517/S.L.
Rate of climb/combat altitude	fpm/ft.	2200/38,350	7100/S.L.	4100/5,000	5550/5,000	6400/S.L.
Combat ceiling (500 fpm)	ft.	44,000	40,100	31,150	37,600	38,150
Rate of climb at S.L.	fpm.	8800	7100	4700	6250	6400
Max. speed at S.L.	kn.	569	545	472	525	517
Max. speed/altitude	kn./ft.	571/4000	550/10,000	487/15,000	531/9000	525/9000
LANDING WEIGHT	lb.	11,748	11,935	12,347	12,244	12,805
Fuel	lb.	960	972	1101	1087	1297
Stall speed—power-off/approach power	kn./kn.	97/93	98/94	100/95	99/95	104/99
Landing distance—ground roll/over 50 ft. obst.	ft./ft.	2540/3255	2580/3295	2670/3385	2640/3355	2760/3475
NOTES						
(A) Military thrust, take-off weight, stores and tanks retained.						
(B) With 2-300 Gal. Tanks the combat radius is 485 n. mi.						
(C) Fuel off-loaded to maintain maximum allowable takeoff weight of 22,500 pounds.						
(D) Ferry range is 1785 n. mi. if tanks are dropped when empty.						
(E) All loadings include guns and ammunition. All loadings except clean airplane have pylons on all stations.						
(F) Performance Basis: NATC and DAC flight tests of the Models A-4A, A-4B and A-4C.						



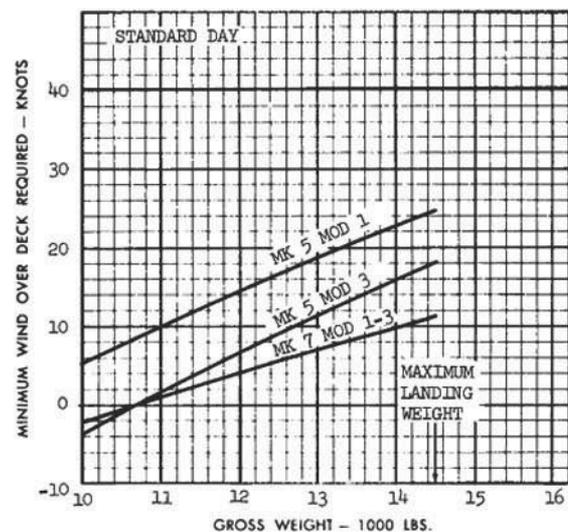
○ LOADING CONDITION COLUMN NUMBER

SERVICE

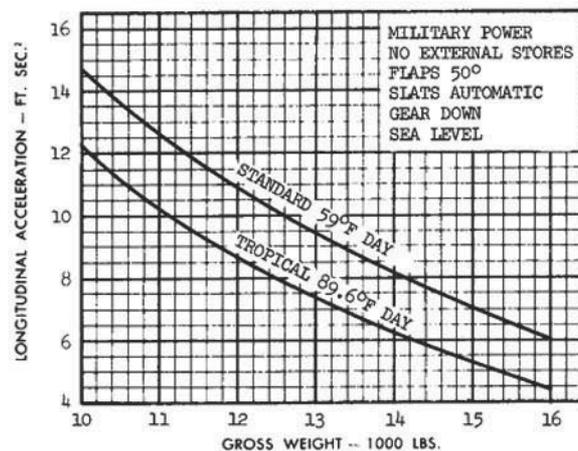
MINIMUM WIND OVER DECK REQUIRED FOR CATAPULTING VS. GROSS WEIGHT (A), (B)



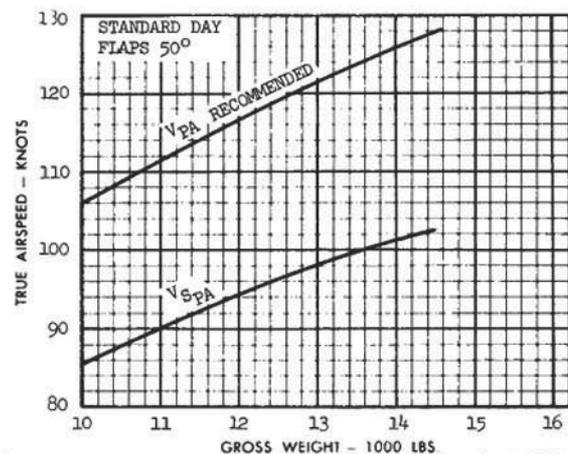
MINIMUM WIND OVER DECK REQUIRED FOR ARRESTING VS. GROSS WEIGHT (D)



WAVE-OFF ACCELERATION (F)



MINIMUM CARRIER APPROACH SPEEDS (E)



- (A) Catapult takeoff speeds are derived from a correlation of NATC minimums on A-4A, -4B, -4C, and -4E.
 (B) Catapult end speed is limited by a maximum longitudinal acceleration of 5.08g up to a gross weight of 19,480 lb. on the C11-1 catapult and 19,280 lb. on the C-7 catapult, and a tow force of 94,400 lb. at higher gross weights.
 (C) Minimum wind over deck required for C-7 catapult is C11-1 requirement minus 12 knots.

NOTES

- (D) Engaging speed limited by 5.14g maximum horizontal load factor.
 (E) Approach speeds based on fleet operational speeds and corresponding to 17½ units on the pilot's angle-of-attack indicator.
 (F) Wave-off acceleration based on longitudinal acceleration at fleet operational approach speeds.
 (G) Spotting: A total of 175 airplanes can be accommodated in a landing spot on the flight and hangar decks of a CVA-59 class carrier.

A-4C

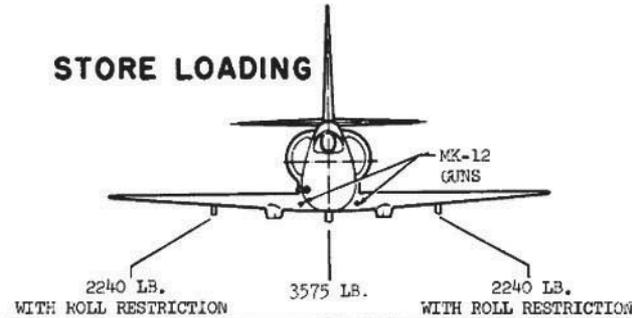
MISSION SUMMARY — ALTERNATE LOADINGS

		CLOSE SUPPORT		HI-LO-LO-HI		HI-HI-HI		LO-LO-LO		HI-LO-HI	
EXTERNAL STORE LOADING (A)	T.O.G.W.	COMBAT RADIUS n. mi.	MISSION TIME hr.								
③ (1) MK 28	18,443	115	1.6	180 (D)	1.2	390	1.9	170	1.2	295	1.5
⑦ (2) AGM 12B (BULLPUP A) (1) 300 Gal. Drop Tank	19,960	295	2.4	340	1.9	550	2.7	255	1.8	460	2.3
⑪ (1) MK 28 (2) 300 Gal. Drop Tanks	22,500 (-420)	425	3.0	485	2.6	685	3.3	330	2.3	600	2.9
⑫ (6) MK 81 Snakeyes	18,327	95	1.5	170 (D)	1.2	355	1.8	160	1.2	265	1.4
⑬ (6) MK 81 Snakeyes (2) 300 Gal. Drop Tanks	22,500 (-304)	390	2.9	455	2.5	640	3.1	315	2.3	560	2.8
⑭ (6) MK 82 Snakeyes	19,917	75 (D)	1.7	160 (D)	1.2	315	1.6	155	1.2	240	1.3
⑮ (6) MK 82 Snakeyes (2) 300 Gal. Drop Tanks	22,500 (-1894)	225	2.1	300	1.8	475	2.4	240	1.8	405	2.1
⑯ (12) MK 81 Snakeyes (6) MK 82 Snakeyes	22,500 (-1335)	--	--	--	--	140	0.8	85	0.7	95 (D)	0.6
⑰ (2) LAU 3A/A Rocket Packs (1) 300 Gal. Drop Tank	19,424	325	2.5	370	2.0	590	2.9	265	1.9	500	2.4

NOTES

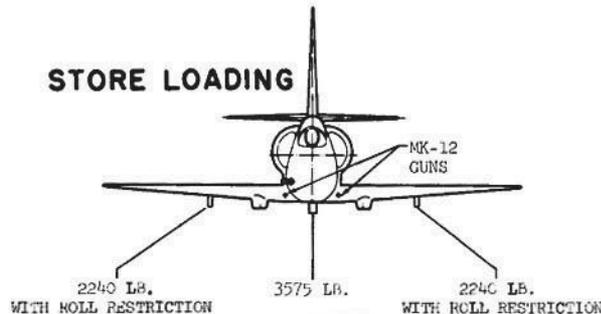
- (A) Some loadings will not utilize entire fuel capacity due to takeoff weight limitations (amount of fuel off-loaded shown below takeoff gross weight).
 (B) All loadings include guns and ammunition and two wing pylons.
 (C) Data basis: NATC and DAC flight tests of the Models A-4A, A-4B, and A-4C.
 (D) Based on cruise at intermediate altitude instead of optimum cruise altitude to obtain maximum climb plus cruise distance.

STORE LOADING



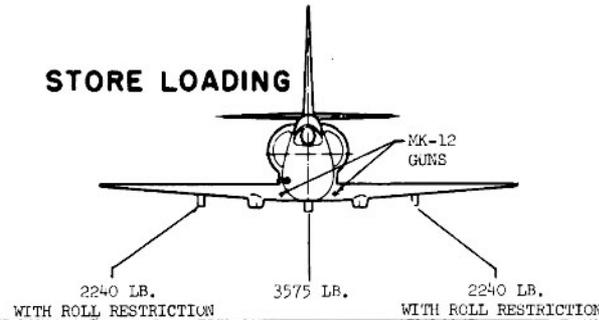
Oránance			Station No. 3 Left Wing	Station No. 2 Fuselage Centerline	Station No. 1 Right Wing		
Suspension Equipment			1) Aero 20A Rack-Pylon 1) Aero 1A Adapter 1) MK-44 Missile Cluster Adapter (Lazy Dog) 1) Aero 3A Launcher 1) Aero 5A-1 Launcher Adapter 1) Aero 5A Pylon-Launcher 1) A/A 37B-1 MBR 1) A/A 37B-3 PMBR 1) MER 1) TER	1) Aero 20A 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) MER 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) MER 1) TER		
Bombs			6) MK-81 6) MK-81 Snakeyes 3) MK-82 6) 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	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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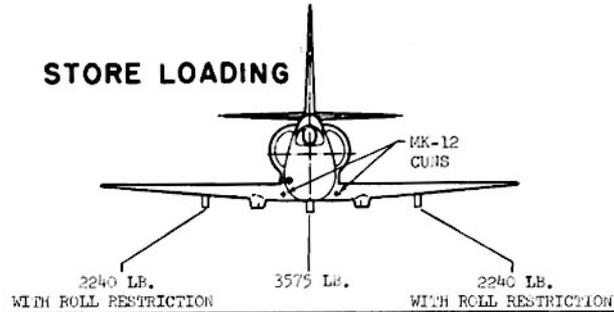
Ordnance			Station No. 3 Left Wing	Station No. 2 Fuselage Centerline	Station No. 1 Right Wing		
Bombs (Continued)			1) Aero 7A (Lazy Dog) 1) MK-44 Cluster Adapter (Lazy Dog)	1) MK-44 Cluster Adapter (Lazy Dog)	1) Aero 7A (Lazy Dog) 1) MK-44 Cluster Adapter (Lazy Dog)		
Guided Missiles			1) AGM-12A, -12B 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	Station No. 2 Fuselage Centerline	Station No. 1 Right Wing		
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/EDU-8B /EDU-18 1) MK-57/EDU-12 /EDU-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 LAU-32 and A/A37B-3 PMBR 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

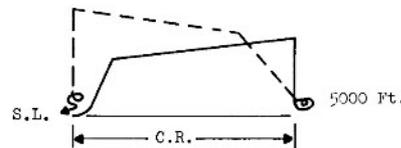
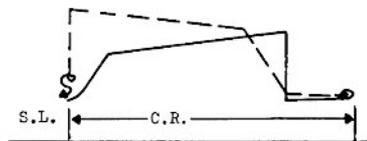
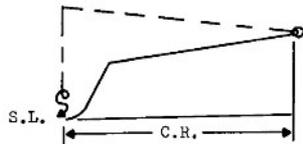
Warm-Up, Taxi, Takeoff: 5 min
S.L. NRP
Climb: On course to opt cruise
alt with Mil power
Cruise Out: At max range speed
at opt cruise alt (drop
fuel tanks when empty)
Descend: To S.L. when 50 n mi
from target (no fuel used
no distance gained)
Run In: 50 n mi at V_{max} at MRT
Combat: 5 Min at MRT (stores 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 1000 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)

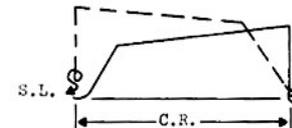
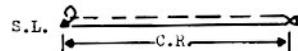
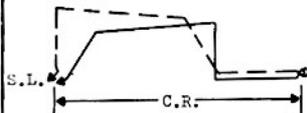
Combat: 5 Min. at MRT (stores on, no
distance gained)

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