

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/4D (Rev. 7-65)



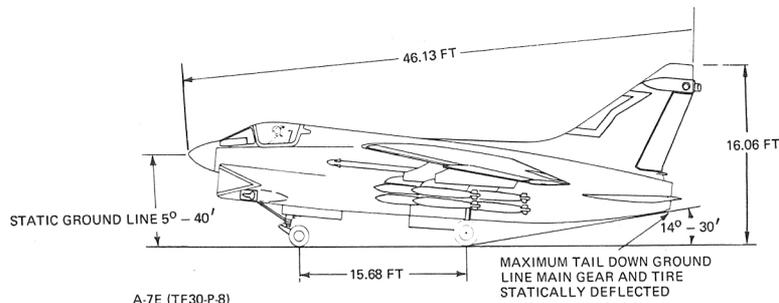
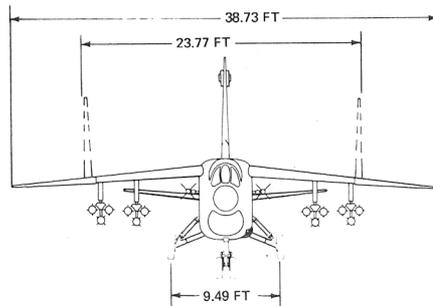
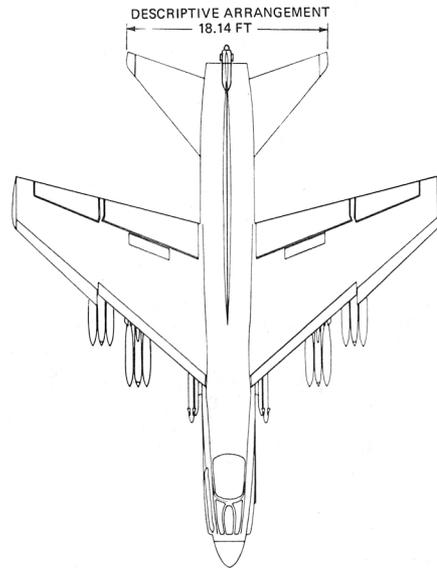
STANDARD AIRCRAFT CHARACTERISTICS

A-7C

(PRATT & WHITNEY TF30-P-8 ENGINE)

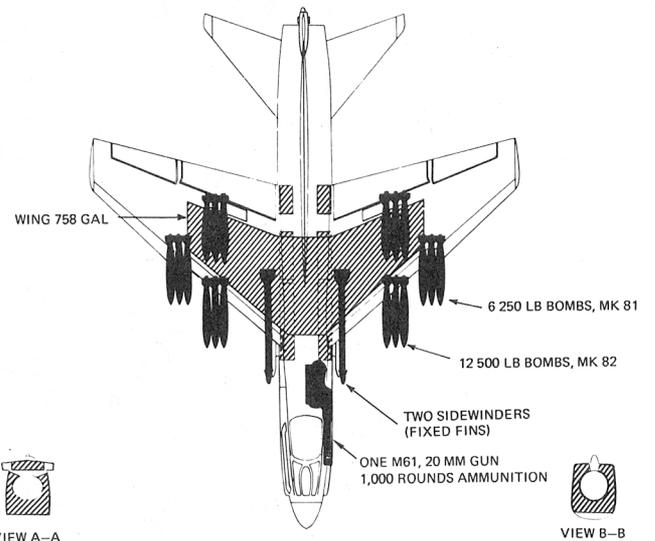
VOUGHT AERONAUTICS DIVISION
LTV AEROSPACE CORPORATION
DALLAS, TEXAS

NOTE: NAVAIR NOTICE 13100 DTD
15 JUNE 1971 REDESIGNATED THE
A-7E (TF30-P-8) THE A-7C. IN
THESE CHARTS THE TWO DESIGNA-
TIONS ARE INTERCHANGEABLE.

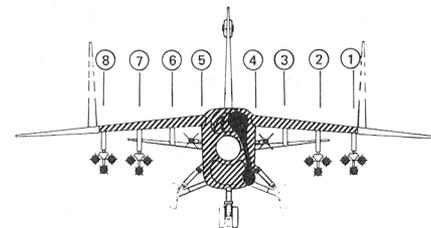


A-7E (TF30-P-8)

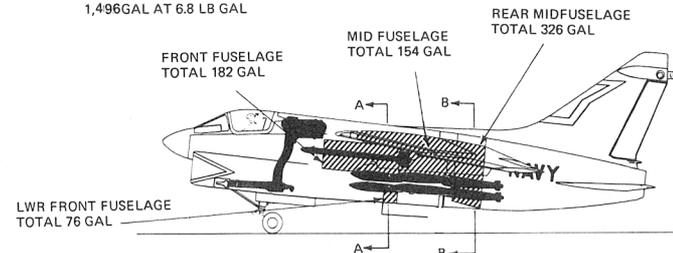
ARMAMENT AND TANKAGE



WET PYLONS - 1 AND 3, 6 AND 8



ARMAMENT
FUEL CELLS
TOTAL USABLE CAPACITY
1,496 GAL AT 6.8 LB GAL



STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/4F (Rev. 7-65)

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEP FORM 13100/4A (Rev. 7-65)

ELECTRONICS	MISSION AND DESCRIPTION	WEIGHTS																																																																												
<p>Communications Encoder Juliet 28 Heading Mode System Data Link AN/ASW-25A UHF Radio Receiver- Transmitter AN/ARC-51A Radio Set Control C-8191/ARC Switching Unit SA-1652/ARC Freq Channel Ind ID-1660/ARC UHF ADF AN/ARA-50 UHF Receiver AN/ARR-69A Doppler Radar System AN/APN-190(V) Radar Beacon AN/APN-154 2-Inch Remote Attitude IND System Air Data Computer CP-953/AJQ IFT Transponder AN/APX-72 TACAN AN/ARN-52(V) Intercom AN/AIC-25 Automatic Flight Control System AN/ASW-30(V) 1 Roll/Pitch Trim System Nose Gear Steering System Approach Power Compensating System AN/ASN-54 (V) Angle-of-Attack System Head-Up Display AN/AVQ-7 (V) Radio Command Control Transmitter AN/ARW-77 Forward-Looking Radar AN/APQ-126(V) Electrical Fusing System AN/AWW-2B Armament Monitor and Control A/A24B-4 (V) Shrike Signal Conditioner (SIDS) Radar Altimeter AN/APN-141(V) Inertial Measurement Set AN/ASN-90(V) Nav/WD Digital Computer AN/ASN-91(V) Armament Stations Control Unit C-8185/AWE Interference Blanker MX-8253/A Destruct Initiator MX-7832/ASQ Destruct Battery Countermeasures Receiver- Transmitter AN/ALQ-100 ECM Warning Receiver AN/APR-27 ECM Warning Receiver AN/APR-25(V) Countermeasures Dispenser Set AN/ALE-29A Integrated ECM Control Projected Map Display Set AN/ASN-99 ADS (Altitude Reporting) AAU-19 Servoed Altimeter AIMS MK 12 Computer KIT-1/TSEC Inflight Monitor TS 1843/APX Indicator AAU-19/A</p>	<p>The A-7E is a single-place, carrier-based, turbofan, light attack airplane developed from the A-7B. The airplane is designed to provide high attack utility and flexibility for close support and interdiction missions by virtue of a large number of external store stations to provide ordnance loading capacity and freedom of ordnance choice, a large internal fuel capacity to make external fuel unnecessary for most missions, while retaining a maximum number of stations for armament, an excellent overload capability in terms of wind-over-deck requirements, flying qualities, and structural integrity. Features to expedite maintenance and airplane turnaround are important A-7E design characteristics.</p> <p>The A-7E has fixed wing incidence and a high-lift system composed of leading edge flaps and single slotted trailing edge flaps. Lateral control is provided by outboard ailerons and inboard spoilers. Superior stability and control qualities over the entire aircraft speed envelope, including transonic, are features of the A-7E.</p> <p>A stick steering autopilot is provided to augment the weapon system capability. An approach power compensator provides automatic speed control for carrier landing.</p> <p>In addition to the basic A-7B features, the A-7E provides a high accuracy flexible weapons delivery system, an M61 Vulcan cannon, a head-up display to aid the pilot during weapons delivery, enroute, and terrain following and landing modes.</p> <p>Weapon delivery improvements include a new all-weather type radar, digital weapon delivery and navigation computer, inertial quality platform, head-up display, projected map display, a new air data computer, and a new roll stabilized doppler radar system.</p>	<p style="text-align: right;">TF30-P-8</p> <table border="0"> <tr> <td style="text-align: left;"><u>Loading</u></td> <td style="text-align: right;"><u>Pounds</u></td> </tr> <tr> <td>Empty</td> <td style="text-align: right;">17,569</td> </tr> <tr> <td>Basic</td> <td style="text-align: right;">18,250*</td> </tr> <tr> <td>Design</td> <td style="text-align: right;">29,575</td> </tr> <tr> <td>Combat</td> <td style="text-align: right;">27,443*</td> </tr> <tr> <td>Max T.O. (Overload)</td> <td style="text-align: right;">42,000*</td> </tr> <tr> <td>Max T.O. (Normal)</td> <td style="text-align: right;">35,890</td> </tr> <tr> <td>Max Ldg (Carrier)</td> <td style="text-align: right;">25,300</td> </tr> </table> <p style="text-align: right;">*Includes 284 pounds Engine Armor</p>	<u>Loading</u>	<u>Pounds</u>	Empty	17,569	Basic	18,250*	Design	29,575	Combat	27,443*	Max T.O. (Overload)	42,000*	Max T.O. (Normal)	35,890	Max Ldg (Carrier)	25,300																																																												
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SERVICE

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPFORM 13100/4J (Rev. 7-65)

TAKEOFF LOADING CONDITION		① HI-HI-HI MISSION CLEAN AIRPLANE	② PRIMARY ATTACK MISSION 6 MK 81 SNAKEYES	③ PRIMARY ATTACK MISSION 12 MK 81 SNAKEYES	④ 5,000 FT LOITER MISSION 12 MK 82 AND 6 MK 81 BOMBS	⑤ DEEP STRIKE MISSION 1 MK 28 AND 3-300-GAL TANKS	⑥ FERRY MISSION 2-300-GAL TANKS
Takeoff weight	lb	28,945	31,512	33,557	38,212	38,727	33,929
Fuel - internal/external	lb/lb	10,172/0	10,172/0	10,172/0	10,172/0	10,172/6,120	10,172/4,080
Payload ^①	lb	0	1,800	3,600	7,500	2,000	0
Wing loading	lb/sq ft	77.2	84.0	89.5	101.9	103.3	90.5
Stall speed - power - off	kn	128	132	136	146	146	138
Takeoff grd run/over 50 ft obs - calm 59°F ^② SL	ft/ft	3,020/4,240	3,650/5,160	4,210/6,000	5,690/8,240	5,860/8,300	4,350/6,260
Takeoff grd run/over 50 ft obs - calm 89.6°F ^② SL	ft/ft	3,750/5,360	4,580/6,590	5,310/7,780	7,220/11,020	7,320/11,080	5,490/8,150
MRT max speed/altitude	kn/ft	587/SL	538/12,500	529/14,000	470/8,000	530/8,500	554/8,000
MRT rate of climb at SL	fpm	8,097	6,214	6,214	4,940	4,300	5,500
MRT time: SL to 20,000 ft ^③	min	4.0	5.0	6.3	9.5	7.1	5.2
MRT time: SL to 30,000 ft ^③	min	6.8	11.3	-	-	-	10.9
MRT service ceiling (100 fpm)	ft	40,500	34,420	31,020	25,240	29,750	34,780
Combat range	nmi	2,303	1,554	1,294	946	2,576	2,565
Average cruising speed	kn	473	415	405	377	435	440
Cruising altitude(s)	ft	38,492/44,483	31,605/38,222	27,771/34,635	20,964/27,525	25,355/38,774	32,052/41,251
Combat radius/mission time ^④	nmi/hr	1,058/4.55	641/3.39	567/3.08	360/2.86	1,117/5.19	-
Average cruising speed	kn	473	426	421	390	434	-
IFR refuel radius / ^⑤ mission time ^④		1,754/7.53	1,168/6.09	1,026/5.49	704/4.85	-	-
Fuel transferred/distance from base	lb/nmi	5,372/1,144 ^⑦	5,472/774 ^⑧	5,202/640 ^⑩	5,100/466 ^⑩	-	-
Acceleration at CES at 89.6°F ^②	ft/sec/sec	3.91	3.09	2.45	1.35	1.33	2.29
COMBAT LOADING CONDITION ^④		⑦	⑧	⑨	⑩	⑪	⑫
Combat weight	lb	24,876	27,443	29,488	34,143	32,210	28,228
Engine power		Military	Military	Military	Military	Military	Military
Fuel	lb	6,103	6,103	6,103	6,103	9,775	8,551
Combat speed/combat altitude	kn/ft	563/22,500	525/SL	510/SL	471/5,000	525/SL	-
Rate of climb/combat altitude	fpm/ft	5,100/22,500	6,580/SL	5,760/SL	3,600/5,000	5,470/SL	-
Combat ceiling (500 fpm)	ft	41,600	35,100	31,400	25,300	31,600	37,600
Rate of climb at SL	fpm	8,220	6,580	5,760	4,480	5,470	6,750
Max speed at SL	kn	588	525	510	467	525	549
Max speed/altitude	kn/ft	588/SL	540/13,500	532/15,000	473/9,000	533/9,500	556/8,000
Landing weight ^⑬		19,810	20,613	20,877	21,669	21,199	20,680 ^⑬
Fuel	lb	1,037	1,073	1,091	1,129	1,388	1,287
Stall speed - power off/appr power	kn/kn	105/102	107/104	108/105	110/106	108/105	107/104
Dist grd roll ^⑭ / over 50 ft obs	ft/ft	2,630/3,585	2,721/3,676	2,753/3,708	2,825/3,780	2,740/3,695	2,733/3,688

Notes:

- ① Payload is droppable ordnance. Does not include 500 rounds of ammunition or external fuel tanks.
- ② Military thrust.
- ③ Climb times consider weight reduction due to fuel used.
- ④ Mission time excludes time for warmup and takeoff and 20-minute loiter at sea level.
- ⑤ Cycle time is mission time +20-minute loiter at sea level.
- ⑥ Refuel radius is determined with refueling to full internal fuel capacity of 10,172 pounds. Refueling altitude is cruise ceiling with full internal fuel.
- ⑦ Refuel altitude is 38,126 ft.
- ⑧ Refuel altitude is 30,298 ft.
- ⑨ Refuel altitude is 26,414 ft.
- ⑩ Refuel altitude is 19,535 ft.
- ⑪ 283 lb ammunition retained.
- ⑫ 283 lb ammunition and external fuel tanks retained.
- ⑬ Antiskid braking.
- ⑭ Combat loading performance includes stores and ammunition.

SUPPLEMENTARY MISSIONS

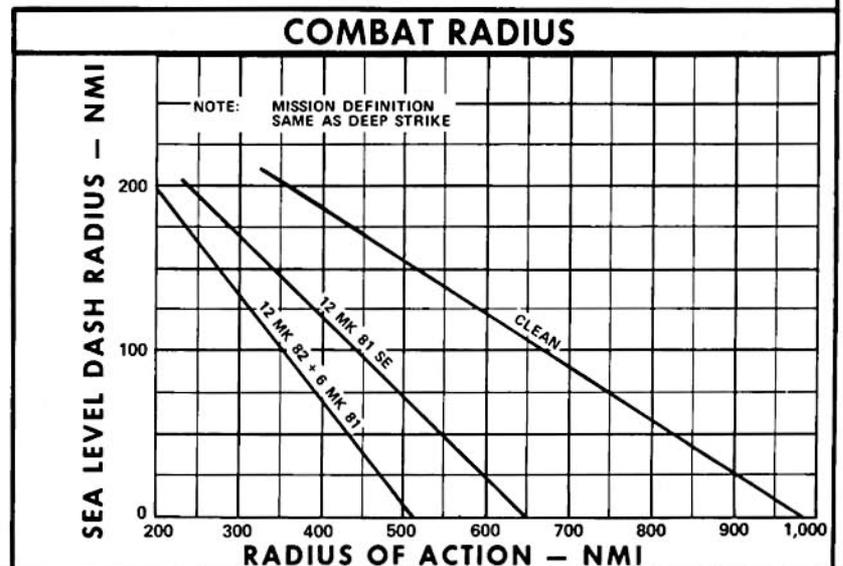
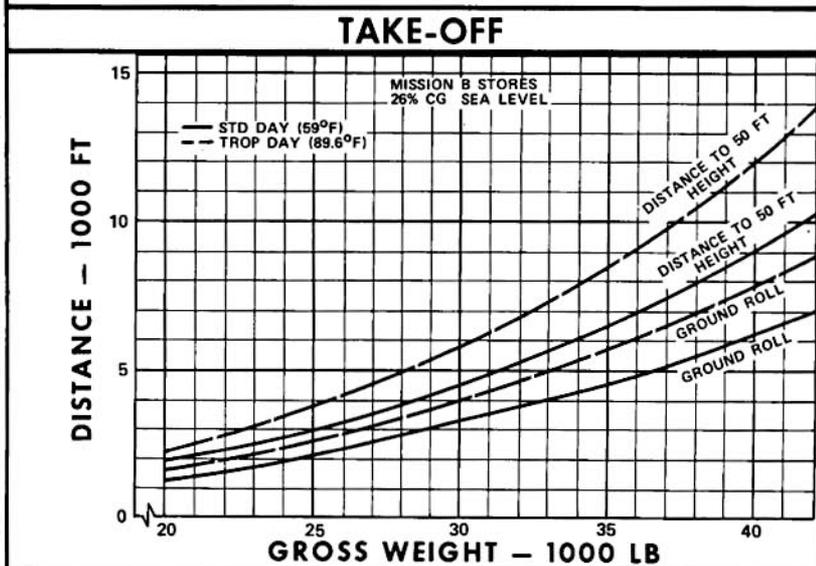
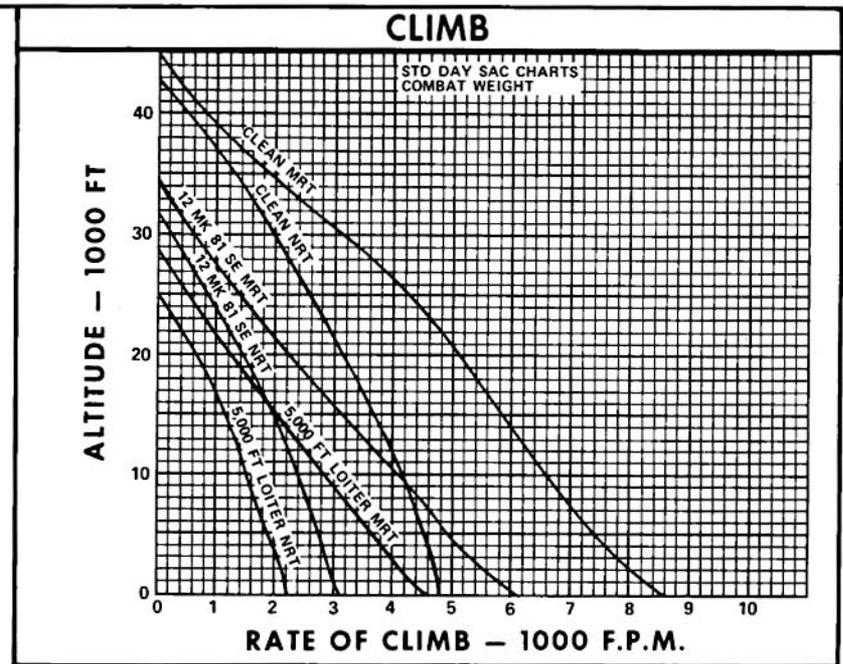
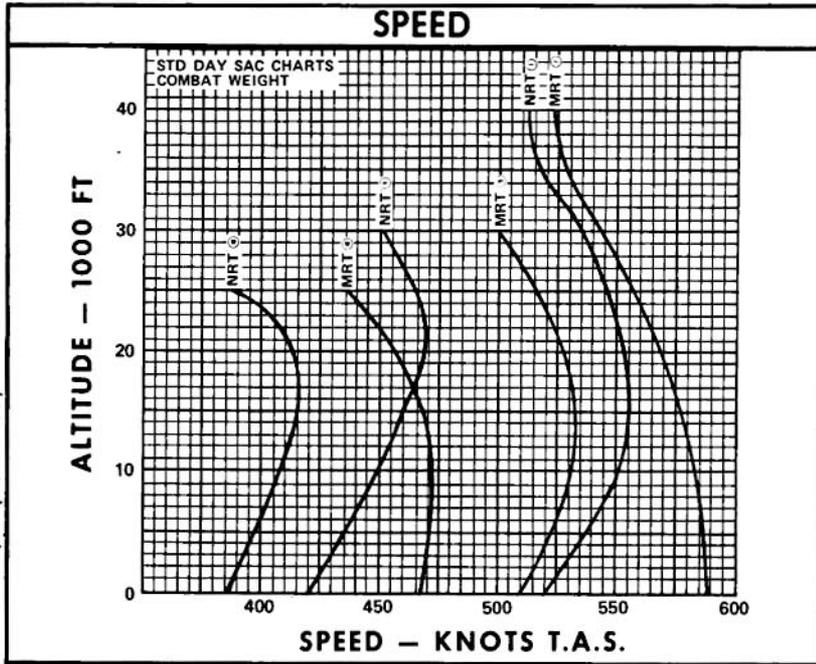
MISSION LOADINGS FUEL - GAL TAKEOFF WT - LB	100 NMI IN AND OUT		200 NMI IN AND OUT		LO-LO-LO		5,000 FT LOITER		HI-HI-HI	
	R/A NMI	• TIME HR	R/A NMI	• TIME HR	R/A NMI	• TIME HR	R/A NMI	• TIME HR	R/A NMI	• TIME HR
1 MK 28 1,496 GAL INT 31,189, a = 3.285 FT/SEC ² ...	767	3.68	652	3.47	469	3.45	730	4.15	941	4.14
1 MK 28 1,496 GAL INT 900 GAL EXT 38,727, a = 1.357 FT/SEC ² ...	1142	5.60	1055	5.46	720	5.15	1,085	6.00	1,296	6.04
6 MK 81 SE 1,496 GAL INT 31,512, a = 3.183 FT/SEC ²	639	3.39	546	3.42	430	3.31	592	3.81	798	3.85
6 MK 81 SE 1,496 GAL INT 1,200 GAL EXT 41,542, a = 0.910 FT/SEC ²	993	5.45	920	5.32	694	5.15	923	5.78	1,115	5.80
6 MK 82 SE 1,496 GAL INT 33,072, a = 2.726 FT/SEC ²	604	3.25	516	3.10	417	3.21	543	3.60	742	3.62
6 MK 82 SE 1,496 GAL INT 1,200 GAL EXT ... 43,102, a = 0.736 FT/SEC ²	938	5.20	869	5.08	673	5.00	858	5.48	1,055	5.54
20 MK 82 SE 1,496 GAL INT ... 42,083, a = 0.842 FT/SEC ²	372	2.33	326	2.30	318	2.49	253	2.39	443	2.49
12 MK 82 6 MK 81 2 MK 84 1,496 GAL INT ... 42,700, a = 0.775 FT/SEC ²	386	2.36	338	2.32	328	2.51	268	2.44	460	2.55

NOTES

- MISSION TIME: EXCLUDES TIME FOR WARMUP AND TAKEOFF AND 20-MINUTE LOITER TIME
- BCS: BEST CRUISE SPEED
- ACCELERATION AFTER CATAPULT AT 0.85 C_{Lmax} AT 89.6°F, MILITARY THRUST
- FOR PERFORMANCE INFORMATION ONLY. MAXIMUM TAKEOFF WEIGHT RESTRICTED TO 42,000 POUNDS

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/41 (Rev. 7-65)

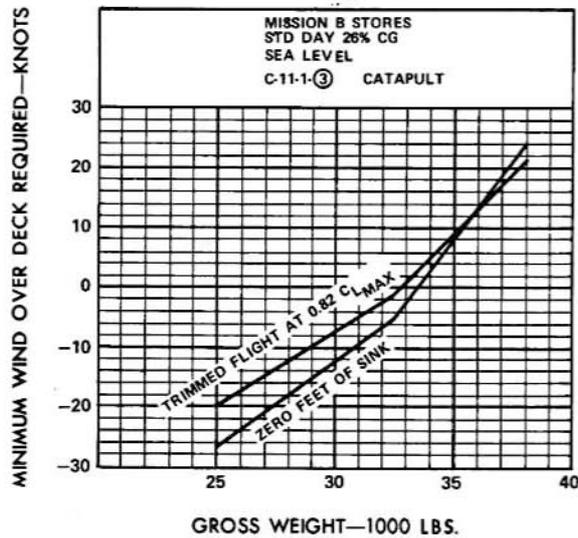
STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/4F (Rev. 7-65)



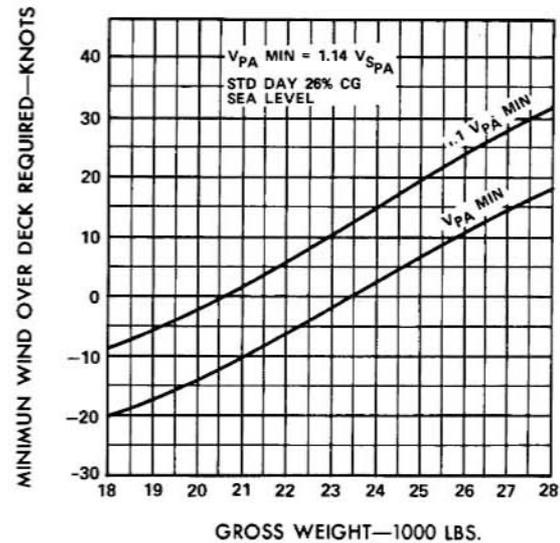
○ LOADING CONDITION COLUMN NUMBER — TF30-P-8 ENGINE

CARRIER SUITABILITY

MINIMUM WIND OVER DECK REQUIRED FOR CATAPULTING
VS. GROSS WEIGHT



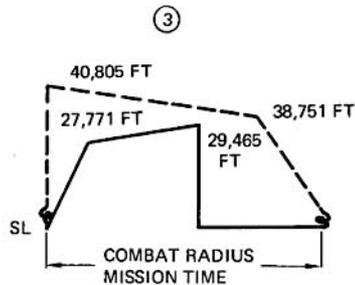
MINIMUM WIND OVER DECK REQUIRED FOR ARRESTING
VS. GROSS WEIGHT



STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/4H (Rev. 7-65)

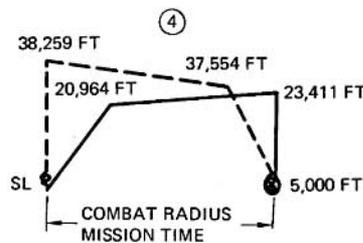
PRIMARY ATTACK MISSION
(12 MK 81 SE)

Warmup, taxi, takeoff: 5 min SL NRT
 Climb: on course to opt cruise alt with mil thrust
 Cruise out: at speed for max range at opt cruise alt
 Descend: to SL (no fuel used, no distance gained)
 Run in: 200 NMI at SL at speed for max range
 Combat: 5 min at MRT (stores on, no dist gained) drop bombs
 Climb: on course to opt cruise alt with mil thrust
 Cruise back: at max range speed at opt alt
 Reserve: 5% of initial fuel +20 min at max endurance speed at SL



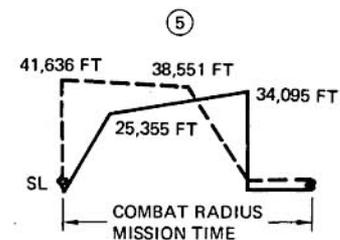
5000 FT LOITER MISSION

Warmup, taxi, takeoff: 5 min SL NRT
 Climb: on course to opt cruise alt with mil thrust
 Cruise out: at max range speed at opt cruise alt (drop fuel tanks when empty)
 Descend: to 5,000 ft (no fuel used, no dist gained)
 Loiter: 1 hour at max end. speed (no dist gained) stores dropped at end of loiter
 Climb: on course to opt cruise alt with mil thrust
 Cruise back: at max range speed at opt alt
 Reserve: 5% initial fuel +20 min at max endurance speed at SL



DEEP STRIKE MISSION

Warmup, taxi, takeoff: 5 min SL NRT
 Climb: on course to opt cruise alt with mil thrust
 Cruise out: at max range speed at opt cruise alt (drop fuel tanks when empty)
 Descend: to SL when 50 NMI from target (no fuel used, no dist gained)
 Run in: 50 NMI at V_{max} at MRT
 Combat: 5 min at MRT (stores on, no dist gained) drop bombs
 Run out: 50 NMI at V_{max} at MRT at SL
 Climb: on course to opt cruise alt with mil thrust
 Cruise back: at max range speed at opt alt
 Reserve: 5% initial fuel +20 min at max endurance speed at SL



Note:
 Mission Time: Excludes time for warmup and takeoff and 20-minute loiter time
 Cycle Time: Mission time +20 minutes SL loiter

○ LOADING CONDITION COLUMN NUMBER

STANDARD AIRCRAFT CHARACTERISTICS, NAV WEPS FORM 13100/4G (Rev. 7-65)

STANDARD AIRCRAFT CHARACTERISTICS, NAVWEPS FORM 13100/4G [Rev. 7.65]

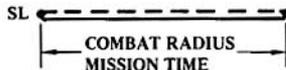
**HI-LO-LO-HI
MISSION**

Warmup, taxi, takeoff: 5 min SL NRT
 Climb: on course to opt cruise alt with mil thrust
 Cruise out: at max range speed at opt cruise alt (drop fuel tanks when empty)
 Descend: to SL when 100/200 NMI from target (no fuel used, no dist gained)
 Cruise: at max range speed at SL (drop fuel tanks when empty)
 Combat: 5 min at MRT (stores on, no distance gained)
 Drop stores
 Cruise: at max range speed at SL to a point 100/200 NMI from target
 Climb: on course to opt cruise alt with mil thrust
 Cruise back: at max range speed at opt alt
 Reserve: 5% initial fuel +20 min at max endurance speed at SL



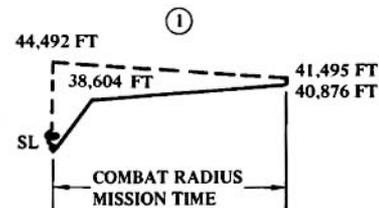
**LO-LO-LO
MISSION**

Warmup, taxi, takeoff: 5 min SL NRT
 Cruise: at max range speed at SL (drop fuel tanks when empty)
 Combat: 5 min at MRT (stores on, no distance gained)
 Drop stores
 Cruise: at max range speed at sea level
 Reserve: 5% initial fuel +20 min at max endurance speed at SL



**HI-HI-HI
MISSION**

Warmup, taxi, takeoff: 5 min SL NRT
 Climb: on course to opt cruise alt with mil thrust
 Cruise out: at max range speed at opt cruise alt (drop fuel tanks when empty)
 Combat: 5 min at MRT (stores on, no dist gained) at alt for max mach no.
 Drop stores
 Cruise back: at max range speed at opt alt
 Reserve: 5% initial fuel +20 min at max endurance speed at SL



Note:
 Mission Time: Excludes time for warmup and takeoff and 20-minute loiter
 Cycle Time: Mission time +20 minutes SL loiter

○ LOADING CONDITION COLUMN NUMBER