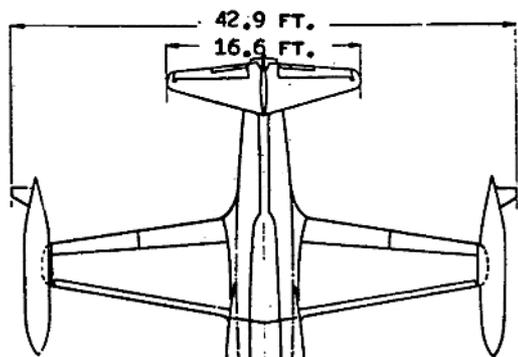


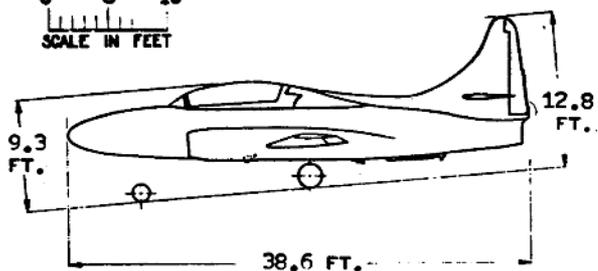
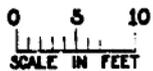
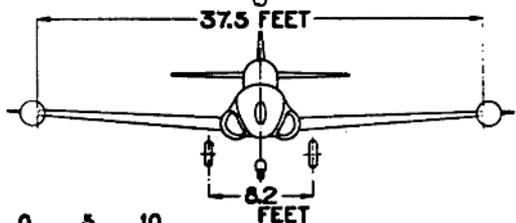


STANDARD AIRCRAFT CHARACTERISTICS

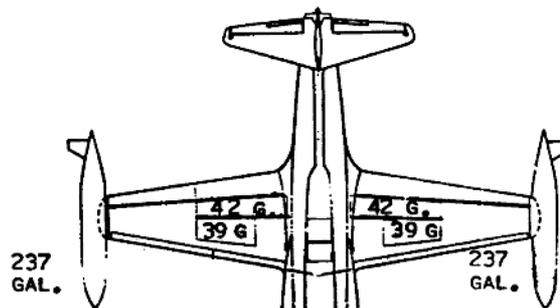
T-1A SEASTAR



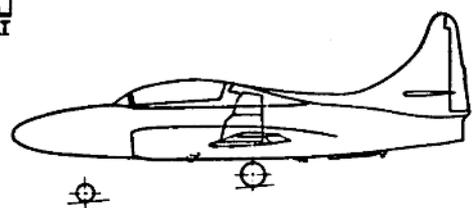
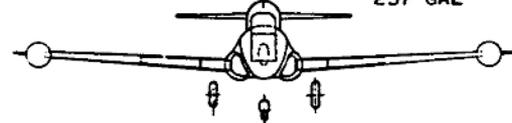
WING AREA (INCLUDING FUSELAGE PORTION) - 232.8 SQ. FT.
 WING SECTION
 NACA-65, -213_A = 5
 ASPECT RATIO -606



DESCRIPTIVE ARRANGEMENT



CHANGE FUEL CAPACITIES
 CENTER TANK: 149 GAL
 WING TANKS:
 LFT & RT AFT 42 GAL EA.
 LFT & RT FWD 39 GAL EA.
 TIP TANK:
 237 GAL



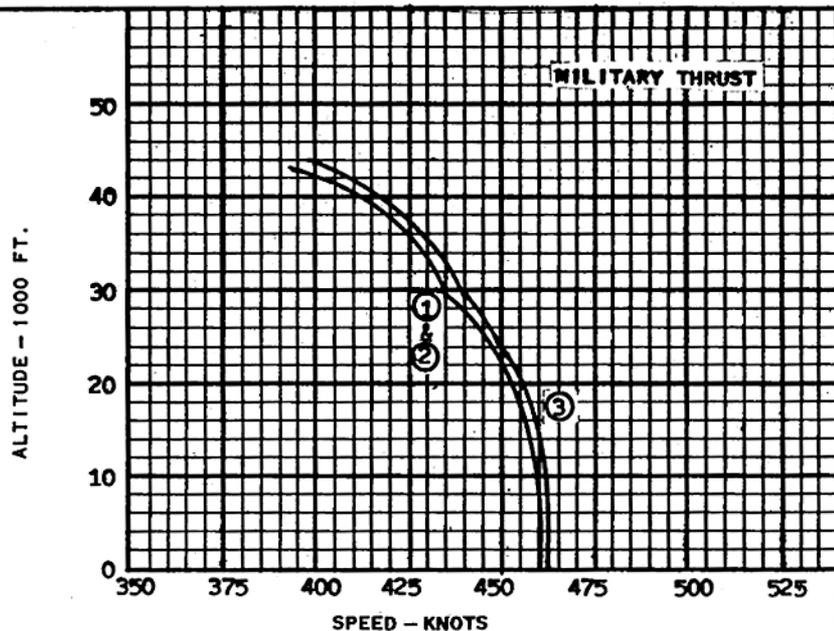
ALL TANKS ARE NON SELF-SEALING

ARMAMENT AND TANKAGE

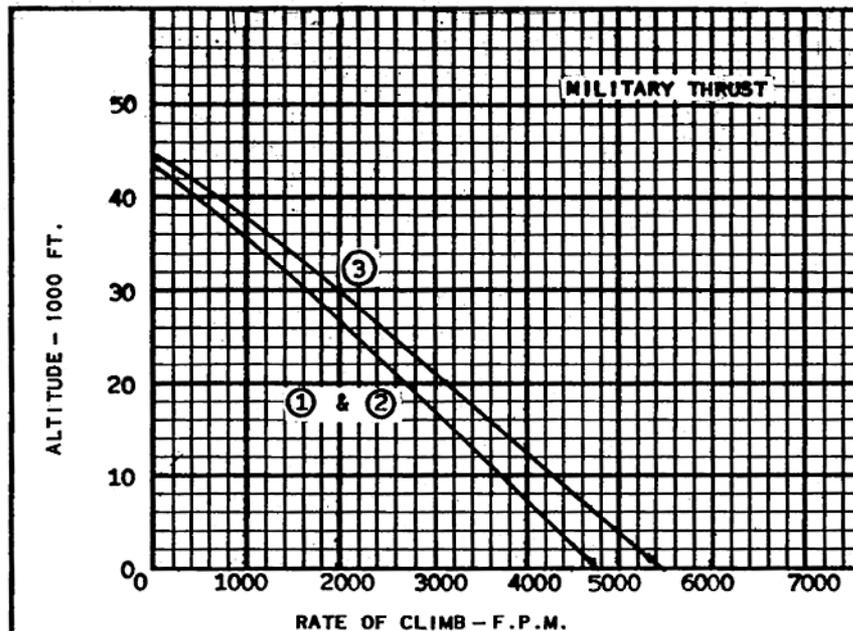
POWER PLANT			MISSION AND DESCRIPTION		ORDNANCE																											
No. & Model..... (1) J33-A-24 Mfr Allison Type Centrifugal Length 107" Diam 50" Augmentation None			The T-1A is a two-place single engine trainer designed for land or carrier base operations. The primary mission is to train pilots in aerobatics, confidence maneuvers, instrument flying and carrier landing and take-off operations.		None																											
RATINGS <table border="0"> <thead> <tr> <th></th> <th><u>LBS.</u></th> <th>@ <u>RPM</u></th> <th>@</th> <th><u>ALT.</u></th> </tr> </thead> <tbody> <tr> <td>MIL</td> <td>6100</td> <td>11800</td> <td></td> <td>SSL</td> </tr> <tr> <td>NORM</td> <td>5050</td> <td>11200</td> <td></td> <td>SSL</td> </tr> </tbody> </table> Specification No. 405				<u>LBS.</u>	@ <u>RPM</u>	@	<u>ALT.</u>	MIL	6100	11800		SSL	NORM	5050	11200		SSL	Design features include fully automatic leading edge slats and single-slotted trailing edge flaps with blowing system boundary layer control. The airplane has fixed wing tip tanks, arresting hook and catapult equipment.		FUEL AND OIL <table border="0"> <thead> <tr> <th><u>No. Tanks</u></th> <th><u>Tot. Gals</u></th> <th><u>Location</u></th> </tr> </thead> <tbody> <tr> <td>4</td> <td>162</td> <td>Wing</td> </tr> <tr> <td>1</td> <td>149</td> <td>Fuselage</td> </tr> <tr> <td>2</td> <td>474</td> <td>Wing Tip</td> </tr> </tbody> </table> Fuel Grade JP-4 Fuel Spec..... MIL-F-5624B	<u>No. Tanks</u>	<u>Tot. Gals</u>	<u>Location</u>	4	162	Wing	1	149	Fuselage	2	474	Wing Tip
	<u>LBS.</u>	@ <u>RPM</u>	@	<u>ALT.</u>																												
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WEIGHTS <table border="0"> <thead> <tr> <th><u>LOADING</u></th> <th><u>LBS.</u></th> <th><u>L.F.</u></th> </tr> </thead> <tbody> <tr> <td>EMPTY</td> <td>10,844</td> <td>.....</td> </tr> <tr> <td>BASIC</td> <td>11,023</td> <td>.....</td> </tr> <tr> <td>DESIGN</td> <td>16,600</td> <td>.. 7.06</td> </tr> <tr> <td>COMBAT</td> <td>13,899</td> <td>.....</td> </tr> <tr> <td>MAX.T.O.(Field) ..</td> <td>16,600</td> <td>.....</td> </tr> <tr> <td>(Cat)</td> <td>16,500</td> <td>.....</td> </tr> <tr> <td>MAX.LAND(Field)</td> <td>14,500</td> <td>.....</td> </tr> <tr> <td>(Cat)</td> <td>14,500</td> <td>.....</td> </tr> </tbody> </table> ALL WEIGHTS ARE ESTIMATED			<u>LOADING</u>	<u>LBS.</u>	<u>L.F.</u>	EMPTY	10,844	BASIC	11,023	DESIGN	16,600	.. 7.06	COMBAT	13,899	MAX.T.O.(Field) ..	16,600	(Cat)	16,500	MAX.LAND(Field)	14,500	(Cat)	14,500	DEVELOPMENT First Flight 1 January 1956 Service Use 1 January 1957		OIL Capacity (Gals)..... 3 Grade1010 Spec MIL-O-6081A
<u>LOADING</u>	<u>LBS.</u>	<u>L.F.</u>																														
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			DIMENSIONS Wing Area 233 Sq. Ft. Span 37' - 7" MAC 6' - 9" Length 38' - 6" Height 12' - 10" Tread 8' - 2"		ELECTRONICS Automatic Dir Finder... AN/ARA-25 UHF Command AN/ARC-27A Marker Beacon Rec AN/ARN-12 Radio Compass Rec AN/ARN-6 VHF Navigation RecAN/ARN-14E TACAN.....AN/ARN-21 Glide Path Rec..... AN/ARN-18 Identification Radar ... AN/APX-6 Coder AN/APA-89 Interphone AN/AIC-10 Radar Altimeter AN/APN-22																											

PERFORMANCE SUMMARY					
TAKE-OFF LOADING CONDITION		(1) TRAINER	(2) FIGHTER (SIMULATED)		
TAKE-OFF WEIGHT	LB.	16,426	16,426		
FUEL INTERNAL (JP-4)	LB.	4,940	4,940		
PAYLOAD	LB.	NONE	NONE		
WING LOADING	LB./SQ.LB.	70.6	70.6		
STALL SPEED - POWER-OFF	KN.	110.5	110.5		
TAKE-OFF RUN AT S.L. - CALM	FT.	2,360	2,360		
TAKE-OFF RUN AT S.L. - KN. WIND	FT.	--	--		
TAKE-OFF TO CLEAR 50 FT. - CALM	FT.	3500	3500		
MAX. SPEED/ALTITUDE (A)	KN./FT.	460/S.L.	460/S.L.		
RATE OF CLIMB AT S.L. (A)	FPM.	4660	4660		
TIME: S.L. TO 20000 FT. (A)	MIN.	5.0	5.0		
TIME: S.L. TO 30000 FT. (A)	MIN.	10.0	10.0		
SERVICE CEILING (100 FPM.) (A)	FT.	41,800	41,800		
COMBAT RANGE	N.MI.	738	738		
AVERAGE CRUISING SPEED	KN.	367	367		
CRUISING ALTITUDE(S)	FT.	40,800/46,000	41,000/44,500		
COMBAT RADIUS/MISSION TIME	N.MI./HR.	243.0	271		
AVERAGE CRUISING SPEED	KN.	372			
Mission Time	hrs.	1/340	1.465		
COMBAT LOADING CONDITION			(3) CLEAN		
COMBAT WEIGHT	LB.		14,450		
ENGINE POWER			Military		
FUEL	LB.		2,965		
COMBAT SPEED/COMBAT ALTITUDE	KN./FT.		430/35,000		
RATE OF CLIMB/COMBAT ALTITUDE	FPM./FT.		1260/35,000		
COMBAT CEILING (500 FPM.)	FT.		40,500		
RATE OF CLIMB AT S.L.	FPM.		5,440		
MAX. SPEED AT S.L.	KN.		461		
MAX. SPEED/ALTITUDE	KN./FT.		430		
LANDING WEIGHT	LB.	12,400	12,400		
FUEL	LB.	914	914		
STALL SPEED - POWER-OFF/APPR. POWER	KN./KN.	96.9	96.9		
DIST. - GRD ROLL/OVER 50 FT. OBS.	FT./FT.	95/90.0	95/90.9		
NOTES: (A) Military Rated Thrust		SPOTTING: A total of 61 airplanes can be accommodated in a			
PERFORMANCE BASIS: Flight Test		landing spot on the flight hangar decks of a CVA-19 angled			
RANGE AND RADIUS are based on Flight Test Fuel		deck carrier.			
Consumption Data		REASON FOR REISSUE: Installation of Pre-Rotation Induction Air			
		Vanes			

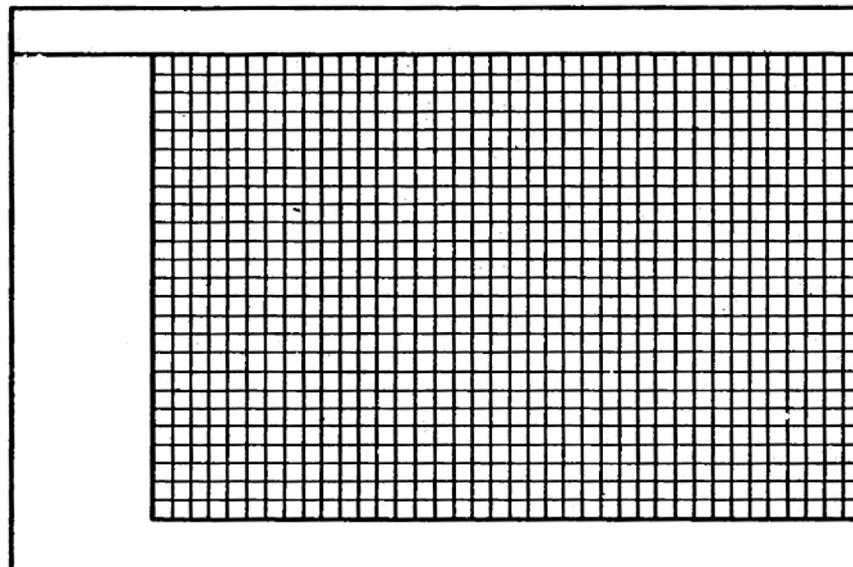
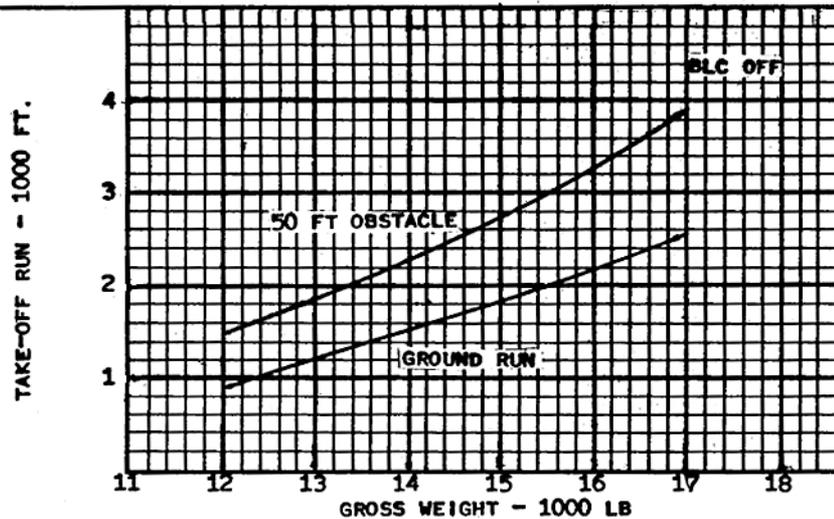
SPEED



CLIMB



TAKE-OFF



○ LOADING CONDITION CODE NUMBER

NOTES

COMBAT RADIUS - TRAINER (GAS TURBINE)

TAKE-OFF, ACCELERATE TO CLIMB SPEED: 5 minutes at normal rated thrust at Sea Level.

CLIMB: With military rated thrust to altitude for best cruise.

CRUISE-OUT: At speed for long range at cruise-climb altitudes.

LAND: At sea level base - no distance gained - no fuel used.

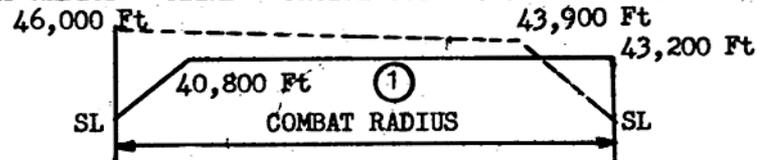
TAKE-OFF, ACCELERATE TO CLIMB SPEED: 5 minutes at normal rated thrust at Sea Level.

CLIMB: With military rated thrust to altitude for best cruise.

CRUISE-BACK: At speed for long range at cruise-climb altitudes.

RESERVE: 20 minutes at maximum endurance speed at Sea Level plus 5% of initial fuel load.

COMBAT RADIUS = CLIMB + CRUISE-OUT + CLIMB + CRUISE-BACK



MISSION TIME = TOTAL TIME WHERE DISTANCE IS GAINED PLUS COMBAT IF APPLICABLE.

COMBAT RADIUS - GENERAL PURPOSE FIGHTER (GAS TURBINE)

TAKE-OFF, ACCELERATE TO CLIMB SPEED: 5 minutes at normal rated thrust at Sea Level.

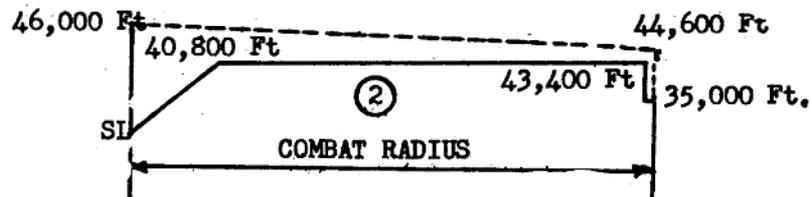
CLIMB: With military rated thrust to altitude for best cruise.

CRUISE-OUT: At speed for long range at cruise-climb altitudes.

COMBAT: 20 minutes with military thrust at 35,000 ft. (and combat at initial cruise-back altitude).

CRUISE-BACK: At speed for long range at cruise-climb altitudes.

RESERVE: 20 minutes at maximum endurance speed at Sea Level plus 5% of initial fuel load.



○ LOADING CONDITION COLUMN NUMBER