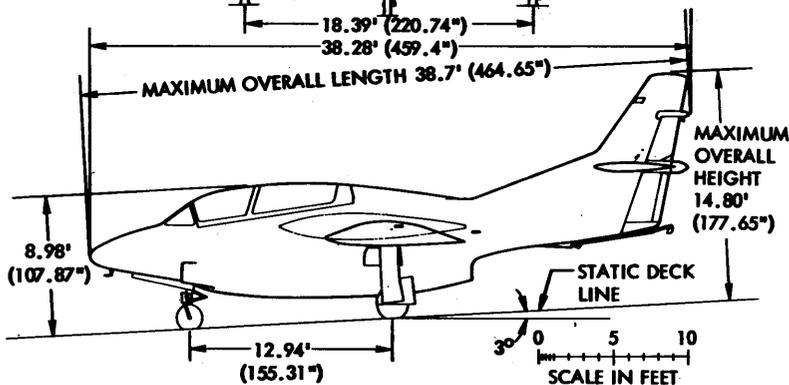
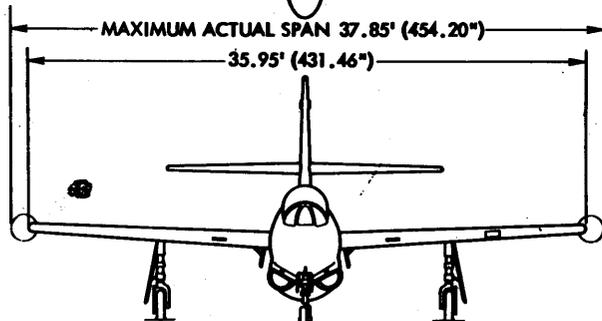
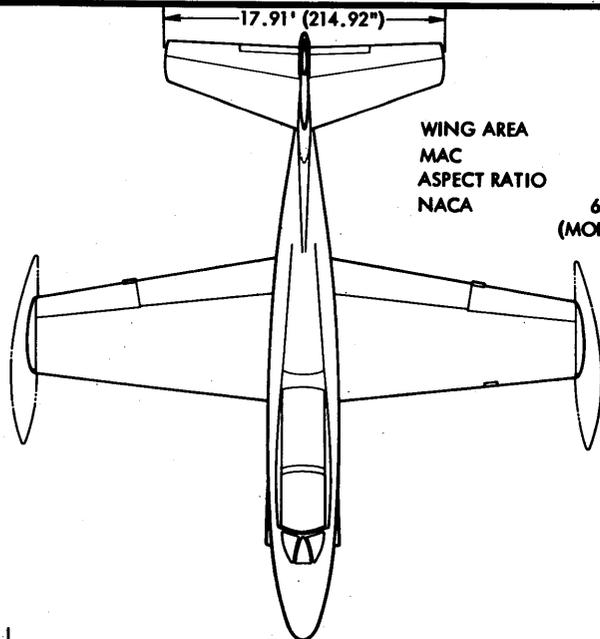
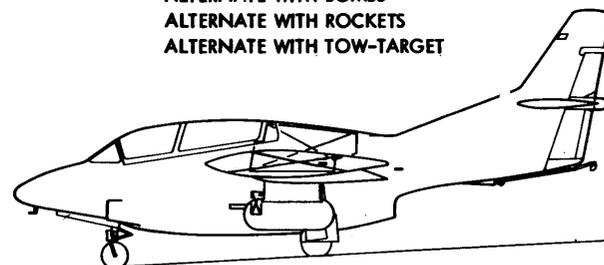
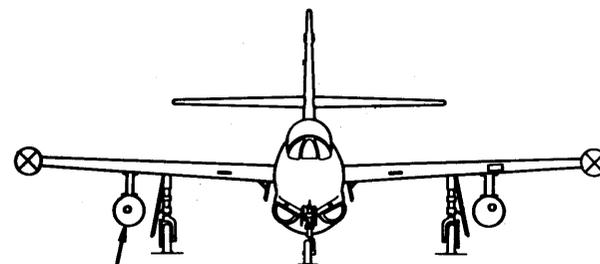
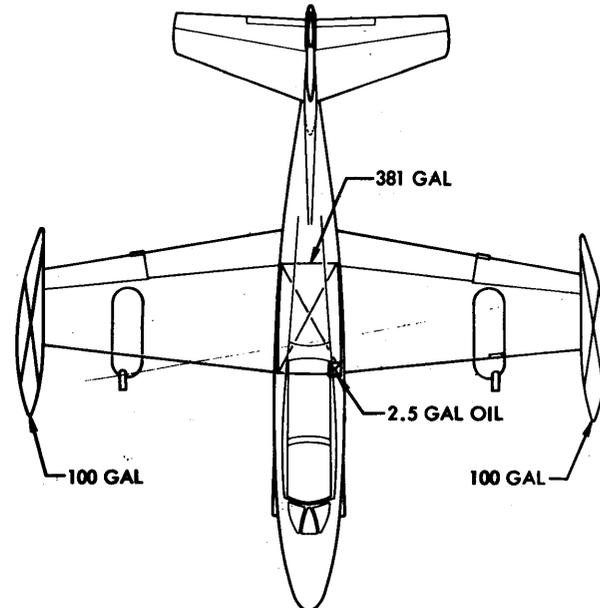


STANDARD AIRCRAFT CHARACTERISTICS
T-2A BUCKEYE



DESCRIPTIVE ARRANGEMENT



☒ NON-SELF-SEALING TANKS

0 5 10
SCALE IN FEET

ARMAMENT & TANKAGE

POWER PLANT

No. & Model J34-WE-48
 MANUFACTURER WESTINGHOUSE
 TYPE AXIAL FLOW
 LENGTH 112.5 IN.
 DIAMETER 28 IN.
 AUGMENTATION NONE
 TAIL PIPE NOZZLE FIXED

RATINGS

	<u>LBS.</u>	<u>RPM</u>	<u>ALT</u>
MAX.	3400	12,750	SSL
MIL	3400	12,750	SSL
NORM	3000	12,150	SSL

ENGINE SPEC. WAGT-2261-A
 OF 20 OCTOBER 1959

ORDNANCE

GUNS
 2-50 CALIBRE REMOVABLE GUN
 PACKAGES, ONE UNDER EACH WING

BOMBS
 2-100 LB. PRACTICE BOMBS OR
 2-AERO 48 BOMB CONTAINERS WITH
 16-MK 5, 23, OR 43 PRACTICE
 BOMBS OR
 2 PRACTICE BOMB CLUSTER
 AN-M1A2

ROCKETS
 2-2.25 IN. PRACTICE ROCKETS OR
 14-2.75-IN. MIGHTY MOUSE
 ROCKETS
 AN/AWG-6 FIRE CONTROL SYSTEM
 14-2.75 IN. CARRIED IN AERO
 6A-1 OR -6A-2 ROCKET PACKAGE
 CONTAINERS (ONE PER WING)

TOW TARGETS
 PROVISIONS FOR AERIAL TOW
 TARGET
 COMBINATION BOMB PACK AND
 ROCKET LAUNCHER AERO-15C

MISSION AND DESCRIPTION

THE PRIMARY PURPOSE OF THIS AIRPLANE IS TO
 PROVIDE AN AIRPLANE OF APPROPRIATELY INCREASED
 PERFORMANCE AND VERSATILITY OVER THE PRIMARY
 TRAINER INCLUDING CARRIER OPERATIONS.

THE T2J-1 INCORPORATES IN ITS DESIGN A
 LAMINAR-SPEED BRAKES. WING INCORPORATES SINGLE
 SLOTTED FLAPS. FLIGHT CONTROLS, EXCLUDING THE
 RUDDER, ARE EQUIPPED WITH POWER BOOST SYSTEM.

A LOW LEVEL ESCAPE SYSTEM IS ALSO FEATURED
 IN THE T2J AIRPLANE WHICH PROVIDES SAFE EJECTION
 THROUGHOUT THE FLIGHT ENVELOPE DOWN TO ZERO
 ALTITUDE AND A SPEED OF 75 KNOTS.

DEVELOPMENT

FIRST FLIGHT DECEMBER 1957
 SERVICE USE JUNE 1959

DIMENSIONS

WING
 AREA 255 SQ. FT.
 SPAN 36'
 LENGTH 38' 3"
 HEIGHT 14' 10"
 TREAD 18' 5"

WEIGHTS

<u>LOADING</u>	<u>LBS</u>	<u>IF</u>
EMPTY(S).....	7087
DESIGN	9507 6.5
BASIC.. NOT APPLICABLE		
COMBAT.. NOT APPLICABLE		
MAX. T.O.....	12,500 5.2
MAX. LAND...10,500...		(FIELD)
MAX. LAND...10,400..		(CARRIER)

WEIGHTS ARE ACTUAL

FUEL AND OIL

<u>NO. TANKS</u>	<u>GALS.</u>	<u>LOCATION</u>
1	381	FUSELAGE
2	200	TIP TANKS

FUEL GRADE JP-4, JP5
 FUEL SPEC (APPLICABLE)
 MIL-F-5624C

OIL

CAPACITY (GALS)..... 2.5
 GRADE 1010
 SPEC (APPLICABLE) .. MIL-L-7808C

ELECTRONICS

UHF COMMAND AN/ARC-27A
 INTERPHONE C-2379/A1C
 RECEIVING SET AN/ARR-40
 TACAN EQUIPMENT ... AN/ARN-21
 DIRECTION FINDER . AN/ARA-25
 OR AN/ARA-25A

SERVICE

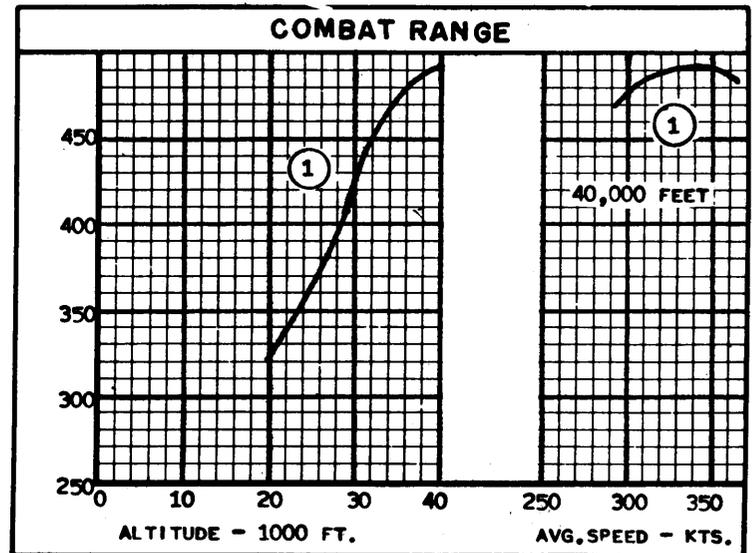
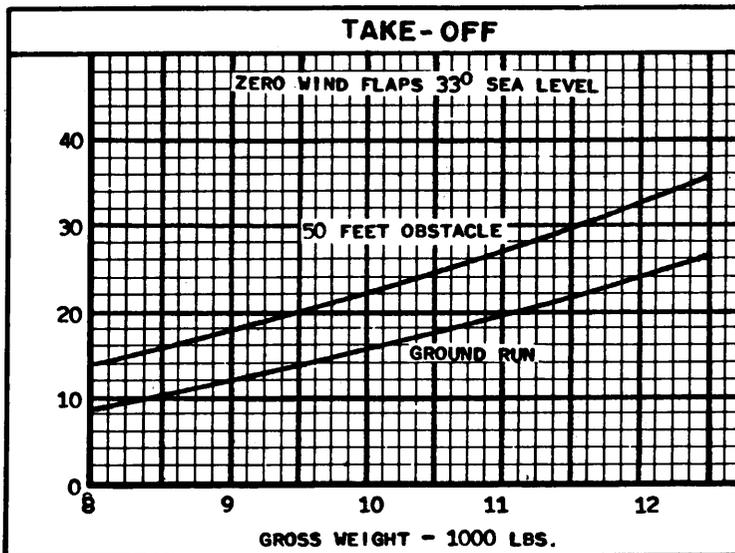
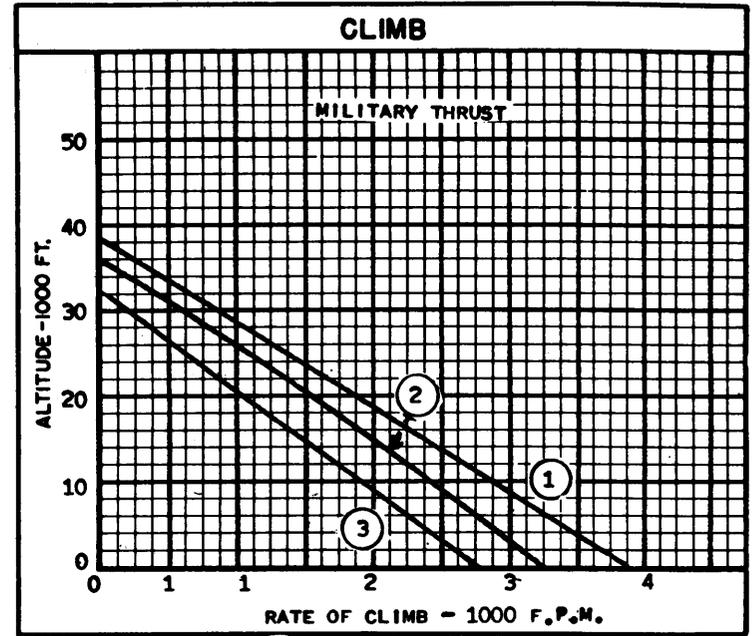
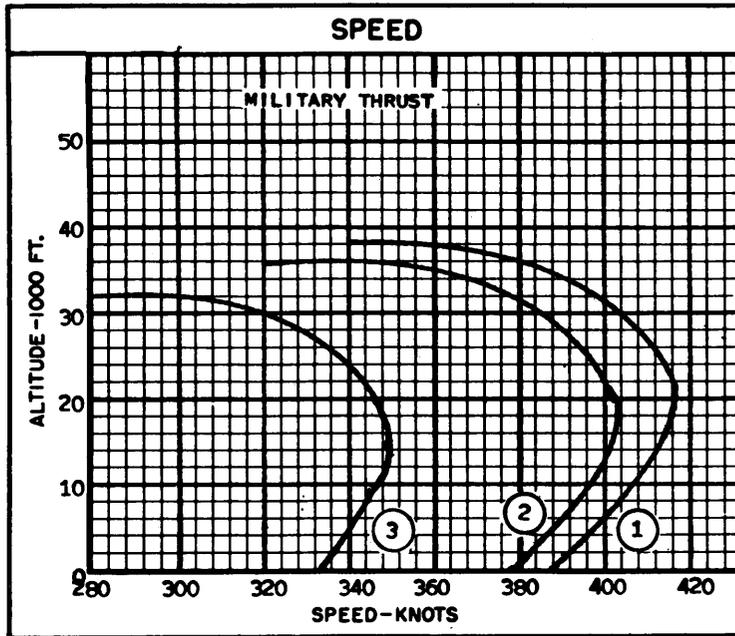
PERFORMANCE SUMMARY					
TAKE-OFF LOADING CONDITION	(1)	(2)	(3)		
	CLEAN	CLEAN + 2 TIP TANKS	CLEAN + TIP TANKS & GUN PACKAGES		
TAKE-OFF WEIGHT	lb.	10,122	11,541	12,026	
Fuel internal/external (JP-4)	lb./lb.	2477/0	2477/1300	2477/1300	
Fayload	lb.	0	0	0	
Wing loading	lb./sq.ft.	39.7	45.3	47.2	
Stall speed - power-off	(A) km.	85.5	91.5	93.2	
Take-off run at S.L. - calm	(A) ft.	1575	2190	2410	
Take-off run at S.L. 25 kn. wind	(A) ft.	875	1275	1425	
Take-off to clear 50 ft. - calm	(A) ft.	2280	3010	3275	
Max. speed/altitude	(A) km./ft.	416/20,000	403/16,000	350/16,000	
Rate of climb at S.L.	(A) fpm.	3875	3200	2470	
Time: S.L. to 20000ft.	(A) min.	6.8	8.4	10.7	
Time: S.L. to 30000ft.	(A) min.	13.1	17.7	24.2	
Service ceiling (100 fpm)	(A) ft.	37,900	35,100	31,000	
Combat range	n.mi.	494	836	631	
Average cruising speed	kn.	340	337	285	
Cruising altitude(s)	ft.	39,000	36,000	31,200	
Combat radius/mission time	n.mi.				
Average cruising speed	kn.				
COMBAT LOADING CONDITION					
COMBAT WEIGHT	lb.				
Engine power					
Fuel	lb.				
Combat speed/combat altitude	kn./ft.				
Rate of climb/combat altitude	fpm/ft.				
Combat ceiling (500 fpm)	ft.				
Rate of climb at S.L.	fpm.				
Max. speed at S.L.	kn.				
Max. speed/altitude	kn./ft.				
LANDING WEIGHT	lb.	8219	8414	8905	
Fuel	lb.	574	650	656	
Stall speed - power-off/appr. power	kn./km.	77.5/73.5	78.5/74.5	80.5/76.5	
Distance - ground roll/over 50 ft. obst.	ft./ft.	920/1460	990/1530	1140/1720	

NOTES

(A) MILITARY RATED POWER

PERFORMANCE BASIS: FLIGHT TEST DATA

RANGE: RANGE IS BASED ON FLIGHT TEST FUEL CONSUMPTION DATA.

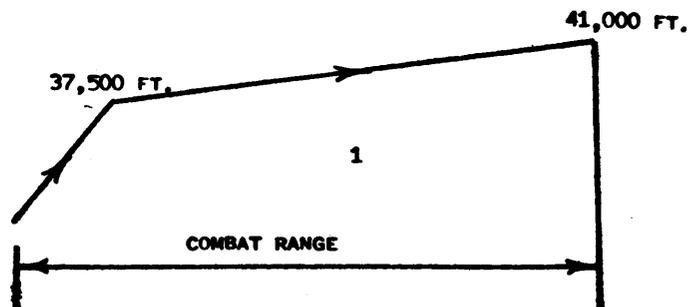


○ LOADING CONDITION COLUMN NUMBER

NOTES

RANGE PROBLEM - TRAINER

WARM-UP, TAXI, TAKE-OFF, ACCELERATION: 5 MINUTES
AT NORMAL RATED THRUST AT SEA LEVEL
CLIMB: ON COURSE TO CRUISE CEILING WITH MILITARY
THRUST
CRUISE: AT LONG RANGE SPEEDS AT CRUISE CEILING
RESERVE: 5 PERCENT OF INITIAL FUEL PLUS FUEL RE-
QUIRED FOR 20 MINUTES AT SPEED FOR MAXIMUM EN-
DURANCE AT SEA LEVEL.



○ LOADING CONDITION COLUMN NUMBER