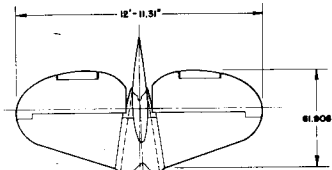
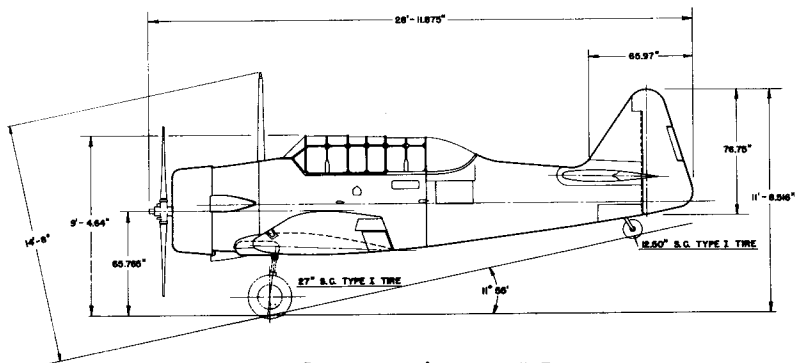
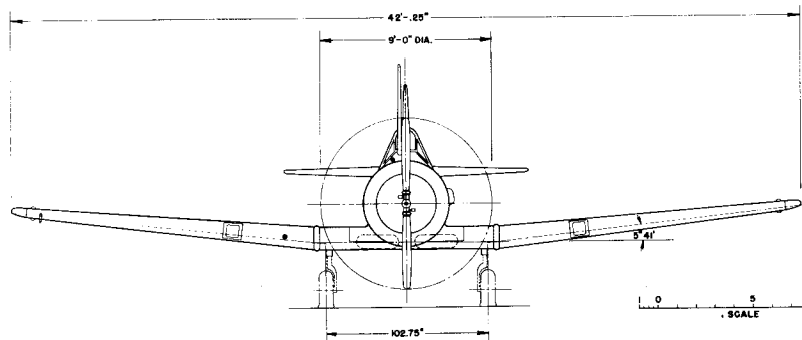
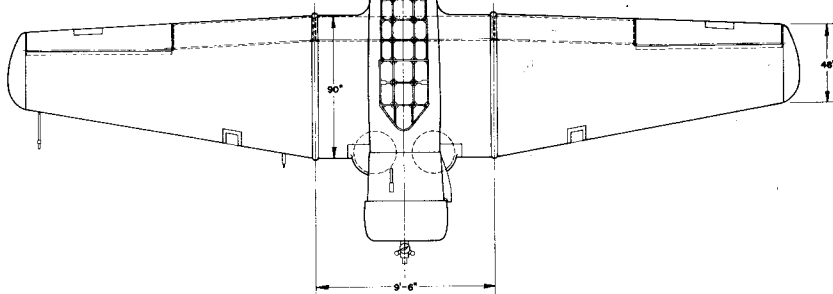


STANDARD AIRCRAFT CHARACTERISTICS  
SNJ-4,-5,-6 "TEXAN"

BUREAU OF AERONAUTICS  
NAVY DEPARTMENT



WING AREA - 253.73 SQ. FT.  
WING SECTION  
N.A.C.A. 2215 - 4412  
M.A.C. - 76.0  
ASPECT RATIO 7.0



DESCRIPTIVE ARRANGEMENT

103  
103  
103

## MISSION AND DESCRIPTION

All-purpose trainer. Originally procured by Army Air Force for Navy (Navy version of AT-6) for intermediate and instrument flight training. Now used as primary and basic trainer and for pilot's flight proficiency.

Conventional design, two place tandem, low wing, all metal, single engine, land plane with retractable main landing gear. Manufactured by North American Aviation Corporation.

Wing structure is conventional, with a two-spar system. Split flap is hydraulically actuated. The fuselage is of chrome-molybdenum tube truss to the rear of the aft cockpit, with a wood or metal semi-monocoque structure aft of that. Later aircraft have wood stabilizers.

## DIMENSIONS

SPAN.....42'-0"  
 LENGTH.....29'-0"  
 HEIGHT.....14'-8"  
 WING AREA.....253.7 sq. ft.  
 M.A.C.....76"  
 TREAD.....8'-7"

## WEIGHTS

(Load	Lbs.	LF)
EMPTY.....	4143 (-4).....	
	4082 (-5).....	
	4050 (-6).....	
BASIC.....	4201 (-4).....	
	4140 (-5).....	
	4108 (-6).....	
DESIGN....	5600.....	5.22
MAX.T.O...	5500.....	5.30
MAX.LAND..	5500.....	

All weights are actual.

## FUEL AND OIL

Gals.	No. tanks-	Location
111	2	Wing
FUEL GRADE...91/96		
FUEL SPEC....AN-F-48		

## OIL

CAPACITY (gal).....10  
 SPEC.....AN-O-8  
 GRADE.....1100-1120

## ELECTRONICS

(12 Volt System)(SNJ-4)  
 Command.....SCR-AL-183

(24 Volt System)(SNJ-5,-6)  
 Command.....SCR-274-()  
 Marker beacon.....RC-34B  
 or RC-193-()

## POWER PLANT

NO. & MODEL...(1) R-1340-AN-1  
 MFR.....P&W  
 SUPERCH.....1 Stage, 1 Speed  
 PROP.GEAR RATIO.....D.D.  
 PROP MFR.....Ham. Std.  
 PROP DESIGN NO.....6101  
 NO.BL./DIA.....2/9'-0"

## RATINGS

	Bhp.	@Rpm.	@Alt.
T.O.	600	2250	SL
NORMAL	550	2200	5000'

DATA FROM ENGINE SPEC.  
 AN-1051

## ORDNANCE

Provisions for:

### GUNS

No.	Size	Type	Rds.
1	.30 cal.	cowl	200
1	.30 cal.	rear	500
1	.30 cal.	wing	200

K-3 oblique & vert. camera

Gun camera, in wing

N-3 gun sight

### BOMBS

No.	Size	Location
10	20#	wing
4	100#	



## PERFORMANCE SUMMARY

LOADING CONDLITION	TRAINER			
TAKE-OFF WEIGHT	5282			
Fuel lbs	666			
Bombs lbs				
Wing/Fower Loading (A) lbs/sq.ft. lbs/ bhp	20.8/9.6			
Stall Speed--Power off kn	55.7			
Stall Speed--Power off - No. Fuel kn	52.1			
Stall Speed--Fower on kn	50.9			
Maximum Speed/Alt (B) kn/ft	178/5100			
Take-off Distance, deck -- calm ft	599			
Take-off Listance, deck kn. ft				
Take-off Listance, Airport ft	1180			
Rate of climb -- sea level (B) ft/min	1400			
Service Ceiling (B) ft	22400			
Time-to-climb 10000 ft. (B) min	8.0			
Time-to-climb 20000 ft. (B) min	25.7			
Combat Range/V av 1500 ft. n.mi/kn	560/97			
Combat Radius/V av ft. n.mi/kn				
<b>LOADING CONDLITION</b>				
GROSS WEIGHT lbs				
Engine power				
Fuel lbs				
Bombs/Tanks				
Max. speed at sea level kn				
Max. speed ft. kn				
Combat speed/Alt. kn/ft				
Rate of climb SL ft/min				
Ceiling for 500 fpm R/C ft				
Time-tc-climb/Alt. min/ft				

### NOTES

- (A) BHP at Maximum Critical Altitude
- (B) Normal BHP

Performance is based on flight test. Range is based on engine specification fuel consumption data increased by 5%.

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 This airplane is not suited for dive bombing training due to speed limitations  
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Provisions in left wing for mounting Army W-7 camera gun.

