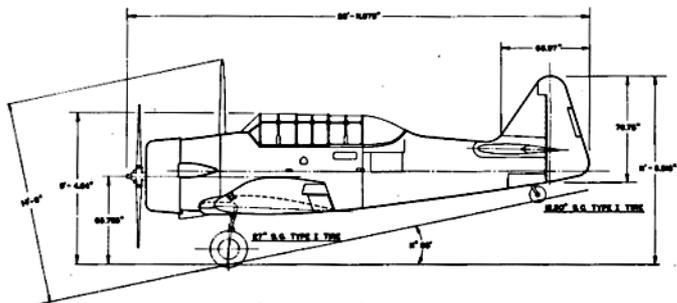
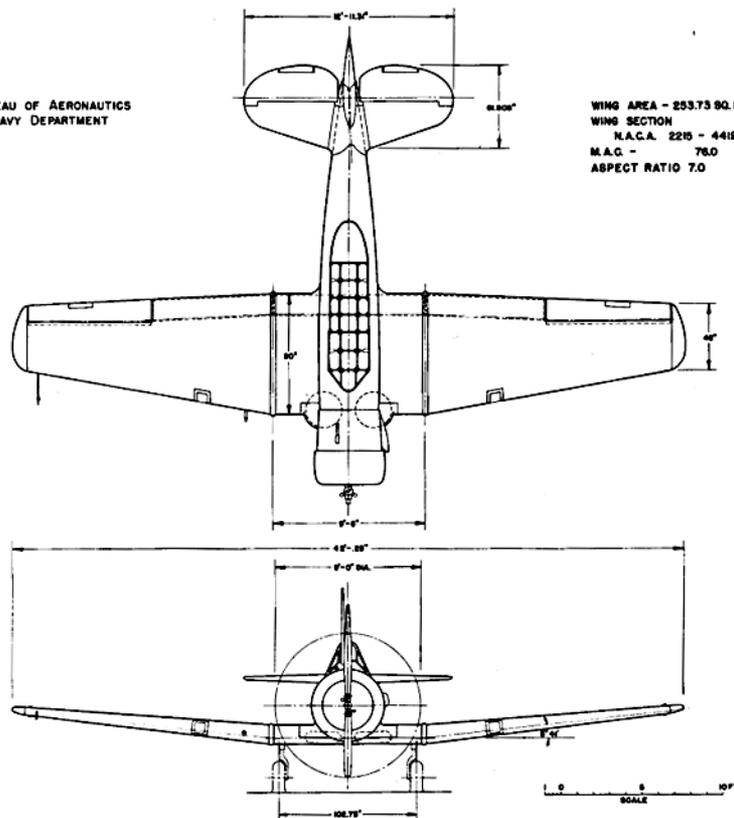




STANDARD AIRCRAFT CHARACTERISTICS
SNJ-4,-5,-6 "TEXAN"

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



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 CONDITION		TRAINER		
TAKE-OFF WEIGHT		5282		
Fuel	lbs	666		
Bombs	lbs			
	lbs			
Wing/Power 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--Power on	kn	50.9		
Maximum Speed/Alt (B)	kn/ft	178/5100		
Take-off Distance, deck -- calm	ft	599		
Take-off Distance, deck	kn. ft			
Take-off Distance, 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			
LOADING CONDITION				
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

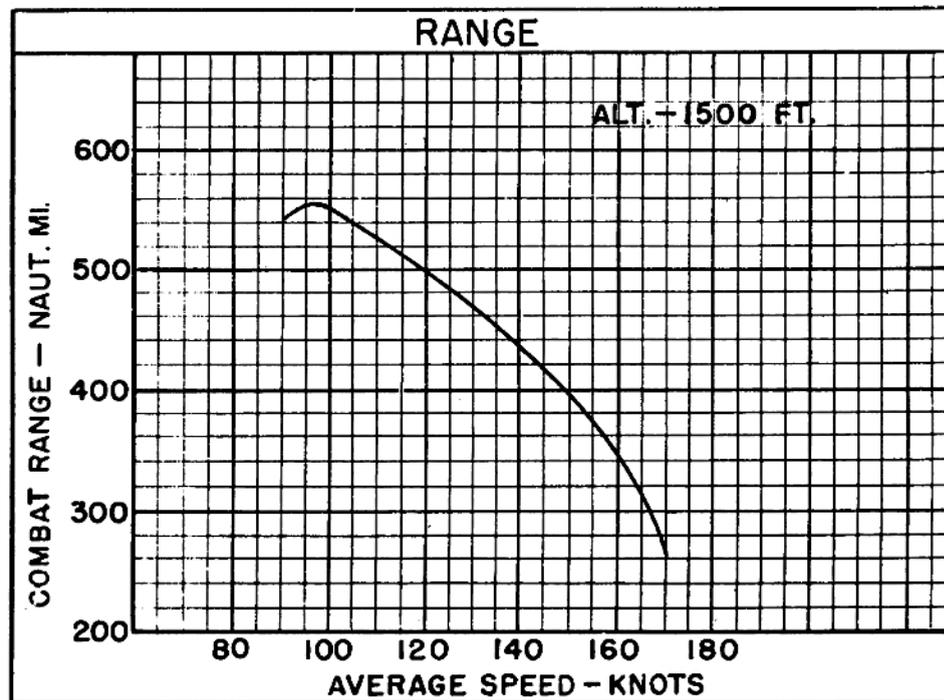
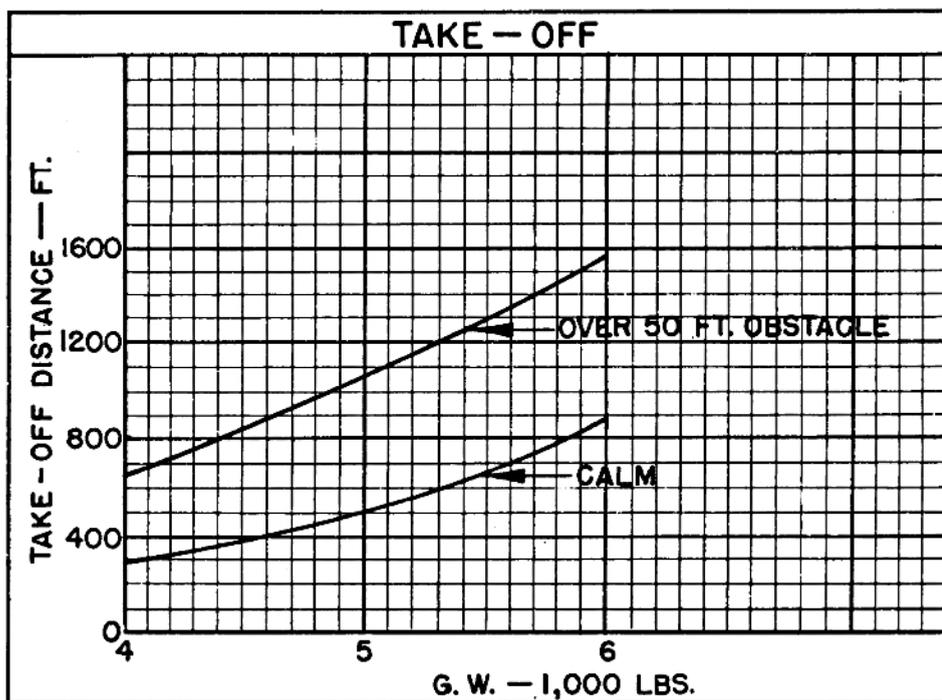
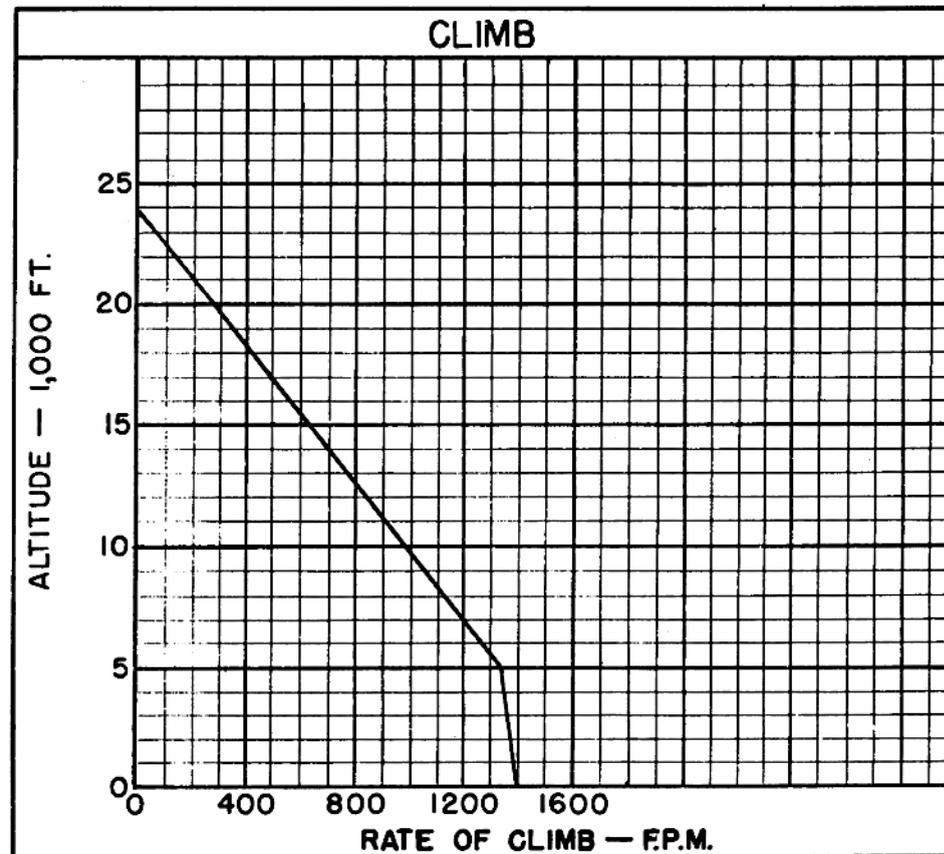
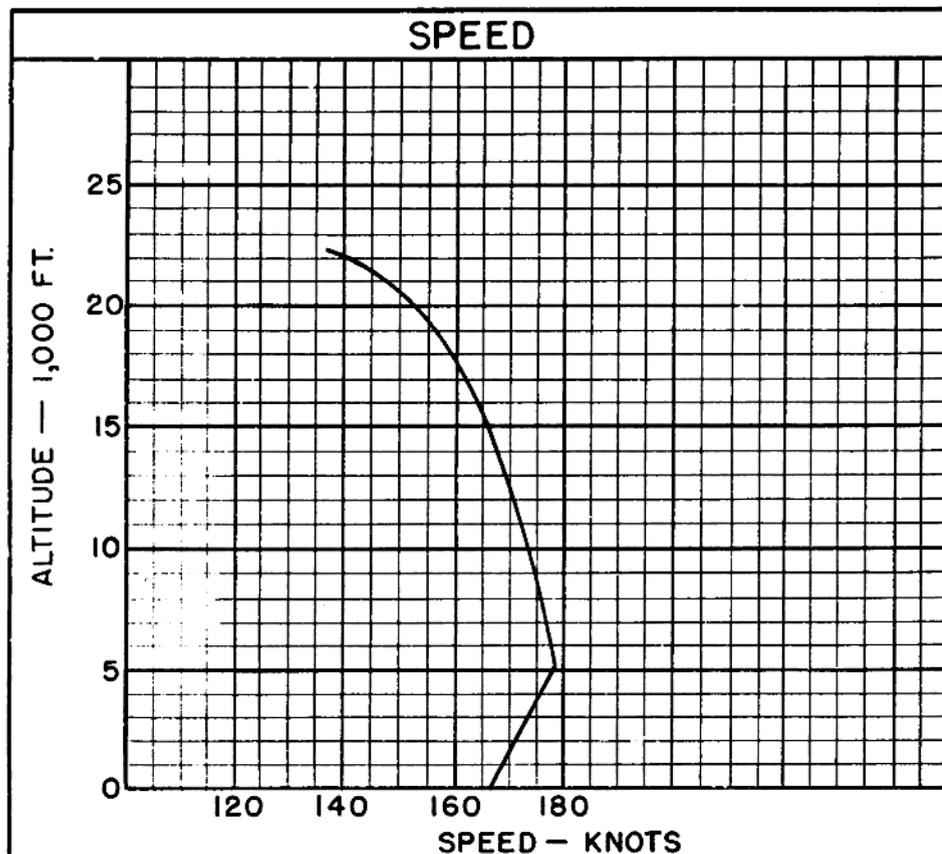
(A) HMF at Maximum Critical Altitude

(B) Normal HMF

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

This airplane is not suited for dive bombing training due to speed limitations

Provisions in left wing for mounting Army W-7 camera gun.



○ LOADING CONDITION COLUMN NUMBER