

STANDARD AIRCRAFT CHARACTERISTICS

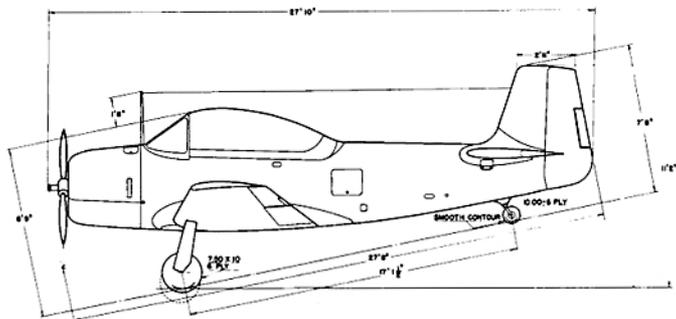
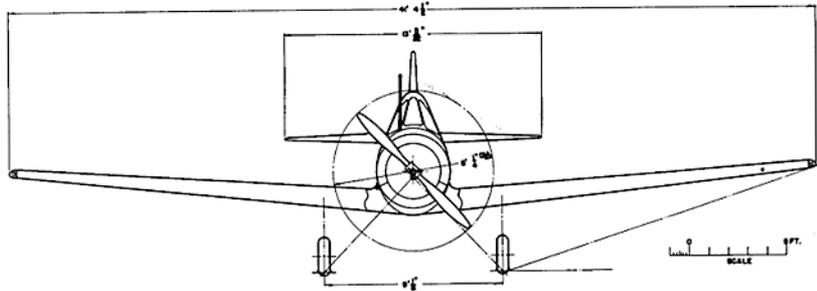
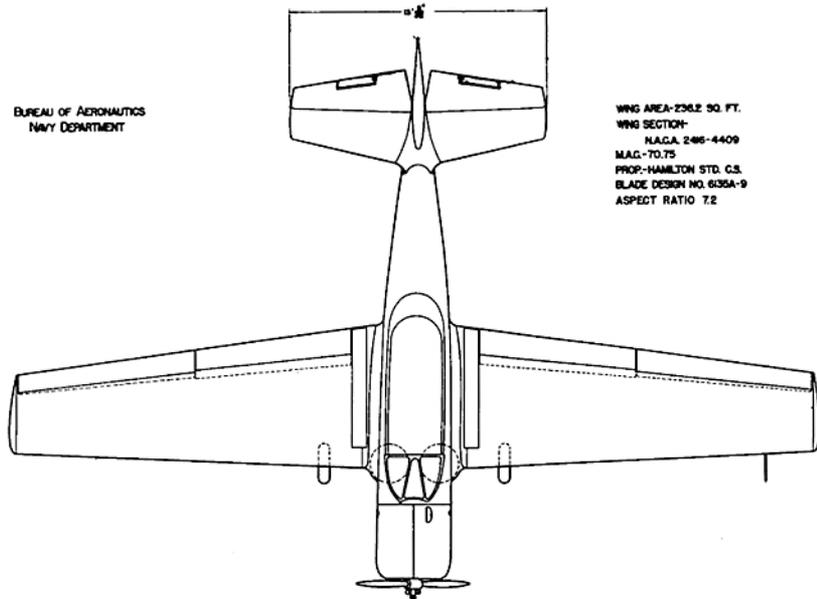
XNQ-1

FAIRCHILD

EXPERIMENTAL

BUREAU OF AERONAUTICS
NAVY DEPARTMENT

WING AREA-236.2 SQ. FT.
WING SECTION-
NACA 2405-4409
MAC-70.75
PROP.-HAMILTON STD. C.S.
BLADE DESIGN NO. 6135A-9
ASPECT RATIO 7.2



DESCRIPTIVE ARRANGEMENT

MISSION AND DESCRIPTION

Primary training. Only two experimental models built. For initial flight training from indoctrinational stage up to intermediate stage. To teach students fundamentals of flight.

Conventional design, single-engine, low-wing, all-metal, two-place, tandem land-plane. With retractable main landing-gear, landing flaps, functional cockpit. Manufactured by Fairchild.

WEIGHTS

Loadings	Lbs.	L.F.
EMPTY.....	2,894.....	
BASIC.....	2,910.....	
DESIGN.....	3,724.....	7.0
MAX.T.O.....	3,828.....	6.8
MAX.LAND.....	3,724.....	

All weights are actual.

POWER PLANT

NO. & MODEL.....(1) R-680-13
 MFG.....Lycoming
 SUPERCH.....1 Stage, 1 Speed
 PROP.GEAR RATIO.....D. D.
 PROP MFR.....Ham. Std.
 PROP DESIGN NO.....6135A-9
 NO.BL./DIA.....2/8'-3"

RATINGS

Bhp. @ Rpm. @ Alt.

T.O. 295 2300 S.L.

NORMAL 280 2200 S.L.

SPEC. 1068-A

FUEL AND OIL

Gal. - No. Tanks - Location

80.....1.....Wing

FUEL GRADE.....91/96

FUEL SPEC.....AN-F-48

OIL

CAPACITY (gals.).....5

SPEC.....AN-O-8

GRADE.....1120

ORDNANCE**DIMENSIONS**

SPAN.....41'-5"
 LENGTH.....27'-10"
 HEIGHT.....10'-3"
 WING AREA.....236 sq. ft.
 M.A.C.....70.8"
 TREAD.....9'-0"

ELECTRONICS

RANGE & VHF COMMAND..AN/ARC-5



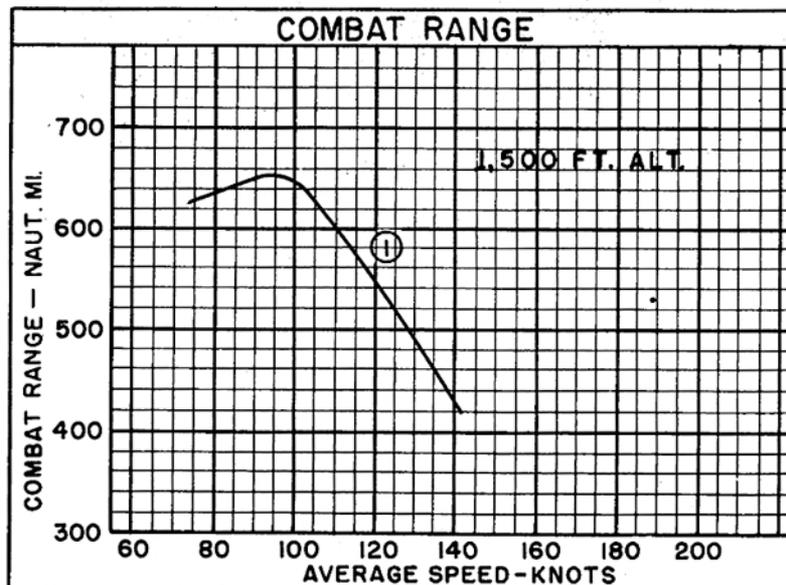
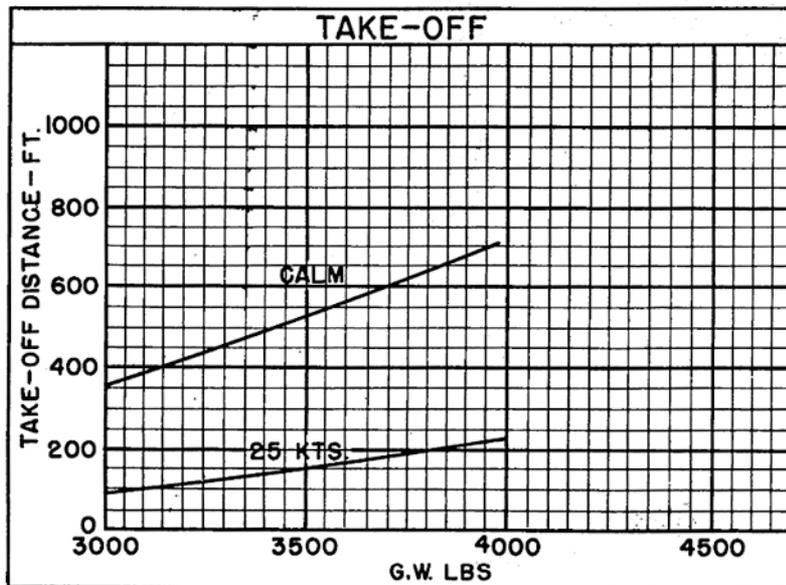
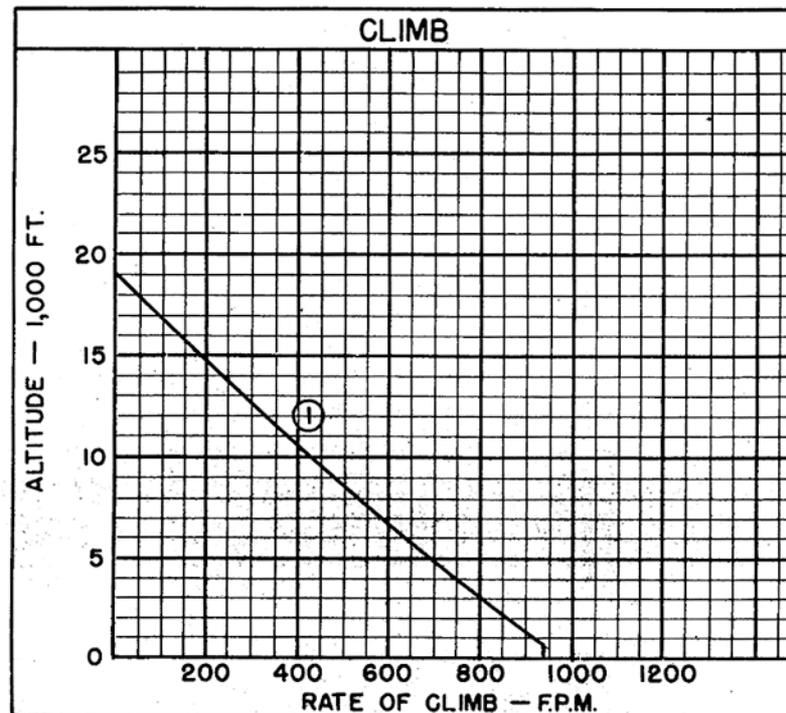
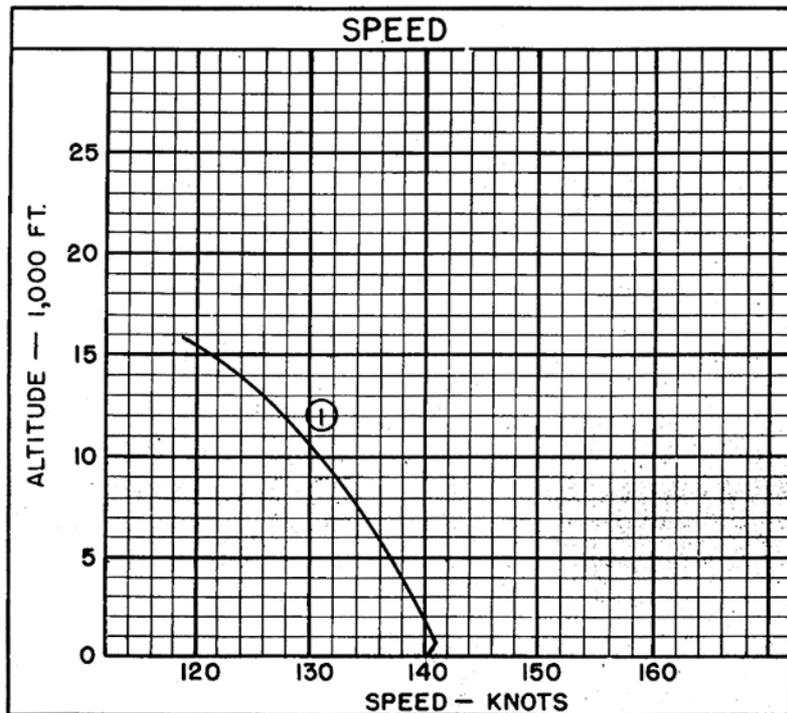
PERFORMANCE SUMMARY				
LOADING CONDITION		TRAINER		
TAKE-OFF WEIGHT	lbs.	3,828		
Fuel	lbs.	480		
Bombs	lbs.			
Wing/Power Loading (A)	lbs/sq.ft; lbs/bhp.	16.2/13.7		
Stall Speed--Power off	kn.	46.8		
Stall Speed--Power off - No Fuel	kn.	43.8		
Stall Speed--Power on	kn.	42.8		
Maximum Speed/Alt (B)	kn/ft.	141/500		
Take-off Distance, deck -- calm	ft.	630		
Take-off Distance, deck 25 kn.	ft.	200		
Take-off Distance, Airport	ft.			
Rate of climb -- sea level (B)	ft/min.	940		
Service Ceiling (B)	ft.	17,100		
Time-to-climb 10,000 ft. (B)	min.	15.2		
Time-to-climb	ft. (B) min.			
Combat Range/V av 1,500	ft. n.mi/kn.	650/95		
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/Alt	kn/ft.			
Combat speed/Alt	kn/ft.			
Rate of climb SL	ft/min.			
Ceiling for 500 fpm R/C	ft.			
Time-to-climb/Alt.	min/ft.			

NOTES

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

Performance is based on flight test of XNQ-1.

Range is based on engine specification fuel consumption data increased 5%.



○ LOADING CONDITION COLUMN NUMBER

NOTES