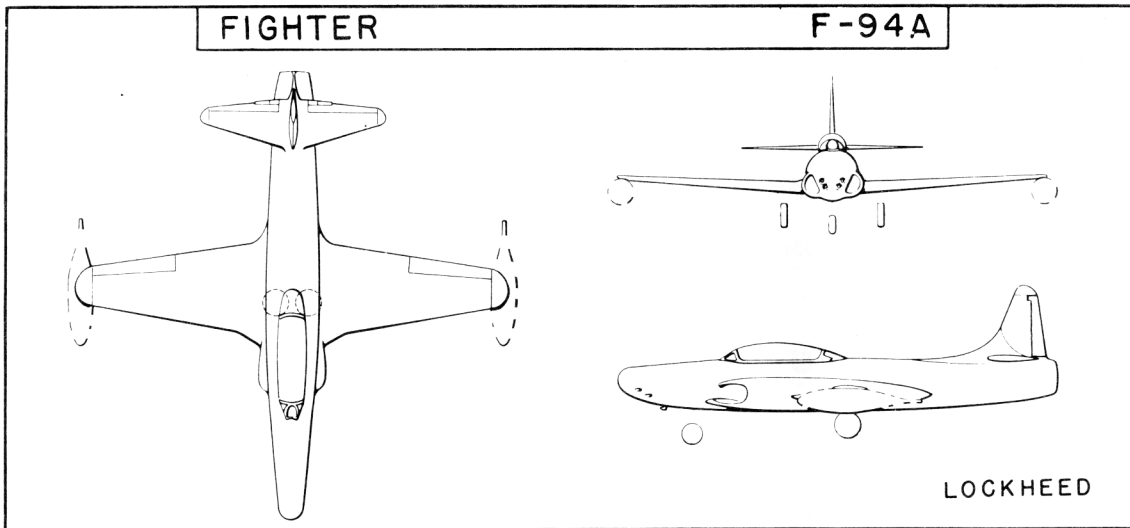


Deleted prior to  
2nd Ed; Add NY 23  
26 Feb 53

RESTRICTED

A-1  
F-94A/SAAR  
SERVICE

# Characteristics Summary



Wing area ..... 238 sq ft                      Length ..... 40.1 ft  
Span ..... 38.9 ft                                      Height ..... 12.7 ft

AVAILABILITY			PROCUREMENT			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

## STATUS

1. All-weather fighter evolved from T-33A (TF-80C)
2. First Flight: (Prototype F-94A) 16 April 1949
3. First Acceptance: December 1949
4. First Service Use: April 1950

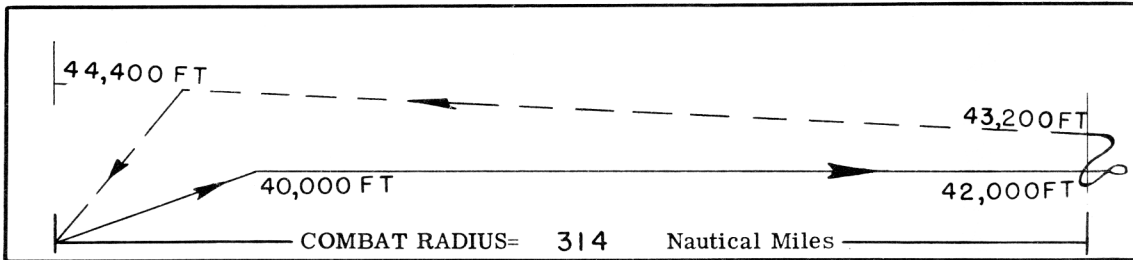
<p><b>POWER PLANT</b></p> <p>(1) J33-A-33                      Allison</p> <p style="text-align: center;">ENGINE RATINGS</p> <p>S.L. Static                      LB - RPM</p> <p>Max:                              *6000 - 11,750</p> <p>Mil:                                4600 - 11,750</p> <p>Nor:                                3900 - 11,250</p> <p>*With afterburner operating</p> <p style="text-align: center;">ATO</p> <p>No. &amp; Model (2) 12AS-1000D4</p> <p>Mfr..... Aerojet</p> <p>Thrust Lb (ea.) ..... 1000</p> <p>Duration (sec.) ..... 12</p>	<p><b>FEATURES</b></p> <p>Crew: ..... 2</p> <p>Pressurization</p> <p>Cooling &amp; Heating</p> <p>Hydraulic Aileron Boost</p> <p>Dive Brake</p> <p>"G" Suit Provisions</p> <p>E-1 Fire Control System (AN/APG-33 Radar and A-1C Gun Sight)</p> <p>Jettisonable ATO Units</p> <p>Max Fuel Capacity: 648 gal.</p>	<p><b>ARMAMENT</b></p> <p>Turrets: ..... None</p> <p>Guns: ..... 4x.50 cal</p> <p>Ammunition: (tot.) 1200 rds</p> <p>Max Bomb Load: 2x1000 lb</p> <p>Max Bomb Size: 1000 lb</p>
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21 NOV. 1949

RESTRICTED

F-94A

*Characteristics Summary Basic Mission* . . . . . F-94A



<b>P E R F O R M A N C E</b>		
<b>COMBAT RADIUS</b>	<b>COMBAT RANGE</b>	<b>COMBAT SPEED</b>
314 naut. mi with 0 lb payload at 382 knots avg. in 2.07 hours.	937 naut. mi with 0 lb payload at 385 knots avg. in 2.52 hours.	474 knots at 35,000 ft alt, max power
		<b>MAXIMUM SPEED</b>
		526 knots at zero ft alt, max power
<b>C L I M B</b>	<b>C E I L I N G</b>	<b>T A K E - O F F</b>
3100 fpm sea level, take-off weight normal power	40,000 ft 100 fpm, take-off weight normal power	ground run 2650 ft no assist   1875 ft assisted
9250 fpm sea level, combat weight maximum power	48,500 ft 500 fpm, combat weight maximum power	over 50 ft height 3720 ft no assist   2550 ft assisted
<b>L O A D</b>	<b>W E I G H T S</b>	<b>S T A L L I N G S P E E D</b>
Bombs: None Ammunition: 1200 rds/.50 cal Fuel: 648 gal protected 49 % droppable 51 % external 51 %	Empty..... 9557 lb Combat... 12,919 lb Take - off 15,330 lb limited by space	106 knots flaps down, take-off weight
		<b>TIME TO CLIMB</b>
		5.6 min to 35,000 ft. Combat Wt., Max. Power

**N O T E S**

1. PERFORMANCE BASIS:  
 (a) Preliminary estimated data.  
 (b) Fuel density: 6.5 lb/gal  
 (c) In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.

2. REVISION BASIS: To reflect performance data resulting from change to afterburner engine.