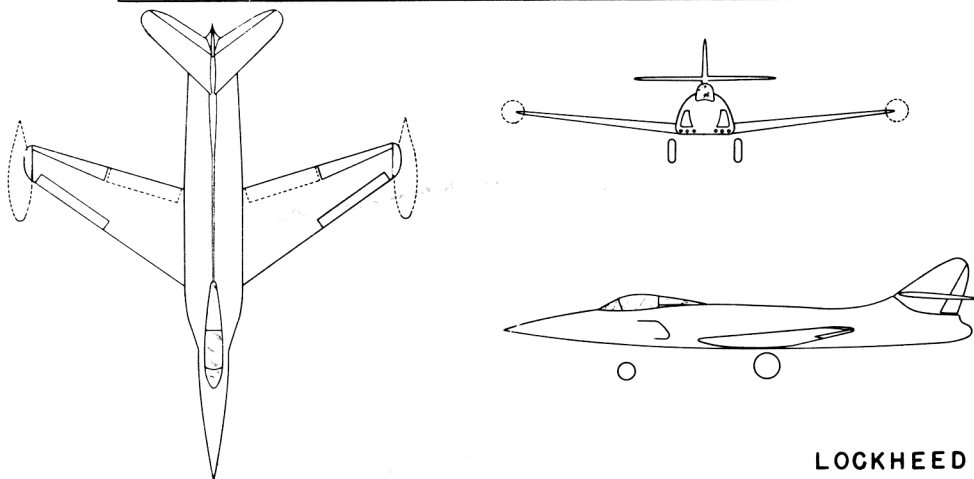


# Characteristics Summary

FIGHTER . . . . . XF-90



LOCKHEED

Wing area ..... 350 sq ft                      Length ..... 56.2 ft  
Span ..... 40.0 ft                                      Height ..... 15.8 ft

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

## STATUS

- Teletype Authorization: 11 April 1946
- Contract Date: 20 June 1946
- Mock-up Inspection: December 1947
- Engineering Inspection: April 1949
- First Flight: (1st Art.) 3 June 1949; (2nd Art.) March 1950

POWER PLANT	FEATURES	ARMAMENT
(2) XJ34-WE-11 Westinghouse ENGINE RATINGS S.L.Static            LB - RPM Max:                    *4100 - 12500 Mil:                     2920 - 12500 Nor:                     2420 - 11800 *With afterburners operating  ATO No. & Model        (4) 12AS1000D4 Mfr                    Aerojet Thrust Lb (ea)        1000 Duration (sec)        12	Crew: 1 Pressurization Cooling & Heating AN/APG-5 Radar A-1B Gun-Bomb-Rocket Sight Ejection Seat Dive Brakes Automatic Slats Adjustable Stabilizer Aileron Boost Two-Position Fowler Flaps Max Fuel Capacity: 1665 gal.	Turrets:                    None  Guns:                      6x20mm  Ammunition:(tot.)    1602 rds  Max Bomb Load:      2x1000 lb  Max Bomb Size:        1000 lb  Rockets:                 8x5' HVAR

Classification cancelled  
or changed to

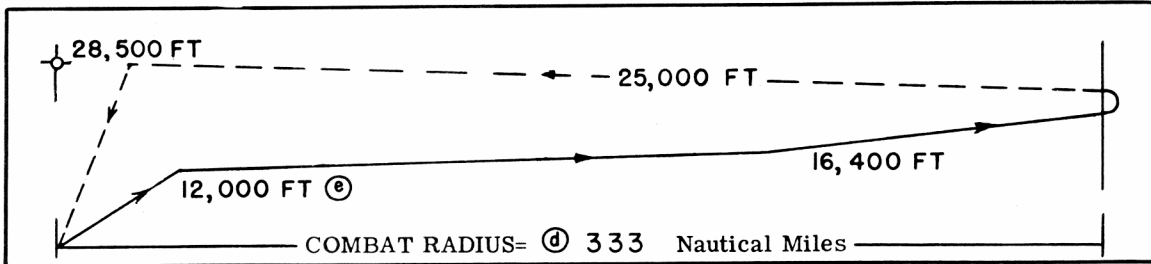
By *[Signature]*      DOD Dir 5200.10  
Signature and Grade      8 Dec 66

Unclassified

EXPERIMENTAL

CONFIDENTIAL

# Characteristics Summary Basic Mission ····· XF-90



## PERFORMANCE

COMBAT RADIUS	COMBAT RANGE	COMBAT SPEED
(d) 333 naut. mi with 0 lb payload at 412 knots avg. in 2.03 hours.	(d) 912 naut. mi with 0 lb payload at 411 knots avg. in 2.3 hours.	550 knots at 25,000 ft alt, max power
		<b>MAXIMUM SPEED</b>
		579 knots at 1000 ft alt, max power
CLIMB	CEILING	TAKE-OFF
723 fpm sea level, take-off weight normal power	13,800 ft 100 fpm, take-off weight normal power	ground run 6260ft no assist   5005ft assisted
7300 fpm sea level, combat weight maximum power	39,000 ft 500 fpm, combat weight maximum power	over 50 ft height 11,640ft no assist   6145ft assisted
LOAD	WEIGHTS	STALLING SPEED
Bombs: None Ammunition: 1602 rds/20mm	Empty..... 18,523 lb Combat... 25,730 lb Take - off 31,062 lb limited by mission	126 knots flaps down, take-off weight
Fuel: 1665 gal protected 57 % droppable 43 % external 43 %		<b>TIME TO CLIMB</b> 4.5 min. S.L. to 25,000 ft. Combat Wt., Max Power

## NOTES

- PERFORMANCE BASIS:
  - Estimated data
  - Fuel density: 6.0 lb/gal
  - In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
  - Radius and Range, are increased to 355 and 975 nautical miles when using JP-3 (6.5 lb/gal)
  - Deviations: Operational altitude limited by cruising ceiling.
- REVISION BASIS: To reflect change in security classification.

XF-90

CONFIDENTIAL

25 JAN. 1950