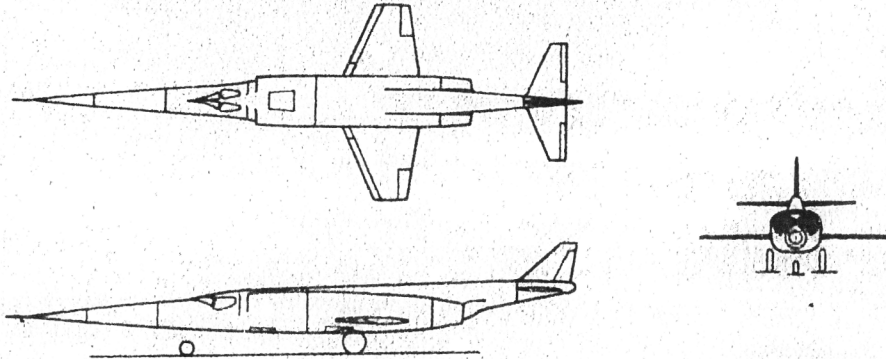


CONFIDENTIAL

RESEARCH

Characteristics Summary

RESEARCH X-3



DOUGLAS

Wing Area 166.5 sq ft Length 66.8 ft
 Span 22.7 ft Height 12.5 ft

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

STATUS

- Design Initiated: 6 Mar 45 3. Joint USAF-NACA-BuAer Project.
- First Flight: Oct 52

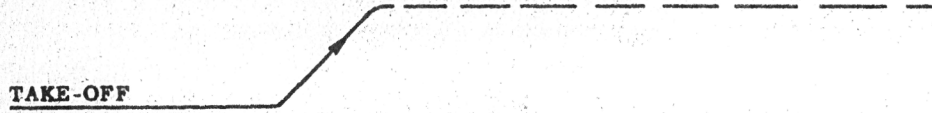
Navy Equivalent: None

Mfr's Model: 499D

| POWER PLANT | FEATURES | ARMAMENT |
|--|---|----------|
| (3) XJ34-WE-17 Westinghouse ENGINE RATINGS S.L.S LB - RPM - MIN Max: *4900 - 12,500 - 5 Mil: 3370 - 12,500 - 30 Nor: 3020 - 12,500 - Cont *Afterburner operating | Crew: 1 Cockpit Cooling & Pressurization Mod. Diamond Airfoil Capable of Ground Take-off & Landing Telemetering Instruments Downward Ejection Seat Deceleration Parachute to Supplement Landing Brakes Speed Brake Max Fuel Capacity: 995 gal | NONE |

Characteristics Summary Typical Profile X-3

FLIGHT PLAN VARIED AS NECESSARY TO FULFILL MISSION



PERFORMANCE

| ENDURANCE | | | MISSION | HIGH SPEED | |
|--|---------|----------------|--|--|----------------------|
| Min. | Alt. | Kn. | To obtain aerodynamic, power plant, structural and other flight research data. | 605 knots (.987 Mach) 20,000 ft. alt., max power | |
| 60 | 30,000 | 511 | | | |
| 61 | 10,000 | 384 | | | |
| CLIMB | | | CEILING | TAKE-OFF | |
| 19,000 ft/min. S.L. flight weight maximum power | | | ABSOLUTE 38,000 ft flight wt. max power | ground run | |
| | | | | 6100 ft no assist | _____ ft assisted |
| | | | | over 50 ft height | |
| | | | | 8500 ft no assist | _____ ft assisted |
| LOAD | | | WEIGHTS | STALLING SPEED | |
| Fuel: | 995 gal | Empty | 14,345 lb | 175 knots power-off, landing configuration, take-off weight | |
| Internal: | 995 gal | Flight | 19,500 lb | | |
| Droppable: | None | Take-off | 22,400 lb | TIME TO CLIMB | |
| | | | | 5.3 min. S.L. to 35,000 feet; flight wt. | |

NOTES

1. PERFORMANCE BASIS:
(a) Preliminary flight test data (Not substantiated by WADC).
2. REVISION BASIS: To reflect latest performance data.