### Characteristics Summary

**RESEARCH . . . . . . . . . . . . . . . . . . . . . . X-3**

**DOUGLAS**

- **Wing Area**: 166.5 sq ft
- **Length**: 68.8 ft
- **Span**: 22.7 ft
- **Height**: 12.5 ft

### Availability

<table>
<thead>
<tr>
<th>Number available</th>
<th>ACTIVE</th>
<th>RESERVE</th>
<th>TOTAL</th>
</tr>
</thead>
</table>

### Procurement

<table>
<thead>
<tr>
<th>Number to be delivered in fiscal years</th>
<th></th>
</tr>
</thead>
</table>

### Status

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

**Navy Equivalent**: None

**Mir's Model**: 499D

### Power Plant

**(2) XJ34-WE-17**

**Westinghouse**

**ENGINE RATINGS**

<table>
<thead>
<tr>
<th>S.L.S</th>
<th>LB - RPM - MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max:</td>
<td>*4900 - 12,500 - 5</td>
</tr>
<tr>
<td>Mil:</td>
<td>3370 - 12,500 - 30</td>
</tr>
<tr>
<td>Nor:</td>
<td>3020 - 12,500 - Cont</td>
</tr>
</tbody>
</table>

*Afterburner operating*

### Features

- Crew: 1
- Cockpit Cooling & Pressurization
- Mod. Diamond Airfoil
- Capable of Ground Takeoff & Landing
- Telemetering Instruments
- Downward Ejection Seat
- Deceleration Parachute
- Supplement Landing Brakes
- Speed Brake
- Max Fuel Capacity: 1000 gal

### Armament

**NONE**
## Characteristics Summary Typical Profile

**FLIGHT PLAN VARIED AS NECESSARY TO FULFILL MISSION**

![Diagram of flight path]

**TAKE-OFF**

### PERFORMANCE

<table>
<thead>
<tr>
<th>ENDURANCE</th>
<th>MISSION</th>
<th>HIGH SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. 100</td>
<td>35,000</td>
<td>450 Kn.</td>
</tr>
<tr>
<td>111</td>
<td>15,000</td>
<td>385 Kn.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>To obtain aerodynamic, power plant, structural and other flight research data.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>595 knots (0.8 Mach)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>zero ft. alt., partial power</td>
<td></td>
</tr>
</tbody>
</table>

### CLIMB

- **24,000 ft/min.** S.L. flight weight maximum power
- **42,000 ft.** Flight wt. max power

### CEILING

- **4100 ft.** no assist | ___ ft. assisted
- **4400 ft.** no assist | ___ ft. assisted

### LOAD WEIGHS

- **Fuel:** 1000 gal
- **Internal:** 1000 gal
- **Droppable:** None

### STALLING SPEED

- **177 knots**
- Power-off, landing configuration, take-off weight

### TIME TO CLimb

- **11.5 min.**
- S.L. to 35,000 feet; flight wt.

### NOTES

1. **PERFORMANCE BASIS:**
   - (a) Preliminary flight test data (Not substantiated by WADC).
   - (b) Limited by structural design criteria.
2. **REVISION BASIS:** To reflect preliminary flight test data.