Characteristics Summary

BOMBER ................. YB-29J

Wing area .................. 1720 sq ft
Length ...................... 99.0 ft
Span ........................ 141.2 ft
Height ........................ 27.8 ft

AVAILABILITY

<table>
<thead>
<tr>
<th>Number available</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

STATUS

1. The YB-29J series aircraft consists of the following aircraft: two (2) KB-29P, one B-29A one TB-29B and one KB-29M. The airplane covered in this analysis is the B-29A, USAF Serial No. 44-63027.

2. The YB-29J differs from the standard B-29 bomber by the installation of new engines, propellers and resulting minor changes.

3. Modification currently underway

POWER PLANT

(4) R-3350-CA2
Wright (861C18A2)

ENGINE RATINGS

BHP-RPM-ALT-MIN

T.O. 2700-2900-Turbo-5
Mil: 2600-2800-Turbo-30
Nor. 2300-2600-Turbo-Cont

FEATURES

Crew: 11
Cabin Pressurization
Heating and Cooling
Bombing-Navigation Radar
Max Fuel Cap: 9150 gal

ARMAMENT

Turrets: 5
Guns: 12 x .50 cal
Ammunition (tot.): 6000 rds
Max Bomb Load: 40 x 500 lb
Max Bomb Size: 4000 lb

26 JANUARY 1951

YB-29J
### Characteristics Summary Basic Mission

**YB-29J**

![Diagram showing mission details](image)

#### PERFORMANCE

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>COMBAT RANGE</th>
<th>COMBAT SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1658 naut. mi</td>
<td>3126 naut. mi</td>
<td>321 knots at 25,000 ft alt, max power</td>
</tr>
</tbody>
</table>

**MAXIMUM SPEED**

- 321 knots at 25,000 ft alt, max power

#### CLIMB CEILING

- **700 fpsm**
  - sea level, take-off weight
  - normal power
- **30,070 ft**
  - 100 fpsm, take-off weight
  - normal power
- **35,235 ft**
  - 500 fpsm, combat weight
  - maximum power

#### TAKE-OFF

- **5340 ft**
  - ground run
  - no assist
  - assisted

- **7530 ft**
  - over 50 ft height
  - no assist
  - assisted

#### LOAD WEIGHTS

| Bombs: 10,000 lb |
| Ammunition: 6000 rds/.50 cal |
| Fuel: 7870 gal |
| protected 100% |
| droppable 0% |
| external 0% |
| Empty..... 74,100 lb |
| Combat... 105,600 lb |
| Take-off 142,622 lb |
| limited by space |

#### STALLING SPEED

- **104 knots**
  - flaps down, take-off weight

#### TIME TO CLimb

**Notes**

1. PERFORMANCE BASIS:
   (a) Flight test data
   (b) Fuel density: 6.0 lb/gal (115/145)
2. REVISION BASIS - Initial Issue