



DEVISIPATIOR

VERSUS KATE

AT THE START OF WWII, THE DOUGLAS TBD AND NAKAJIMA B5N WERE THE MAIN TORPEDO-BOMBERS OF AMERICA AND JAPAN. WHAT MADE ONE AN APPARENT FAILURE AND THE OTHER A SUCCESS?

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A Devastator releasing its torpedo. As can be seen, the pilot had to keep the plane in perfectly level flight.

he US Navy's Douglas TBD
Devastator has been derided as
an outdated torpedo/attack-bomber
during its early World War Two
history — lambasted for being slow
and underpowered. Yet, the Imperial
Japanese Navy's (IJN) Nakajima B5N
Kate was esteemed as both a torpedo/
attack- and horizontal-bomber during
the same time period.

How much better was the Kate than the Devastator?

Well... not that much. What? Let's explain.

Both these designs had their first flights in 1937 and each had a crew of three in tandem — pilot, bombardier, and radio operator/rear gunner. The TBD was the world's first carrier aircraft with powered folding wings (the Kate's wings were manually folded by the deck crew), both aircraft

had fully enclosed cockpits (novel for the time), as well as retractable landing gear and all-metal monocoque construction. These aircraft had almost identical lengths and wingspans with nearly the same wing area — though the Kate was 600-pounds lighter and had 100 more horsepower. Cruising speed was greatly different with the Devastator lumbering at 128-mph relative to the Kate's 161-mph.

Devastators had more draginducing frontal area than the
Kate. This was to allow the TBD's
bombardier to take a prone position
under the pilot to aim with the Norden
bombsight during a conventional
bombing mission. The Kate's
bombardier did not have to leave
his seat to use the aircraft's bomb
sight. Kate aircrews could get to the
fight more quickly but their aircraft
were much less protected by armor
than the Devastator. However, the
speed differential meant very little to
intercepting fighters or anti-aircraft



As the war progressed, Japan's Kates would have to penetrate a vastly improved American anti-aircraft system as well as overwhelming numbers of CAP fighters.

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