Operator Performance Laboratory (OPL)
1801 South Riverside Drive, Hangar H
Iowa City Municipal Airport (KIOW, CTAF 122.8, Rwy 7/25)
Iowa City, Iowa 52242
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Research Aircraft Specification Sheet

Make: Beechcraft A-36 Bonanza
Registration: N23540, State of Iowa, University of Iowa, liability insured
Crew: 4, right front seat safety pilot, left front seat evaluation pilot, 2 seats for FTEs in rear. Middle seat row used for instrument rack.

Dimensions: Length: 10.81 m (35 ft 6 in), Wingspan: 10.29 m (33 ft 9 in), Height: 3.13 m (10 ft 3 in), Wing area: 19.8 m² (213 ft²), empty weight: 2,280 kg (5,030 lb), Loaded weight: 3,286 kg (7,244 lb), Max takeoff weight: 3,540 kg (7,800 lb)

Performance: Wingspan: 33 ft 6 in (10.21 m), Height: 8 ft 7 in (2.62 m), Empty weight: 2,517 lb (1,142 kg), Gross weight: 3,650 lb (1,656 kg), Powerplant: 1 × Continental IO-550-B, 300 hp (220 kW).

Propeller: 3-bladed Hartzell, 6 ft 8 in (2.03 m) diameter
Cruise speed: 176 kts (203 mph; 326 km/h), Range: 221 NM (254 mi; 409 km) with full mission load, Ferry range: 930 nmi (1,070 mi; 1,720 km), Service ceiling: 18,500 ft (5,600 m), Rate of climb: 1,230 ft/min (6.2 m/s), utility category.

Instrumentation: Instrumented rack for multi-purpose applications. Current rack carries 6 high performance PC computers (Linux or Windows), Cognitive Avionics Tool Set (CATS), 2 each 6 x 8 portrait 1024x768 daylight readable touch screens overlaid over pilot side round gauges, quick removable, co-pilot side certified backup instruments, 20 inch rear crew station touch screen for flight test engineer, 900 Mhz Long range data link 2Mbps, 2.4Ghz 10W video link, 4 channel video, Hemisphere Crescent heading source, Rockwell Collins GuS GADHRS, Novatel ProPak V3 GNSS, 4kW 120VAC true sine wave inverter with buffer batteries, GPS, SVS/EVS software, OPL proprietary remote process management.