



National Transportation Safety Board Aviation Accident Final Report

Location:	ENGLEWOOD, CO	Accident Number:	DEN92LA029
Date & Time:	02/01/1992, 0840 MST	Registration:	N689W
Aircraft:	WARFIELD BD-4	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation -		

Analysis

THIS WAS THE FIRST FLIGHT FOR THE AMATEUR HOMEBUILT AIRPLANE. THE PILOT WAS SEEN TO USE ABOUT 6975 FEET OF THE 10,001 FOOT RUNWAY BEFORE LIFTING OFF. THE PILOT SAID HE ROTATED AND CLIMBED OUT AT 67 MPH. THE AIRPLANE DRIFTED TO THE RIGHT AND THE RIGHT WING DROPPED. THE PILOT ATTEMPTED TO 'MUSH' THE AIRPLANE ONTO THE GROUND. TOWER CONTROLLERS SAID THE AIRPLANE LIFTED OFF IN AN EXTREME NOSE HIGH ATTITUDE AND APPEARED TO STALL. PILOTS FAMILIAR WITH THE AIRPLANE SAID THE AIRPLANE SHOULD HAVE BEEN ROTATED BETWEEN 80-85 MPH IAS.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: IMPROPER VR SPEED USED, CAUSING AN INADVERTENT STALL/MUSH. A FACTOR WAS: THE PILOT'S LACK OF TOTAL EXPERIENCE IN AIRCRAFT MAKE AND MODEL.

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) AIRSPEED(VR) - IMPROPER - PILOT IN COMMAND
2. (C) STALL/MUSH - INADVERTENT - PILOT IN COMMAND
3. (F) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Factual Information

Pilot Information

Certificate:	Private	Age:	63, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	12/19/1991
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	464 hours (Total, all aircraft), 417 hours (Pilot In Command, all aircraft), 2 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	WARFIELD	Registration:	N689W
Model/Series:	BD-4 BD-4	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	689
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	02/15/1991, Annual	Certified Max Gross Wt.:	2200 lbs
Time Since Last Inspection:	8 Hours	Engines:	1 Reciprocating
Airframe Total Time:	8 Hours	Engine Manufacturer:	FORD
ELT:	Installed, not activated	Engine Model/Series:	V-6/3.8 LITRE
Registered Owner:	WARFIELD, ROBERT W.	Rated Power:	200 hp
Operator:	WARFIELD, ROBERT W.	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	50 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	3°C / -3°C
Precipitation and Obscuration:			
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	VFR
Departure Time:	0000	Type of Airspace:	Class D; Class E

Airport Information

Airport:	CENTENNIAL (APA)	Runway Surface Type:	Asphalt
Airport Elevation:	5883 ft	Runway Surface Condition:	Dry
Runway Used:	17	IFR Approach:	None
Runway Length/Width:	10001 ft / 100 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	ARNOLD W SCOTT	Report Date:	06/11/1993
Additional Participating Persons:	RONALD NORTON; DENVER, CO		
Publish Date:			
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).