



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	ENGLEWOOD, CO	<b>Accident Number:</b>	DEN92LA029
<b>Date &amp; Time:</b>	02/01/1992, 0840 MST	<b>Registration:</b>	N689W
<b>Aircraft:</b>	WARFIELD BD-4	<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	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

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

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

## Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	63
<b>Airplane Rating(s):</b>	Single-engine Land	<b>Instrument Rating(s):</b>	None
<b>Other Aircraft Rating(s):</b>	None	<b>Instructor Rating(s):</b>	None
<b>Flight Time:</b>	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	Engines:	1 Reciprocating
Operator:	WARFIELD, ROBERT W.	Engine Manufacturer:	FORD
Operating Certificate(s) Held:	None	Engine Model/Series:	V-6/3.8 LITRE
Flight Conducted Under:	Part 91: General Aviation -		

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Weather Information Source:	Witness
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	5 knots / , 130°
Temperature:	3°C	Visibility	50 Miles
Precipitation and Obscuration:			
Departure Point:	Destination:		

## Airport Information

Airport:	CENTENNIAL (APA)	Runway Surface Type:	Asphalt
Runway Used:	17	Runway Surface Condition:	Dry
Runway Length/Width:	10001 ft / 100 ft		

## 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
Latitude, Longitude:			

## Administrative Information

Investigator In Charge (IIC):	ARNOLD W SCOTT	Adopted Date:	06/11/1993
Investigation Docket:	NTSB accident and incident docket 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 <a href="mailto:pubin@ntsb.gov">pubin@ntsb.gov</a> , or at 800-877-6799. Dockets released after this date are available at <a href="http://dms.nts.gov/pubdms/">http://dms.nts.gov/pubdms/</a> .		

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