

Aviation Investigation Final Report

Location:	LA SALLE, Colorado	0	Accident Number:	DEN89LA134
Date & Time:	June 6, 1989, 09:45	5 Local	Registration:	N48749
Aircraft:	RYAN	ST-3KR	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 Serious
Flight Conducted Under:	Part 91: General aviation - Personal			

Analysis

THE PRIVATE PLT WAS FLYING HIS ANTIQUE AIRPLANE ON A LOCAL FLIGHT TO CHECK THE COMPASS. THIS PLANE HAD BEEN UNDER RESTORATION FOR AN EXTENDED TIME PRIOR TO THIS FLIGHT.DURING FLIGHT, THE ENGINE LOST POWER AND THE PLT MADE A FORCED LANDING IN AN ALFALFA FIELD. AFTER ROLLING 200 FT IN 18 INCH HIGH ALFALFA, THE PLANE NOSED OVER. A POST ACCIDENT INSPECTION REVEALED EVIDENCE THAT THE FUEL TANK VENT WAS CLOGGED BY AN INSECT NEST (DIRT), WHICH RESTRICTED THE FLOW OF FUEL. AFTER THE VENT WAS CLEANED, THE ENGINE RAN NORMALLY.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FOREIGN MATERIAL (INSECT NEST) BLOCKING THE FUEL SYSTEM VENT, WHICH RESULTED IN A RESTRICTION OF FUEL FLOW AND FUEL STARVATION. A RELATED FACTOR WAS THE ALFALFA CROP IN THE EMERGENCY LANDING AREA.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL Phase of Operation: CRUISE

Findings 1. (C) FUEL SYSTEM, VENT - BLOCKED(TOTAL) 2. (C) FLUID, FUEL - STARVATION -----

Occurrence #2: FORCED LANDING Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: NOSE OVER Phase of Operation: LANDING - ROLL

Findings 3. (F) TERRAIN CONDITION - CROP

Factual Information

Pilot Information

Certificate:	Private	Age:	60,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	March 23, 1989
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	759 hours (Total, all aircraft), 148 hours (Total, this make and model), 713 hours (Pilot In Command, all aircraft), 25 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	RYAN	Registration:	N48749
Model/Series:	ST-3KR ST-3KR	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	1402
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	May 8, 1989 Annual	Certified Max Gross Wt.:	1860 lbs
Time Since Last Inspection:	2 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3514 Hrs	Engine Manufacturer:	KINNER
ELT:	Installed, not activated	Engine Model/Series:	R-56
Registered Owner:	HAROLD F. SCHMIDT	Rated Power:	160 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 3000 ft AGL	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	16°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	GREELEY , CO (GXY)	Type of Flight Plan Filed:	None
Destination:	(GXY)	Type of Clearance:	None
Departure Time:	09:15 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	40.340686,-104.700271(est)

Administrative Information

Investigator In Charge (IIC):	Collins, Robert	
Additional Participating Persons:	H. O ABBOTT; AURORA , CO	
Original Publish Date:	June 28, 1991	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=17718	

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The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available here.