



National Transportation Safety Board Aviation Accident Factual Report

Location:	WACONIA, MN	Accident Number:	CHI00LA179
Date & Time:	07/01/2000, 1000 CDT	Registration:	N256DN
Aircraft:	Norton VOLKSPLANE VP-1	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Fatal
Flight Conducted Under:	Part 91: General Aviation - Personal		

HISTORY OF FLIGHT

On July 1, 2000, at 1000 central daylight time, an experimental amateur built Norton Volksplane VP-1, N256DN, piloted by a commercial pilot, was destroyed on impact with terrain during climbout from runway 27 (2,700 feet by 100 feet, turf) at Molnau Airpark Airport, Waconia, Minnesota. Visual meteorological conditions prevailed at the time of the accident. The 14 CFR Part 91 personal flight was not operating on a flight plan. The pilot was fatally injured. The flight was originating at the time of the accident.

A witness reported, "I heard the plane first before I saw him. He came over the last hanger at the airport and flew over me. He was climbing up into the air when he went to make what looked like a small turn when all of a sudden he turned and went straight down. It didn't look like he was having any trouble before that. I didn't see the crash because he went behind a tree line that blocked him from my view..."

A second witness reported, "I saw the plane when it was approx. 150 to 200 feet in the air and slipping toward the ground. The motor was running normal when it fell from my view and the plane was silent. My friend and myself knew it must have crashed as it was too low to recover from the slide..."

A third witness reported, "I heard and aircraft departing Rwy 27 @ Waconia, MN (1MN5). It was between 150 and 200 ft above the ground in a rt wing low nose up attitude, quickly changing to nose down vertically. The engine was loud as in full power with no change in sound. The hill between me and the site of the crash prohibited me from seeing the last 20 feet of the aircraft's flight path. There was no crash sound or smoke..."

PERSONNEL INFORMATION

The 48-year-old pilot held a commercial pilot certificate with airplane single engine land and instrument ratings. He also held a certified flight instructor certificate with and an airplane

single engine land rating. A total flight time of 400 hours was reported on the application of his third class medical certificate on August 4, 1999, which had the restriction, "must have available glasses for near vision."

AIRCRAFT INFORMATION

The airplane was manufactured by the pilot and was registered as an experimental amateur built on March 25, 1999. The airplane received a special airworthiness certificate on May 9, 2000. The tail wheel airplane was constructed of wood and fabric and has a useful load of 210 lbs.

WRECKAGE AND IMPACT INFORMATION

Flight control continuity and engine continuity was established by the Federal Aviation Administration. Fuel was present in the fuel pump lines and in the carburetor. Examination of the wreckage revealed no preexisting anomalies.

MEDICAL AND PATHOLOGICAL INFORMATION

An autopsy of the pilot was conducted by the Minnesota Regional Coroner's Office, Hastings, Minnesota.

Federal Aviation Administration toxicological test results of the pilot were negative for all substances tested.

TESTS AND RESEARCH

Advisory Circular 61-21A, Flight Training Handbook, states under Stall Characteristics, "...when the airplane is in a nose-high turning attitude, the angle of bank has a tendency to increase. This occurs because with the airspeed decreasing, the airplane begins flying in a smaller and smaller arc. Since the outer wing is moving in a larger radius and thus traveling faster than the inner wing, it has more lift and causes an overbanking tendency. At the same time, because of the decreasing lift on both wings, the pitch attitude tends to lower. ..."

ADDITIONAL INFORMATION

The Federal Aviation Administration was a party to the investigation.

The wreckage and all parts were released on July 11, 2000.

Pilot Information

Certificate:	Commercial	Age:	48, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Center
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	Yes
Medical Certification:	Class 3 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	08/04/1999
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	400 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Norton	Registration:	N256DN
Model/Series:	VOLKSPLANE VP-1 VOLKSPLANE	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	19941999
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	880 lbs
Time Since Last Inspection:		Engines:	1 Unknown
Airframe Total Time:		Engine Manufacturer:	
ELT:	Not installed	Engine Model/Series:	
Registered Owner:	DAVID NORTON	Rated Power:	
Operator:	DAVID NORTON	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	GYL, 992 ft msl	Distance from Accident Site:	20 Nautical Miles
Observation Time:	0955 CDT	Direction from Accident Site:	215°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	15 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	210°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	79° C / 64° C
Precipitation and Obscuration:			
Departure Point:	(1MN5)	Type of Flight Plan Filed:	VFR
Destination:	UNKNOWN	Type of Clearance:	
Departure Time:	0000	Type of Airspace:	Class G

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	MITCHELL F GALLO
Additional Participating Persons:	CASEY HEGGERSTON; MINNEAPOLIS, MN
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/ .