



Aviation Investigation Final Report

Location:	LANE, Illinois	Accident Number:	CHI89DEV03
Date & Time:	November 14, 1988, 13:40 Local	Registration:	N91411
Aircraft:	RYAN NAVION	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

AIRPLANE LANDED IN A PLOWED FIELD AFTER LOSING POWER DURING INITIAL CLIMB. THE FLIGHT PURPOSE WAS TO ACCOMPLISH A BIENNIAL FLIGHT REVIEW. THE LANDING GEAR FAILED AFTER DIGGING INTO THE SOFT DIRT OF THE PLOWED FIELD. DURING THE INVESTIGATION THE ACFT OWNER SAID THAT THE ACFT HAD NOT BEEN FLOWN FOR SEVERAL MONTHS AND THE FUEL ON BOARD HAD BEEN LOW FOR THE STATIC PERIOD. THE POWERPLANT HAD NO DISCREPANCIES EXCEPT WATER IN THE FUEL LINE AND THE CARBURETOR.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) FLUID,FUEL - WATER
2. (C) PREFLIGHT PLANNING/PREPARATION - INADEQUATE - DUAL STUDENT
3. (C) SUPERVISION - INADEQUATE - PILOT IN COMMAND(CFI)

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

Findings

4. (F) TERRAIN CONDITION - NONE SUITABLE

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

5. (F) TERRAIN CONDITION - SOFT

Occurrence #4: GEAR COLLAPSED
Phase of Operation: LANDING - ROLL

Findings

6. LANDING GEAR - OVERLOAD

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	69, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim	Last FAA Medical Exam:	September 22, 1987
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	19000 hours (Total, all aircraft), 52 hours (Total, this make and model), 18800 hours (Pilot In Command, all aircraft), 37 hours (Last 90 days, all aircraft), 12 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	RYAN	Registration:	N91411
Model/Series:	NAVION NAVION	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	NAV-4-74
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	November 12, 1987 Annual	Certified Max Gross Wt.:	2350 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	2503 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed	Engine Model/Series:	E-185-3
Registered Owner:	WILLIAM E. MARTIN	Rated Power:	185 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:	SPI ,600 ft msl	Distance from Accident Site:	40 Nautical Miles
Observation Time:	13:51 Local	Direction from Accident Site:	245°
Lowest Cloud Condition:	24000 ft AGL	Visibility	15 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	120°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	16°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	13:40 Local	Type of Airspace:	Class G

Airport Information

Airport:	MARTIN	Runway Surface Type:	Dirt
Airport Elevation:	0 ft msl	Runway Surface Condition:	Rough;Soft;Wet
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	40.11914,-88.859703(est)

Administrative Information

Investigator In Charge (IIC): Mason, Richard

Additional Participating Persons:

Original Publish Date: September 25, 1989

Last Revision Date:

Investigation Class: [Class](#)

Note:

Investigation Docket: <https://data.ntsb.gov/Docket?ProjectID=14224>

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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](#).