



National Transportation Safety Board Aviation Accident Final Report

Location:	TERRE HAUTE, IN	Accident Number:	CHI86FEX01
Date & Time:	10/02/1985, 1424 EST	Registration:	N3768U
Aircraft:	Piper PA-38-112	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None

Flight Conducted Under: Part 91: General Aviation - Instructional

Analysis

THE ACFT RT MAIN & NOSE GEAR COLLAPSED DURING A FORCED LANDING AFTER A POWER LOSS DURING TAKEOFF. THE STUDENT PLT WAS AT THE CONTROLS WHEN THE ENG QUIT AT ABOUT 300 FT AGL. THE CFI TOOK THE CONTROLS AND TURNED LEFT TOWARD A TAXIWAY FOR THE LANDING. THE ACFT LANDED BETWEEN THE RWY & TAXIWAY IN A GROUTH OF SOYBEANS. THE CULTIVATED AREA COLLAPSED THE LANDING GEAR BENDING THE RT WING DURING THE SLIDING STOP. POST ACC INSPECTION SHOWED NO ABNORMALITIES OR DEFECTS IN THE POWERPLANT OR SYSTEMS. WX CONDITIONS WERE NOT CONDUCTIVE TO CARB ICING AND NO EVIDENCE WAS FOUND TO INDICATE CARBURETOR ICE.

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
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

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

Findings

2. LOWERING OF FLAPS - NOT PERFORMED - PILOT IN COMMAND(CFI)

Occurrence #3: HARD LANDING
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

3. (F) LANDING GEAR,MAIN GEAR - FAILURE,TOTAL
4. (F) LANDING GEAR,NOSE GEAR ASSEMBLY - FAILURE,TOTAL
5. (F) LANDING GEAR,NOSE GEAR ASSEMBLY - OVERLOAD
6. (F) LANDING GEAR,MAIN GEAR - OVERLOAD
7. TERRAIN CONDITION - ROUGH/UNEVEN
8. TERRAIN CONDITION - OPEN FIELD

Factual Information

Pilot Information

Certificate:	Flight Instructor; Commercial	Age:	21, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	09/21/1985
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	328 hours (Total, all aircraft), 97 hours (Total, this make and model), 184 hours (Pilot In Command, all aircraft), 35 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N3768U
Model/Series:	PA-38-112 PA-38-112	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal; Utility	Serial Number:	38-78A0301
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	08/12/1985, Annual	Certified Max Gross Wt.:	1670 lbs
Time Since Last Inspection:	12 Hours	Engines:	1 Reciprocating
Airframe Total Time:	831 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	O-235-L2C
Registered Owner:	H AND D AVIATION	Rated Power:	118 hp
Operator:	H AND D AVIATION	Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	HUF, 592 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	1426 EST	Direction from Accident Site:	360°
Lowest Cloud Condition:	Scattered / 20000 ft agl	Visibility	15 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	100°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	16° C / 0° C
Precipitation and Obscuration:			
Departure Point:	TERRE HAUTE, IN (HUF)	Type of Flight Plan Filed:	None
Destination:	TERRE HAUTE, IN (HUF)	Type of Clearance:	None
Departure Time:	1423 EST	Type of Airspace:	TRSA

Airport Information

Airport:	HULMAN REGIONAL (HUF)	Runway Surface Type:	Concrete
Airport Elevation:	585 ft	Runway Surface Condition:	Dry
Runway Used:	13	IFR Approach:	None
Runway Length/Width:	5290 ft / 150 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	MARTHA F LUNKEN	Report Date:	
Additional Participating Persons:	LEONARD F SWOPPE		
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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