

Aviation Investigation Final Report

Location:	FRASER, Michigan		Accident Number:	CHI83LA159
Date & Time:	April 1, 1983, 13:45 Loc	cal	Registration:	N1517R
Aircraft:	GRUMMAN	AA-5B	Aircraft Damage:	Substantial
Defining Event:			Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal			

Analysis

THE AIRCRAFT STALLED AND UNDERSHOT THE RUNWAY LANDING ABOUT 100 FEET SHORT, WHERE IT COLLIDED WITH A DITCH AND NOSED OVER. THE PILOT AND HIS WIFE ABOARD THE AIRCRAFT WERE NOT INJURED. THE AIRCRAFT LANDED ON RUNWAY 09 AND THE WIND WAS FROM 110 DEGREES AT 15 KTS GUSTING TO 24 KTS.

Probable Cause and Findings

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

Findings

Occurrence #1: UNDERSHOOT Phase of Operation: LANDING

Findings

(F) WEATHER CONDITION - GUSTS
(F) WEATHER CONDITION - TURBULENCE
(C) PROPER TOUCHDOWN POINT - NOT ATTAINED - PILOT IN COMMAND
(C) FLARE - IMPROPER - PILOT IN COMMAND
(C) STALL/MUSH - NOT CORRECTED - PILOT IN COMMAND

Occurrence #2: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN Findings 6. (C) PROPER DESCENT RATE - NOT MAINTAINED - PILOT IN COMMAND

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

Occurrence #4: NOSE OVER Phase of Operation: LANDING - ROLL

Factual Information

Pilot Information

Certificate:	Private	Age:	30,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	December 22, 1982
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	89 hours (Total, all aircraft), 15 hours (Total, this make and model), 49 hours (Pilot In Command, all aircraft), 5 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	GRUMMAN	Registration:	N1517R
Model/Series:	AA-5B AA-5B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	AA5B-0017
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	February 3, 1983 Annual	Certified Max Gross Wt.:	1530 lbs
Time Since Last Inspection:	40 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3205 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated	Engine Model/Series:	0-360-A4K
Registered Owner:	LARRY ROHL	Rated Power:	180 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:	PET ,625 ft msl	Distance from Accident Site:	20 Nautical Miles
Observation Time:	13:49 Local	Direction from Accident Site:	360°
Lowest Cloud Condition:	Scattered / 8000 ft AGL	Visibility	6 miles
Lowest Ceiling:	Broken / 25000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	15 knots / 24 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	110°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	16°C
Precipitation and Obscuration:	N/A - None - Haze		
Departure Point:	CLEVELAND , OH (BKL)	Type of Flight Plan Filed:	VFR
Destination:	FRASER , MI (D-13)	Type of Clearance:	None
Departure Time:	12:25 Local	Type of Airspace:	Class E

Airport Information

Airport:	MCKINLEY D-13	Runway Surface Type:	Asphalt
Airport Elevation:	613 ft msl	Runway Surface Condition:	Dry
Runway Used:	9	IFR Approach:	None
Runway Length/Width:	2910 ft / 50 ft	VFR Approach/Landing:	Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	42.530609,-82.940483(est)

Administrative Information

Investigator In Charge (IIC):	Michelangelo, James
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=12127

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

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.