



# Aviation Investigation Final Report

<b>Location:</b>	FAIRBANKS, Alaska	<b>Accident Number:</b>	ANC91LA078
<b>Date &amp; Time:</b>	June 21, 1991, 00:07 Local	<b>Registration:</b>	N40304
<b>Aircraft:</b>	MAULE M4-220-C	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	2 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

SHORTLY AFTER LIFTOFF, THE AIRPLANE CRASHED IN A WOODED AREA NEXT TO THE AIRPORT. AFTER THE ACCIDENT, IT WAS REVEALED THAT BOTH FLOATS HAD A LARGE AMOUNT OF WATER IN THEM. THE PIC STATED HE BELIEVED THAT THE AIRPLANE WAS OVER GROSS WEIGHT BY 200 POUNDS.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S FAILURE TO MAINTAIN AIRSPEED DURING THE INITIAL CLIMB AND EXCEEDING THE GROSS WEIGHT OF THE AIRPLANE. CONTRIBUTING TO THE ACCIDENT WAS HIGH VEGETATION.

## Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT  
Phase of Operation: TAKEOFF - INITIAL CLIMB

### Findings

1. STALL/MUSH - PILOT IN COMMAND
2. (C) AIRSPEED - NOT MAINTAINED - PILOT IN COMMAND
3. (C) AIRCRAFT WEIGHT AND BALANCE - EXCEEDED - PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH OBJECT

Phase of Operation: DESCENT - UNCONTROLLED

Findings

4. (F) TERRAIN CONDITION - HIGH VEGETATION

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	44, Male
<b>Airplane Rating(s):</b>	Single-engine land; Single-engine sea	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Valid Medical--w/ waivers/lim	<b>Last FAA Medical Exam:</b>	August 29, 1990
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	478 hours (Total, all aircraft), 11 hours (Total, this make and model), 448 hours (Pilot In Command, all aircraft), 44 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

<b>Aircraft Make:</b>	MAULE	<b>Registration:</b>	N40304
<b>Model/Series:</b>	M4-220-C M4-220-C	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	2078C
<b>Landing Gear Type:</b>	Float	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	June 13, 1991 Annual	<b>Certified Max Gross Wt.:</b>	2300 lbs
<b>Time Since Last Inspection:</b>	1 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	425 Hrs	<b>Engine Manufacturer:</b>	FRANKLIN
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	GA-350-C1
<b>Registered Owner:</b>		<b>Rated Power:</b>	220 Horsepower
<b>Operator:</b>	MAX C. LYON JR.	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	FAI ,430 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	00:07 Local	<b>Direction from Accident Site:</b>	270°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	80 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	6 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	300°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	24°C / 8°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>		<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	NOWITNA RIVER , AK (NONE)	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	00:07 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	FAIRBANKS INT'L AIRPORT FAI	<b>Runway Surface Type:</b>	Water
<b>Airport Elevation:</b>	450 ft msl	<b>Runway Surface Condition:</b>	Water-calm
<b>Runway Used:</b>	1	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5400 ft / 150 ft	<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	1 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	2 None	<b>Latitude, Longitude:</b>	64.810829,-147.71997(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Michelangelo, James
<b>Additional Participating Persons:</b>	ROBERT SHEPARD; FAIRBANKS , AK DAVE SMITH; FAIRBANKS , AK
<b>Original Publish Date:</b>	March 31, 1993
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.ntsb.gov/Docket?ProjectID=5562">https://data.ntsb.gov/Docket?ProjectID=5562</a>

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