



National Transportation Safety Board Aviation Accident Data Summary

Location:	ANCHORAGE, AK	Accident Number:	ANC93LA051
Date & Time:	04/03/1993, 1400 AST	Registration:	N4190V
Aircraft:	CESSNA 170	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

AFTER MAKING A DOWNHILL TAKEOFF, AND JUST AFTER PASSING THE END OF THE RUNWAY, THE SKI EQUIPPED AIRPLANE DESCENDED AND COLLIDED WITH TREES AND A SNOWBANK. THE RUNWAY WAS COVERED WITH ABOUT 12 INCHES OF SLUSHY WET SNOW. THE 57 HOUR PRIVATE PILOT SAID THAT THE AIRPLANES TAIL WHEEL (NOT EQUIPPED WITH A SKI) DRAGGING IN THE SNOW KEPT THE AIRPLANE FROM GETTING AIRBORNE SOONER. AFTER HE GOT THE TAIL OUT OF THE SNOW, HE ATTEMPTED TO ROTATE BEFORE GAINING SUFFICIENT TAKEOFF AIRSPEED, WHICH PUT THE TAIL WHEEL BACK INTO THE SNOW. THE AIRPLANE GOT AIRBORNE ABOUT 3/4 WAY DOWN THE RUNWAY, THEN FLEW IN GROUND EFFECT UNTIL PASSING OVER THE END OF THE RUNWAY AND LOWER TERRAIN. THE PILOT HAD JUST RECENTLY PURCHASED THE AIRPLANE, AND FLEW IT (FOR THE FIRST TIME) FOR 1.8 HOURS WITH A MORE EXPERIENCED PILOT/FRIEND ON THE PREVIOUS DAY. THAT WAS ALSO HIS ONLY TIME AS THE PILOT OF AN AIRPLANE EQUIPPED WITH SKIS OR WITH A TAIL WHEEL.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT IN COMMAND'S PREMATURE LIFT-OFF. CONTRIBUTING FACTORS WERE THE PILOT'S FAILURE TO ABORT THE TAKEOFF, HIS LACK OF TOTAL EXPEREINCE IN THE TYPE AIRPLANE AND TYPE OPERATION, AND THE SLUSH COVERED RUNWAY.

Findings

Occurrence #1: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. OBJECT - TREE(S)
 2. (F) AIRPORT FACILITIES,RUNWAY/LANDING AREA CONDITION - SLUSH COVERED
 3. (F) ABORT - NOT PERFORMED - PILOT IN COMMAND
 4. (F) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND
 5. TERRAIN CONDITION - DOWNHILL
 6. (C) LIFT-OFF - PREMATURE - PILOT IN COMMAND
 7. (F) LACK OF TOTAL EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND
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Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Findings

8. TERRAIN CONDITION - SNOWBANK

Pilot Information

Certificate:	Private	Age:	24
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	57 hours (Total, all aircraft), 2 hours (Total, this make and model), 2 hours (Last 90 days, all aircraft), 2 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N4190V
Model/Series:	170 170	Engines:	1 Reciprocating
Operator:	NORDGREN, CRAIG D.	Engine Manufacturer:	CONTINENTAL
Operating Certificate(s) Held:	None	Engine Model/Series:	O-300A
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Weather Information Source:	Pilot
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	Light and Variable / , 180°
Temperature:	7°C	Visibility	60 Miles
Precipitation and Obscuration:			
Departure Point:		Destination:	KOTZEBUE, AK (OTZ)

Airport Information

Airport:	SKY HARBOR	Runway Surface Type:	Snow
Runway Used:	18	Runway Surface Condition:	Slush covered; Snow--wet
Runway Length/Width:	1800 ft / 60 ft		

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
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC): ROY C DAW Adopted Date: 06/30/1994

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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