



# Aviation Investigation Final Report

<b>Location:</b>	Soldotna, Alaska	<b>Accident Number:</b>	ANC20CA036
<b>Date &amp; Time:</b>	March 22, 2020, 12:20 Local	<b>Registration:</b>	N7023E
<b>Aircraft:</b>	Cessna 175	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Nose over/nose down	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Flight test		

## Analysis

The pilot reported that, on the day of the accident, about 6 inches of fresh snow covered the runway's surface. He added that, during the approach to land, he lined up with what he thought was the appropriate runway, slowed the airplane, and applied flaps. Upon touchdown, the nosewheel "dug" into the snow, and the airplane nosed over. The pilot reported that he had unintentionally landed on the ski strip, which had accumulated about 2 ft of snow, and not the intended runway. The airplane sustained substantial damage to the left wing.

## Probable Cause and Findings

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

The pilot's unintentional selection of the wrong landing surface, which was covered with 2 ft of snow and resulted in a nose-over.

## Findings

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<b>Personnel issues</b>	Incorrect action selection - Pilot
<b>Personnel issues</b>	Monitoring environment - Pilot
<b>Environmental issues</b>	Snow/slush/ice covered surface - Effect on operation
<b>Aircraft</b>	Pitch control - Not attained/maintained

## Factual Information

### History of Flight

<b>Approach</b>	Miscellaneous/other
<b>Landing-flare/touchdown</b>	Wrong surface or wrong airport
<b>Landing-flare/touchdown</b>	Nose over/nose down (Defining event)

### Pilot Information

<b>Certificate:</b>	Airline transport; Private	<b>Age:</b>	46, Male
<b>Airplane Rating(s):</b>	Single-engine land; Single-engine sea; Multi-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	Helicopter	<b>Restraint Used:</b>	Unknown
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 2 With waivers/limitations	<b>Last FAA Medical Exam:</b>	May 1, 2019
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	December 1, 2019
<b>Flight Time:</b>	(Estimated) 23000 hours (Total, all aircraft), 200 hours (Total, this make and model), 22700 hours (Pilot In Command, all aircraft), 400 hours (Last 90 days, all aircraft), 120 hours (Last 30 days, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N7023E
<b>Model/Series:</b>	175 A	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>	1960	<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	56523
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	
<b>Date/Type of Last Inspection:</b>	Unknown	<b>Certified Max Gross Wt.:</b>	
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	Continental
<b>ELT:</b>		<b>Engine Model/Series:</b>	GO-300
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	145 Horsepower
<b>Operator:</b>	On file	<b>Operating Certificate(s) Held:</b>	None

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	PASX,113 ft msl	<b>Distance from Accident Site:</b>	0 Nautical Miles
<b>Observation Time:</b>	19:56 Local	<b>Direction from Accident Site:</b>	314°
<b>Lowest Cloud Condition:</b>	Clear	<b>Visibility</b>	10 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	7 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	80°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30.48 inches Hg	<b>Temperature/Dew Point:</b>	1°C / -6°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Soldotna, AK (SXQ )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Soldotna, AK (SXQ )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>		<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>	SOLDOTNA SXQ	<b>Runway Surface Type:</b>	Dirt;Gravel;Ice;Snow
<b>Airport Elevation:</b>	113 ft msl	<b>Runway Surface Condition:</b>	Snow
<b>Runway Used:</b>	7S	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	2300 ft / 60 ft	<b>VFR Approach/Landing:</b>	Full stop;Traffic pattern

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 None	<b>Latitude, Longitude:</b>	60.475276,-151.032501(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Swenson, Eric
<b>Additional Participating Persons:</b>	David C Longan; FAA; Juneau, AK
<b>Original Publish Date:</b>	June 29, 2020
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	This accident report documents the factual circumstances of this accident as described to the NTSB.
<b>Investigation Docket:</b>	<a href="https://data.nts.gov/Docket?ProjectID=101104">https://data.nts.gov/Docket?ProjectID=101104</a>

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