Aviation Investigation Final Report

Location:	BRAINERD, Minnesota	**Accident Number:**	CHI93LA112
Date & Time:	February 26, 1993, 15:20 Local	**Registration:**	N44109
Aircraft:	TAYLORCRAFT BC12-D	**Aircraft Damage:**	Substantial
Defining Event:		**Injuries:**	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

THE PILOT REPORTED HE FLEW OVER THE LANDING AREA THREE TIMES TO CHECK THE LANDING SURFACE CONDITION. DURING THE LANDING TOUCHDOWN TO THE NORTH, THE AIRPLANE BOUNCED. THE RIGHT SKI BROKE THROUGH THE CRUSTED SNOW SURFACE AND THE AIRPLANE VEERED TO THE RIGHT. THE PILOT APPLIED LEFT RUDDER IN AN ATTEMPT TO COMPENSATE FOR THE VEER. THE RIGHT WING OF THE AIRPLANE CONTACTED THE LANDING AREA SURFACE AND THE AIRPLANE CAME TO A STOP. THE PILOT REPORTED THAT THE LOCAL WINDS WERE FROM THE SOUTHEAST AT 5 KNOTS.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S IMPROPER FLARE WHICH RESULTED IN A BOUNCED, HARD LANDING AND THE SUBSEQUENT LOSS OF DIRECTIONAL CONTROL.

Findings

Occurrence #1: HARD LANDING
Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings
1. (F) WEATHER CONDITION - TAILWIND
2. WRONG RUNWAY - SELECTED - PILOT IN COMMAND
3. (F) TERRAIN CONDITION - SNOW COVERED
4. (C) FLARE - IMPROPER - PILOT IN COMMAND

5. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

Occurrence #2: DRAGGED WING,ROTOR,POD,FLOAT OR TAIL/SKID
Phase of Operation: LANDING - ROLL

Factual Information

Pilot Information

Certificate:	Private	**Age:**	32,Male
Airplane Rating(s):	Single-engine land	**Seat Occupied:**	Unknown
Other Aircraft Rating(s):	None	**Restraint Used:**	
Instrument Rating(s):	None	**Second Pilot Present:**	No
Instructor Rating(s):	None	**Toxicology Performed:**	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim	**Last FAA Medical Exam:**	April 23, 1992
Occupational Pilot:	UNK	**Last Flight Review or Equivalent:**	
Flight Time:	351 hours (Total, all aircraft), 155 hours (Total, this make and model), 306 hours (Pilot In Command, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	TAYLORCRAFT	**Registration:**	N44109
Model/Series:	BC12-D BC12-D	**Aircraft Category:**	Airplane
Year of Manufacture:		**Amateur Built:**	
Airworthiness Certificate:	Normal	**Serial Number:**	9909
Landing Gear Type:	Ski	**Seats:**	2
Date/Type of Last Inspection:	March 1, 1992 Annual	**Certified Max Gross Wt.:**	1500 lbs
Time Since Last Inspection:	20 Hrs	**Engines:**	1 Reciprocating
Airframe Total Time:	1872 Hrs	**Engine Manufacturer:**	CONTINENTAL
ELT:	Installed, not activated	**Engine Model/Series:**	C85-12F
Registered Owner:	KENNETH J. KOBS	**Rated Power:**	85 Horsepower
Operator:	KENNETH J. KOBS	**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:	BRD ,1226 ft msl	**Distance from Accident Site:**	10 Nautical Miles
Observation Time:	15:20 Local	**Direction from Accident Site:**	270°
Lowest Cloud Condition:	Clear	**Visibility**	15 miles
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	7 knots /	**Turbulence Type Forecast/Actual:**	/
Wind Direction:	210°	**Turbulence Severity Forecast/Actual:**	/
Altimeter Setting:	30 inches Hg	**Temperature/Dew Point:**	-2°C / -6°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	DIMOND LAKE , MN	**Type of Flight Plan Filed:**	None
Destination:		**Type of Clearance:**	None
Departure Time:	13:00 Local	**Type of Airspace:**	Class G

Airport Information

Airport:		**Runway Surface Type:**	
Airport Elevation:		**Runway Surface Condition:**	
Runway Used:	0	**IFR Approach:**	None
Runway Length/Width:		**VFR Approach/Landing:**	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	**Aircraft Damage:**	Substantial
Passenger Injuries:		**Aircraft Fire:**	None
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	1 None	**Latitude, Longitude:**	46.349323,-94.190681(est)

Administrative Information

Investigator In Charge (IIC):	Sullivan, Pamela
Additional Participating Persons:	JAMES FULLWOOD; MINNEAPOLIS , MN
Original Publish Date:	November 3, 1993
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=15685