



National Transportation Safety Board Aviation Accident Final Report

Location:	Eastsound, WA	Accident Number:	WPR14CA125
Date & Time:	02/04/2014, 0830 PST	Registration:	N78330
Aircraft:	CESSNA 172K	Aircraft Damage:	Substantial
Defining Event:	Hard landing	Injuries:	3 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot reported that during landing, the airplane encountered a wind gust, landed hard and bounced several times. The nose gear collapsed and the airplane skidded to a stop, which resulted in substantial damage to the engine firewall.

The pilot reported no preimpact mechanical malfunctions or failures with the airplane that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's inadequate flare and failure to maintain aircraft control during landing in gusty wind conditions.

Findings

Aircraft	Landing flare - Not attained/maintained (Cause)
Personnel issues	Aircraft control - Pilot (Cause)
Environmental issues	Gusts - Effect on operation

Factual Information

History of Flight

Landing-flare/touchdown	Hard landing (Defining event) Nose over/nose down
Landing-landing roll	Runway excursion

Pilot Information

Certificate:	Private	Age:	44
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
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 3 With Waivers/Limitations	Last Medical Exam:	08/23/2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	02/12/2012
Flight Time:	(Estimated) 525 hours (Total, all aircraft), 469.7 hours (Total, this make and model), 394 hours (Pilot In Command, all aircraft), 3.5 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	CESSNA	Registration:	N78330
Model/Series:	172K	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal; Utility	Serial Number:	17257567
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	03/24/2013, Annual	Certified Max Gross Wt.:	2299 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4230 Hours	Engine Manufacturer:	LYCOMING
ELT:	C91 installed, not activated	Engine Model/Series:	O-320 SERIES
Registered Owner:	BILLYMYER SERVICES INC	Rated Power:	150 hp
Operator:	On file	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	ORS, 31 ft msl	Observation Time:	0835 PST
Distance from Accident Site:	0 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	180°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	-3° C / -14° C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:	11 knots/ 21 knots, 40°	Visibility (RVR):	
Altimeter Setting:	30.33 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:	No Precipitation		
Departure Point:	FRIDAY HARBOR, WA (FHR)	Type of Flight Plan Filed:	None
Destination:	Eastsound, WA (ORS)	Type of Clearance:	VFR
Departure Time:	0810 PST	Type of Airspace:	Class G

Airport Information

Airport:	ORCAS ISLAND (ORS)	Runway Surface Type:	Asphalt
Airport Elevation:	31 ft	Runway Surface Condition:	Dry
Runway Used:	34	IFR Approach:	None
Runway Length/Width:	2900 ft / 60 ft	VFR Approach/Landing:	Straight-in

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None		

Administrative Information

Investigator In Charge (IIC):	Albert P Nixon	Adopted Date:	06/05/2014
Additional Participating Persons:	Dwight Ford; Federal Aviation Administration; Seattle, WA		
Publish Date:	07/09/2015		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	http://dms.ntsb.gov/pubdms/search/dockList.cfm?mKey=88862		

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