



Aviation Investigation Final Report

Location:	Bison, South Dakota	Accident Number:	CEN10CA415
Date & Time:	July 6, 2010, 18:40 Local	Registration:	N391EU
Aircraft:	SKYKITS CORP SAVANNAH VGW	Aircraft Damage:	Substantial
Defining Event:	Loss of control in flight	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Ferry		

Analysis

The pilot reported that he applied right aileron to correct for a 9-knot crosswind during takeoff. The airplane encountered a gust of wind just after liftoff about 5 feet above the runway. The pilot stated that he "over-reacted" in applying right aileron and lowering the nose of the aircraft. The airplane drifted off the left side of the runway, where it descended into 30- to 36-inch-tall grass. The right wing tip contacted the ground followed by the rest of the airplane, causing substantial damage to the right wing.

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 directional control of the airplane after encountering a gust of wind while taking off with a crosswind.

Findings

Environmental issues	Gusts - Effect on operation
Environmental issues	Crosswind - Effect on operation
Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained

Factual Information

History of Flight

Takeoff	Loss of control in flight (Defining event)
Takeoff	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Private	Age:	65, Male
Airplane Rating(s):	Single-engine land; Single-engine sea	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 FAA Medical Exam:	March 5, 2009
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 15, 2008
Flight Time:	1463 hours (Total, all aircraft), 410 hours (Total, this make and model), 1463 hours (Pilot In Command, all aircraft), 43 hours (Last 90 days, all aircraft), 26 hours (Last 30 days, all aircraft), 13 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	SKYKITS CORP	Registration:	N391EU
Model/Series:	SAVANNAH VGW	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Special light-sport (Special)	Serial Number:	08-11-51-786
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:		Certified Max Gross Wt.:	1235 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	48 Hrs at time of accident	Engine Manufacturer:	Rotax
ELT:	Installed, not activated	Engine Model/Series:	912
Registered Owner:	Ken Morhain	Rated Power:	100 Horsepower
Operator:	Ken Morhain	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Few / 11000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	9 knots / 10 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	330°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.1 inches Hg	Temperature/Dew Point:	29°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Bison, SD (6V5)	Type of Flight Plan Filed:	None
Destination:	Miles City, MT (MLS)	Type of Clearance:	None
Departure Time:	18:40 Local	Type of Airspace:	Class G

Airport Information

Airport:	Bison Municipal Airport 6V5	Runway Surface Type:	Asphalt
Airport Elevation:	2785 ft msl	Runway Surface Condition:	Dry
Runway Used:	29	IFR Approach:	None
Runway Length/Width:	3500 ft / 60 ft	VFR Approach/Landing:	None

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:	45.518333,-102.467781(est)

Administrative Information

Investigator In Charge (IIC):	Sullivan, Pamela
Additional Participating Persons:	Dan McKinney, FAA-FSDO-RAP; Rapid City, SD
Original Publish Date:	December 20, 2010
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=76695

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