



# Aviation Investigation Final Report

<b>Location:</b>	Amargosa Valley, Nevada	<b>Accident Number:</b>	WPR09CA131
<b>Date &amp; Time:</b>	February 27, 2009, 14:00 Local	<b>Registration:</b>	N2518S
<b>Aircraft:</b>	Cessna TR182	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>	Loss of control in flight	<b>Injuries:</b>	4 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

The pilot reported that the airplane became airborne about 2/3 of the way down the runway during an attempted soft-field takeoff from a dirt runway. He said that he was unable to maintain an adequate airspeed and drifted off to the left side of the runway and impacted bushes and shrubs. During the accident sequence, the front landing gear folded back and the left main landing gear broke off. The outboard half of the right wing was partially separated.

## 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 adequate airspeed and runway alignment.

## Findings

<b>Aircraft</b>	Airspeed - Not attained/maintained
<b>Personnel issues</b>	Aircraft control - Pilot

## Factual Information

### History of Flight

<b>Takeoff</b>	Loss of control in flight (Defining event)
<b>Takeoff</b>	Runway excursion
<b>Takeoff</b>	Collision with terr/obj (non-CFIT)

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	40, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	None	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 With waivers/limitations	<b>Last FAA Medical Exam:</b>	May 14, 2007
<b>Occupational Pilot:</b>	No	<b>Last Flight Review or Equivalent:</b>	June 8, 2008
<b>Flight Time:</b>	312 hours (Total, all aircraft), 69 hours (Total, this make and model), 265 hours (Pilot In Command, all aircraft), 10 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	Cessna	<b>Registration:</b>	N2518S
<b>Model/Series:</b>	TR182	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	R18201346
<b>Landing Gear Type:</b>	Tricycle	<b>Seats:</b>	4
<b>Date/Type of Last Inspection:</b>	February 3, 2009 Annual	<b>Certified Max Gross Wt.:</b>	3100 lbs
<b>Time Since Last Inspection:</b>	7 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	4279 Hrs at time of accident	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>	Installed, not activated	<b>Engine Model/Series:</b>	O-540 SERIES
<b>Registered Owner:</b>	On file	<b>Rated Power:</b>	250 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>	VGT,2205 ft msl	<b>Distance from Accident Site:</b>	80 Nautical Miles
<b>Observation Time:</b>	13:30 Local	<b>Direction from Accident Site:</b>	300°
<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>	10 knots / 20 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>		<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	30 inches Hg	<b>Temperature/Dew Point:</b>	18°C / -5°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	Amargosa Valley, NV (70CL)	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>	Mesa, AZ (FFZ )	<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	14:00 Local	<b>Type of Airspace:</b>	

## Airport Information

<b>Airport:</b>	Amargosa Airport 70CL	<b>Runway Surface Type:</b>	Dirt
<b>Airport Elevation:</b>	2037 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	17	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	1625 ft / 50 ft	<b>VFR Approach/Landing:</b>	None

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	3 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	4 None	<b>Latitude, Longitude:</b>	36.489444,-116.421386

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Jones, Patrick
<b>Additional Participating Persons:</b>	John Miller; Federal Aviation Administration; Las Vegas, NV
<b>Original Publish Date:</b>	June 11, 2009
<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=73405">https://data.nts.gov/Docket?ProjectID=73405</a>

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