NTSB ID: DEN00FA127 Aircraft Registration Number: N4377V

Occurrence Date: 07/08/2000 Most Critical Injury: Fatal

Occurrence Type: Accident Investigated By: NTSB

Location/Time

Nearest City/Place State Zip Code Local Time Time Zone Aspen CO 81611 1120 MDT

Airport Proximity: Off Airport/Airstrip Distance From Landing Facility:

Aircraft Information Summary

Aircraft Manufacturer Model/Series Type of Aircraft
Cessna 195/195 Airplane

Revenue Sightseeing Flight: No Air Medical Transport Flight: No

Narrative

Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:

HISTORY OF FLIGHT

On July 8, 2000, at approximately 1120 mountain daylight time, a Cessna 195 single-engine airplane, N4377V, was destroyed when it collided with terrain while maneuvering 7.4 miles northeast of Aspen, Colorado. The airplane was registered to and operated by the airline transport pilot. The pilot and his three passengers received fatal injuries. Visual meteorological conditions prevailed and a visual flight rules flight plan was filed, but not activated, for the 14 Code of Federal Regulations Part 91 personal flight. The flight departed the Aspen-Pitkin County Airport (ASE) at 1106, and was enroute to the Front Range Airport, Watkins, Colorado, at the time of the accident.

According to family members, the pilot flew the airplane from the Front Range Airport to ASE earlier on the morning of the accident. After having breakfast at Aspen, the pilot and his passengers boarded the airplane for the return flight to Watkins.

Radar data depicted the airplane departing ASE, flying north down the Roaring Fork River Valley, then turning right to fly southeast up the Woody Creek Valley. The last radar return (39 degrees 14 minutes and 47.3 seconds North and 106 degrees 49 minutes and 52.6 seconds West) depicted the airplane at 8,388 feet msl (approximately 148 feet above the terrain).

On July 9, 2000, at 1630, a missing aircraft report was issued by the FAA based on family concerns when the aircraft did not arrive at the Front Range Airport. On July 10th at 0600, the Civil Air Patrol commenced an aerial search. Approximately 0745, the search airplanes found the accident site in the Woody Creek Valley, approximately 5.5 miles east of the location of the last radar return.

PERSONNEL INFORMATION

The pilot held an airline transport pilot certificate with an airplane multi-engine land rating and type ratings in the Boeing 737, 757, 767, and 777 aircraft. He also held a commercial pilot certificate with an airplane single-engine land rating, and current flight instructor ratings for single-engine and instrument airplanes. The pilot was issued a first class medical certificate on March 2, 2000, with the limitation "must wear corrective lenses and possess glasses for near and interim vision." According to the March 2000 medical application, the pilot reported that he had accumulated a total of 5,800 flight hours. It is not known how many hours were accumulated in the accident airplane; however, the pilot had been the registered owner of the airplane since July 7, 1998.

AIRPORT & SURROUNDING AREA INFORMATION

The ASE airport is located north of the city of Aspen at an elevation of 7,815 feet msl. A review

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Narrative (Continued)

of the Airport Facility Directory entry for ASE revealed that it stated that "unique VFR [visual flight rules] departure procedures exist." The departure procedures stated that "as soon as possible, but no later than crossing airport boundary, turn right to a heading of 360 degrees - a 30-degree right turn from runway heading - hold this heading for at least 2 miles from the airport. NOTE: It is recognized that aircraft performance will differ with aircraft type and takeoff conditions; therefore, the aircraft operator must have the latitude to determine whether takeoff thrust should be reduced prior to, during, or after flap retraction."

According to local pilots, the normal procedure for departing Aspen and flying to the Denver area is to fly north, down the Roaring Fork River Valley, until the aircraft has enough altitude to reach the Ruedi Reservoir. A review of this route on the sectional aeronautical chart revealed that after takeoff, the pilot would have had to fly the airplane north-northwest approximately 8 to 10 nautical miles toward the town of Basalt prior to turning east toward the Ruedi Reservoir. The Woody Creek Valley branches off the Roaring Fork River Valley approximately 3 miles north of the airport. The Woody Creek Valley is surrounded by rapidly rising terrain on each side, and terminates at the Williams Mountains, which have a ridgeline with elevations between 12,000 and 12,700 feet msl.

An NTSB database search for accidents occuring between 1983 and 1999 in the vicinity of the Aspen airport revealed that there were 8 accidents, 4 of which involved fatalities, in the accident site area that cited the high mountains and aircraft performance exceeded as causal and/or contributing factors.

AIRCRAFT INFORMATION

The 1949 model 4-seat airplane (serial number 7299) was equipped with a 300-horsepower Jacobs R755-A2 radial engine (serial number 31056). The aircraft maintenance records were not located during the investigation; however, an invoice and accompanying periodic aircraft inspection report indicated that the airplane underwent its last annual inspection on June 22, 2000, at a tachometer time of 4,282.0 hours.

A calculation of weight and balance was conducted using estimated fuel and passenger weights. The estimated weight and balance was within the manufacturer's limitations.

METEOROLOGICAL INFORMATION

At 1053, the Aspen weather observation facility reported the wind from 330 degrees at 6 knots, visibility 10 statute miles, scattered clouds at 6,000 feet and broken clouds at 15,000 feet, temperature 23 degrees Celsius, dew point 4 degrees Celsius, and an altimeter setting of 30.01 inches of mercury. The density altitude was calculated by an NTSB investigator to be 10,518 feet.

WRECKAGE AND IMPACT INFORMATION

The accident site was located at 9,860 feet msl at a latitude and longitude of 39 degrees 14 minutes and 24 seconds North and 106 degrees 42 minutes and 42 seconds West. The wreckage distribution path, including an area of broken and cut trees, was oriented along a measured magnetic heading of 257 degrees (almost opposite the direction of flight depicted on the radar track) and measured approximately 130 feet in length. A fire consumed the cockpit/cabin area. The empennage remained partially attached to the fuselage and sustained impact damage. The vertical stabilizer and rudder, and the left horizontal stabilizer and elevator remained attached to the empennage. The right horizontal stabilizer was found separated from the empennage, but came to rest next to the empennage. The outboard portions of the wings were separated from the airplane and displayed leading edge damage. The right wing came to rest under freshly broken trees. The wings' fracture surfaces displayed characteristics consistent with overload failure. Flight control continuity was confirmed from the rudder and left elevator to the cabin area; however, due

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Narrative (Continued)

to the wing damage, confirmation of aileron control continuity was not possible.

The engine sustained fire damage and remained attached to the airplane via control cables, and the propeller remained attached to the engine. Three cylinders were found separated from the crankcase and one was partially melted. Both propeller blades displayed chordwise scoring and fresh cuts were found in some of the fallen tree branches. The engine was relocated to a salvage facility where the spark plugs were removed and examined. The spark plugs appeared new and did not display any unusual wear or combustion properties. The engine's accessory section sustained impact and/or fire damage.

MEDICAL AND PATHOLOGICAL INFORMATION

An autopsy was not conducted on the pilot. A toxicological test on the pilot for carbon monoxide, cyanide, ethanol, and drugs was performed at the FAA's Civil Aeromedical Institute, Oklahoma City, Oklahoma. The results were negative.

ADDITIONAL INFORMATION

The wreckage was released to the owner's representative on February 11, 2002.

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AVIATION Occurr				e: Ac	ccident									
Landing Facility/Approach Information														
Airport Name Ai			Airport ID:	A	Airport Elevation Ft. MSL		Runway Used Runw		way Length		Runw	ay Width		
Runway Surface Type: Unknown		•				·								
Runway Surface Condition: Unknown	own													
Approach/Arrival Flown: NONE	Ē													
VFR Approach/Landing: None														
Aircraft Information														
Aircraft Manufacturer Cessna			Mode 195/		ries				Serial 7299	erial Number '299				
Airworthiness Certificate(s): Norm	al													
Landing Gear Type: Tailwheel														
Amateur Built Acft? No Number of Seats: 4				ed M	ax Gross Wt.		3350 LBS			Number of Engine		1		
			Engine Manufacturer: Model Jacobs R755					/Series: 5-A2			Rated 300	d Power: HP		
- Aircraft Inspection Information														
Type of Last Inspection Date				Date of Last Inspection			Time Since Last Inspection					Airframe Total Time		
Annual 06				06/2000			Hours					282 Hours		
- Emergency Locator Transmitter (ELT) Information													
ELT Installed?/Type Yes / ELT Operated? ELT Aided in Locating Accident Site?														
Owner/Operator Information														
Registered Aircraft Owner Street Address 53 West Ranch Trail														
James W. Rightmire			City Morrison							State CO		Zip Code 80465		
			Street	Addr										
Operator of Aircraft					53 West Ranch Trail City State									
James W. Rightmire				City Morrison						CO	- 1	Zip Code 80465		
Operator Does Business As: Operat						perator Desigi	nator Co	de:						
- Type of U.S. Certificate(s) Held:	Vone													
Air Carrier Operating Certificate(s)	:													
Operating Certificate: Operator Certificate:														
Regulation Flight Conducted Under: Part 91: General Aviation														
Type of Flight Operation Conducted	d: Personal													
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	AVIATI	Occurrence Type: Accident					1									
First Pilot Information																
Name City											State	D	ate of Birth	Age		
On File On						On Fil	ïle				On F	ile (On File	51		
Sex: M	n Pilot				Cert	tificate	Numbe	r: On File	•							
Certificate(s): Airline Transport; Flight Instructor; Commercial; Flight Engineer																
Airplane Rating(s): Multi-engine Land; Single-engine Land																
Rotorcraft/Glider/LTA: None																
Instrument	Rating(s): Airpl	ane														
Instructor Rating(s): Airplane Single-engine; Instrument Airplane																
Current Bie	nnial Flight Revie	ew?														
Medical Ce	rt.: Class 1	Medica	al Cert. Status	s: Valid Me	dicalw/ wa	aivers/li	im.		Dat	e of La	st Med	lical Exa	xam: 03/2000			
		'														
- Flight Tim	Flight Time Matrix All A/C This Make and Model			Airplane Single Engine	Airplane Mult-Engine	Nig	Night Actual		Instrument		Ro	torcraft	Glider	Lighter Than Air		
Total Time	Total Time 5800															
Pilot In Cor	Pilot In Command(PIC)															
Instructor											\perp					
Instruction	Received															
Last 90 Day	ys															
Last 30 Day	·								_		+					
Last 24 Ho						<u> </u>										
Seatbelt Us	sed?	Shou	ılder Harness	Used?			Toxico	logy Per	formed ²	Yes		Sec	ond Pilot? No)		
Flight Pla	n/Itinerary															
Type of Flig	ght Plan Filed: V	FR														
Departure F	Point						State Air		Airport Identifier		r	Departure Time		Time Zone		
Same as Accident/Incident Location							AS		ASE			1106		MDT		
Destination State Airport Identifier																
Watkins							CO FTG									
Type of Clearance: VFR																
Type of Airspace: Class G																
Weather Information																
Source of Wx Information:																
Unknown																
				FACTUAI	L REPORT	- AVIA	ATION	ſ						Page 3		

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AVIATION			Occ	Occurrence Type: Accident]					
Weather	Information		· ·											
WOF ID	Observation Time	Time Zone	WOF	Elevation		WOF D	WOF Distance From Accid				Direction From Accident Site			
ASE	1053	MDT	78	7815 Ft. MSL								250 Deg. Mag.		
Sky/Lowest Cloud Condition: Scattered							6000 Ft. AGL			Condition of Light: Day				
Lowest Ceiling: Broken				15000 Ft. AGL			ility:	10	SM Altimeter: 30.0			30.01	"Hg	
Temperatu	ıre: 23 °C	Dew Point:		4 °C W	/eath	ner Condi	tions at Ac	ccident S	Site: Visual (Conc	ditions			
Wind Direc	ction: 330	Wind Sp	eed: 6			Win	Wind Gusts:							_
Visibility (R	RVR): 0 Ft.	Visibility	(RVV)	0 S	М									_
Precip and	l/or Obscuration:													
Accident	Information													
Aircraft Damage: Destroyed Aircraft Fire: G					roui	nd			Aircraft Exp	losio	n None			
			•											
- Injury Su	mmary Matrix	Fatal	Serious	Minor		None	TOTAL							
First Pi	lot	1						1						
Second	d Pilot													
Studen	t Pilot													
Flight In	nstructor													
Check	Pilot							_						
Flight E	Engineer													
Cabin A	Attendants													
Other C	Crew													
Passen	ngers	3						3						
- TOTAL A	ABOARD -	4						4						
Other C	Ground	0	0	(0						
- GRAND	TOTAL -	4	0	(4						

National Transportation Safety Board

FACTUAL REPORT AVIATION

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Administrative	Ini	form:	ation
Administrative			auoi

Investigator-In-Charge (IIC)

Norman F. Wiemeyer

Additional Persons Participating in This Accident/Incident Investigation:

Randy Holder FAA FSDO Denver, CO

Henry J Soderlund Cessna Aircraft Company Wichita, KS