



National Transportation Safety Board Aviation Accident Factual Report

Location:	Owatonna, MN	Accident Number:	CHI03LA034
Date & Time:	10/01/2002, 1530 CDT	Registration:	N32039
Aircraft:	Waco UPF-7	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None

Flight Conducted Under: Part 91: General Aviation - Instructional

On October 1, 2002, at 1530 central daylight time, a Waco UPF-7, N32039, was substantially damaged during a go-around from a bounced landing on runway 30 at Owatonna Regional Airport (OWA), Owatonna, Minnesota. The airplane veered off the left side of the runway, impacted the runway's precision approach path indicator lights, and nosed over in a ditch. Visual meteorological conditions prevailed at the time of the accident. The 14 CFR Part 91 instructional flight was not operating on a flight plan. The certified flight instructor (CFI) and dual student were uninjured. The local flight originated from OWA at 1500.

The dual student stated that he was receiving tailwheel training from the CFI. He stated that there were four flights performed on the day of the accident, all of which were flown with the CFI occupying the front seat. The first flight was in a Champion 7ECA which was 0.7 hours in duration. During that flight, he successfully performed three three-point landings and three tail wheel landings at OWA. The second flight was in the accident airplane in which they performed slips, stalls, and slow flight, demonstrating airspeed control and the airplanes descent rate with no power during a 1.2 hour flight. The third flight was flown in the accident airplane at OWA where they demonstrated five three point landings and five wheel landing during a 1 hour flight. The fourth flight, which was the accident flight, was to serve as a transition to the paved runway at OWA. The dual student stated that he made two successful wheel landings on grass as practice for the paved runway. He then moved to the paved runway and made a successful wheel landing. A second landing resulted in a bounce and a go-around. The third landing attempt resulted in a bounce followed by an addition power to execute a go-around. At that point, the CFI took control. The airplane continued to the left, off the runway, through the grass, and struck a ditch, flipping the airplane over.

The Compleat Taildragger Pilot (1998) states under Selecting An Instructor, "It would be beneficial if his record included at least 20 hours in the specific model which you want your instructor in. Remember that the instructor has two primary functions. First, he is there to teach; secondly he must prevent any accident while you learn, and he can hardly accomplish this with only 10 or 15 hours of taildragger time. To be sure, time flown is not the only criterion for choosing an instructor, and you can certainly think of others. However, the minimums mentioned above are a good starting point. The publication also states under Visibility, "Taildraggers in general have a reputation for poor visibility... Most of the older bi-planes as

exemplified by the Stearman and Waco UPF-7 have little visibility straight ahead while in the three-point attitude, and the visibility to the sides is somewhat impaired by the presence of the wings and struts."

The accident airplane, serial number 5670, was owned by the CFI who had a total flight time of 15,500 hours, of which 2,000 hours were in single engine airplanes and 36 hours were in the accident make and model. The CFI reported a total flight time of 32 hours in the last 90 days and a total flight time of 17 hours as an instructor in the accident make and model. Three hours in the accident make and model were accumulated in the last 24 hours.

The dual student pilot had a tail wheel endorsement prior to receiving instruction in the accident airplane. He reported a total flight time of 2,205 hours in single engine airplane of which 2.7 hours were in the accident make and model.

The OWA weather, at 2120, recorded wind from 360 degrees at 14 knots gusting to 18 knots.

Pilot Information

Certificate:	Airline Transport; Flight Instructor; Commercial; Flight Engineer	Age:	47, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land; Single-engine Sea	Seat Occupied:	Front
Other Aircraft Rating(s):	Balloon; Glider	Restraint Used:	Seatbelt
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	10/18/2002
Occupational Pilot:		Last Flight Review or Equivalent:	08/25/2002
Flight Time:	15500 hours (Total, all aircraft), 36 hours (Total, this make and model), 13800 hours (Pilot In Command, all aircraft), 150 hours (Last 90 days, all aircraft), 60 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Pilot Information

Certificate:	Airline Transport; Flight Instructor; Commercial	Age:	58, Male
Airplane Rating(s):	Single-engine Land; Single-engine Sea	Seat Occupied:	Rear
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	01/30/2002
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	2423 hours (Total, all aircraft), 3 hours (Total, this make and model), 2356 hours (Pilot In Command, all aircraft), 20 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Waco	Registration:	N32039
Model/Series:	UPF-7	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	5670
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	06/25/2002, Annual	Certified Max Gross Wt.:	2650 lbs
Time Since Last Inspection:	10 Hours	Engines:	1 Reciprocating
Airframe Total Time:	1488.11 Hours	Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	W670-6N
Registered Owner:	David A. Schroeder	Rated Power:	220 hp
Operator:	David A. Schroeder	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	OWA, 1146 ft msl	Distance from Accident Site:	
Observation Time:	2120 CDT	Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 Miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	14 knots / 18 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	360°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.92 inches Hg	Temperature/Dew Point:	22° C / 13° C
Precipitation and Obscuration:			
Departure Point:	Owatonna, MN (OWA)	Type of Flight Plan Filed:	None
Destination:	(OWA)	Type of Clearance:	None
Departure Time:	1500 CDT	Type of Airspace:	Class G

Airport Information

Airport:	OWATONNA MUNI (OWA)	Runway Surface Type:	Concrete
Airport Elevation:	1145 ft	Runway Surface Condition:	Dry
Runway Used:	30	IFR Approach:	None
Runway Length/Width:	5500 ft / 100 ft	VFR Approach/Landing:	Go Around

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	44.123333, -93.260556

Administrative Information

Investigator In Charge (IIC):	Mitchell F Gallo
Additional Participating Persons:	OT Frampton; Federal Aviation Administration; Minneapolis, MN
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .