



National Transportation Safety Board Aviation Accident Final Report

Location:	BROOKEVILLE, MD	Accident Number:	NYC92FA093B
Date & Time:	06/01/1992, 1147 EDT	Registration:	N4445R
Aircraft:	CESSNA R182	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Serious, 3 None
Flight Conducted Under:	Part 135: Air Taxi & Commuter - Non-scheduled		

Analysis

CESSNA 172, N738YV, & CESSNA R182, N4445R, WERE BEING OPERED BY CONGRESSIONAL AIR AT MONTGOMERY COUNTY AIRPARK. THE 172 WAS RTRNG TO THE ARPT AT AN ALT OF 2500 FT DRG A DUAL TRNG FLT. THE R182 HAD DEPD FROM BALTIMORE & WAS ALSO INBOUND TO THE ARPT, BUT AT 1500 FT. THE CFI IN THE 172 ADZD THE R182 PLTS THAT HE WOULD CIRCLE A LANDFILL NEAR THE ARPT, THEN FOLLOW THE R182 TO THE ARPT. THE R182 PLT RPRTD HE SAW THE 172 PASSING IN FRONT OF HIS ACFT IN THE OPPOSITE DRCTN (AT A DSTC OF ABT 1/2 TO 3/4 MI); 'AFTER A MINUTE' HE LOOKED OUT THE RGT WINDOW & SAW THE 172 CONVERGING IN A DSCNDG RGT TURN. HE TRIED TO AVOID A COLLISION, BUT WAS UNABLE. THE 172 WENT INTO AN UNCTLD DSCNT & CRASHED; THE R182 PLT MADE A FORCED LNDG IN A WHEAT FLD. AN EXAM OF THE 172 REVEALED THAT ABT 3-1/2 FT OF THE LEFT OUTBOARD WING SECTION WAS MISSING. THIS SECTION WAS FOUND EMBEDDED IN THE RGT SIDE OF THE R182'S FUSELAGE, JUST BEHIND THE ENG.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: IMPROPER INFLIGHT PLANNING/DECISION BY THE FLIGHT INSTRUCTOR (PIC/CFI) IN THE CESSNA 172, HIS MISJUDGEMENT OF DISTANCE BETWEEN THE TWO AIRPLANES, AND INADEQUATE VISUAL LOOKOUT BY BOTH PILOTS IN THE CESSNA 172.

Findings

Occurrence #1: MIDAIR COLLISION

Phase of Operation: CRUISE - NORMAL

Findings

1. (C) IN-FLIGHT PLANNING/DECISION - IMPROPER - PILOT OF OTHER AIRCRAFT
2. (C) DISTANCE - MISJUDGED - PILOT OF OTHER AIRCRAFT
3. (C) VISUAL LOOKOUT - INADEQUATE - PILOT OF OTHER AIRCRAFT

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING

Findings

4. WHEELS UP LANDING

Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor	Age:	34, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Single-engine; Instrument Airplane	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	04/01/1992
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1430 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N4445R
Model/Series:	R182 R182	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal; Utility	Serial Number:	00600
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	03/06/1992, 100 Hour	Certified Max Gross Wt.:	3200 lbs
Time Since Last Inspection:	69 Hours	Engines:	1 Reciprocating
Airframe Total Time:	3011 Hours	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	O-540-J3C5D
Registered Owner:	N4445R INC.	Rated Power:	235 hp
Operator:	CONGRESSIONAL AIR	Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	BWI, 146 ft msl	Distance from Accident Site:	25 Nautical Miles
Observation Time:	1153 EDT	Direction from Accident Site:	90°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	15 Miles
Lowest Ceiling:	Overcast / 4800 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	11 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	310°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	20° C / 12° C
Precipitation and Obscuration:			
Departure Point:	BALTIMORE, MD (BWI)	Type of Flight Plan Filed:	None
Destination:	GAITHERSBURG, MD (GAI)	Type of Clearance:	None
Departure Time:	1130 EDT	Type of Airspace:	Class E

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	GREGORY A FEITH	Report Date:	05/28/1993
Additional Participating Persons:	LEO KUNEMAN; BALTIMORE, MD ANDREW HALL; WICHITA, KS		
Publish Date:			
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/ .		

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