



Aviation Investigation Final Report

Location:	NEW RICHMOND, Wisconsin	Accident Number:	CHI90LA116
Date & Time:	April 22, 1990, 12:30 Local	Registration:	N17577
Aircraft:	Beech E 55	Aircraft Damage:	Substantial
Defining Event:		Injuries:	5 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

THE PILOT STATED THAT HE HAD EXTENDED THE LANDING GEAR AND FLAPS DURING THE DOWNWIND LEG OF THE TRAFFIC PATTERN; HIS PASSENGER AND A GROUND WITNESS CONFIRMED THAT THE GEAR WAS EXTENDED DURING THE FINAL APPROACH AND TOUCHDOWN PHASE OF FLIGHT. THE PILOT REPORTED THAT HE VISUALLY VERIFIED THAT THE GEAR WAS DOWN AND LOCKED PRIOR TO TOUCHDOWN, BUT SHORTLY AFTER TOUCHDOWN THE LEFT WING STARTED LOWERING AS THE LEFT MAIN AND NOSE GEAR COLLAPSED. POST-ACCIDENT EXAMINATION OF THE LANDING GEAR SYSTEM REVEALED NO EVIDENCE OF PRE-IMPACT MALFUNCTION; THE FAA INSPECTOR REPORTED THAT THE 'ENTIRE LANDING GEAR SYSTEM WAS IN A TRANSIT MODE....DURING THE LANDING ROLL....' THE PILOT STATED THAT HE MIGHT HAVE INADVERTENTLY RETRACTED THE LANDING GEAR, BUT HE DID NOT REMEMBER.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: PILOT'S IMPROPER USE OF THE LANDING GEAR MECHANISM DURING THE LANDING ROLL, WHICH RESULTED IN THE PARTIAL COLLAPSE OF THE LANDING GEAR.

Findings

Occurrence #1: GEAR COLLAPSED
Phase of Operation: LANDING - ROLL

Findings

1. (F) PROCEDURES/DIRECTIVES - IMPROPER - PILOT IN COMMAND
 2. (F) INATTENTIVE - PILOT IN COMMAND
 3. (C) LANDING GEAR - IMPROPER USE OF - PILOT IN COMMAND
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Occurrence #2: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER
Phase of Operation: LANDING - ROLL

Findings

4. (F) TERRAIN CONDITION - RUNWAY

Factual Information

Pilot Information

Certificate:	Commercial	Age:	53, Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim	Last FAA Medical Exam:	September 5, 1989
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	2746 hours (Total, all aircraft), 173 hours (Total, this make and model), 2557 hours (Pilot In Command, all aircraft), 182 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Beech	Registration:	N17577
Model/Series:	E 55 E 55	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	TE-1091
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	September 8, 1989 Annual	Certified Max Gross Wt.:	5300 lbs
Time Since Last Inspection:	28 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	1837 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:		Engine Model/Series:	IO-520
Registered Owner:	DRURY, COLIN J.	Rated Power:	285 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	MSP ,841 ft msl	Distance from Accident Site:	33 Nautical Miles
Observation Time:	10:50 Local	Direction from Accident Site:	240°
Lowest Cloud Condition:	25000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	12 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	22°C / 12°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	11:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	NEW RICHMOND MUNICIPAL RNH	Runway Surface Type:	Asphalt
Airport Elevation:	996 ft msl	Runway Surface Condition:	Dry
Runway Used:	13	IFR Approach:	None
Runway Length/Width:	3000 ft / 75 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	4 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	5 None	Latitude, Longitude:	45.119377,-92.529678(est)

Administrative Information

Investigator In Charge (IIC):	Reeves, Jodi
Additional Participating Persons:	J VERGENZ; MINNEAPOLIS , MN
Original Publish Date:	September 15, 1992
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=14659

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