



# Aviation Investigation Final Report

<b>Location:</b>	MOORE HAVEN, Florida	<b>Accident Number:</b>	MIA94LA029
<b>Date &amp; Time:</b>	November 26, 1993, 09:45 Local	<b>Registration:</b>	N130HA
<b>Aircraft:</b>	HILLER UH-12E	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	1 Minor
<b>Flight Conducted Under:</b>	Part 137: Agricultural		

## Analysis

THE PILOT STATED THAT WHILE FLYING AT AN ALTITUDE OF 5 FEET AGL, SPRAYING CROPS, THE ENGINE SPUTTERED AND QUIT. THE AIRCRAFT PITCHED UP AND THEN DESCENDED INTO THE GROUND. POSTACCIDENT EXAMINATION OF THE ENGINE INDICATED THE ENGINE ROTATED NORMALLY AND EACH MAGNETO PRODUCED NORMAL SPARK. ALL FUEL LINES AND SCREENS WERE FREE OF DEBRIS. FIVE GALLONS OF UNCONTAMINATED FUEL WAS DRAINED FROM THE AIRCRAFT AND ENGINE FUEL SYSTEM. CONTINUITY OF ALL FLIGHT CONTROL AND ENGINE CONTROLS WERE CONFIRMED.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FAILURE OF THE PILOT-IN-COMMAND TO MAINTAIN AIRCRAFT CONTROL FOLLOWING LOSS OF ENGINE POWER FOR UNDETERMINED REASONS.

### Findings

Occurrence #1: LOSS OF ENGINE POWER  
Phase of Operation: MANEUVERING - AERIAL APPLICATION

#### Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

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Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: DESCENT - EMERGENCY

Findings

2. (C) AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND

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Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

3. TERRAIN CONDITION - CROP

## Factual Information

On November 26, 1993, about 0945 eastern standard time, a Hiller UH-12E, N130HA, registered to Taylor Helicopter, Inc., crashed near Moore Haven, Florida, while on a 14 CFR Part 137, aerial application flight. Visual meteorological conditions prevailed at the time and no flight plan was filed. The aircraft received substantial damage and the commercial-rated pilot received minor injuries. The flight originated from a road near Moore Haven, Florida, on November 26, 1993, at 0940.

The pilot stated he was flying east at 5 feet agl and at 50 knots, spraying a field. The engine sputtered and quit and the aircraft pitched up and then fell to the ground. He stated the aircraft contained 10 gallons of fuel at the time of engine failure.

Postaccident examination of the aircraft by an FAA inspector indicated there was continuity of all engine and flight control systems. The aircraft's fuel tank contained 5 gallons of uncontaminated fuel. All fuel screens and lines were free of contamination and obstructions. The engine was motored using the starter and the engine assembly had continuity. Each ignition lead sparked normally during engine motoring.

### Pilot Information

<b>Certificate:</b>	Commercial	<b>Age:</b>	53, Male
<b>Airplane Rating(s):</b>	Single-engine land; Multi-engine land	<b>Seat Occupied:</b>	Center
<b>Other Aircraft Rating(s):</b>	Helicopter	<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 2 Valid Medical--w/ waivers/lim	<b>Last FAA Medical Exam:</b>	December 7, 1992
<b>Occupational Pilot:</b>	Yes	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	12000 hours (Total, all aircraft), 2500 hours (Total, this make and model), 35 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	HILLER	<b>Registration:</b>	N130HA
<b>Model/Series:</b>	UH-12E UH-12E	<b>Aircraft Category:</b>	Helicopter
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Restricted (Special)	<b>Serial Number:</b>	HA3030
<b>Landing Gear Type:</b>	Skid	<b>Seats:</b>	2
<b>Date/Type of Last Inspection:</b>	August 14, 1993 Annual	<b>Certified Max Gross Wt.:</b>	2800 lbs
<b>Time Since Last Inspection:</b>	10 Hrs	<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>	2793 Hrs	<b>Engine Manufacturer:</b>	LYCOMING
<b>ELT:</b>		<b>Engine Model/Series:</b>	VO-540-C2A
<b>Registered Owner:</b>	TAYLOR HELICOPTER INC.	<b>Rated Power:</b>	305 Horsepower
<b>Operator:</b>		<b>Operating Certificate(s) Held:</b>	
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	NJRG

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	FMY ,18 ft msl	<b>Distance from Accident Site:</b>	46 Nautical Miles
<b>Observation Time:</b>	09:47 Local	<b>Direction from Accident Site:</b>	250°
<b>Lowest Cloud Condition:</b>	Unknown / 600 ft AGL	<b>Visibility</b>	5 miles
<b>Lowest Ceiling:</b>	Overcast / 600 ft AGL	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	10 knots /	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	40°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	24°C / 22°C
<b>Precipitation and Obscuration:</b>	N/A - None - Haze		
<b>Departure Point:</b>		<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	None
<b>Departure Time:</b>	09:40 Local	<b>Type of Airspace:</b>	Class G

## Airport Information

<b>Airport:</b>		<b>Runway Surface Type:</b>	
<b>Airport Elevation:</b>		<b>Runway Surface Condition:</b>	
<b>Runway Used:</b>	0	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>		<b>VFR Approach/Landing:</b>	Forced landing

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 Minor	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>		<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	1 Minor	<b>Latitude, Longitude:</b>	26.830642,-81.089942(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Kennedy, Jeffrey
<b>Additional Participating Persons:</b>	LINDA J HOWELL; FT. LAUDERDALE , FL
<b>Original Publish Date:</b>	September 13, 1994
<b>Last Revision Date:</b>	
<b>Investigation Class:</b>	<a href="#">Class</a>
<b>Note:</b>	
<b>Investigation Docket:</b>	<a href="https://data.ntsb.gov/Docket?ProjectID=37465">https://data.ntsb.gov/Docket?ProjectID=37465</a>

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