



# National Transportation Safety Board Aviation Accident Data Summary

<b>Location:</b>	TUCSON, AZ	<b>Accident Number:</b>	LAX94LA001
<b>Date &amp; Time:</b>	10/01/1993, 1220 MST	<b>Registration:</b>	N5151A
<b>Aircraft:</b>	CESSNA O-2A	<b>Injuries:</b>	1 None
<b>Flight Conducted Under:</b>	Part 91: General Aviation - Ferry		

## Analysis

The front and then rear engines lost partial power during initial climb from the Ryan Field near Tucson, Arizona. Unable to continue climbing, the pilot made a forced landing in rough terrain about two miles east of the airport. An examination of the airplane's fuel system revealed two of the front engine's six fuel injectors were partially clogged with a foreign substance. No clogging of the rear injectors was found. Prior to the accident (ferry) flight, the airplane had been idle for several years. In preparation for the flight, recent maintenance which included limited purging of the fuel system had reportedly been accomplished by contractor maintenance personnel.

## Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: was the partial loss of engine power during initial climb due to partial clogging of the engine's fuel injectors. Blockage of the fuel injectors was due to inadequate maintenance of the fuel system by contract maintenance personnel.

## Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - NONMECHANICAL  
Phase of Operation: TAKEOFF - INITIAL CLIMB

### Findings

1. (C) FUEL SYSTEM,INJECTOR - BLOCKED(PARTIAL)
  2. (C) MAINTENANCE - INADEQUATE - OTHER MAINTENANCE PERSONNEL
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Occurrence #2: FORCED LANDING  
Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER  
Phase of Operation: LANDING - FLARE/TOUCHDOWN

### Findings

3. TERRAIN CONDITION - ROUGH/UNEVEN

## Pilot Information

Certificate:	Commercial	Age:	39
Airplane Rating(s):	Multi-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	5000 hours (Total, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N5151A
Model/Series:	O-2A O-2A	Engines:	2 Reciprocating
Operator:	NAT. MUSEUM OF NAVAL AVIATION	Engine Manufacturer:	CONTINENTAL
Operating Certificate(s) Held:	None	Engine Model/Series:	IO-360
Flight Conducted Under:	Part 91: General Aviation - Ferry		

## Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Weather Information Source:	Pilot
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	/ ,
Temperature:	33° C	Visibility	50 Miles
Precipitation and Obscuration:			
Departure Point:	(RYN)	Destination:	NOT REPORTED

## Airport Information

Airport:	RYAN FIELD (RYN)	Runway Surface Type:	Asphalt
Runway Used:	6R	Runway Surface Condition:	Dry; Rough
Runway Length/Width:	5500 ft / 75 ft		

## Wreckage and Impact Information

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

## Administrative Information

Investigator In Charge (IIC): WAYNE POLLACK, Adopted Date: 09/13/1994

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](mailto: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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