



# Aviation Investigation Final Report

<b>Location:</b>	SANTA ANA, California	<b>Accident Number:</b>	LAX93LA137
<b>Date &amp; Time:</b>	February 24, 1993, 13:43 Local	<b>Registration:</b>	N43Y
<b>Aircraft:</b>	BEECH                      A36	<b>Aircraft Damage:</b>	Substantial
<b>Defining Event:</b>		<b>Injuries:</b>	6 None
<b>Flight Conducted Under:</b>	Part 91: General aviation - Personal		

## Analysis

THE PILOT SAID HE MONITORED THE ATIS WHILE INBOUND TO RUNWAY 19R AND THAT THE REPORTED WINDS WERE FROM 230 DEGREES AT 12 KNOTS. WHILE ON DOWNWIND THE PILOT SAID HE OBSERVED A TWIN ENGINE AIRCRAFT LAND, 'NOTING THE CRAB ANGLE FOR CROSS WIND EFFECTS.' THE PILOT STATED THAT HE DID NOT HEAR THE LOCAL CONTROLLER PROVIDE 'GUST ADVISORIES' WHILE HE WAS IN THE TRAFFIC PATTERN. THE PILOT SAID THAT ABOUT 50 FEET ABOVE THE RUNWAY 'WE ENCOUNTERED A STRONG DOWNDRAFT THAT BROUGHT US TO (THE) RUNWAY AND BACK UP TO ABOUT 40 FEET AGL.' THE PILOT REPORTED THAT HE ATTEMPTED TO GO AROUND BUT THAT THE AIRCRAFT CONTACTED THE GROUND NEAR THE RUNWAY EDGE AND THEN LEFT THE PAVEMENT AND RAN INTO THE GRASS AREA BETWEEN THE RUNWAYS. THE AIRCRAFT COLLIDED WITH SEVERAL RUNWAY SIGNS AND SHEARED OFF THE LANDING GEAR. TRANSCRIPTS OF RECORDED AIR TO GROUND RADIO COMMUNICATIONS REVEALED THAT THE AIRCRAFT WAS SEQUENCED BEHIND ANOTHER AIRCRAFT AND CLEARED TO LAND AT 1340:37. AT 1341:39, THE CONTROLLER IN RESPONSE TO A REQUEST BY ANOTHER AIRCRAFT FOR THE CURRENT WINDS BROADCAST 'WIND TWO FOUR ZERO AT ONE TWO.' THE OFFICIAL WEATHER OBSERVATION TAKEN IMMEDIATELY AFTER THE ACCIDENT REPORTED THE WINDS FROM 270 DEGREES AT 10 KNOTS WITH GUSTS TO 15 KNOTS.

## Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE PILOT'S INADEQUATE COMPENSATION FOR THE EXISTING WIND CONDITIONS AND HIS FAILURE TO MAINTAIN AN ADEQUATE APPROACH REFERENCE AIRSPEED. FACTORS IN THE ACCIDENT WERE THE PILOT'S LOW EXPERIENCE IN THE AIRCRAFT.

## Findings

Occurrence #1: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

### Findings

1. WEATHER CONDITION - CROSSWIND
2. WEATHER CONDITION - GUSTS
3. (C) COMPENSATION FOR WIND CONDITIONS - INADEQUATE - PILOT IN COMMAND
4. (F) LACK OF TOTAL EXPERIENCE IN TYPE OF AIRCRAFT - PILOT IN COMMAND
5. (C) AIRSPEED(VREF) - INADEQUATE - PILOT IN COMMAND

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Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

### Findings

6. (C) RECOVERY FROM BOUNCED LANDING - INADEQUATE - PILOT IN COMMAND
7. (C) DIRECTIONAL CONTROL - NOT MAINTAINED - PILOT IN COMMAND

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Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: LANDING - ROLL

### Findings

8. OBJECT - RUNWAY LIGHT
9. OBJECT - SIGN

## Factual Information

### Pilot Information

<b>Certificate:</b>	Private	<b>Age:</b>	35, Male
<b>Airplane Rating(s):</b>	Single-engine land	<b>Seat Occupied:</b>	Left
<b>Other Aircraft Rating(s):</b>	None	<b>Restraint Used:</b>	
<b>Instrument Rating(s):</b>	Airplane	<b>Second Pilot Present:</b>	No
<b>Instructor Rating(s):</b>	None	<b>Toxicology Performed:</b>	No
<b>Medical Certification:</b>	Class 3 Valid Medical--no waivers/lim.	<b>Last FAA Medical Exam:</b>	April 2, 1991
<b>Occupational Pilot:</b>	UNK	<b>Last Flight Review or Equivalent:</b>	
<b>Flight Time:</b>	281 hours (Total, all aircraft), 11 hours (Total, this make and model), 281 hours (Pilot In Command, all aircraft), 16 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

<b>Aircraft Make:</b>	BEECH	<b>Registration:</b>	N43Y
<b>Model/Series:</b>	A36 A36	<b>Aircraft Category:</b>	Airplane
<b>Year of Manufacture:</b>		<b>Amateur Built:</b>	
<b>Airworthiness Certificate:</b>	Normal	<b>Serial Number:</b>	E-576
<b>Landing Gear Type:</b>	Retractable - Tricycle	<b>Seats:</b>	6
<b>Date/Type of Last Inspection:</b>	January 2, 2000 Unknown	<b>Certified Max Gross Wt.:</b>	3600 lbs
<b>Time Since Last Inspection:</b>		<b>Engines:</b>	1 Reciprocating
<b>Airframe Total Time:</b>		<b>Engine Manufacturer:</b>	CONTINENTAL
<b>ELT:</b>	Installed, activated, did not aid in locating accident	<b>Engine Model/Series:</b>	IO-520
<b>Registered Owner:</b>	THOMAS D. EVANS	<b>Rated Power:</b>	285 Horsepower
<b>Operator:</b>	JAMES C. BUNNELL	<b>Operating Certificate(s) Held:</b>	None
<b>Operator Does Business As:</b>		<b>Operator Designator Code:</b>	

## Meteorological Information and Flight Plan

<b>Conditions at Accident Site:</b>	Visual (VMC)	<b>Condition of Light:</b>	Day
<b>Observation Facility, Elevation:</b>	SNA ,54 ft msl	<b>Distance from Accident Site:</b>	1 Nautical Miles
<b>Observation Time:</b>	13:46 Local	<b>Direction from Accident Site:</b>	1°
<b>Lowest Cloud Condition:</b>	Scattered / 5000 ft AGL	<b>Visibility</b>	25 miles
<b>Lowest Ceiling:</b>	None	<b>Visibility (RVR):</b>	
<b>Wind Speed/Gusts:</b>	10 knots / 15 knots	<b>Turbulence Type Forecast/Actual:</b>	/
<b>Wind Direction:</b>	270°	<b>Turbulence Severity Forecast/Actual:</b>	/
<b>Altimeter Setting:</b>	29 inches Hg	<b>Temperature/Dew Point:</b>	16°C / 4°C
<b>Precipitation and Obscuration:</b>	No Obscuration; No Precipitation		
<b>Departure Point:</b>	AVALON , CA (AVX )	<b>Type of Flight Plan Filed:</b>	None
<b>Destination:</b>		<b>Type of Clearance:</b>	VFR
<b>Departure Time:</b>	13:20 Local	<b>Type of Airspace:</b>	Class D;Class E

## Airport Information

<b>Airport:</b>	JOHN WAYNE ORANGE COUNTY SNA	<b>Runway Surface Type:</b>	Asphalt
<b>Airport Elevation:</b>	54 ft msl	<b>Runway Surface Condition:</b>	Dry
<b>Runway Used:</b>	19	<b>IFR Approach:</b>	None
<b>Runway Length/Width:</b>	5700 ft / 150 ft	<b>VFR Approach/Landing:</b>	Full stop

## Wreckage and Impact Information

<b>Crew Injuries:</b>	1 None	<b>Aircraft Damage:</b>	Substantial
<b>Passenger Injuries:</b>	5 None	<b>Aircraft Fire:</b>	None
<b>Ground Injuries:</b>	N/A	<b>Aircraft Explosion:</b>	None
<b>Total Injuries:</b>	6 None	<b>Latitude, Longitude:</b>	33.6706,-117.899414(est)

## Administrative Information

<b>Investigator In Charge (IIC):</b>	Rich, Jeff
<b>Additional Participating Persons:</b>	DON GORDON; LONG BEACH , CA
<b>Original Publish Date:</b>	November 15, 1993
<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=27938">https://data.ntsb.gov/Docket?ProjectID=27938</a>

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