Aviation Safety Investigation Report 198800129

Cessna C188

27 July 1988

Readers are advised that the Australian Transport Safety Bureau investigates for the sole purpose of enhancing transport safety. Consequently, Bureau reports are confined to matters of safety significance and may be misleading if used for any other purposes.

Investigations commenced on or before 30 June 2003, including the publication of reports as a result of those investigations, are authorised by the CEO of the Bureau in accordance with Part 2A of the Air Navigation Act 1920.

Investigations commenced after 1 July 2003, including the publication of reports as a result of those investigations, are authorised by the CEO of the Bureau in accordance with the Transport Safety Investigation Act 2003 (TSI Act). Reports released under the TSI Act are not admissible as evidence in any civil or criminal proceedings.

NOTE: All air safety occurrences reported to the ATSB are categorised and recorded. For a detailed explanation on Category definitions please refer to the ATSB website at <u>www.atsb.gov.au</u>.

Occurrence Number: Location: Date: Highest Injury Level: Injuries:		20 km South of Wongan Hills WA 27 July 1988			Occurrence Type: Accident Time: 1630	
		Crew Ground	Fatal 0 0	Serious 0 0	Minor 1 0	None 1 -
		Passenger Total	0 0	0 0	0 0	0 1
Aircraft Details: Registration: Serial Number: Operation Type: Damage Level: Departure Point: Departure Time: Destination:	VH-RY 188013 Aerial W Substan 20 km S Hills W N/A	O 53 Work ttial South of Wo A South of Wo	-			

Approved for Release: 13 February 1989

Circumstances:

The pilot had completed a number of take-offs and landings from the one-way agricultural strip prior to the final flight. On each of the previous flights the pilot had turned right after take-off, climbed out and and carried out spreading operations over ground that fell away from the strip. On the final flight the pilot was to carry out spreading on a paddock to the left and uphill from the strip. The pilot inspected the rising ground and assessed that the aircraft's performance was sufficient to outclimb the rising ground with safety. The final take-off was normal until the pilot had reduced power, raised the flaps and commenced a slight left hand turn. At that point the pilot observed that the aircraft appeared to lose height, relative to the ground, and he considered dumping the load and landing the aircraft on the up slope. He rejected both of these options as he considered that obstructions caused by a fence and a powerline would make the situation worse. Before the pilot could take any further action the aircraft's mainwheels touched down, the aircraft bounced back into the air, collided with the fence and came to a stop in a recently ploughed and planted paddock, just short of the powerline. At the time of take-off, wind conditions may have created slight downdrafts. The gradient of the rising ground was about 7 percent. With optimum conditions (airspeed control, engine performance, etc.), at the prevailing density altitude and aircraft weight, the aircraft flew into the ground and fence.

Significant Factors:

The following factors were considered relevant to the development of the accident

- 1. The pilot misjudged the aircraft's take-off performance in relation to the terrain under the intended track.
- 2. The pilot selected an unsuitable climb out path.
- 3. The pilot was unable to avoid the fence.