



The National Transportation Safety Board

Office of Aviation Safety
Central Region
Memorandum for the Record
Cessna Performance
Information
CEN16LA288
Baldwin, Wisconsin
July 21, 2016

According to Cessna, the applicable 208B Pilot Operating Handbook (POH) tables do not provide for landing on WET grass runways. However, for landing on DRY grass runways, 40% distance is added to the normal landing roll distance chart figures. The applicable POH chart is attached to this memorandum.

On NTSB Form 6120, the pilot reported an aircraft weight 8,010 pounds at the time of the accident.

The nearest weather reporting station to the accident site was located about 16 miles to the north.
METAR KRNH 211855Z AUTO 28005KT 10SM CLR 30/22 2995 RMK A02.

According to the POH chart, with an estimated airplane weight of 8,010 pounds, and temperature of 30 degrees C, the minimum landing distance would have been about 2,265 feet. The published runway length at the Baldwin Airport was 1,950 feet.

Alexander Lemishko



Senior Air Safety Investigator
NTSB
Central Region Aviation

**WITHOUT CARGO POD
LANDING DISTANCE
MAXIMUM WEIGHT 8500 LBS, 8000 LBS
SHORT FIELD**

CONDITIONS:

- FLAPS 30°
- POWER LEVER IDLE AFTER CLEARING OBSTACLES, BETA RANGE (LEVER AGAINST SPRING) AFTER TOUCHDOWN.
- PROPELLER CONTROL LEVER - MAX
- MAXIMUM BRAKING
- PAVED, LEVEL, DRY RUNWAY
- ZERO WIND

NOTES:

1. USE SHORT FIELD TECHNIQUES AS SPECIFIED IN SECTION 4.
2. DECREASE DISTANCES 10% FOR EACH 11 KNOTS HEADWIND. FOR OPERATION WITH TAILWINDS UP TO 10 KNOTS, INCREASE DISTANCES BY 10% FOR EACH 2 KNOTS.
3. FOR OPERATION ON A DRY, GRASS RUNWAY, INCREASE DISTANCES BY 40% OF THE "GROUND ROLL" FIGURE.
4. IF A LANDING WITH FLAPS UP IS NECESSARY, INCREASE THE APPROACH SPEED BY 15 KIAS AND ALLOW FOR 40% LONGER DISTANCES.
5. USE OF MAXIMUM REVERSE THRUST AFTER TOUCHDOWN REDUCES GROUND ROLL BY APPROXIMATELY 10%.
6. WHERE DISTANCE VALUES HAVE BEEN REPLACED BY DASHES, OPERATING TEMPERATURE LIMITS OF THE AIRPLANE WOULD BE GREATLY EXCEEDED. THOSE DISTANCES WHICH ARE INCLUDED BUT THE OPERATION SLIGHTLY EXCEEDS THE TEMPERATURE LIMIT ARE PROVIDED FOR INTERPOLATION PURPOSES ONLY.

8500 Pounds:

SPEED AT 50 FT KIAS	PRESS ALT FT	-10°C		0°C		10°C		20°C		30°C		40°C	
		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
78	SL	870	1675	900	1725	935	1770	965	1820	1000	1865	1030	1910
	2000	935	1770	975	1820	1005	1870	1040	1920	1075	1970	1110	2020
	4000	1005	1870	1040	1925	1080	1980	1120	2035	1155	2085	1195	2140
	6000	1080	1980	1125	2040	1165	2095	1205	2150	1245	2210	1290	2265
	8000	1165	2100	1210	2160	1255	2220	1300	2280	1345	2345	1390	2405
	10000	1260	2230	1310	2295	1355	2360	1405	2425	1450	2490	---	---
	12000	1360	2365	1415	2435	1465	2505	1515	2575	1570	2645	---	---

8000 Pounds: WITHOUT CARGO POD

SPEED AT 50 FT KIAS	PRESS ALT FT	-10°C		0°C		10°C		20°C		30°C		40°C	
		GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS	GRD ROLL FT	TOTAL FEET TO CLEAR 50 FT OBS
75	SL	815	1605	845	1650	880	1695	910	1740	940	1785	970	1830
	2000	880	1695	910	1740	945	1790	980	1835	1010	1885	1045	1930
	4000	945	1790	980	1840	1015	1890	1050	1945	1090	1995	1125	2045
	6000	1020	1895	1055	1950	1095	2000	1135	2055	1175	2110	1210	2165
	8000	1100	2005	1140	2065	1180	2120	1225	2180	1265	2235	1305	2295
	10000	1185	2130	1230	2190	1275	2250	1320	2315	1365	2375	---	---
	12000	1280	2260	1330	2325	1380	2395	1430	2460	1475	2525	---	---

Figure 5-38. Landing Distance (Sheet 1 of 2)