



Memorandum for Record

Fabian Salazar
Air Safety Investigator
National Transportation Safety Board
Investigator in Charge

NTSB Accident Number: WPR21FA258
Aircraft Registration & Make/Model: N2388L / Cessna 172R
Accident Location: Missoula, Montana
Accident Date: July 1, 2021

In an email, dated July 3, 2021, the party member from Textron Aircraft provided the coordinates for the accident site as N46.8402, W117.2858, with a GPS elevation of 4,664 feet mean sea level.

He provided an excel spreadsheet for weight and balance information based upon the weight and balance sheet he found at the accident site. Based on the estimated occupant weights reported by the search and rescue personnel, the party member determined the airplane was probably over gross weight.

Aircraft: 1682 pounds
Fuel: 336 pounds
Pilot: 250 pounds
Passenger: 150 pounds
Luggage: 100 pounds
Gross weight: 2518 pounds
Maximum gross weight: 2450 pounds

The party member provided the maximum rate of climb chart and noted that the chart states to lean above 3000 feet for maximum RPM.

MAXIMUM RATE-OF-CLIMB AT 2450 POUNDS

CONDITIONS:

Flaps Up
Full Throttle

PRESS ALT FT	CLIMB SPEED KIAS	RATE OF CLIMB - FPM			
		-20°C	0°C	20°C	40°C
S.L.	79	830	770	705	640
2000	77	720	655	595	535
4000	76	645	585	525	465
6000	74	530	475	415	360
8000	72	420	365	310	250
10,000	71	310	255	200	145
12,000	69	200	145	---	---

NOTE:

1. Mixture leaned above 3000 feet for maximum RPM.

Figure 5-6. Maximum Rate of Climb