

Weight and Balance Information

NTSB Investigation: ERA19FA240

N4082S | Hatboro, Pennsylvania

August 8, 2019

Beechcraft F33A
N4082S
Hatboro, PA; 8-08-19

Max Gross Wt 3612
Useful Load = 1235

Loaded Aircraft			
	lbs	Arm	mom/100
Empty Weight	2350	xxx	1877.0
Fuel	330	xxx	248.0
Seat # 1	165	85	140.3
Seat # 2	150	85	127.5
Seat # 3	118	125	147.5
Seat # 4	29	125	36.3
Seat # 5	0		0.0
Seat # 6	0		0.0
Seat #7	0		0.0
Tip Tank Fuel	20	89.1	17.8
Aft bag	116.5	140	163.1
Bag area A			0.0
Bag area b	0		0.0
Bag area C	0		0.0
Bag area D	0		0.0
Aft Baggage	0		0.0
Total Wt.	3279	84.11	2757.4

PLOT DATA					
Envelope		Actual Data			
mom/100	wt				
2156	2800	2757.4	3278.5	a	Loaded a/c
2965.4	3612	2509.4	2948.5	b	empty fuel
3131.6	3612				
2427.6	2800				

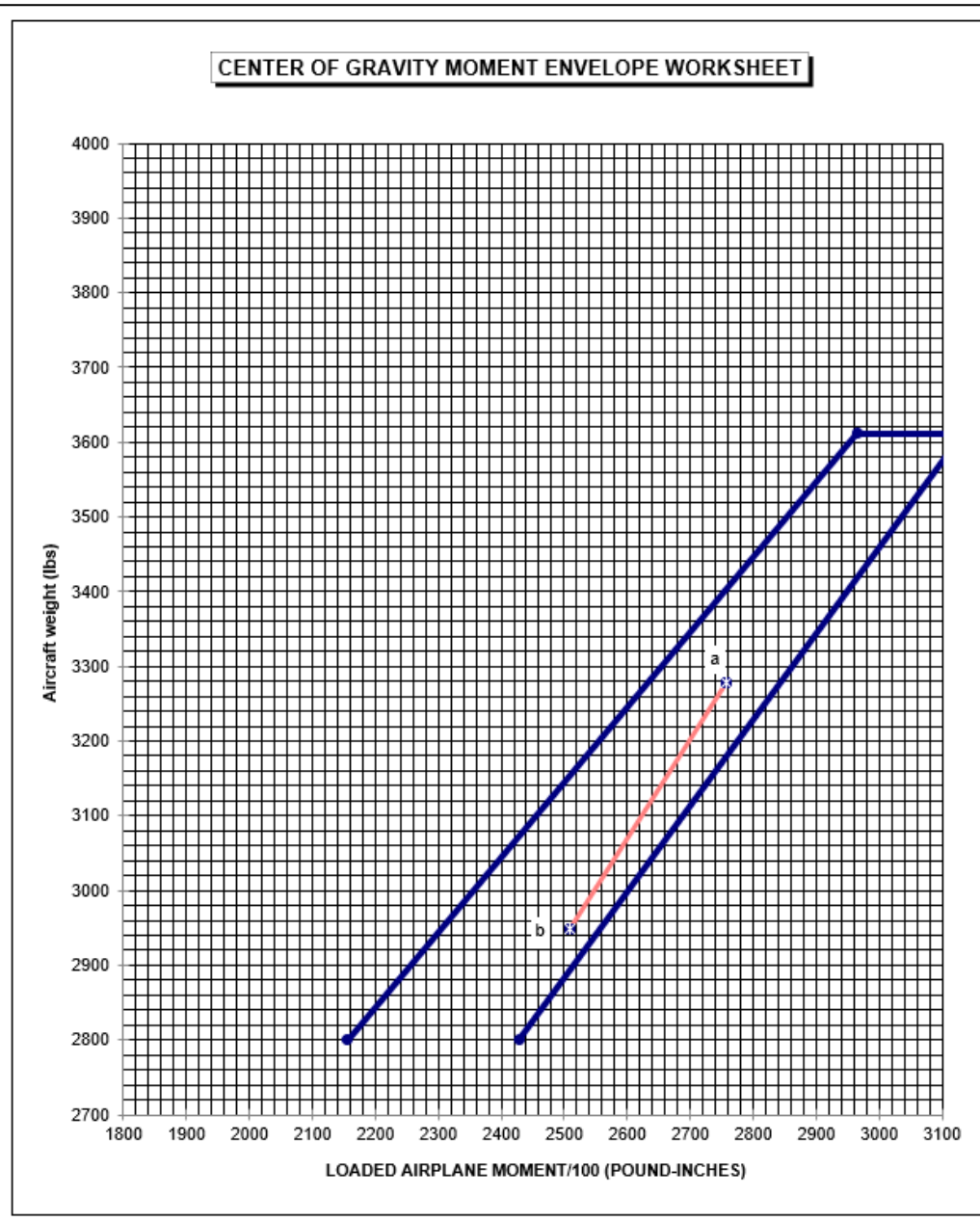


Figure 1 – Weight and Balance Calculator (Courtesy of Textron Aviation)

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Weight and Balance Calculations

- The weight and balance was calculated based on the following assumptions:
 - The main fuel tanks were 100% full and the tip tanks were 3/4s fuel according to the fuel technician.
 - 116.5 lbs. of personal effects were found and weighed at the accident site (*3 roller bags, 7 handbags*)
 - An oxygen tank weighing 29 lbs. was found
 - Pilot Weight: 165 lbs. (per FAA medical certificate)
 - Front Seat Passenger: 150 lbs. (per autopsy)
 - Rear Seat Passenger: 118 lbs. (per autopsy)