

WEIGHT & BALANCE

N127DB , Luscombe 8A/E, S/N 5874

AS WEIGHED

with wing tanks, Cleveland mechanical brakes, ski struts, maule tailwheel, extended baggage, O-200 , slick magnetos B&C starter, B&C alternater

item	weight	arm	moment
Left main	467	+3	1401
Right main	460	+3	1380
Tailwheel	61	+183	11163
Baggage	0	-51	0
total weight	988		13944
adjustments			
less oil	7.5	-20	-150
less fuel rh	36	+20	-720
less fuel lh	36	+20	-720

Empty weight 916.5 12354

12354 moment, divided by 916.5 = 13.47

New Empty weight CG 13.47 which lies within the range (12.3-16.1) requiring no critical for or aft calculations.

Critical aft CG calculation for extended baggage compartment

Pilot	170#	at + 20	= 3400
Baggage	50#	at +51	= 2550
Fuel	263.5#	at +20	= 5270
total	1400		= 23574 = loaded CG of 16.8 (limit is 16.8)

Use of extended baggage compartment restricts baggage to 50#

Maximum gross weight is 1400 lbs

New useful load = 1400 - 916.5 = 483.5

Pilot seat is at +20

Fuel is at +20

CAUTION!! Extended Baggage is at +51. Load heavy items forward, light items aft. Aft CG may be exceeded due to aft loading or overloading of baggage, fuel and passengers.



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