

William H. Britton Jr.

Fayetteville, NC

WEIGHT and BALANCE

Revision date February 6, 2006

Supersedes 4-29-94

Ercoupe, 415C, SN 3421, N2796H, Aircraft weighed due to numerous changes in aircraft equipment and last known weight and balance was computed on April 29, 1994.

<u>Old Data</u>	<u>Weight</u>	<u>Arm</u>
Empty Weight	828.62	
Empty CG		25.60
Useful Load	431.38	

<u>Aircraft Weighed</u>	<u>Scale Reading</u>	<u>Tare</u>	<u>Net Weight</u>
Right Main	313	5	308
Left Main	310	3	307
Nose	234	4	230
Empty Weight			845 Total

Formula: $CG = D - \frac{F \times L}{W}$

D = 42 L = 60.5

$CG = 42 - (230 \times 60.5) / 845$
 $= 42 - (13915 / 845)$
 $= 42 - 16.46$
 $= 25.54"$

New Data

Empty Weight 845 lbs.
Empty CG 25.54"
Useful Load 415 lbs.

Aircraft Specification A-718

Max Weight 1260 lbs.
Empty CG Range (+25.2" to +25.8") with 65 lb. baggage capacity

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February 7, 2006