


Aircraft Weight and Balance Revision

| | | | | | |
|--|----------------|---|-------------------------------------|----------------|----------------------------------|
| Tail Number: N9002E | | | Date: 1/2/04 | | |
| Prepared by: Wisconsin Aviation Maintenance, Inc 1741 River Drive Watertown, WI 53094 | | | Work Order No: | | |
| | | | Type Certificate Data No: | | |
| Aircraft Make: Cessna | Model: 172N | Serial No: 17272214 | Time: | | |
| Registered Owner: Wisconsin Aviation, Inc | | Address: 1741 River Drive Watertown, WI 53094 | | | |
| Maximum Weight 2300 | | CG Range FWD | | AFT | |
| As Received; Date of Previous Weight and Balance: 9/25/01 | | Useful Load: 792.01 | EW: 1507.99 | EWCG: 38.71 | Moment: 58367.08 |
| Notes: | | | | | |
| | | | Weight | Arm | Moment |
| Installed TCB Composite spinner | | | 1.0 | -43.1 | -43.10 |
| Removed metal spinner | | | -1.2 | -43.1 | 51.72 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| | | | 0.00 | 0.00 | 0.00 |
| <input checked="" type="checkbox"/> As Calculated <input type="checkbox"/> As Weighed | | Moment 58375.70 Weight 1507.79 | New Empty Weight CG 38.72 | | New Useful Load 792.21 |
| Signature | | | | | |
|  | | | | | |
| Repair Agency or License No: IA 262535423 | | | | | |

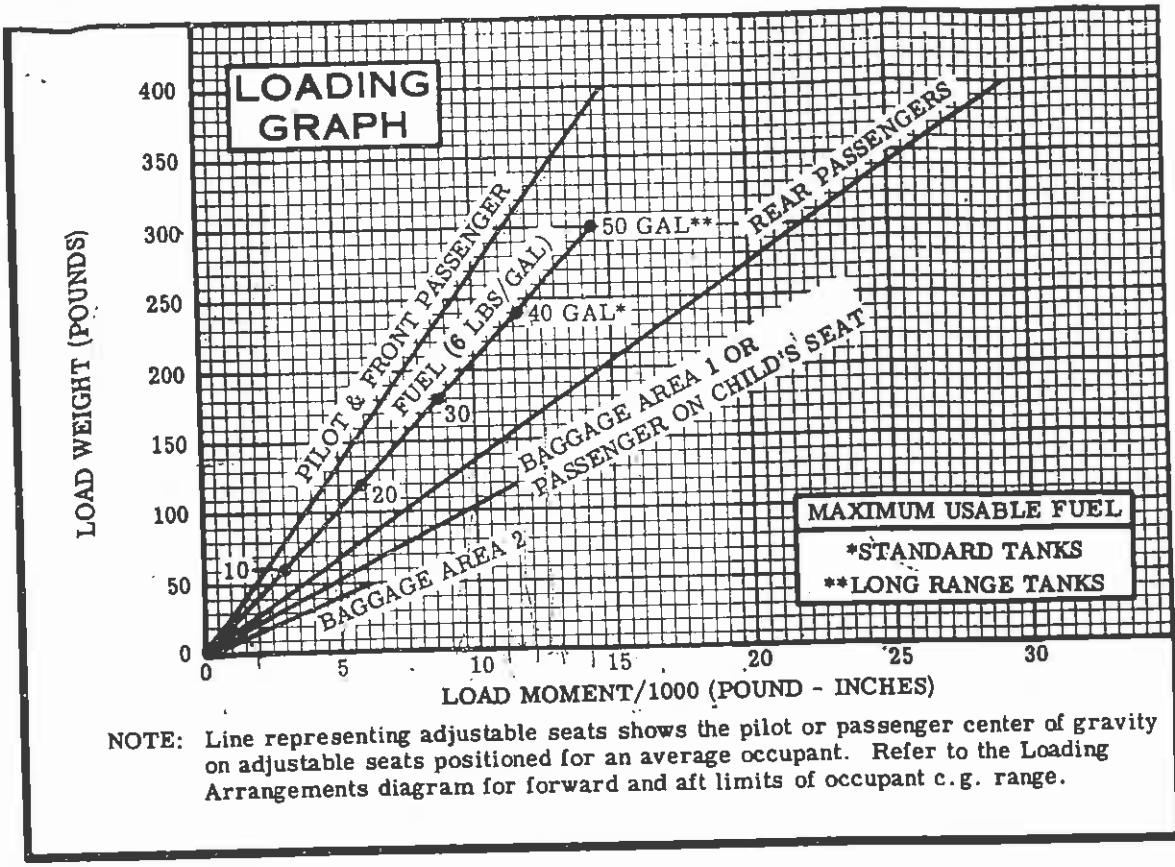


Figure 6-6. Loading Graph

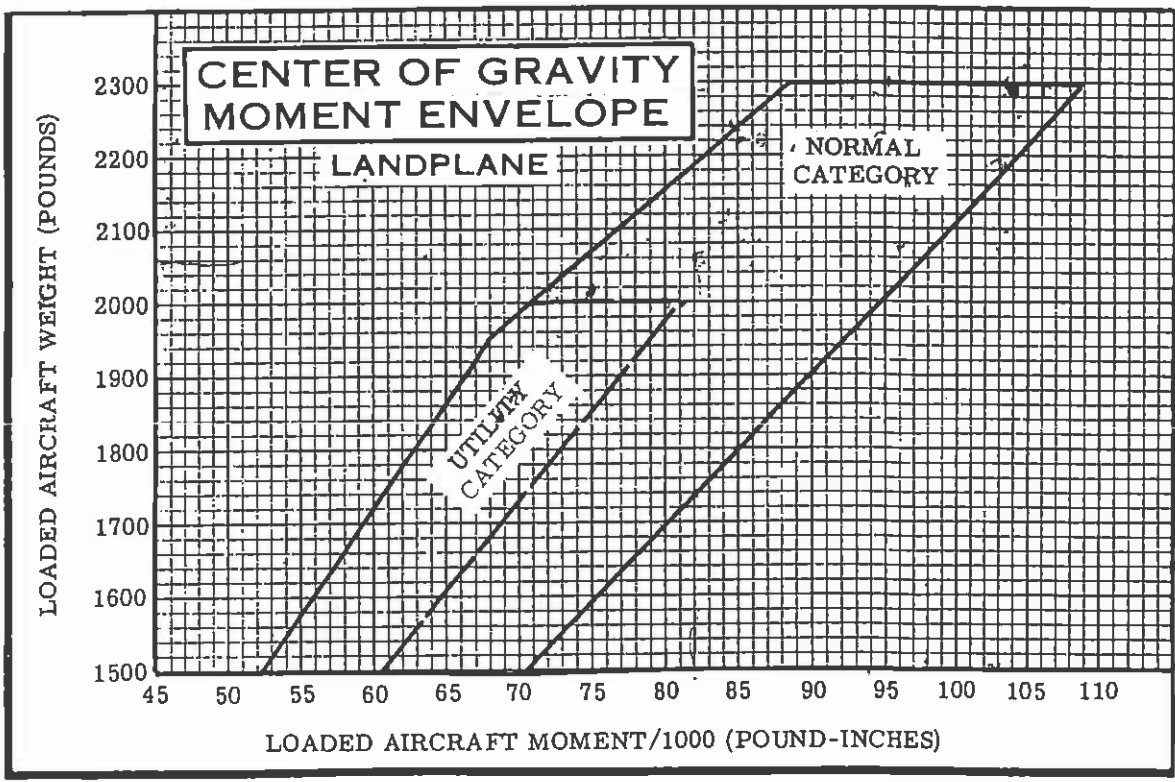


Figure 6-7. Center of Gravity Moment Envelope

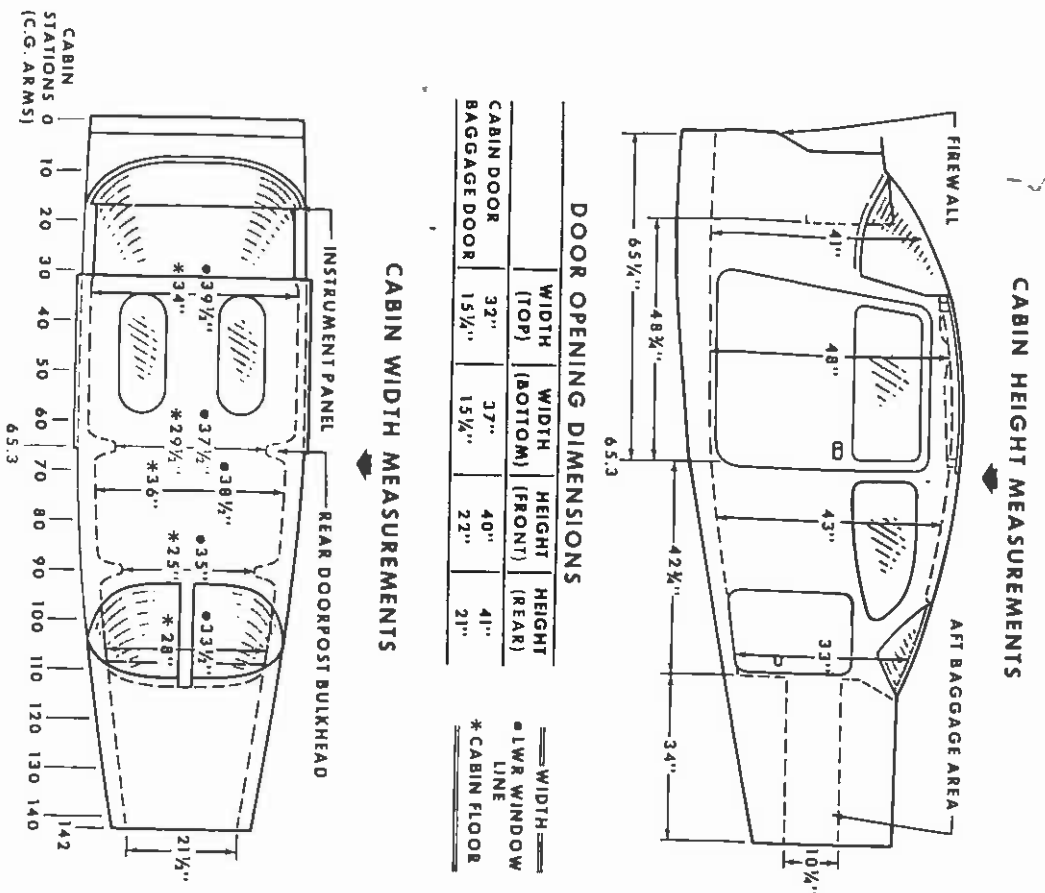


Figure 6-4. Internal Cabin Dimensions

| SAMPLE AIRPLANE | YOUR AIRPLANE | |
|---|---------------|---------------------------|
| | Weight (lbs.) | Moment (lb. - ins. /1000) |
| 1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil) | 1454 | 57.6 |
| 2. Usable Fuel (At 6 Lbs./Gal.) Standard Tanks (40 Gal. Maximum) | 240 | 11.5 |
| Long Range Tanks (50 Gal. Maximum) | | |
| 3. Pilot and Front Passenger (Station 34 to 46) | 340 | 12.6 |
| 4. Rear Passengers | 170 | 12.4 |
| 5. * Baggage Area 1 or Passenger on Child's Seat (Station 82 to 108) 120 Lbs. Max. | 96 | 9.1 |
| 6. * Baggage Area 2 (Station 108 to 142) 50 Lbs. Max. | | |
| 7. TOTAL WEIGHT AND MOMENT | 2300 | 103.2 |
| 8. Locate this point (2300 at 103.2) on the Center of Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable. | | |

NOTE

* The maximum allowable combined weight capacity for baggage areas 1 and 2 is 120 lbs.

Figure 6-5. Sample Loading Problem