

# AIRCRAFT WEIGHT AND BALANCE



## WEIGHT AND BALANCE GRAPHS

Name \_\_\_\_\_

Class \_\_\_\_\_

Refer to the graphs below to complete the following activities:

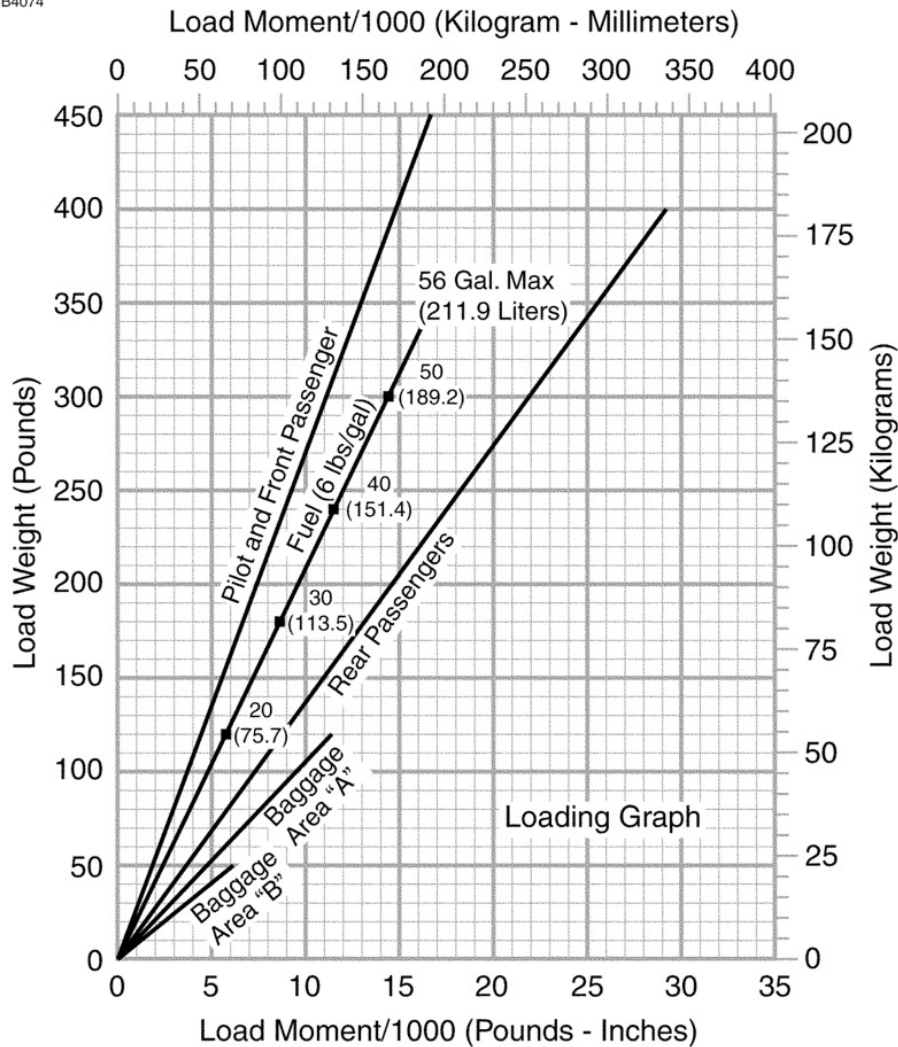
- Calculating Weight and Balance
- Weighty Concepts and Calculations
- Flying With Friends

### FIGURE 1 - LOADING GRAPH

The loading graph is used to find the moment for each of the weights in your aircraft.

## LOADING GRAPH

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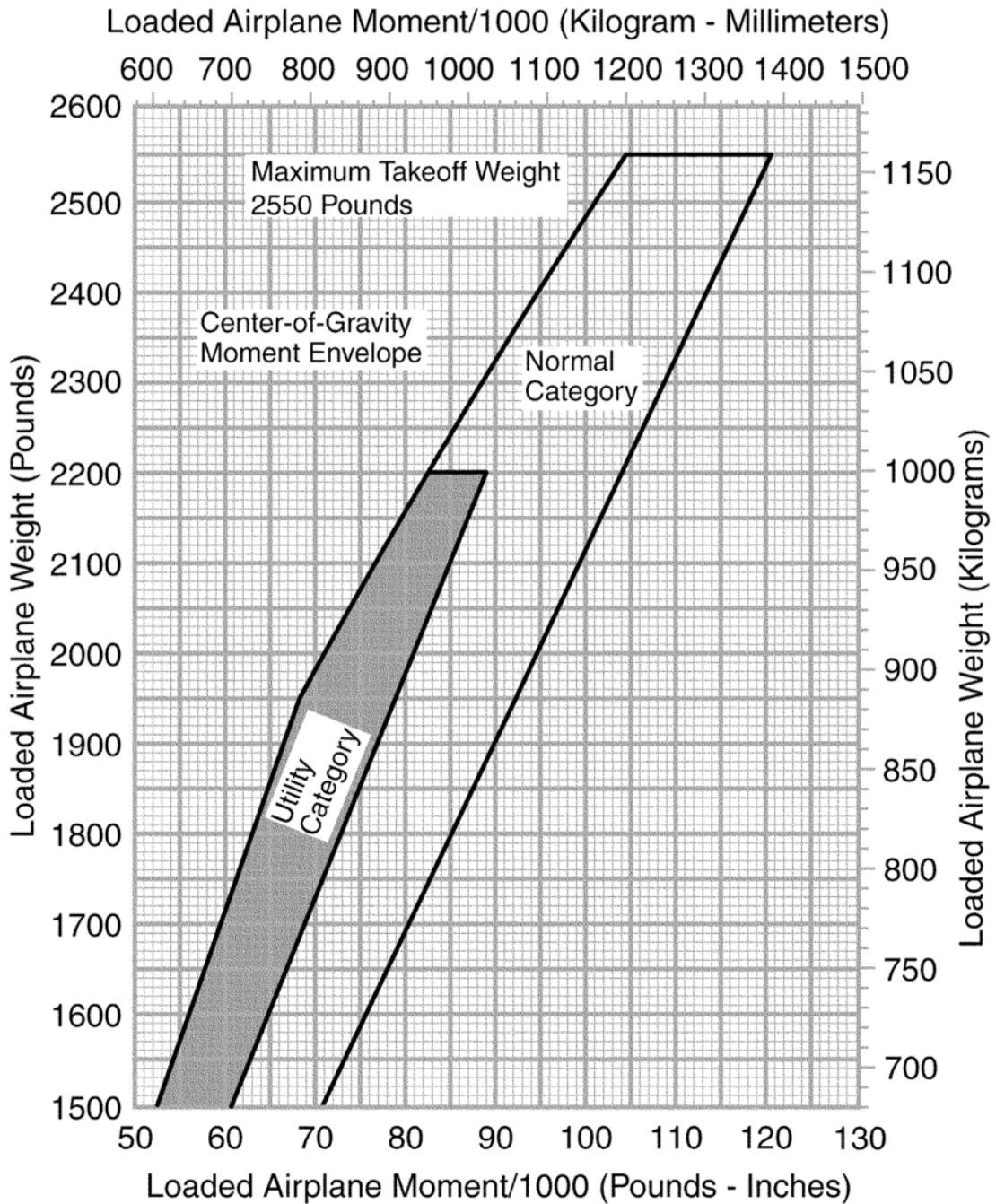


**FIGURE 2 - CENTER OF GRAVITY MOMENT ENVELOPE**

Once you have added the total moment and weight for your aircraft's loading, use this Center of Gravity Moment Graph to determine if your aircraft's loading is within limits.

**CENTER OF GRAVITY MOMENT ENVELOPE**

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**FIGURE 3 - CENTER OF GRAVITY LIMITS GRAPH**

The Center of Gravity Limits graph is an alternate approach to determining if your loaded aircraft is within limits.

Determine the CG by taking the total moment and dividing it by the total weight. Apply the CG and total weight of the aircraft to this chart to determine if it is within limits.

**CENTER OF GRAVITY LIMITS**

