



WEIGHT & BALANCE



W x A = M CG = M/W	WEIGHT (lbs)	ARM	MOMENT
BASIC EMPTY WEIGHT			
FRONT SEATS			
REAR SEATS			
BAGGAGE			
FUEL (6 lbs/gal.)			
RAMP WEIGHT			
TAXI FUEL BURN			
TAKEOFF WEIGHT			
FUEL BURN IN FLIGHT			
LANDING WEIGHT			

1. Locate the operating handbook and most recent weight and balance (W&B) for your aircraft.
2. Using the latest W&B, fill in the aircraft **Basic Empty Weight** row.
3. Fill in the Weight for the pilot and copilot (**Front Seats**). Find the approximate arm length from the loading arrangements found in the operating handbook. Multiply the Weight x Arm to find the new Moment.
4. **Repeat step 3 for Rear Seats, Baggage, and Fuel.** Be sure to add your baggage weight to the correct area, as it's usually stored on the Rear Seats for easier access. If the Arm cannot be found, divide Moment by the Weight. Copy the new Fuel Arm into Taxi Fuel Burn Arm and Fuel Burn In Flight Arm (blue boxes).
5. **Ramp Weight** - Calculate the sum of all Weights and all Moments. Divide the new Moment by the new Weight to find the new Arm. Please note that the Arm column can not be tallied.
6. Fill in the approximate **Taxi Fuel Burn**. An example will be one gallon (6 lbs), so write this as '-6'. Multiply this figure with the Arm to find the Moment for Taxi Fuel Burn.
7. Subtract the new figures under the Weight and Moment columns to find the **Takeoff Weight** and Moment. Divide the Moment by the Weight to find the new Takeoff Weight Arm.
8. **Repeat steps 6-7 for Fuel Burn In Flight** to find out the new **Landing Weight**. Remember to minus the fuel, just like Taxi Fuel Burn in step 6.
9. Ensure your new Takeoff Weight and Landing Weight fit within your aircraft Weight and Balance envelope in the POH.