



By Mario L. Nienhuis, CFI

Weight & Balance (USE AFM/POH)

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| Type Aircraft: Piper Warrior P-28A-161 | Tail Number: N611JP | Airplane Serial NO. 28-7916111 |
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| SAMPLE LOADING PROBLEM | WEIGHT (lbs) | ARM (inches) | MOMENT (inch x lbs) | |
|--|----------------|----------------|-----------------------|---|
| BASIC EMPTY WEIGHT | 1505 | 87.13 | 131130.7 | |
| FRONT SEATS | | 80.5 | | + |
| REAR SEATS | | 118.1 | | + |
| BAGGAGE AREA (max 200 lbs) | | 142.8 | | + |
| ZERO FUEL WEIGHT | | | | = |
| FUEL (max 50 USG) (48 Usable = 182 Liters) | | 95 | | + |
| RAMP WEIGHT | | | | = |
| FUEL (Start, Taxi and Takeoff) | 0.7 | 95 | 66.5 | - |
| TAKE-OFF WEIGHT | | | | = |
| TRIP FUEL | | 95 | | - |
| LANDING WEIGHT | | | | + |

| | |
|---------------------------------|--|
| CG LOCATION IN INCHES AFT DATUM | |
|---------------------------------|--|

WEIGHT X ARM = MOMENT

$$\frac{\text{MOMENT}}{\text{WEIGHT}} = \text{CG} \quad \text{-Or-} \quad \frac{M' \pm M_{\Delta}}{W' \pm W_{\Delta}} = \text{CG}$$

(1 USG = 6 LBS) (1L = 0.7kg) (1 kg = 2,2 lbs)

MAX RAW and TOW = 2325 LBS

DATE : _____

SIGN : _____

Based on Weight and balance data of March 24, 2006

