

Pitts S/N 2219 Weight and Balance Calculation

Full Fuel Calculation

<u>Weight</u>	<u>X</u>	<u>Arm</u>	<u>=</u>	<u>Moment</u>
Aircraft 1100 lbs		87.16 In.		95876 In-lbs
Pass & Chute 165 lbs	X	108.62 In.		17922.3 In-lbs
Pilot & Chute 220 lbs	X	136.56 In.		30043.2 In-Lbs
Full Fuel 138 lbs		80.81 In.		11152 In-Lbs
<u>TOTAL</u>				
1623 lbs.	X	95.49 In.		154993.5 In-Lbs

Half Fuel Calculation

<u>Weight</u>	<u>X</u>	<u>Arm</u>	<u>=</u>	<u>Moment</u>
Aircraft 1100 lbs		87.16 In.		95876 In-lbs
Pass & Chute 165 lbs	X	108.62 In.		17922.3 In-lbs
Pilot & Chute 220 lbs	X	136.56 In.		30043.2 In-Lbs
Half Fuel 69 lbs		80.81 In.		5575.9 In-Lbs
<u>TOTAL</u>				
1554 lbs.	X	96.15 In.		149417.4 In-Lbs

Minimum Fuel Calculation

<u>Weight</u>	<u>X</u>	<u>Arm</u>	<u>=</u>	<u>Moment</u>
Aircraft 1100 lbs		87.16 In.		95876 In-lbs
Pass & Chute 165 lbs	X	108.62 In.		17922.3 In-lbs
Pilot & Chute 220 lbs	X	136.56 In.		30043.2 In-Lbs
*Minimum Fuel 34.5 lbs		80.81 In.		2787.9 In-Lbs
<u>TOTAL</u>				
1519.5 lbs.	X	96.49 In.		146629.4 In-Lbs

*NOTE: AFM states "Do not perform acrobatics with less than ¼ tank of fuel on board".