

	A	B	C	D	E
1	TRAILER BALANCE SPREADSHEET				
2					
3	Instructions				
4	Enter your own data in the boxes with red numbers				
5	Read off results in boxes with blue numbers				
6					
7	Basic measurements	in			
8	Body length - A	120			
9	Tongue length - B	36			
10	Wheel center from rear - C	52			
11					
12	Extra weight measurements	in			
13	Extra weight 1 from rear - D1	0			
14	Extra weight 2 from rear - D2	0			
15	Extra weight 3 from rear - D3	0		Lever	Moment
16				about	about
17	Basic Weights	% of Basic	lb	rear, in	rear, in-lb
18	Basic trailer weight	100%	1000		
19	Weight of tongue	5.0%	50	138	6900
20	Weight of axle/suspension	12.0%	120	52	6240
21	Body weight (total - tongue - axle)	83.0%	830	60	49800
22					
23	Extra Weights (not included in Basic)		lb		
24	Extra weight 1		0	0	0
25	Extra weight 2		0	0	0
26	Extra weight 3		0	0	0
27					
28	Results				
29	Total trailer weight, lb	1000			62940
30	LCG from rear - X, in	62.9	% of Total		
31	Weight on axle, lb	895	89.5%		
32	Weight on each wheel, lb	447			
33	Weight on hitch, lb	105	10.5%		

Formulae for Calculated Cells

$$C19 = B19 * C18$$

$$D19 = (B8 + B9) / 2$$

$$E19 = C19 * D19$$

$$C20 = B20 * C18$$

$$D20 = B10$$

$$E20 = C20 * D20$$

$$B21 = C21 / C18$$

$$C21 = C18 - C19 - C20$$

$$D21 = B8 / 2$$

$$E21 = C21 * D21$$

$$D24 = B13$$

$$E24 = C24 * D24$$

$$D25 = B14$$

$$E25 = C25 * D25$$

$$D26 = B15$$

$$E26 = C26 * D26$$

$$B29 = C18 + C24 + C25 + C26$$

$$E29 = E19 + E20 + E21 + E24 + E25 + E26$$

$$B30 = E29 / B29$$

$$B31 = B29 * (B9 - B30) / (B9 - B10)$$

$$C31 = B31 / B29$$

$$B32 = B31 / 2$$

$$B33 = B29 - B31$$

$$C33 = B33 / B29$$