WORKSHEET #3 - INDIVIDUAL WHEEL POSITION WEIGHT

Travel Trailers and Tow Vehicles

INSTRUCTIONS		
CURB SIDE WEIGHTS (in lbs)	Position the Tow Vehicle and Trailer as directed by the Weighing Official. The number of scales available will determine the need to reposition the Vehicles. Weight data will be collected with WDH disconnected and connected.	STREET SIDE WEIGHTS (in lbs)
TOW VEHICLE ONLY WEIGHT		
1.	Enter Steer Axle GAW.	2.
Calculate Steer Axle GAW: (1+2=3).		3.
4.	Enter Drive Axle GAW.	5.
Calculate Drive Axle GAW: (4+5=6).		6.
Calculate Uncoupled Tow Vehicle GVW: (3+6=7).		7.
TOW VEHICLE AND TRAVEL TRAILER WEIGHT DISTRIBUTING HITCH NOT CONNECTED		
8.	Enter Steer Axle GAW.	9.
Calculate Steer Axle GAW: (8+9=10).		10.
11.	Enter Drive Axle GAW.	12.
Calculate Drive Axle GAW: (11+12=13).		13.
14.	Trailer Axle 1 GAW.	15.
Calculate Trailer Axle 1 GAW: (14+15=16).		16.
17.	Trailer Axle 2 GAW.	18.
Calculate Trailer Axle 2 GAW: (17+18=19).		19.
20.	Trailer Axle 3 GAW.	21.
Calculate Trailer Axle 3 GAW: (20+21=22).		22.
Calculate Coupled Tow Vehicle GVW: (10+13= 23).		23.
Calculate Total Trailer GAW: (16+19+22=24).		24.

TOW VEHICLE AND TRAVEL TRAILER WEIGHT DISTRIBUTING HITCH CONNECTED		
25.	Enter Steer Axle GAW.	26.
Calculate Steer Axle GAW: (25+26=27).		27.
28.	Enter Drive Axle GAW.	29.
Calculate Drive Axle GAW: (28+29=30).		30.
31.	Trailer Axle 1 GAW.	32.
Calculate Trailer Axle 1 GAW: (31+32=33).		33.
34.	Trailer Axle 2 GAW.	35.
Calculate Trailer Axle 2 GAW: (34+35=36).		36.
37.	Trailer Axle 3 GAW.	38.
Calculate Trailer Axle 3 GAW: (37+38=39).		39.
Calculate Coupled Tow Vehicle GVW: (27+30=40).		40.
Calculate Total Trailer GAW: (33+36+39=41).		41.

CALCULATIONS	
Enter Tow Vehicle GAWR for the Steer Axle as indicated on the Tow Vehicle MWL.	42.
Steer Axle GAW (lines 3, 10 and 27) MUST each be less than Steer Axle GAWR (line 42).	 Verify
Enter Tow Vehicle GAWR for the Drive Axle as indicated on the Tow Vehicle MWL.	43.
Drive Axle GAW (lines 6, 13 and 30) MUST each be less than Drive Axle GAWR (line 43).	 Verify
Enter Trailer GAWR for the Trailer Axles as indicated on the Trailer manufacturer weight label.	44.
Trailer Axle GAW, (line 16, 19, 22, 33, 36 and 39) MUST each be less than Trailer GAWR (line 44).	 Verify
Calculate GCW – METHOD ONE, WITHOUT WDH: Add Tow Vehicle GVW (line 23) and Total Trailer GAW (line 24). This is the total weight of the Tow Vehicle and Trailer: (23+24=45).	45.

Calculate GCW – METHOD TWO, WITH WDH: Add Tow Vehicle GVW (line 40) and Total Trailer GAW (line 41). This is the total weight of the Tow Vehicle and Trailer: (40+41=46).	46.
⚠ **Line 45 and Line 46 should be essentially the same. If not, either a calculation is in err or something was changed between weighing.**	
Enter Tow Vehicle GCWR from the Tow Vehicle MWL.	47.
The GCW (lines 45 and 46) MUST each be less than the Tow Vehicle GCWR (line 47). If not, the Tow Vehicle and Travel Trailer exceed their designed combined maximum weight rating and this MUST be resolved.	STOP Verify
TRALER WEIGHT CALCULATIONS	
ENTER the Coupled Tow Vehicle GVW (line 23).	48.
ENTER the Uncoupled Tow Vehicle GVW (line 7).	49.
Calculate TONGUE WEIGHT: Subtract the Uncoupled Tow Vehicle GVW (line 49) from the Coupled Tow Vehicle GVW (line 48): (48–49=50).	50.
ENTER Total Trailer GAW (line 24).	51.
Calculate the GTW by adding the Tongue Weight (line 50) to the Total Trailer GAW (line 51): (50+51=52).	52.
Enter Trailer GVWR from the Trailer MWL.	53.
The Trailer GTW (line 52) MUST be less than the Trailer GVWR (line 53). If not, the Travel Trailer has exceed its maximum designed weight and this MUST be corrected.	STOP Verify