

WORKSHEET #12 - SINGLE AXLE SCALE

Travel Trailers and Tow Vehicles

INSTRUCTIONS

Position the Tow Vehicle and Fifth Wheel on the scale platform, one axle set at a time, so that each axle is centered on the platform as best possible. Once a weight is established, move to the next axle. Weight data will be collected with WDH disconnected and connected. All weights recorded in pounds (lbs).

TOW VEHICLE ONLY WEIGHT

Enter Steer Axle GAW.	1.
Enter Drive Axle GAW.	2.
Calculate Tow Vehicle GVW: $(1+2=3)$.	3.






COUPLED TOW VEHICLE - TRAVEL TRAILER ATTACHED WEIGHT DISTRIBUTING HITCH NOT CONNECTED

Enter Steer Axle GAW.	4.
Enter Drive Axle GAW.	5.
Calculate Coupled Tow Vehicle GVW: $(4+5=6)$	6.
Enter Travel Trailer Axle One GAW.	7.
Enter Travel Trailer Axle Two GAW.	8.
Enter Travel Trailer Axle Three GAW.	9.
Calculate Total Trailer GAW: Add Axle One GAW (line 7), Axle Two GAW (line 8) and Axle Three GAW (line 9): $(7+8+9=10)$	10.

COUPLED TOW VEHICLE - TRAVEL TRAILER ATTACHED WEIGHT DISTRIBUTING HITCH CONNECTED

Enter Steer Axle GAW.	11.
Enter Drive Axle GAW.	12.
Calculate Coupled Tow Vehicle GVW: $(11+12=13)$.	13.
Enter Travel Trailer Axle One GAW.	14.
Enter Travel Trailer Axle Two GAW.	15.
Enter Travel Trailer Axle Three GAW.	16.

CALCULATIONS

Enter Tow Vehicle Steer Axle GAWR as indicated on the Tow Vehicle MWL.	17.
Tow Vehicle Steer Axle GAW (line 1, line 4 and line 11) MUST each be less than Steer Axle GAWR (line 17).	 Verify
Enter Tow Vehicle Drive Axle GAWR as indicated on the Tow Vehicle MWL.	18.
Tow Vehicle Drive Axle GAW (line 2, Line 5 and line 12) MUST each be less than Drive Axle GAWR (line 12).	 Verify
Enter Trailer GAWR as indicated on the Trailer MWL.	19.
Each Trailer GAW (line 7, line 8, line 9, line 14, line 15 and line 16) MUST each be less than the Trailer GAWR (line 19).	 Verify
Enter Trailer GVWR as indicated on the Trailer MWL.	20.
Calculate Trailer Tongue Weight. Subtract the Tow Vehicle GVW (line 3) from Coupled Tow Vehicle GVW (line 6): $(6-3=21)$.	21.
Calculate GTW. Add Tongue Weight (line 21) and the Travel Trailer Total GAW (line 10): $(21+10=22)$.	22.
Total GTW (line 22) MUST be less than the Trailer GVWR (line 20).	 Verify
Enter Tow Vehicle GCWR from the Tow Vehicle MWL.	23.
Calculate GCW. Add Coupled GVW (line 6) and Total Trailer GAW (line 10): $(6+10=24)$.	24.
The GCW (line 24) MUST be less than the Tow Vehicle GCWR (line 23). If not, the Tow Vehicle and Travel Trailer exceed their designed combined maximum weight rating and this MUST be resolved.	 Verify