

Truck and Trailer Weight Demonstrator

Description	Weight	Reserve	Arm	Moment
Tow Vehicle Specifications				
Wheelbase (Inches)	139	-	-	-
GVWR (Gross Vehicle Weight Rating)	6,300	-	-	-
GCWR (Gross Combination Weight Rating)	13,000	-	-	-
GAWR (Gross Axle Weight Rating - Front)	3,250	-	-	-
GAWR (Gross Axle Weight Rating - Rear)	3,575	-	-	-
Curb weight - from spec or scale (Front)	2,540	710	0	0
Curb weight - from spec or scale (Rear)	1,906	1,669	139	264,934
Curb weight - calculated (Total)	4,446	1,854	60	264,934
Gross Trailer Weight Rating (GTWR)	8,554	-	-	-
Tow Vehicle Options, Cargo, Passengers				
			(Note 1)	
Driver	195	-	60	11,700
Front Seat Passengers	175	-	60	10,500
Rear Seat Passengers	75	-	84	6,300
Fuel (gas 6.2 lb/gal, diesel 7.0 lb/gal)	155	-	105	16,275
Hitch	100	-	180	18,000
Other (tool box)	100	-	105	10,500
Other (generator)	0	-	105	0
Other (firewood)	0	-	150	0
Other (Miscellaneous Stuff)	0	-	150	0
Other ()	0	-	0	0
Other ()	0	-	0	0
Other ()	0	-	0	0
Other ()	0	-	0	0
Other ()	0	-	0	0
Other ()	0	-	0	0
Weight Added (Total)	800	-	92	73,275
Tow Vehicle Weights w/o Trailer				
GVW (Gross Vehicle Weight - Total)	5,246	1,054	64	338,209
GAW (Gross Axle Weight - Front)	2,813	437	0	0
GAW (Gross Axle Weight - Rear)	2,433	1,142	139	338,209
Gross Trailer Weight Rating (GTWR)	-	7,754	-	-

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Trailer Specifications				
GVWR (Gross Vehicle Weight Rating)	6,000	-	-	-
GAWR (Gross Axle Weight Rating)	7,000	-	-	-
Distance hitch to axle (Inches)	156	-	-	-
Weight from spec or scale (Axle)	3,675	-	156	573,300
Weight from spec or scale (Hitch)	320	-	0	0
Weight Calculated (Total)	3,995	-	144	573,300
Trailer Options, Cargo, Accessories				
			(Note 2)	
Fresh Water (8.35 lb/gal)	0	-	0	0
Gray Water No. 1	0	-	0	0
Gray Water No. 2	0	-	0	0
Black Water	0	-	0	0
Water in water heater	48		248	11,904
Water in accumulator	0		0	0
Propane (4.22 lb/gal)	150	-	40	6,000
Batteries	120	-	40	4,800
Generator	0	-	0	0
Other (Spare Tire)	75	-	252	18,900
Other (Air Cond)	100	-	138	13,800
Other (Microwave)	50	-	150	7,500
Other (Stereo)	25	-	120	3,000
Other (Misc Stuff)	150	-	60	9,000
Other (Misc Stuff rear)	150		213	31,950
Other (pots/pans/dishes/etc)	150		120	18,000
Other (Awning)	0	-	0	0
Weight Added (Total)	1,018	-	123	124,854
Calculated Trailer Weights				
GVW (Gross Vehicle Weight)	5,013	987	139	698,154
GAW (Gross Axle Weight)	4,475	2,525	156	698,154
Hitch (Pin) Weight	602	-	-	-
Hitch (Pin) Weight %	12%	-	-	-
Calculated Tow Vehicle Weights				
GVW w/o Trailer	5,246	-	64	338,209
Pin/Hitch Weight	602	-	180	108,281
GVW w/ Trailer (Total)	5,848	452	76	446,490
GAW w/ Trailer (Front)	2,635	615	0	0
GAW w/ Trailer (Rear)	3,212	363	139	446,490
GCW w/ Trailer (Gross Combined Weight)	10,259	2,741	-	-

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Description	Weight	Reserve	Arm	Moment
Note 1: Truck Arm distances are measured from front axle, (+) aft, (-) forward.				
Note 2: Trailer Arm distances are measured from hitch/pin, (+) aft, (-) forward.				
Note 3: Type data into green cells only. Do not over-write formulas.				
Note 4: Moment = Weight * Arm (Inch-Lbs)				
Note 5: If you add rows to add more optional equipment, be sure to maintain the integrity of all formulas.				
Note 6: Do not add weight for the same item twice. If truck was weighed with full fuel, don't add it in again. If the hitch was on the truck when you weighed it, don't add it again, etc.				
Note 7: Use positive weights to add items to truck or trailer, negative weights to remove them. You can remove weight in one location and add it back in another location to determine the effect on hitch weight, etc.				
<p>Legal Disclaimer: This calculation demonstrator is intended for demonstration purposes only. It is not intended as a device to select the safest and best combination of tow vehicle and trailer. You still have to use your own best judgment in selecting the best and safest combination of truck and RV. You still have to use your own best judgment in using a certain combination of truck and RV. If you use this calculation demonstrator for anything other than its intended purpose of demonstration, neither its author nor the web site it's posted on nor the owner of the web site it's posted on nor the owner of the hosting service of the web site it's posted on is responsible or liable for any damages or injuries resulting from the misuse of this calculation demonstrator.</p>				

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Weighted 11/7/2004

CAT Scale

Pilot Trvl Ctr - Eloy, AZ

GVW 10,280 lbs

full tank w/passengers, lawn chairs, misc.

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