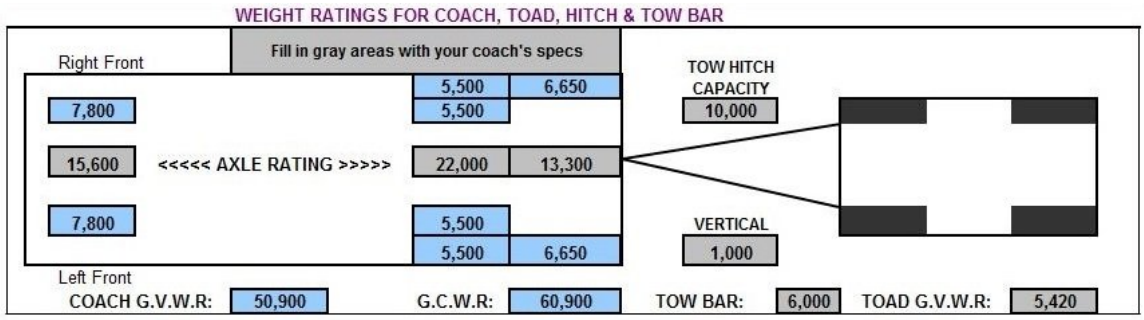
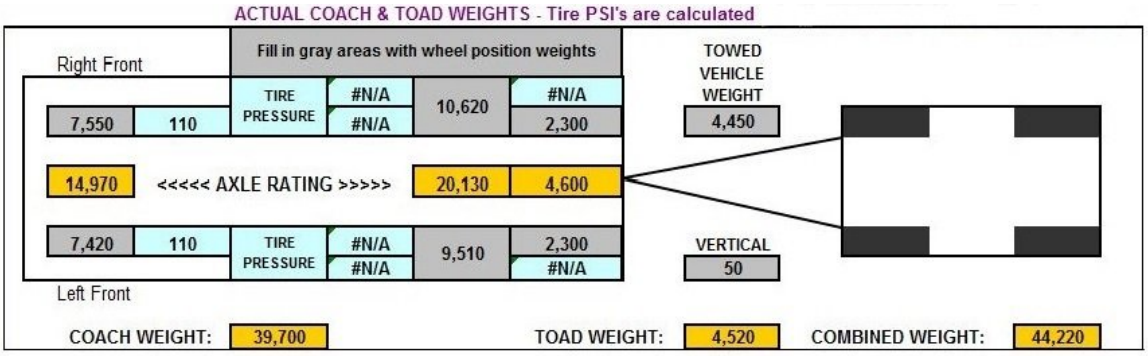
2010 43QGP Allegro Bus

2/1/2014

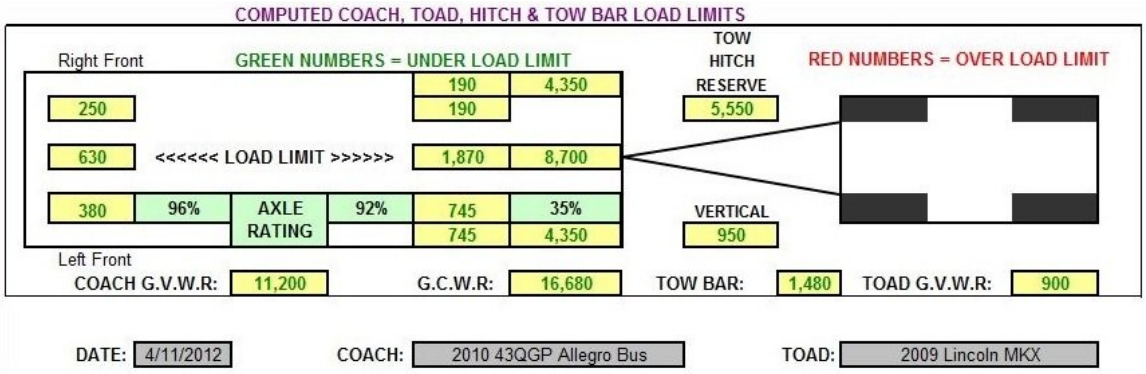
102 - FYI – <u>RV WEIGHING PROGRAM v15.5</u> The easiest way to explain how to use the RV Weighing Program v15.5 Excel Spreadsheet is to do a little cutting and pasting of the three main parts of the program.
Part 1, is the WEIGHT RATINGS FOR COACH, TOAD, HITCH & TOW BAR. In this case there are three axles. If the coach has two axles select the 6 wheel sheet of the spreadsheet. As noted below, the SEVEN gray cells are not LOCKED. As they are unlocked you can enter the actual ratings for the coach axles, the coach tow hitch capacity, the vertical tow hitch capacity, the tow bar capacity and the toads G.V.W.R. (Gross Vehicle Weight Rating) all other cells are locked.



Part 2, is the ACTUAL COACH & TOAD WEIGHTS of each wheel position, in this case six wheel positions, plus the towed vehicle weight and the vertical weight of the tow bar. The EIGHT cells are not LOCKED. Again as they are unlocked you can enter the actual weights of the six wheel positions, the actual weight of the towed vehicle and the actual weight of the tow bar.



Part 3, is the COMPUTED COACH, TOAD, HITCH & TOW BAR LOAD LIMITS. Again if the coach has three axles you would continue to use this 8 wheel sheet. If the coach has two axles click on the 6 wheels sheet. In this part there are THREE Gray cells that are not LOCKED. As they are unlocked you can enter the date of the weighing, your coach information and your toad information.



There are EIGHTEEN (18) **UN-LOCKED** cells waiting for entry of information specific to your coach. Once the information has been entered you can **SAVE** the file and **PRINT** the file for later ready information.

At this point there is a **LIMITED** selection of tire sizes and manufacturers in the spreadsheet database, I expanded the tire selection however they are all Michelin. You will see **#N/A** in SIX of the EIGHT wheel positions for the Michelin specified tire pressure for the weight of my coach on those SIX wheel positions. Why you ask, because the ACTUAL WEIGHT on those SIX wheel positions does not meet the MINIMUM TIRE PRESSURE as specified by Michelin in their tire catalog for that SPECIFIC tire, tire size and load rating. I'll use the following as an example the MINIMUM tire pressure for the tires on my coach is 75 PSI @ 5,375 pounds for a SINGLE tire (Steer or Tag) and 9,530 pounds for DUAL tires. The MINIMUM steer axle weight for this tire is 10,750 pounds the front axle is carrying 14,970 pounds. Based on the below chart the STEER axle tires should carry 115 PSI. However the TAG axle tires are carrying 4,600 pounds which is no were near the 10,750 pound MINIMUM @ 75 PSI for the tires. Now the DRIVE axle dual tires, the MINIMUM tire pressure from the chart is 75 PSI at a MINIMUM of 19,060 pounds. My DRIVE axle is carrying 20,130 pounds therefor the tires should be carrying a MINIMUM pressure of 85 PSI. Dan Wire, AKA (Hobodandee) on the TRVN forum tells me 85 PSI is **TOO LOW** for the DRIVE tires and 75 PSI is **TOO LOW** for the TAG axle tires those pressures allow too much flex in the side wall of the tire, Dan recommends a minimum pressure of 75% of the tires RATED capacity. I decided to run the following tire pressures on my coach, STEER tires are set at 120 PSI, DRIVE axle and TAG axle tires are set at 100 PSI. 5 PSI was ADDED to each tire as a **SAFETY FACTOR**.

295/80R22.5 LRH

PSI		75	80	85	90	95	100	105	110	1150	120	MAXIMUM LOAD AND PRESSURE ON SIDEWALL	
kPa		520	550	590	620	660	690	720	760	790	830		
LBS	SINGLE	5375	5660	5940	6220	6495	6770	7040	7300	7570	7830	S	7830 LBS at 120 PSI
	DUAL	9530	10030	10530	11030	11510	12000	12470	12950	13420	13880	D	6940 LBS at 120 PSI
KG	SINGLE	2440	2550	2700	2810	2960	3060	3170	3310	3410	3550	S	3550 KG at 830 kPa
	DUAL	4340	4540	4800	4980	5240	5440	5620	5880	6060	6300	D	3150 KG at 830 kPa

The working Excel spreadsheet covered in this FYI file can be found at: www.tiffinrvnetwork/crusingator/Files/ Click on File-02 **RV Weighing Program v 15.5**