Toyota Prius Plug In Upgrade, Fuel Economy Data. Updated On 04-14-15

Date	Mileage	Gallons	MPG	Comments
02-12-13	273.4	5.327	51.32	Warmer weather, prior fuel was premium
02-17-13	255	5.572	45.76	
02-22-13	259.4	6.289	41.24	Colder weather, longer trips, battery low
02-28-13	310.9	6.450	48.2	
03-03-13	242.9	5.194	46.76	
03-06-13	220.2	4.518	48.73	
03-19-13	287	5.904	48.61	3.229 E85, 2.675 Reg, 6 oz. oil, lower KWH output
03-24-13	200.6	5.2	38.57	2.635 E85, 2.565 Reg, 4 oz. oil, Cold Weather, High Speeds
03-30-13	275.3	6.28	43.83	4.047 E-85, 2.233 Reg, 4 oz. oil, Slightly Warmer Weather
04-04-13	265	6.555	40.42	3.692 E-85, 2.196 Reg, .667 K1, 6 oz. oil
04-08-13	142.5	3.979	46.97	3.979 Reg.
04-18-13	445	9.597	46.36	5.514 E-85, 4.083 Reg.
04-25-13	271	6.623	40.92	6.623 Shell Reg.
04-29-12	286.9	5.395	53.17	5.395 E-85, NiMH Charging Daily, Warmer Weather
05-06-13	324.6	6.641	48.87	6.641 Reg.
05-13-13	270.8	5.248	51.60	5.248 Reg
05-26-13	370.6	6.016	61.60	6.016 E85
06-06-13	**420.4**	**7.745**	**54.28**	**7.745 Reg.**
06-20-13	**445.2**	**8.378**	**53.13**	**8.378 Reg.**
07-03-13	**339.2**	**5.436**	**62.39**	**5.436 Reg.**
07-13-13	364.2	6.557	55.54	6.557 E85
08-04-13	254.5	4.987	51.12	4.987 E85
08-12-13	300.4	6.142	48.91	6.142 Reg
Totals	**6825**	**140.022**	**48.74**	**42.072 E85, 77.59 Reg**.
08-25-13	344.6	6.063	56.83	6.063 E85
09-15-13	343.1	6.207	55.27	6.207 E85
09-16-13	72.8	2.237	34.95	2.237 Reg, ***LiFePO Pack Removed***
09-23-13	356.4	8.447	42.19	8.447 Reg, P0171 OBD Code triggered due to E85 & no battery
10-04-13	330.0	6.694	49.29	6.694 Reg
10-16-13	260.0	5.446	47.74	5.446 VPWR(89 octane)
10-30-13	352.6	7.557	46.66	7.557 VPWR(89 Octane)
11-06-13	427.7	8.644	49.47	8.644 Reg
11-16-13	325.9	8.094	44.46	8.094 Reg
11-25-13	273.6	6.526	41.92	6.526 VPWR(89 Octane)
12-06-13	298.1	6.699	44.49	6.699 Premium (93 Octane)
12-18-13	237.5	5.787	41.04	5.787 E85
12-29-13	298.5	8.400	35.53	8.40 Prem
01-20-14	134.2	3.950	33.97	3.950 Reg
01-24-14	176.0	4.694	37.49	4.694 Reg
02-11-14	229.3	6.571	34.89	6.571 Reg
02-27-14	339.5	8.088	41.97	8.088 Premium
03-07-14	343.1	7.703	44.54	7.703 Premium, 16 oz. used oil
03-13-14	193.8	4.170	46.38	2.779 Reg., 1.399 Premium
03-24-14	338.7	7.029	48.18	7.029 Reg
04-03-14	331.5	7.385	45.05	7.385 Reg.
04-09-14	378.3	8.634	43.815	8.634 Reg.
04-18-14	416.5	8.765	47.51	8.765 Reg.
04-25-14	390.7	7.840	49.83	7.840 Reg.
Totals	**7283.1**	**162.14**	**44.92**	**18.057 E85, 91.763 Reg., 19.529 89 Octane, 32.259 Premium**

Date	Mileage	Gallons	MPG	Comments
05-10-14	416.7	8.173	50.98	8.173 Reg.
05-22-14	341.8	6.46	52.91	6.46 89 Octane
05-31-14	400.7	8.347	48.0	8.347 Reg
06-12-14	464.0	8.774	52.88	8.774 Reg.
06-20-14	437.5	8.829	49.55	8.829 Reg.
07-02-14	437.3	8.618	50.74	8.618 Reg.
07-15-14	403.9	8.553	47.22	8.553 reg.
07-23-14	414.10	8.353	49.57	8.353 Reg
07-29-14	390.2	7.795	50.05	7.795 Reg.
08-08-14	421.6	8.824	47.77	8.824 Reg.
Totals	***4127.8***	***82.726***	***49.897***	
09-04-14	***498.3***	***9.016***	***55.26***	***9.016 Reg.***
09-11-14	***427.3***	***6.874***	***62.16***	***6.874 E85***
09-22-14	***374.3***	***6.601***	***56.70***	***6.601 Reg.***
09-30-14	***394.9***	***7.939***	***49.74***	***7.939 Reg***
10-13-14	***501.5***	***9.323***	***53.79***	***9.323 Reg.***
10-23-14	***402.1***	***5.796***	***69.37***	***5.796 E85***
11-03-14	***426.7***	***8.522***	***50.07***	***8.522 Reg.***
11-14-14	***426.4***	***7.632***	***55.87***	***7.632 Reg.***
Totals	***3451.5***	***61.703***	***55.93***	***49.033 REG., 12.67 E85***
11-24-14		***8.00***		***Plus 89***
12-18-14		***7.384***		***Plus 89***
12-29-14		***7.000***		***Plus 89***
01-12-15		***8.000***		***Plus 89***
01-14-15		***2.44***		***Reg.***
01-16-15		***2.095***		***E85***
01-19-15		***2.014***		***E85***
01-21-15		***2.187***		***Reg***
01-23-15		***1.512***		***E85***
01-26-15		***1.796***		***Reg.***
02-06-15		***8.000***		***Reg.***
02-07-15		***1.940***		***Reg.***
02-15-15		***8.273***		***Reg.***
02-19-15		***8.337***		***Reg.***
03-03-15		***8.000***		***Reg.***
03-09-15		***7.077***		***Reg.***
03-20-15		***8.000***		***Reg.***
04-04-15		***7.034***		***E85***
04-05-15		***3.226***		***Reg.***
04-13-15		***2.010***		***Reg.***
Totals	***5220.2***	***104.325***	***50.03***	***61.286 Reg., 30.384 Plus 89, 12.655 E85***

Battery life cycle

As the Prius reached ten years of being available in the U.S. market, in February 2011 *Consumer Reports* decided to look at the lifetime of the Prius battery and the cost to replace it. The magazine tested a 2002 Toyota Prius with over 200,000 miles on it, and compared the results to the nearly identical 2001 Prius with 2,000 miles tested by *Consumer Reports* 10 years before. The comparison showed little difference in performance when tested for fuel economy and acceleration. Overall fuel economy of the 2001 model was 40.6 miles per US gallon (5.79 L/100 km; 48.8 mpg_{-imp}) while the 2002 Prius with high mileage delivered 40.4 miles per US gallon (5.82 L/100 km; 48.5 mpg_{-imp}). The magazine concluded that the effectiveness of the battery has not degraded over the long run.[123] The cost of replacing the battery varies between US$2,200 and US$2,600 from a Toyota dealer, but low-use units from salvage yards are available for around US$500.[123] One piece of research indicates it may be worthwhile to rebuild batteries using good blades from defective used batteries.[124]

Fuel Economy Improvement with plug in pack, NiMH Charging & Engine Flushes: 20.3%

Additional Planned Upgrades

- **Additional 4KWH to 8KWH Battery Pack, Total KWH = 6 to 10**
- **NiMH Charger, Heavy Duty Springs & Shocks**
- **Engine Flush & Oil Change Every 3000 Miles**

Expectations

- **15% to 20% additional Fuel Economy Improvement (up to 100 miles range a day)**
- **Extended NiMH Battery Life & Gasoline Engine Life**
- **70+ MPG City & Traffic Jam Driving is possible, 45 to 50 MPG Highway is possible**
- **Lower cost than buying a new plug in hybrid car; extends the life of the car**

Results

- **20% Fuel Economy Improvement; Up to 140 Mile Range**
- **Up To 80 MPG City & Traffic Jam MPG**