

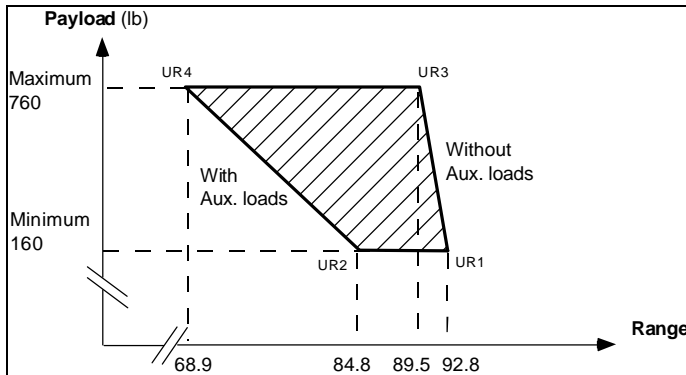
# 1999 TOYOTA RAV4-EV\* (NiMH BATTERIES) PERFORMANCE CHARACTERIZATION SUMMARY

## ELECTRIC TRANSPORTATION DIVISION



### Urban Range

(On Urban Pomona Loop – see other side for map)



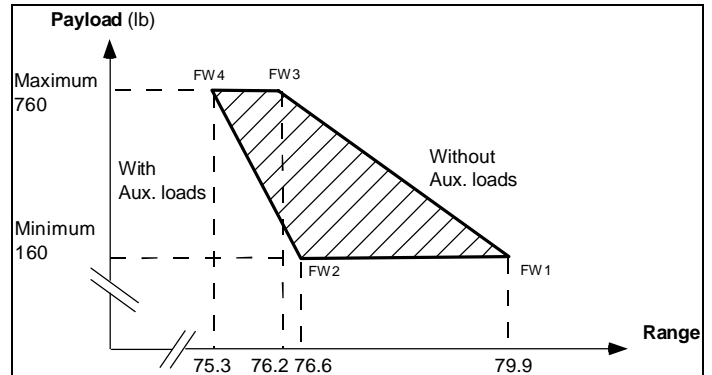
Test	UR1	UR2	UR3	UR4
<b>Payload (lb.)</b>	160	160	766	766
<b>AC kWh Recharge</b>	31.80	33.96	32.72	32.22
<b>AC kWh/mi.</b>	0.329	0.394	0.360	0.434
<b>Range (mi.)</b>	92.8	84.8	89.5	68.9
<b>Avg. Ambient Temp.</b>	68.5°F	75.3°F	80.0°F	87.0°F

Note: A/C fluctuating and may have impacted A/C tests.

<b>UR1</b>	Urban Range Test, Min Payload, No Auxiliary Loads
<b>UR2</b>	Urban Range Test, Min Payload, A/C on High, Headlights on Low, Radio On
<b>UR3</b>	Urban Range Test, Max Payload, No Auxiliary Loads
<b>UR4</b>	Urban Range Test, Max Payload, A/C on High, Headlights on Low, Radio On

### Freeway Range

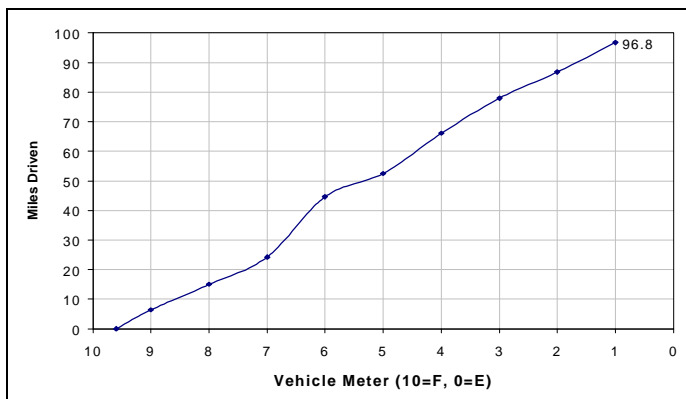
(On Freeway Pomona Loop – see other side for map)



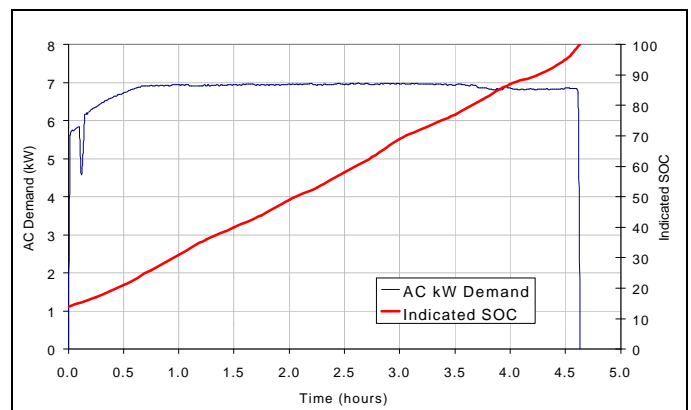
Test	FW1	FW2	FW3	FW4
<b>Payload (lb.)</b>	160	160	766	766
<b>AC kWh Recharge</b>	32.54	31.33	31.79	31.88
<b>AC kWh/mi.</b>	0.404	0.406	0.428	0.418
<b>Range (mi.)</b>	79.9	76.6	76.2	75.3
<b>Avg. Ambient Temp.</b>	89.5°F	88.0°F	79.0°F	81.0°F

<b>FW1</b>	Freeway Range Test, Min Payload, No Auxiliary Loads
<b>FW2</b>	Freeway Range Test, Min Payload, A/C on High, Headlights on Low, Radio On
<b>FW3</b>	Freeway Range Test, Max Payload, No Auxiliary Loads
<b>FW4</b>	Freeway Range Test, Max Payload, A/C on High, Headlights on Low, Radio On

### State of Charge Meter (UR1)



### Charger



MEASURED VALUE AT PEAK AC POWER	
<b>Voltage</b>	238.1 V rms
<b>Current</b>	29.39 A rms
<b>Real Power</b>	6.972 kW
<b>Reactive Power</b>	540.5 VAR
<b>Apparent Power</b>	6.997 kVA
<b>Total Power Factor</b>	1.00 PF
<b>Displacement Power Factor</b>	1.00 dPF
<b>Voltage THD</b>	1.3%
<b>Current THD</b>	3.1%
<b>Current TDD</b>	3.0 %

\* 1999 Inductive version tested.