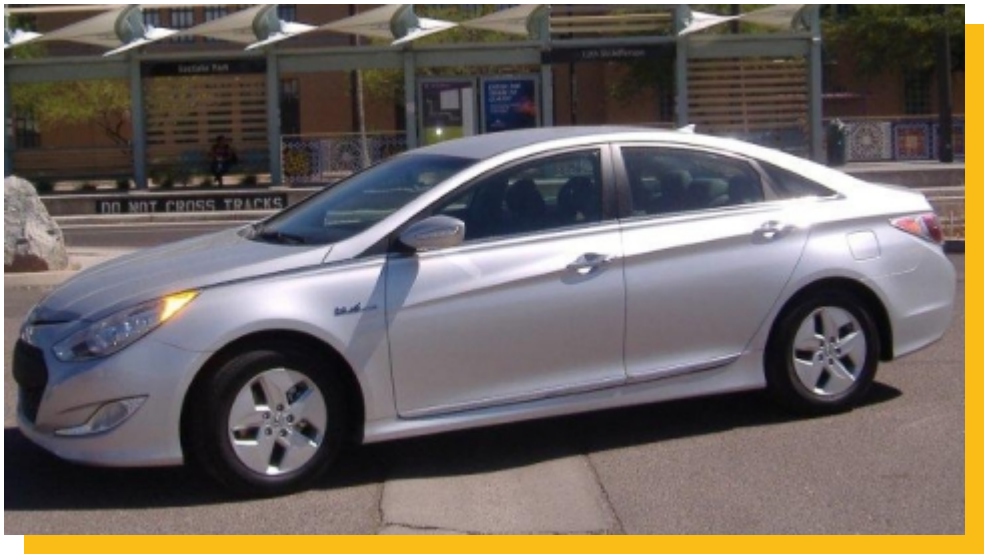
HEV Fleet Testing



2011 Hyundai Sonata

VIN: 4932

Fleet Testing Results To Date

Operating Statistics

Distance Driven[1]: 85,338

Average Trip Distance[2]: 14.8 mi

Stop Time with Engine Idling[2]: 12%

Trip Type City/Highway[2]: 78%/22%

Operating Performance

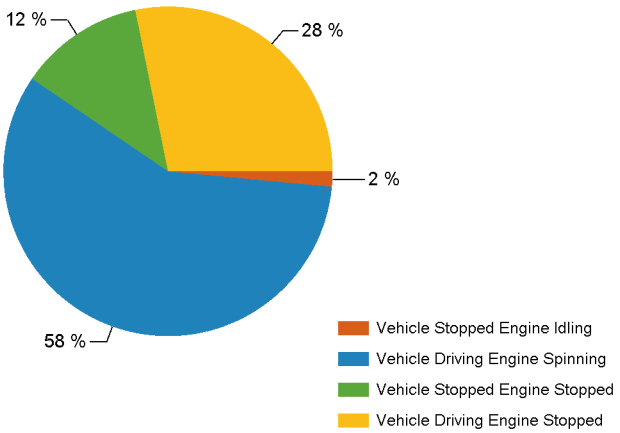
Cumulative MPG[1]: 33.4

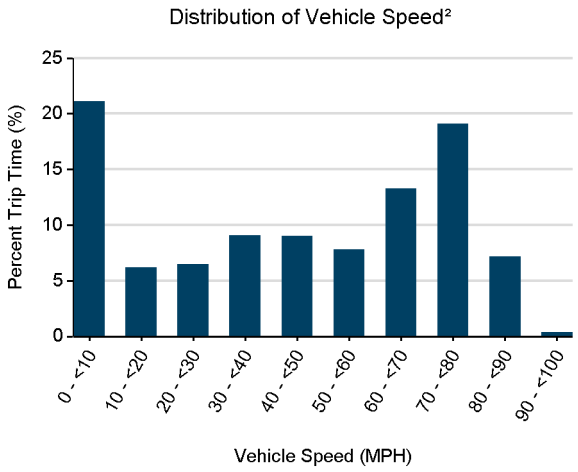
See HEV America Baseline Performance and Fleet Testing Fuel Economy fact sheets for more information on vehicle specifications and fuel usage reporting, available at http://avt.inl.gov/

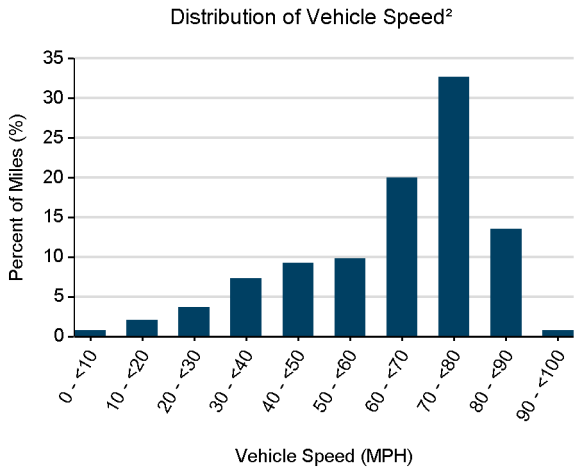
Test Notes

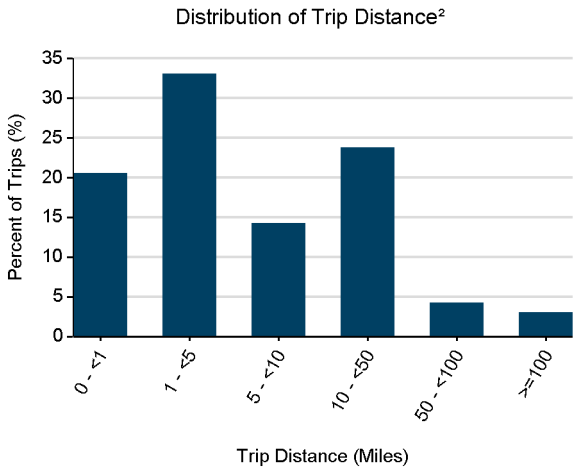
1. Calculated over the life of the vehicle based on odometer reading and fuel logs. More information available in Fleet Testing Fuel Economy sheet.
2. Calculated from electronic data logged over a subset of total miles traveled equal to 46,352 miles.
3. Fuel economy calculated for this figure using mass air flow over dynamic vehicle operation.
4. Calculated from battery current data logged over a subset of total miles traveled, equal to 46,352 miles.

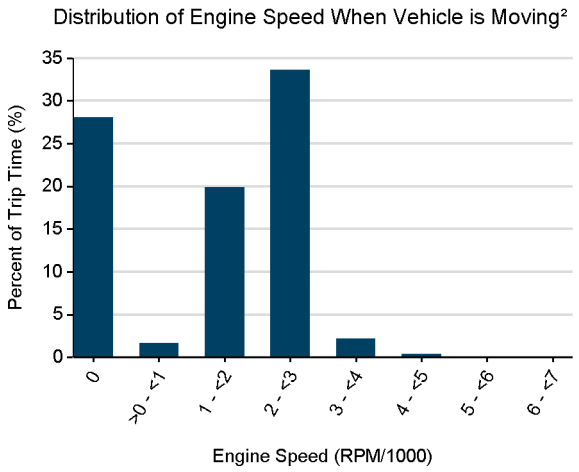
Percent of Drive Time by Operating Mode[2]

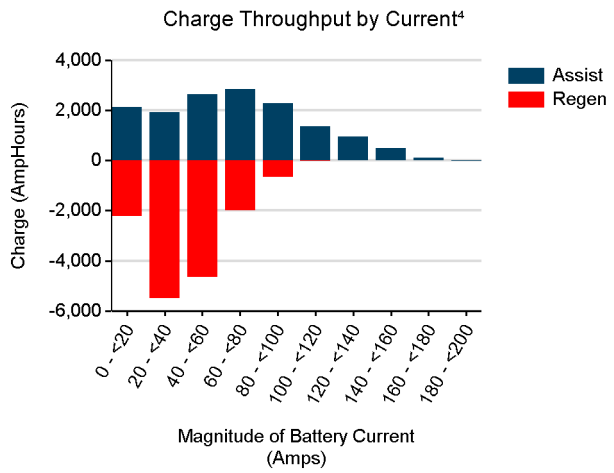


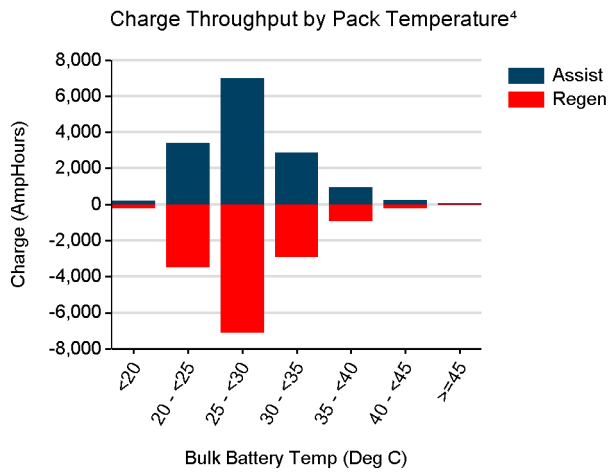

Distribution of Vehicle Speed²
Percent Trip Time (%)
0
5
10
15
20
25
0 - <10
10 - <20
20 - <30
30 - <40
40 - <50
50 - <60
60 - <70
70 - <80
80 - <90
90 - <100
Vehicle Speed (MPH)

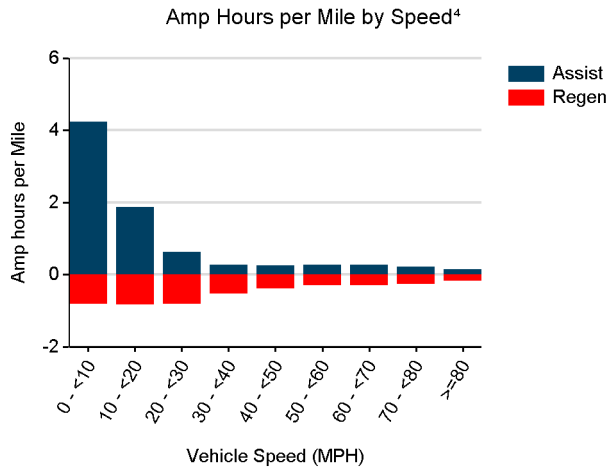

Distribution of Vehicle Speed²
Percent of Miles (%)
0
5
10
15
20
25
30
35
0 - <10
10 - <20
20 - <30
30 - <40
40 - <50
50 - <60
60 - <70
70 - <80
80 - <90
90 - <100
Vehicle Speed (MPH)

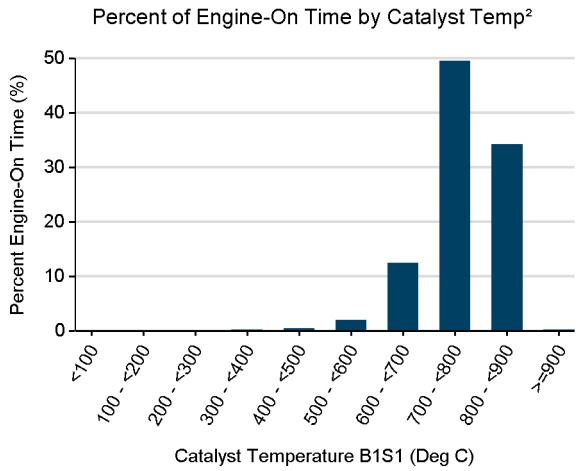

Distribution of Trip Distance²
Percent of Trips (%)
0
5
10
15
20
25
30
35
0 - <1
1 - <5
5 - <10
10 - <50
50 - <100
>=100
Trip Distance (Miles)


Distribution of Engine Speed When Vehicle is Moving²
Percent of Trip Time (%)
0
5
10
15
20
25
30
35
0
>0 - <1
1 - <2
2 - <3
3 - <4
4 - <5
5 - <6
6 - <7
Engine Speed (RPM/1000)









Total charge into battery pack (Ah)⁴: 15,013
Total charge out of battery pack (Ah)⁴: 14,735
Battery round trip efficiency⁴: 98%