

Travel Time Data and Performance Measures

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- Presented by:
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With safety in mind...what is the quickest route given the time of day, I'm traveling?

Why Collect Travel Time Data

- Identify Bottlenecks (Traffic slow downs)
- Air Quality analysis (Moves2014 input)
- Incident Evaluation (How long to clear)
- Model Calibration (How good is the Model)
- ITS (Feedback to Driving Public)

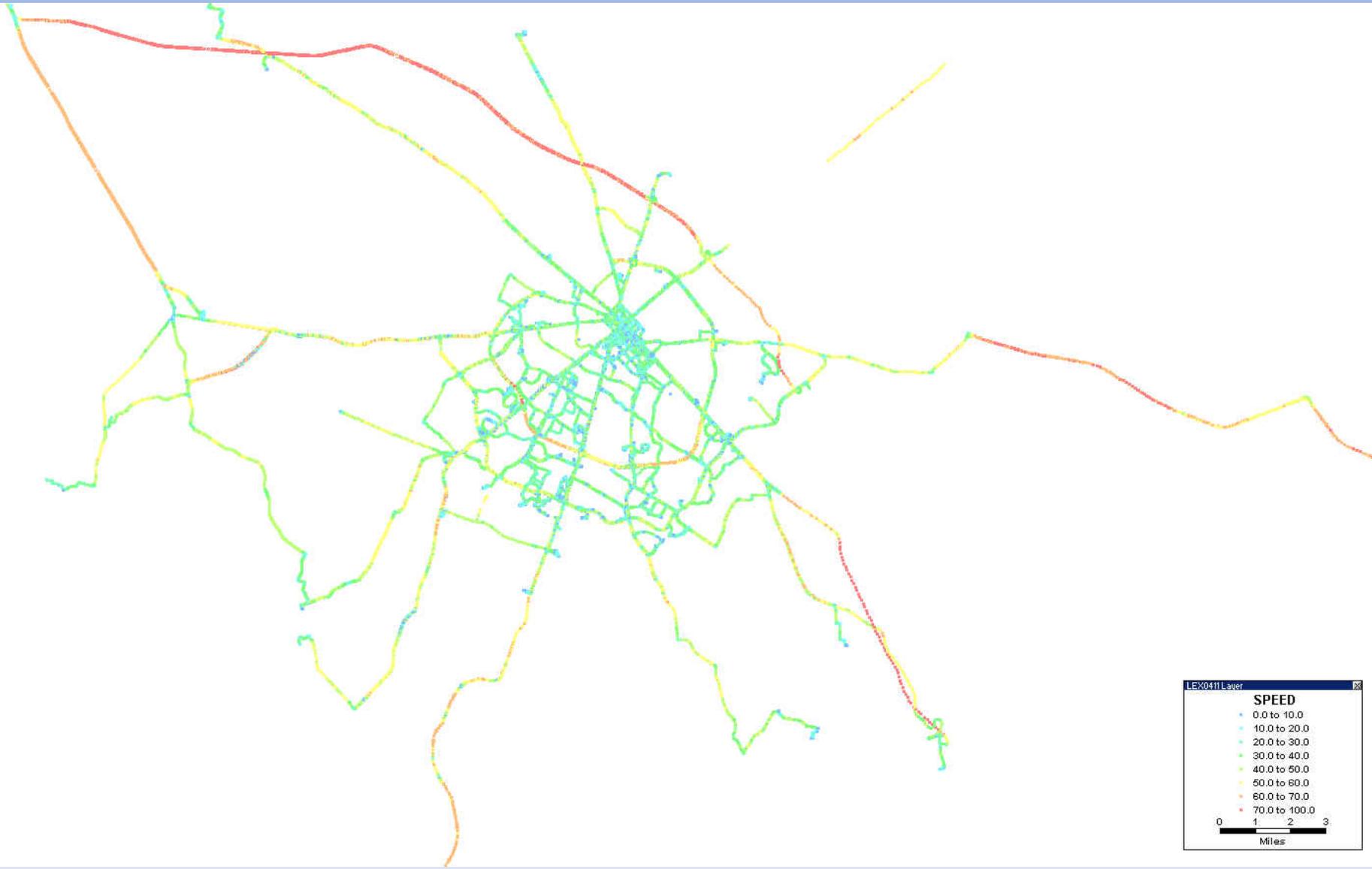
Travel Time Data Sources

Floating Car

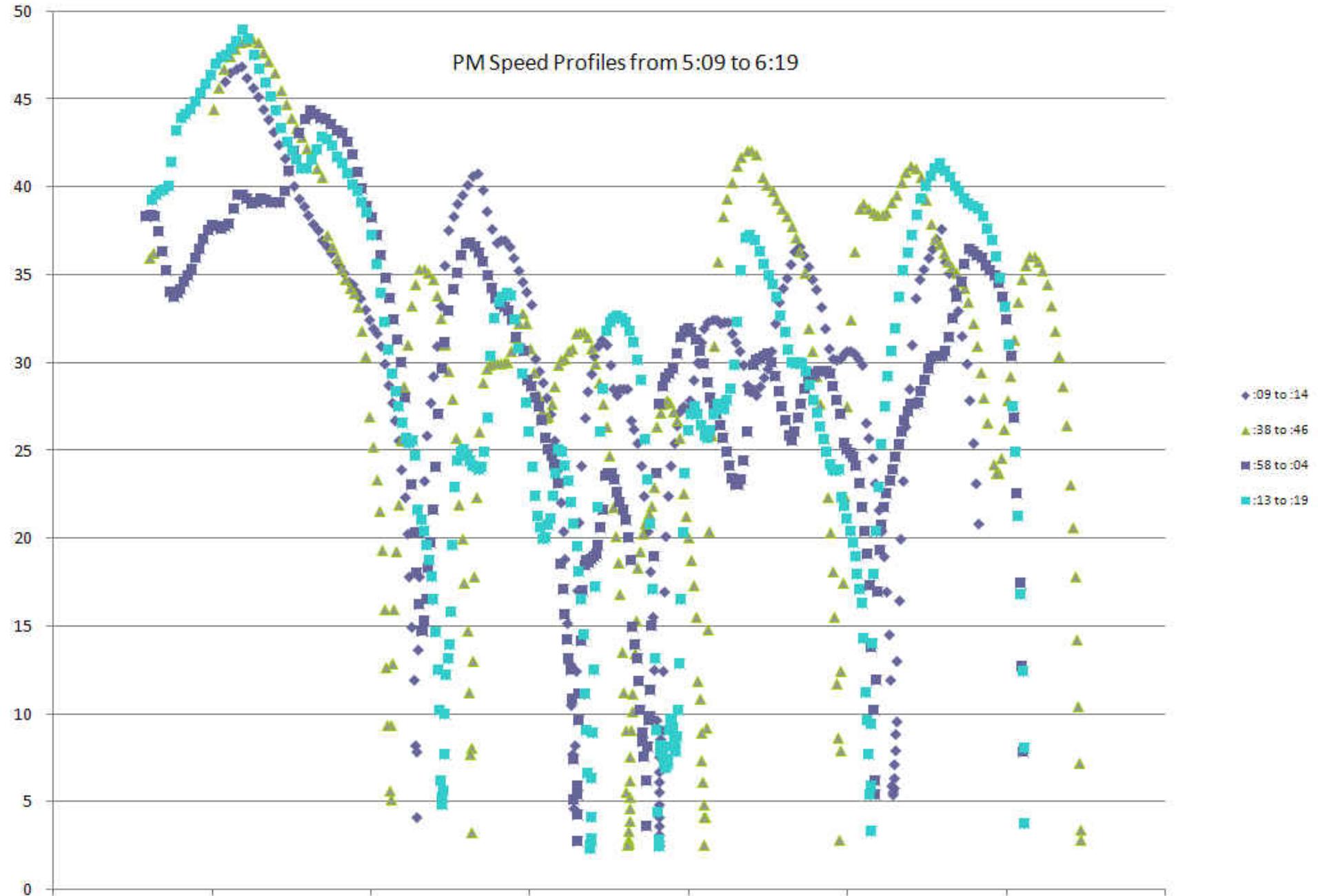
Private Sector Data

Live Bluetooth

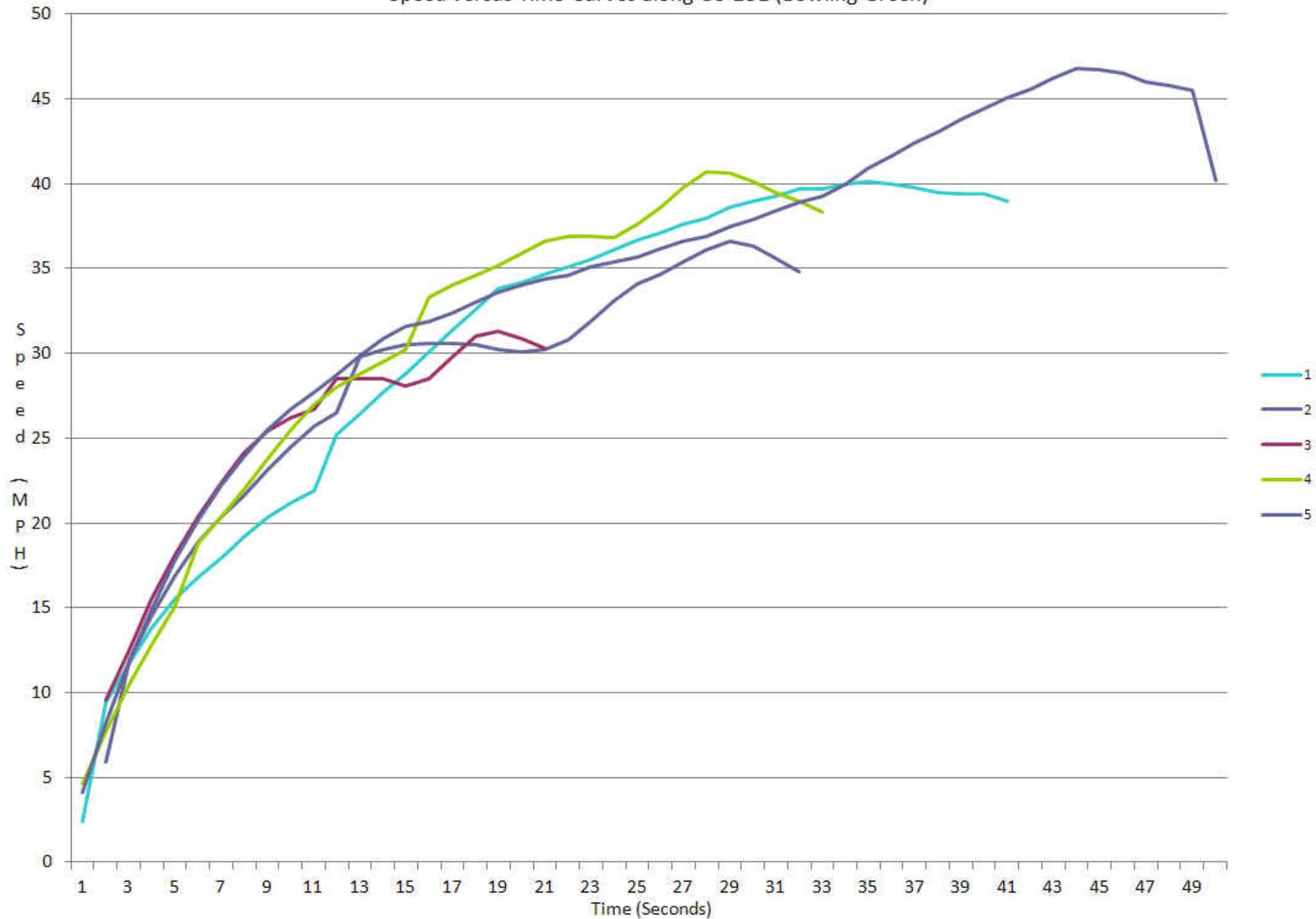
FHWA's NPMRDS



PM Speed Profiles from 5:09 to 6:19



Speed versus Time Curves along US-231 (Bowling Green)

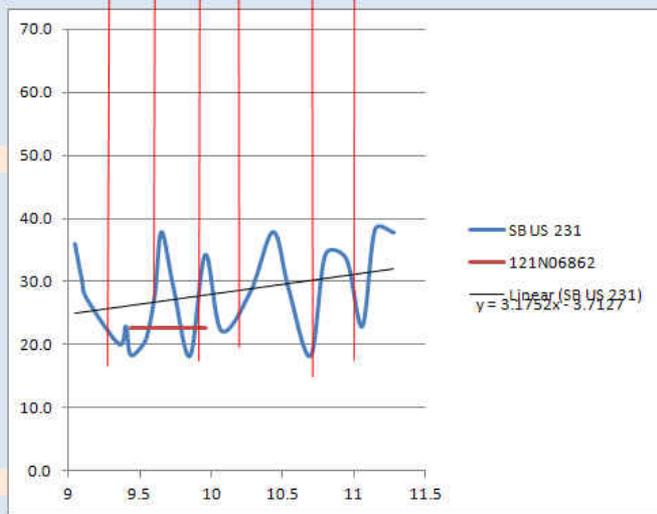
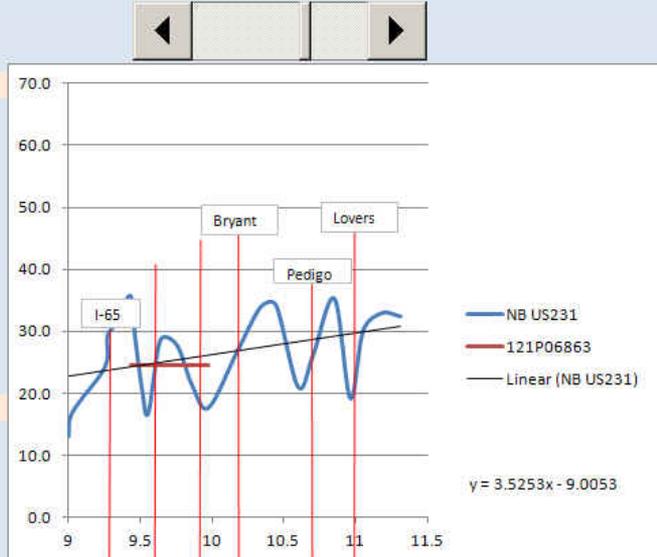


Dr. Mei Chen and
Private Sector Travel
Time Data

TIME>>>> 15.50

EPOCH 190

121N06862	"MP"	SPD	TT
37.2	9.004	13.1	2471.479
31.9	9.032469	17.1	1903.304
31.5	9.25746	24.3	33.35682
36.6	9.275362	29.2	0.017902
32.7	9.34164	31.6	0.066278
30.9	24.5 9.433055	35.8	0.091415
35.3	24.5 9.465646	29.3	0.032591
31.9	24.5 9.514205	20.9	0.048559
33.8	24.5 9.558011	16.8	0.043806
34.4	24.5 9.643306	28.6	0.085295
27.0	24.5 9.75775	27.9	0.114444
37.0	24.5 9.865129	21.3	0.107379
37.1	24.5 9.978736	17.8	0.113607
39.3	10.18097	27.0	0.20223
24.2	10.34117	34.0	0.160205
36.5	10.44837	34.3	0.107197
25.6	10.60252	21.1	0.154155
41.4	10.70658	26.3	0.104052
39.0	10.85445	35.3	0.14787
32.0	10.96527	19.2	0.110822
29.4	11.05509	30.2	0.089822
36.6	11.18652	33.0	0.131429
35.2	11.31521	32.4	0.128692
31.0			
45.5			
36.6			
40.9			
37.6			
37.3			
44.3			
44.3			
34.5			
24.0			
44.2			
21.9			
33.5			
35.3			
40.9			
31.6			



HOUR>>>> 15.50

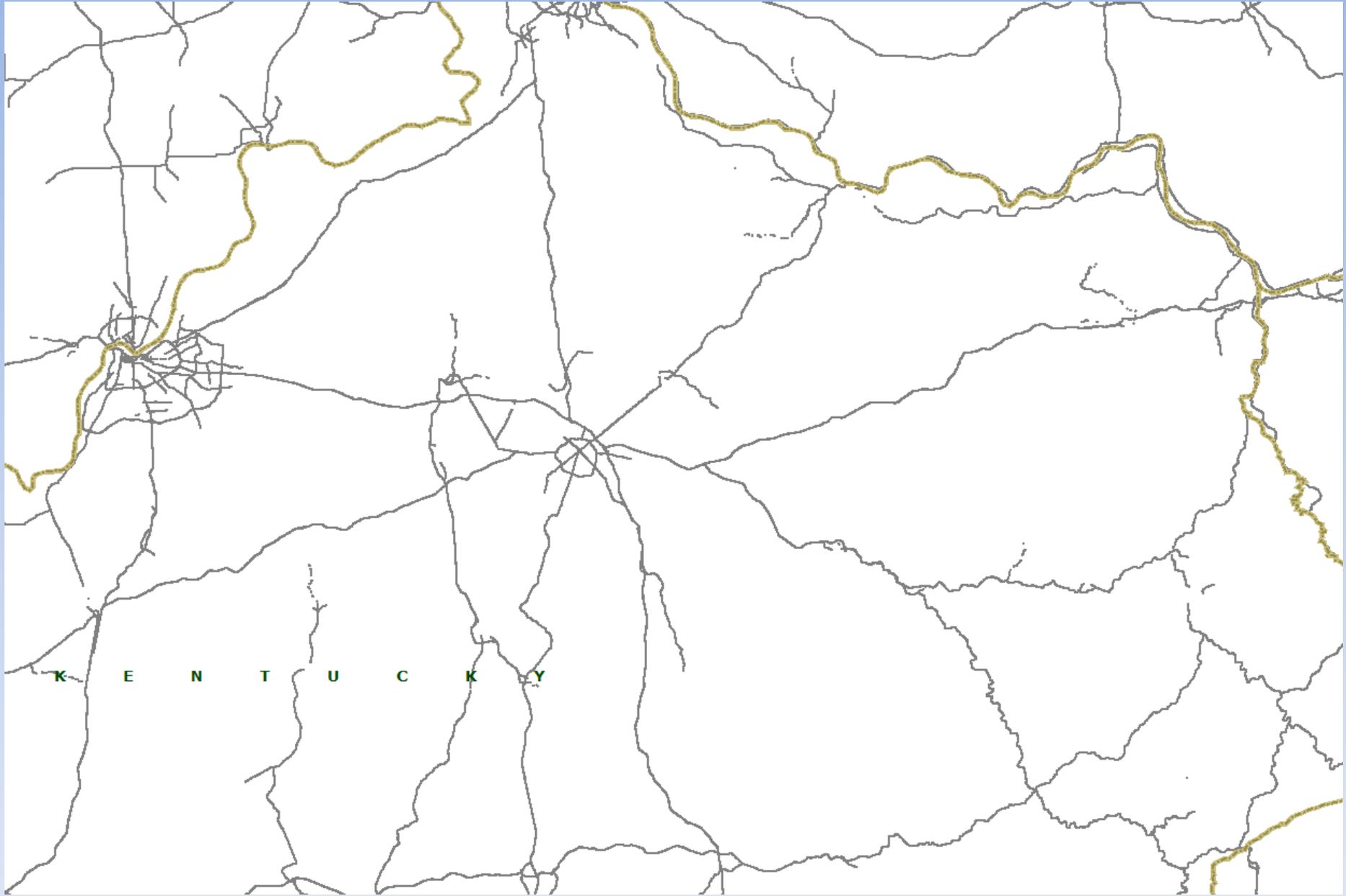
EPOCH 190

"MP"	SPD	TT
11.281	37.8	1074.914
11.14957	38.3	1048.636
11.05975	22.9	-14.1505
10.94893	33.6	0.017902
10.80106	34.3	0.066278
10.69701	18.2	0.091415
10.54285	28.9	0.032591
10.43565	37.9	0.048559
10.27545	28.3	0.043806
10.07322	22.2	0.085295
9.959611	34.3	0.114444
9.852232	18.2	0.107379
9.737788	28.9	0.113607
9.652493	37.9	0.20223
9.608687	28.3	0.160205
9.560128	22.2	0.107197
9.527537	20.1	0.154155
9.436122	18.3	0.104052
9.403351	22.9	0.14787
9.353676	20.1	0.110822
9.12529	27.4	0.089822
9.096076	30.1	0.131429
9.046208	36.0	0.128692

Length

LINK_ID_DIR

Steve Cummins and Bluetooth technology



So Which is Best?

- Floating Car provides:
 - Acceleration/Deceleration Data
- Private Sector Data
 - Extensive & Seasonal Data
- Bluetooth (Bluetoad)
 - Current or Real Time Data
- FHWA NPMRDS
 - Historical & Daily Truck Travel Time Data

Thank You for your interest!