

# Southern Windsor County 2011 Traffic Count Program Summary

May 2012



The Southern Windsor County Regional Planning Commission (the “RPC”) regularly monitors traffic at 19 locations throughout the southern Windsor County region (the “Region”). Traffic is monitored through the use of automatic traffic counters, which track three types of traffic related data:

- Traffic volume (number of vehicle trips at a specified location);
- Vehicle classification (passenger car, pick-up truck, tractor trailer, etc.); and,
- Approximate speed of the vehicles.

The RPC collects and analyzes the traffic data as part of their annual transportation program. This information is valuable in understanding traffic flow trends over time and to support the decision-making process related to road maintenance and project development.

The goals of the annual traffic count program are to:

- Provide better data to support the Regional Transportation Plan and planning process;
- Address local concerns with traffic on the Region’s roadways;
- Compile accurate traffic data bi-annually on a long-term basis to help guide future improvements of the southern Windsor County transportation network; and,
- Collect accurate traffic data for the Region will facilitate more constructive conversation of traffic in general.

The Vermont Agency of Transportation (VTrans) has a large, Statewide traffic count program. VTrans counters are typically placed out at each location once every three or four years. The RPC traffic count program is intended to supplement VTrans’ traffic data in this Region. The RPC also performs traffic counts at the request of towns on a limited first-come, first-served basis. Please contact the transportation planner for more information.



*Vicinity Map – Southern Windsor County*

## 2011 Traffic Counts

The table below lists the location of the 19 regular traffic counts in the Region. Between 1999 and 2007, traffic count data were collected annually, with a few exceptions. Since 2008 data has been collected every other year.

The following counts are collected every other year:

Station	Town	Route/Road	Location
1	LUDLOW	VT 103	100' NORTH OF WEST HILL RD (TH 362)
2*	CAVENDISH	VT 131	50' WEST OF POWER PLANT ROAD (TH68)
3	READING	VT 106	500' SOUTH OF FELTCHVILLE SCHOOL ENTRANCE
4	CHESTER	VT 11	100' WEST OF LACROSS RD (SPR TH 15)
5	SPRINGFIELD	VT 106	400' SOUTH OF VT 10
6	CHESTER	VT 10	1000' WEST OF NORTH MAIN STREET (SPRI. TH 6)
7	CAVENDISH	VT 103	1000' SOUTH OF RT 131
8	LUDLOW	VT 100	1000' NORTH OF VT 103
9	LUDLOW	HIGH ST (TH 4)	100' WEST OF GILL TERRACE (TH 312)
10	LUDLOW	DUG RD (TH 4)	50' WEST OF PROSPECT ST

11	WEATHERSFIELD	US 5	500' SOUTH OF WILGUS STATE PARK ENTRANCE
12	READING	TYSON RD (TH 1)	50' WEST OF PUCKERBRUSH RD (TH 48)
13	WEST WINDSOR	BROWNSVILLE-HARTLAND RD (TH 1)	0.6 MILES NORTH OF VT 44
14	WEATHERSFIELD	CENTER RD (TH 1)	50' SOUTH OF JEFFREY LANE (TH 98)
15	CAVENDISH	DEPOT ST (TH 1)	200' SOUTH OF GM RAILROAD
16	WINDSOR	US 5	100' NORTH OF CEDAR HILL DR
17	WEATHERSFIELD	VT 106	50' NORTH OF HIGH STREET (BY PERKINSVILLE GREEN)
18	CAVENDISH	TWENTY MILE STREAM RD (TH 3)	0.5 MILE NORTH OF VT 131
19	SPRINGFIELD	RESERVOIR RD (TH 9)	AT WEATHERSFIELD/ SPRINGFIELD TOWN LINE
* The location was temporarily moved in 2010 - from 50 ft west of Power Plant Road (TH68) to 50ft west of Carlton Road			

In 2011, the following additional counts were carried out in the Region by town request or for special projects:

Station	Town	Route/Road	Location	Reason
2011_20	WINDSOR	RUTH CARNEY DR	Just east of Route 5	Turning Mvt Count
2011_21	WINDSOR	ROUTE 5	North of Ruth Carney Drive	Turning Mvt Count
2011_22	WEATHERSFIELD	WELLWOOD ORCHARD RD	North of Reservoir Road	HRRR
2011_24	SPRINGFIELD	FRENCH MEADOW RD	Just south of trail - next to meadow	HRRR
2011_25	SPRINGFIELD	FRENCH MEADOW RD	Just north of Baker Rd - next to 809 French Meadow Rd	HRRR
2011_26	WEATHERSFIELD	THRASHER ROAD	0.12 miles west of US 5	Speed Study
2011_27	WEATHERSFIELD	THRASHER ROAD	0.2 miles east of I-91 overpass	Speed Study
2011_28	WEATHERSFIELD	MAPLE STREET	0.25 miles east of VT106	Speed Study
2011_29	WEATHERSFIELD	QUARRY ROAD	0.15 miles west of VT106	Speed Study
2011_30	CHESTER	VT 103	0.25 miles south of VT10	
2011_32	LUDLOW	EAST LAKE ROAD	Next to 745 East Lake Rd	Speed Study

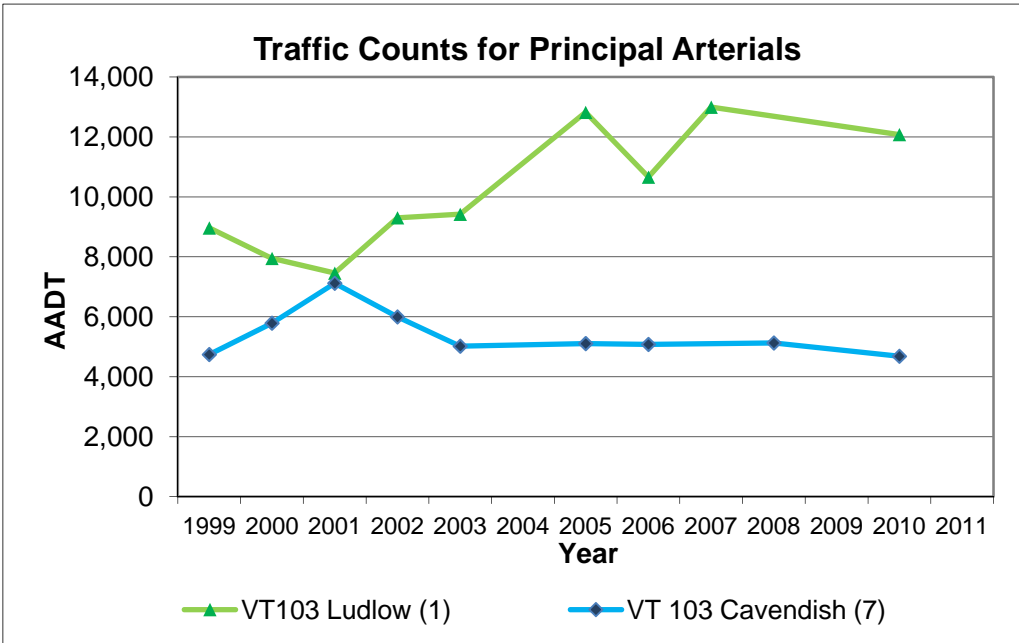
Each location is typically surveyed for one to two weeks, avoiding periods of irregular traffic flows, such as July 4<sup>th</sup> or Labor Day weekend. These data are presented in terms of Average Daily Traffic, Average Weekday Traffic and Annual Average Daily Traffic. Data are also summarized in this report including vehicle classification as a percentage of the total traffic volume and vehicle speed. The terms and abbreviations used in this report are defined on the final page.

Traffic count data are also provided to VTrans and are published online at [www.aot.state.vt.us/Planning/Documents/TrafResearch/Publications/pub.htm](http://www.aot.state.vt.us/Planning/Documents/TrafResearch/Publications/pub.htm). Counts from most locations are available in the "Automatic Traffic Recorder Station History" reports and include interstates and state highways as well as some local roads. Some of the counts also have information about what type of vehicles used the roads ("Automatic Vehicle Classification Reports").

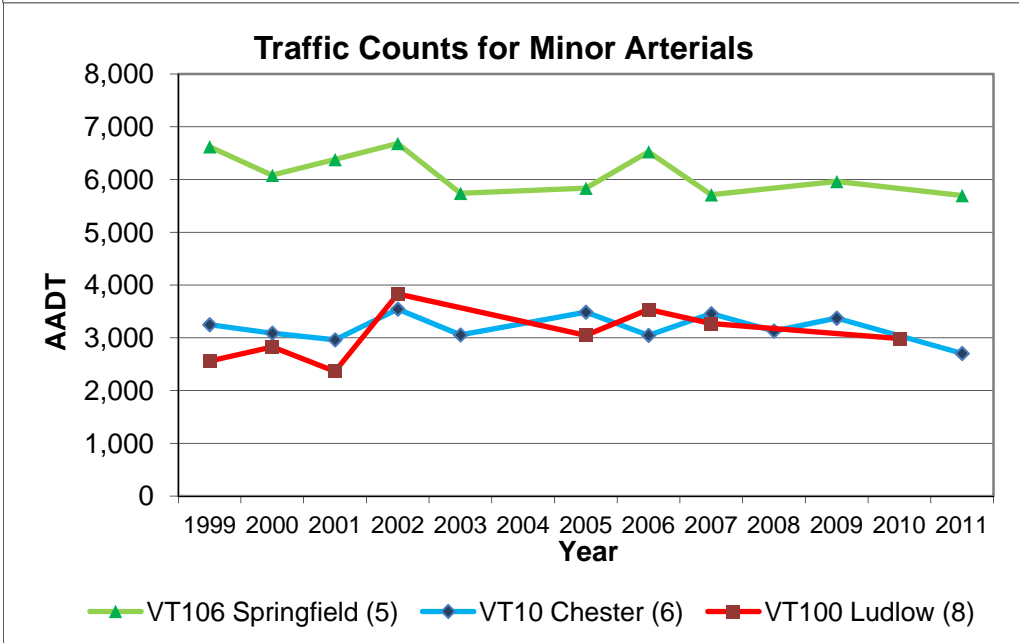
### 2011 Traffic Count Summary

This section contains a summary of the annual traffic count data, including AADT since the program began in 1999. More detailed summaries of each 2011 count locations are included in this report. AADT calculations are based on the 2011 Continuous Traffic Counter Grouping Study and Regression Analysis ("Red Book", VTrans, 2012). Raw data is available by request through the transportation planner.

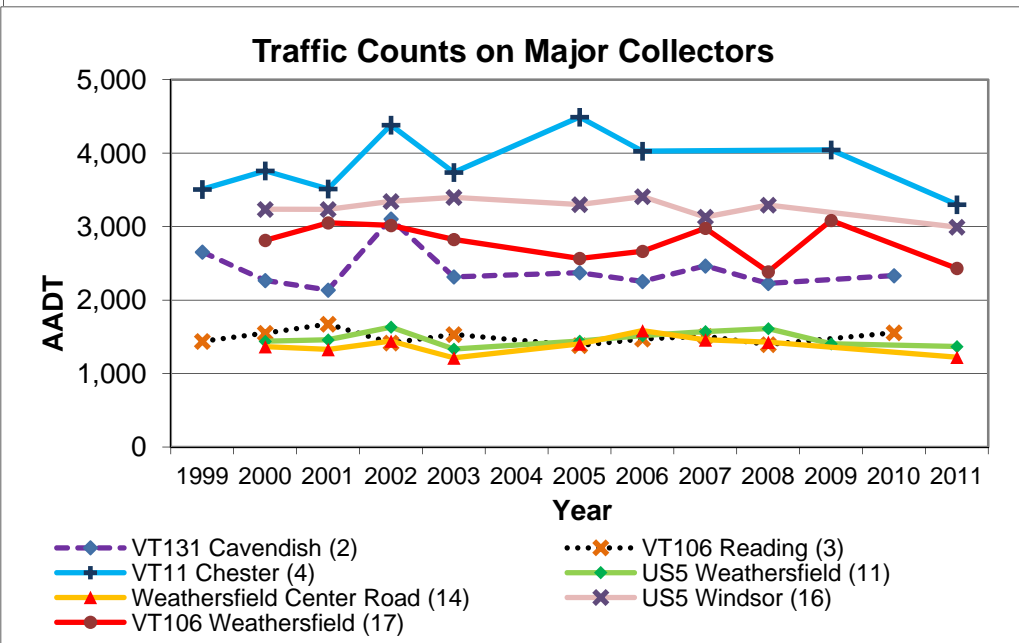
The following graphs show traffic volumes by year at each location. The tables are organized by the functional classification of each roadway.



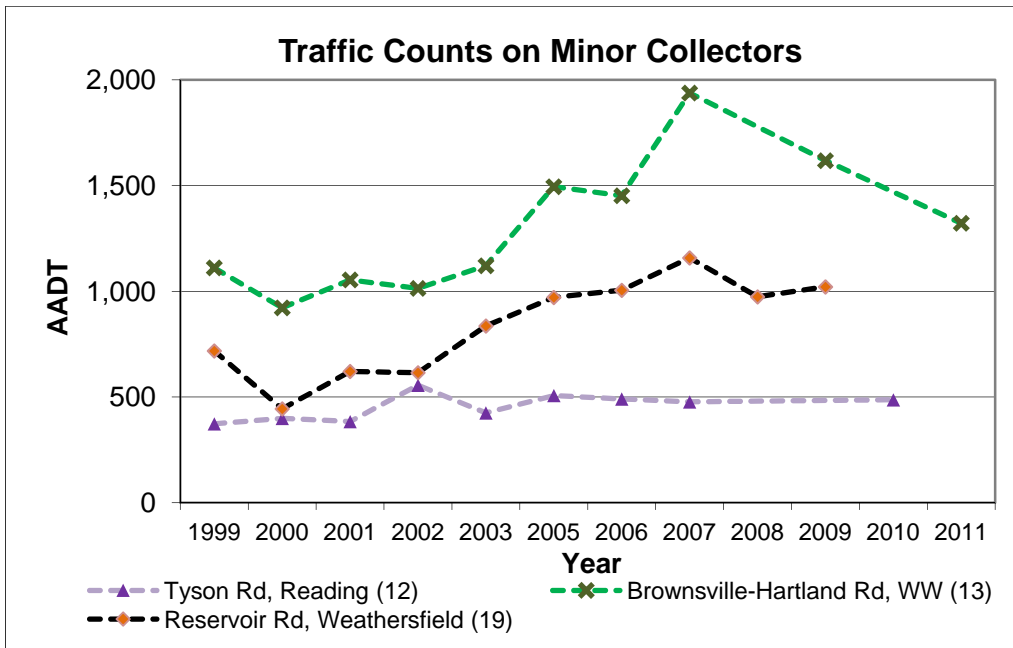
**Principal Arterial**  
Principal Arterial roads are designed to carry large volumes of traffic for long distances, and include I-91 and VT Route 103 in this Region. They are usually characterized by controlled access, channelized intersections and restricted parking, and link Minor Arterials.



**Minor Arterial**  
Minor Arterial roads usually have signals or stop signs at intersection with side streets, and function primarily to distribute traffic to and from collector streets. Minor arterials include VT Routes 10, 11 (west of VT-103) and 100 in this Region.

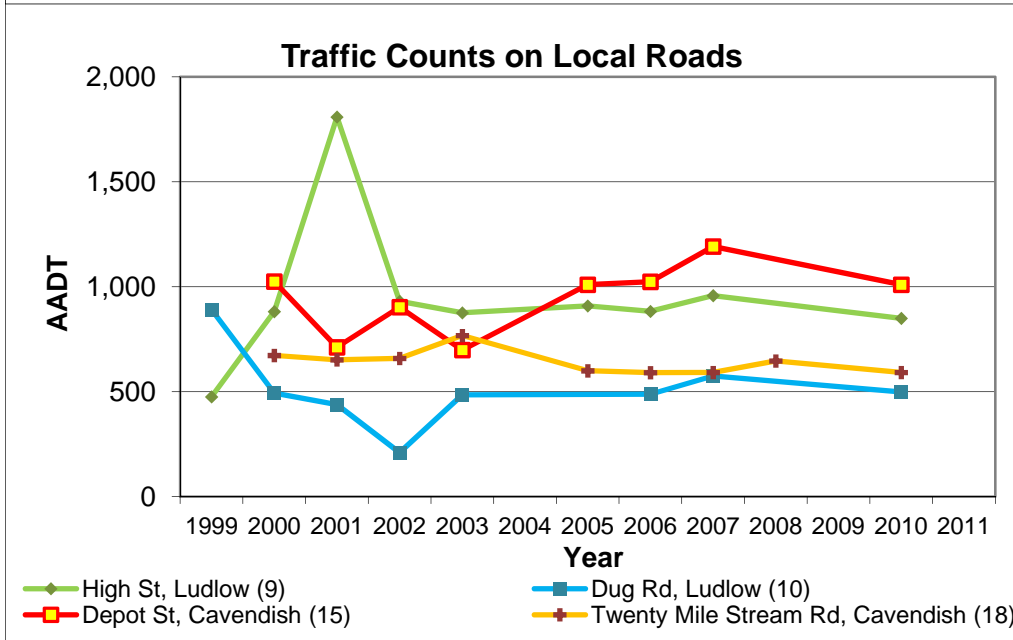


**Major Collector**  
Collector roads channel traffic from lesser traveled roads to the arterial system. Major collectors generally serve traffic between towns and communities, and include US Route 5, VT Routes 106 and 131, and certain local roads including Weathersfield Center Road and Grafton Road.



**Minor Collector**

Minor collectors generally collect traffic from local roads and bring all developed areas within a reasonable distance of a collector road. This includes Tyson Road, Brownsville-Hartland Road and Reservoir Road.



**Local Roads**

Local roads primarily provide access to adjacent lands, and generally have limited through traffic. Local roads surveyed in this program are typically Class 2 town highways which serve as important links between communities.

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 4**

Time Period: 8/10/2011 thru 8/13/2011  
 Count ID: CHE004CLS/SPD  
 Town: Chester, VT  
 Road: VT 11  
 Location: 100' west of Lacross Road (Spr TH 15)

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	4,127
Average Weekend Traffic	3,399
Average Daily Traffic	3,945
Annual Average Daily Traffic	3,299

Day	Date	Vehicle Volumes			Vehicle Class			Total
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	8/10/2011	2,056	1,953	4,009				
T	8/11/2011	2,104	1,977	4,081				
F	8/12/2011	2,188	2,104	4,292				
S	8/13/2011	1,759	1,640	3,399				
<b>TOTAL</b>		<b>8,107</b>	<b>7,674</b>	<b>15,781</b>	<b>14,246</b>	<b>1,183</b>	<b>352</b>	<b>15,781</b>
<b>AVERAGE DAILY</b>		<b>2,027</b>	<b>1,919</b>	<b>3,945</b>	<b>90.3%</b>	<b>7.5%</b>	<b>2.2%</b>	<b>100.0%</b>

**Posted Speed Limit: 50 mph**

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
55	54	60

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
54	54	59

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 5**

Time Period: 8/10/2011 thru 8/13/2011  
 Count ID: SPRI005CLS/SPD  
 Town: Springfield, VT.  
 Road: VT 106  
 Location: 400' South of VT 10

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	7,199
Average Weekend Traffic	5,644
Average Daily Traffic	6,810
Annual Average Daily Traffic	5,696

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	8/10/2011	3,521	3,589	7,110				
T	8/11/2011	3,558	3,576	7,134				
F	8/12/2011	3,695	3,657	7,352				
S	8/13/2011	2,827	2,817	5,644				
<b>TOTAL</b>		<b>13,601</b>	<b>13,639</b>	<b>27,240</b>	<b>24,961</b>	<b>1,816</b>	<b>463</b>	<b>27,240</b>
<b>AVERAGE DAILY</b>		<b>3,400</b>	<b>3,410</b>	<b>6,810</b>	<b>91.6%</b>	<b>6.7%</b>	<b>1.7%</b>	<b>100.0%</b>

**Posted Speed Limit: 40 mph**

<b>Vehicle Speeds (mph) Northbound</b>		
Median	Average	85th Percentile
<b>44</b>	<b>43</b>	<b>49</b>

<b>Vehicle Speeds (mph) Southbound</b>		
Median	Average	85th Percentile
<b>43</b>	<b>42</b>	<b>48</b>

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 6**

Time Period: 8/10/2011 thru 8/13/2011  
 Count ID: CHE006CLS/SPD  
 Town: Chester, VT  
 Road: VT 10  
 Location: 1000' west of North Main Street (No. Spri. TH 6)

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	3,383
Average Weekend Traffic	2,773
Average Daily Traffic	3,231
Annual Average Daily Traffic	2,703

Day	Date	Vehicle Volumes			Vehicle Class			Total
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	8/10/2011	1,648	1,665	3,313				
T	8/11/2011	1,680	1,677	3,357				
F	8/12/2011	1,778	1,702	3,480				
S	8/13/2011	1,416	1,357	2,773				
<b>TOTAL</b>		<b>6,522</b>	<b>6,401</b>	<b>12,923</b>	<b>11,508</b>	<b>1,091</b>	<b>324</b>	<b>12,923</b>
<b>AVERAGE DAILY</b>		<b>1,631</b>	<b>1,600</b>	<b>3,231</b>	<b>89.1%</b>	<b>8.4%</b>	<b>2.5%</b>	<b>100.0%</b>

**Posted Speed Limit: 50 mph**

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
<b>44</b>	<b>44</b>	<b>49</b>

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
<b>45</b>	<b>45</b>	<b>50</b>

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (*2011 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 11**

Time Period: 7/27/2011 thru 8/1/2011  
 Count ID: WEA011CLS/SPD  
 Town: Weathersfield, VT  
 Road: US 5  
 Location: 500' South of Wilgus State Park entrance

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	1,555
Average Weekend Traffic	1,621
Average Daily Traffic	1,577
Annual Average Daily Traffic	1,368

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	7/27/2011	828	772	1,600				
T	7/28/2011	795	750	1,545				
F	7/29/2011	782	759	1,541				
S	7/30/2011	871	828	1,699				
S	7/31/2011	812	731	1,543				
M	8/1/2011	815	720	1,535				
<b>TOTAL</b>		<b>4,903</b>	<b>4,560</b>	<b>9,463</b>	<b>9,045</b>	<b>329</b>	<b>89</b>	<b>9,463</b>
<b>AVERAGE DAILY</b>		<b>817</b>	<b>760</b>	<b>1,577</b>	<b>95.6%</b>	<b>3.5%</b>	<b>0.9%</b>	<b>100.0%</b>

**Posted Speed Limit: 40 mph\***

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
<b>46</b>	<b>46</b>	<b>52</b>

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
<b>44</b>	<b>44</b>	<b>50</b>

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

\*Location is close to transition of 50 to 40 mph



**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 13**

Time Period: 8/3/2011 thru 8/8/2011  
 Count ID: WW013CLS/SPD  
 Town: West Windsor, VT  
 Road: Brownsville-Hartland Road (TH1)  
 Location: 0.6 miles North of VT 44

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	1,174
Average Weekend Traffic	1,013
Average Daily Traffic	1,120
Annual Average Daily Traffic	1,322

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	8/3/2011	606	617	1,223				
T	8/4/2011	575	623	1,198				
F	8/5/2011	566	607	1,173				
S	8/6/2011	549	556	1,105				
S	8/7/2011	463	458	921				
M	8/8/2011	540	561	1,101				
<b>TOTAL</b>		<b>3,299</b>	<b>3,422</b>	<b>6,721</b>	<b>6,290</b>	<b>303</b>	<b>128</b>	<b>6,721</b>
<b>AVERAGE DAILY</b>		<b>550</b>	<b>570</b>	<b>1,120</b>	<b>93.6%</b>	<b>4.5%</b>	<b>1.9%</b>	<b>100.0%</b>

**Posted Speed Limit: 40 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
40	40	45

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
42	41	47

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (*2011 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2012)
- AADTs calculated using Daily Adjustment Factors for "Recreation - Town Highways" rather than "Rural Primary and Secondary Roads", despite closure of Mt Ascutney

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 14**

Time Period: 8/3/2011 thru 8/8/2011  
 Count ID: WEA014CLS/SPD  
 Town: Weathersfield, VT  
 Road: Center Road (TH 1)  
 Location: 50 feet south of Jeffrey Ln (TH 98)

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	1,481
Average Weekend Traffic	1,221
Average Daily Traffic	1,395
Annual Average Daily Traffic	1,223

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	8/3/2011	726	748	1,474				
T	8/4/2011	781	780	1,561				
F	8/5/2011	768	771	1,539				
S	8/6/2011	587	659	1,246				
S	8/7/2011	586	610	1,196				
M	8/8/2011	659	692	1,351				
<b>TOTAL</b>		<b>4,107</b>	<b>4,260</b>	<b>8,367</b>	<b>7,854</b>	<b>484</b>	<b>29</b>	<b>8,367</b>
<b>AVERAGE DAILY</b>		<b>685</b>	<b>710</b>	<b>1,395</b>	<b>93.9%</b>	<b>5.8%</b>	<b>0.3%</b>	<b>100.0%</b>

**Posted Speed Limit: 40 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
47	47	54

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
48	48	54

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 16**

Time Period: 8/3/2011 thru 8/8/2011  
 Count ID: WIN016CLS/SPD  
 Town: Windsor, VT  
 Road: US 5  
 Location: 100 feet north of Cedar Hill Drive

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	3,644
Average Weekend Traffic	2,969
Average Daily Traffic	3,419
Annual Average Daily Traffic	2,993

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	8/3/2011	1,764	1,839	3,603				
T	8/4/2011	1,743	1,972	3,715				
F	8/5/2011	1,892	2,008	3,900				
S	8/6/2011	1,542	1,697	3,239				
S	8/7/2011	1,277	1,422	2,699				
M	8/8/2011	1,634	1,724	3,358				
<b>TOTAL</b>		<b>9,852</b>	<b>10,662</b>	<b>20,514</b>	<b>19,467</b>	<b>842</b>	<b>205</b>	<b>20,514</b>
<b>AVERAGE DAILY</b>		<b>1,642</b>	<b>1,777</b>	<b>3,419</b>	<b>94.9%</b>	<b>4.1%</b>	<b>1.0%</b>	<b>100.0%</b>

**Posted Speed Limit: 40 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
<b>44</b>	<b>44</b>	<b>49</b>

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
<b>47</b>	<b>46</b>	<b>51</b>

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (*2011 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2012)
- Speed limit was recently lowered from 50 mph to 40 mph

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 17**

Time Period: 7/27/2011 thru 8/1/2011  
 Count ID: WEA017CLS/SPD  
 Town: Weathersfield, VT.  
 Road: VT 106  
 Location: 50' north of High Street (by Perkinsville Green)

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	2,736
Average Weekend Traffic	2,988
Average Daily Traffic	2,820
Annual Average Daily Traffic	2,432

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	7/27/2011	1,492	1,519	3,011				
T	7/28/2011	1,493	1,471	2,964				
F	7/29/2011	1,495	1,541	3,036				
S	7/30/2011	1,385	1,347	2,732				
S	7/31/2011	1,159	1,198	2,357				
M	8/1/2011	1,416	1,401	2,817				
<b>TOTAL</b>		<b>8,440</b>	<b>8,477</b>	<b>16,917</b>	<b>14,934</b>	<b>1,613</b>	<b>370</b>	<b>16,917</b>
<b>AVERAGE DAILY</b>		<b>1,407</b>	<b>1,413</b>	<b>2,820</b>	<b>88.3%</b>	<b>9.5%</b>	<b>2.2%</b>	<b>100.0%</b>

**Posted Speed Limit: 35 mph**

<b>Vehicle Speeds (MPH) Northbound</b>		
Median	Average	85th Percentile
<b>34</b>	<b>34</b>	<b>40</b>

<b>Vehicle Speeds (MPH) Southbound</b>		
Median	Average	85th Percentile
<b>35</b>	<b>35</b>	<b>40</b>

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

Station # 20

Time Period: 5/4/2011 through 5/9/2011  
 Count ID: WIN20CLS/SPD  
 Town: Windsor, VT  
 Road: Ruth Carney Drive  
 Location: South of Route 5

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	519
Average Weekend Traffic	458
Average Daily Traffic	499
Annual Average Daily Traffic	491

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
W	5/4/2011	221	219	440				
T	5/5/2011	300	291	591				
F	5/6/2011	311	318	629				
S	5/7/2011	269	266	535				
S	5/8/2011	191	190	381				
M	5/9/2011	207	210	417				
<b>TOTAL</b>		<b>1,499</b>	<b>1,494</b>	<b>2,993</b>				
<b>AVERAGE DAILY</b>		<b>250</b>	<b>249</b>	<b>499</b>				

Posted Speed Limit: None posted (50mph)

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
19	19	31

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
18	18	31

NOTES:

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

Preparation for turning movement count

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 21**

Time Period: 5/4/2011 through 5/9/2011  
 Count ID: WIN21CLS/SPD  
 Town: Windsor, VT  
 Road: US 5  
 Location: North of Ruth Carney Drive

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	5,328
Average Weekend Traffic	3,850
Average Daily Traffic	4,835
Annual Average Daily Traffic	4,760

Day	Date	Vehicle Volumes			Vehicle Class		
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks
W	5/4/2011	2,530	2,538	5,068			
T	5/5/2011	2,678	2,588	5,266			
F	5/6/2011	2,931	2,825	5,756			
S	5/7/2011	2,123	2,056	4,179			
S	5/8/2011	1,802	1,718	3,520			
M	5/9/2011	2,627	2,595	5,222			
<b>TOTAL</b>		<b>14,691</b>	<b>14,320</b>	<b>29,011</b>			
<b>AVERAGE DAILY</b>		<b>2,449</b>	<b>2,387</b>	<b>4,835</b>			

**Posted Speed Limit: 50 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
<b>46</b>	<b>44</b>	<b>50</b>

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
<b>45</b>	<b>44</b>	<b>50</b>

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

Preparation for turning movement count

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 22**

Time Period: 05/19/11 through 06/01/11  
 Count ID: WEA22CLS/SPD  
 Town: Weathersfield, VT  
 Road: Wellwood Orchard Road (TH 62)  
 Location: East of Reservoir Road (just before first bend)

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	562
Average Weekend Traffic	436
Average Daily Traffic	526
Annual Average Daily Traffic	473

Day	Date	Vehicle Volumes			Vehicle Class			
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
T	5/19/2011	298	259	557				
F	5/20/2011	303	297	600				
S	5/21/2011	239	222	461				
S	5/22/2011	182	142	324				
M	5/23/2011	233	261	494				
T	5/24/2011	298	258	556				
W	5/25/2011	293	296	589				
T	5/26/2011	313	282	595				
F	5/27/2011	326	279	605				
S	5/28/2011	260	240	500				
S	5/29/2011	238	221	459				
M	5/30/2011	233	220	453				
T	5/31/2011	291	289	580				
W	6/1/2011	301	289	590				
<b>TOTAL</b>		<b>3,808</b>	<b>3,555</b>	<b>7,363</b>	<b>6,751</b>	<b>585</b>	<b>27</b>	<b>7,363</b>
<b>AVERAGE DAILY</b>		<b>272</b>	<b>254</b>	<b>526</b>	<b>91.7%</b>	<b>7.9%</b>	<b>0.4%</b>	<b>100.0%</b>

Posted Speed Limit: *Not listed (50 mph)*

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
18	18	30

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
18	18	30

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 24**

Time Period: 06/03/11 through 06/10/11  
 Count ID: SPR24CLS/SPD  
 Town: Springfield, VT  
 Road: French Meadow Road (TH 8)  
 Location: Just south of trail opposite meadow

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	222
Average Weekend Traffic	195
Average Daily Traffic	216
Annual Average Daily Traffic	196

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
F	6/3/2011	128	122	250				
S	6/4/2011	105	118	223				
S	6/5/2011	79	88	167				
M	6/6/2011	99	111	210				
T	6/7/2011	109	108	217				
W	6/8/2011	113	114	227				
T	6/9/2011	110	113	223				
F	6/10/2011	104	103	207				
<b>TOTAL</b>		<b>847</b>	<b>877</b>	<b>1,724</b>	<b>1,471</b>	<b>230</b>	<b>23</b>	<b>1,724</b>
<b>AVERAGE DAILY</b>		<b>106</b>	<b>110</b>	<b>216</b>	<b>85.3%</b>	<b>13.3%</b>	<b>1.3%</b>	<b>100.0%</b>

**Posted Speed Limit: 25 mph**

<b>Vehicle Speeds (mph) Northbound</b>		
Median	Average	85th Percentile
<b>33</b>	<b>29</b>	<b>42</b>

<b>Vehicle Speeds (mph) Southbound</b>		
Median	Average	85th Percentile
<b>26</b>	<b>25</b>	<b>39</b>

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)



**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 25**

Time Period: 06/03/2011 through 06/09/2011  
 Count ID: SPR25SPD/CLS  
 Town: Springfield, VT  
 Road: French Meadow Road (TH 8)  
 Location: North of Baker Road (809 French Meadow Road)

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	243
Average Weekend Traffic	215
Average Daily Traffic	235
Annual Average Daily Traffic	218

Day	Date	Vehicle Volumes			Vehicle Class			
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
F	6/3/2011	138	133	271				
S	6/4/2011	114	128	242				
S	6/5/2011	90	98	188				
M	6/6/2011	106	118	224				
T	6/7/2011	114	115	229				
W	6/8/2011	120	123	243				
T	6/9/2011	116	130	246				
<b>TOTAL</b>		<b>798</b>	<b>845</b>	<b>1,643</b>	<b>1,477</b>	<b>147</b>	<b>19</b>	<b>1,643</b>
<b>AVERAGE DAILY</b>		<b>114</b>	<b>121</b>	<b>235</b>	<b>89.9%</b>	<b>8.9%</b>	<b>1.2%</b>	<b>100.0%</b>

**Posted Speed Limit: 25 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
23	23	38

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
20	21	35

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 26**

Time Period: 8/3/2011 thru 8/8/2011  
 Count ID: WEA26  
 Town: Weathersfield  
 Road: Thrasher Road  
 Location: 0.12 miles west of US-5

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	424
Average Weekend Traffic	372
Average Daily Traffic	407
Annual Average Daily Traffic	356

Day	Date	Vehicle Volumes			Vehicle Class			
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
W	8/3/2011	193	205	398				
T	8/4/2011	227	224	451				
F	8/5/2011	214	234	448				
S	8/6/2011	218	216	434				
S	8/7/2011	151	159	310				
M	8/8/2011	195	203	398				
<b>TOTAL</b>		<b>1,198</b>	<b>1,241</b>	<b>2,439</b>	<b>2,309</b>	<b>119</b>	<b>11</b>	<b>2,439</b>
<b>AVERAGE DAILY</b>		<b>200</b>	<b>207</b>	<b>407</b>	<b>94.7%</b>	<b>4.9%</b>	<b>0.5%</b>	<b>100.0%</b>

**Posted Speed Limit: 40 mph**

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
23	22	31

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
24	22	32

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 27**

Time Period: 8/3/2011 through 8/8/2011  
 Count ID: WEA27  
 Town: Weathersfield  
 Road: Thrasher Road  
 Location: 0.2 miles east of I-91 overpass

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	259
Average Weekend Traffic	241
Average Daily Traffic	253
Annual Average Daily Traffic	221

Day	Date	Vehicle Volumes			Vehicle Class			
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
W	8/3/2011	114	130	244				
T	8/4/2011	141	136	277				
F	8/5/2011	148	151	299				
S	8/6/2011	142	133	275				
S	8/7/2011	102	105	207				
M	8/8/2011	108	106	214				
<b>TOTAL</b>		<b>755</b>	<b>761</b>	<b>1,516</b>	<b>1,432</b>	<b>76</b>	<b>8</b>	<b>1,516</b>
<b>AVERAGE DAILY</b>		<b>126</b>	<b>127</b>	<b>253</b>	<b>94.5%</b>	<b>5.0%</b>	<b>0.5%</b>	<b>100.0%</b>

**Posted Speed Limit: 40 mph**

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
<b>35</b>	<b>35</b>	<b>42</b>

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
<b>37</b>	<b>37</b>	<b>44</b>

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 28**

Time Period: 8/10/2011 thru 8/13/2011  
 Count ID: WEA28  
 Town: Weathersfield  
 Road: Maple Street  
 Location: 0.25 miles east of VT-106

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	338
Average Weekend Traffic	386
Average Daily Traffic	350
Annual Average Daily Traffic	295

Day	Date	Vehicle Volumes			Vehicle Class			
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
W	8/10/2011	180	210	390				
T	8/11/2011	132	166	298				
F	8/12/2011	147	180	327				
S	8/13/2011	172	214	386				
<b>TOTAL</b>		<b>631</b>	<b>770</b>	<b>1,401</b>	<b>1,224</b>	<b>160</b>	<b>17</b>	<b>1,401</b>
<b>AVERAGE DAILY</b>		<b>158</b>	<b>193</b>	<b>350</b>	<b>87.4%</b>	<b>11.4%</b>	<b>1.2%</b>	<b>100.0%</b>

**Posted Speed Limit: 25 mph**

<b>Vehicle Speeds (mph) Westbound</b>		
Median	Average	85th Percentile
<b>24</b>	<b>25</b>	<b>29</b>

<b>Vehicle Speeds (mph) Eastbound</b>		
Median	Average	85th Percentile
<b>22</b>	<b>23</b>	<b>28</b>

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 *Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 29**

Time Period: 7/27/2011 thru 8/1/2011  
 Count ID: WEA29  
 Town: Weathersfield  
 Road: Quarry Road  
 Location: 0.15 miles west of VT-106

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	206
Average Weekend Traffic	188
Average Daily Traffic	200
Annual Average Daily Traffic	173

Day	Date	Vehicle Volumes			Vehicle Class			
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
W	7/27/2011	93	94	187				
T	7/28/2011	120	110	230				
F	7/29/2011	100	94	194				
S	7/30/2011	93	96	189				
S	7/31/2011	96	91	187				
M	8/1/2011	106	105	211				
<b>TOTAL</b>		<b>608</b>	<b>590</b>	<b>1,198</b>	<b>1,145</b>	<b>48</b>	<b>5</b>	<b>1,198</b>
<b>AVERAGE DAILY</b>		<b>101</b>	<b>98</b>	<b>200</b>	<b>95.6%</b>	<b>4.0%</b>	<b>0.4%</b>	<b>100.0%</b>

**Posted Speed Limit: 25 mph**

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
<b>25</b>	<b>24</b>	<b>32</b>

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
<b>27</b>	<b>27</b>	<b>34</b>

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 30**

Time Period: 8/10/2011 thru 8/13/2011  
 Count ID: CHE30  
 Town: Chester  
 Road: VT-103  
 Location: 0.25 miles south of VT-10

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	4,502
Average Weekend Traffic	4,537
Average Daily Traffic	4,511
Annual Average Daily Traffic	3,765

Day	Date	Vehicle Volumes			Vehicle Class			
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
W	8/10/2011	1,955	1,919	3,874				
T	8/11/2011	2,100	2,304	4,404				
F	8/12/2011	2,203	3,026	5,229				
S	8/13/2011	2,203	2,334	4,537				
<b>TOTAL</b>		<b>8,461</b>	<b>9,583</b>	<b>18,044</b>	<b>15,455</b>	<b>1,756</b>	<b>833</b>	<b>18,044</b>
<b>AVERAGE DAILY</b>		<b>2,115</b>	<b>2,396</b>	<b>4,511</b>	<b>85.7%</b>	<b>9.7%</b>	<b>4.6%</b>	<b>100.0%</b>

**Posted Speed Limit: 50 mph**

<b>Vehicle Speeds (mph) Northbound</b>		
Median	Average	85th Percentile
<b>54</b>	<b>53</b>	<b>60</b>

<b>Vehicle Speeds (mph) Southbound</b>		
Median	Average	85th Percentile
<b>53</b>	<b>52</b>	<b>57</b>

**NOTES:**

Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)

Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)

Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 32 (Count 1)**

Time Period: 07/27/11 through 08/08/11  
 Count ID: LUD32CLS/SPD  
 Town: Ludlow, VT  
 Road: East Lake Road (TH4)  
 Location: Next to 745 East Lake Road

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	428
Average Weekend Traffic	442
Average Daily Traffic	432
Annual Average Daily Traffic	385

Day	Date	Vehicle Volumes			Vehicle Class			
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
W	7/27/2011	217	204	421				
T	7/28/2011	215	224	439				
F	7/29/2011	215	216	431				
S	7/30/2011	236	205	441				
S	7/31/2011	180	182	362				
M	8/1/2011	213	210	423				
T	8/2/2011	218	216	434				
W	8/3/2011	192	191	383				
T	8/4/2011	231	225	456				
F	8/5/2011	254	226	480				
S	8/6/2011	268	241	509				
S	8/7/2011	222	234	456				
M	8/8/2011	185	200	385				
<b>TOTAL</b>		<b>2,846</b>	<b>2,774</b>	<b>5,620</b>	<b>4,940</b>	<b>548</b>	<b>132</b>	<b>5,620</b>
<b>AVERAGE DAILY</b>		<b>219</b>	<b>213</b>	<b>432</b>	<b>87.9%</b>	<b>9.8%</b>	<b>2.3%</b>	<b>100.0%</b>

**Posted Speed Limit: 35 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
21	21	36

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
21	21	35

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)

**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 32 (Count 2)**

Time Period: 08/19/11 through 08/25/11  
 Count ID: LUD32CLS/SPD  
 Town: Ludlow, VT  
 Road: East Lake Road (TH4)  
 Location: Next to 745 East Lake Road

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	443
Average Weekend Traffic	412
Average Daily Traffic	434
Annual Average Daily Traffic	392

Day	Date	Vehicle Volumes			Vehicle Class			
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
F	8/19/2011	208	195	403				
S	8/20/2011	229	216	445				
S	8/21/2011	181	198	379				
M	8/22/2011	229	222	451				
T	8/23/2011	238	239	477				
W	8/24/2011	225	235	460				
T	8/25/2011	213	209	422				
<b>TOTAL</b>		<b>1,523</b>	<b>1,514</b>	<b>3,037</b>	<b>2,599</b>	<b>393</b>	<b>45</b>	<b>3,037</b>
<b>AVERAGE DAILY</b>		<b>218</b>	<b>216</b>	<b>434</b>	<b>85.6%</b>	<b>12.9%</b>	<b>1.5%</b>	<b>100.0%</b>

**Posted Speed Limit: 35 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
<b>24</b>	<b>24</b>	<b>38</b>

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
<b>20</b>	<b>20</b>	<b>34</b>

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)
- VTrans adjustment factors were used to calculate AADT (2011 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2012)



**Southern Windsor County Regional Planning Commission  
2011 Traffic Count Summary**

**Station # 33**

Time Period: 07/27/11 through 07/28/11  
 Count ID: LUD32CLS/SPD  
 Town: Ludlow, VT  
 Road: East Lake Road (TH4)  
 Location: Next to 431 East Lake Road

<b>Average Daily Traffic Summary</b>	
Average Weekday Traffic	296
Average Weekend Traffic	-
Average Daily Traffic	296
Annual Average Daily Traffic	250

Day	Date	Vehicle Volumes			Vehicle Class			
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
W	7/27/2011	133	151	284				
T	7/28/2011	160	148	308				
<b>TOTAL</b>		<b>293</b>	<b>299</b>	<b>592</b>	<b>552</b>	<b>32</b>	<b>8</b>	<b>592</b>
<b>AVERAGE DAILY</b>		<b>147</b>	<b>150</b>	<b>296</b>	<b>93.2%</b>	<b>5.4%</b>	<b>1.4%</b>	<b>100.0%</b>

**Posted Speed Limit: 35 mph**

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
<b>19</b>	<b>19</b>	<b>31</b>

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
<b>22</b>	<b>22</b>	<b>36</b>

**NOTES:**

- Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Veh. Classes 1-3)
- Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle trucks (FHWA 4-7)
- Tractor-trailer truck class includes heavy-duty vehicles with more than four axles (FHWA 8-13)

## Understanding Traffic Terminology

**AADT** - Annual Average Daily Traffic is the term used to show the average traffic volume in both directions on a section of road, adjusted for seasonal variation. VTrans recommended methodology and adjustment factors have been used to determine the AADT at each location.

**ADT** – Average Daily Traffic is the unadjusted, average number of vehicles passing in both directions at a specified location of a roadway.

**Average Weekday Traffic** – Average Weekday Traffic is similar to ADT, however, excludes weekend traffic volumes.

**Average Weekend Traffic** – Average Weekend Traffic is the unadjusted, average number of vehicles on weekend days only.

**Direction of Travel** – Some data are summarized based on the generalized direction of travel on a roadway: northbound (NB), southbound (SB), eastbound (EB) or westbound (WB).

**Vehicle Classification** – The type of vehicle is based on the Federal Highway Administration’s (FHWA) 13 separate classes of vehicles. For the purposes of this report, vehicle class is summarized into three groups:

- **Passenger Vehicles** - Passenger vehicle class includes motorcycles, passenger cars, pickup trucks and SUVs (FHWA Classes 1-3)
- **Single-Unit Trucks** - Single-unit truck class includes school buses, 2-axle, 3-axle and 4-axle single-unit trucks (FHWA Classes 4-7; also called medium-duty trucks or “mediums”)
- **Tractor Trailer Trucks** - Tractor-trailer truck class includes heavy-duty vehicles with four or more axles; a semi-tractor pulling a trailer(s), i.e. a “semi” or “18-wheeler” (FHWA Classes 8-13 or “heavies”)

**Vehicle Speed** – Vehicular speed of travel is measured in miles per hour (mph), and for the purpose of this report is described in three ways:

- **Median Speed** – Statistical measurement based on the 50<sup>th</sup> percentile vehicle speed at the specified location. One-half of the vehicles in the sample travel faster, and one-half travel slower than the median speed.
- **Average Speed** – Average or mean travel speed of all vehicles at a specified location.
- **85<sup>th</sup> Percentile Speed** – The speed below which 85 percent of motorists travel at a specified location. The 85<sup>th</sup> percentile speed is typically used by transportation engineers as the basis for setting the posted speed limit, although other factors should also be considered.