

Southern Windsor County Annual Traffic Count Program 2010 Summary

Introduction

The Southern Windsor County Regional Planning Commission (the “RPC”) 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.

Until 2008 traffic counts were collected wherever possible for all 19 locations annually. In 2008 this changed – to collecting traffic counts every other year.

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

2010 Traffic Counts

Traffic counts are regularly performed at 19 locations throughout the Region. The table below lists the location of the 19 original 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)
2*	CAVENDISH	VT 131	50' WEST OF CARLTON ROAD
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	100' WEST OF GILL TERRACE (TH 312)
10	LUDLOW	DUG RD	50' WEST OF PROSPECT ST
11	WEATHERSFIELD	US 5	500' SOUTH OF WILGUS STATE PARK ENTRANCE
12	READING	TYSON RD	50' WEST OF PUCKERBRUSH RD (TH 48)
13	WEST WINDSOR	BROWNSVILLE-HARTLAND RD	0.6 MILES NORTH OF VT 44
14	WEATHERSFIELD	CENTER RD	50' SOUTH OF JEFFREY LANE (TH 98)
15	CAVENDISH	DEPOT ST	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	0.5 MILE NORTH OF VT 131
19**	SPRINGFIELD	RESERVOIR RD	AT WEATHERFIELD/ SPRINGFIELD TOWN LINE

* The location moved - from 50 ft west of Power Plant Road (TH68) to 50ft west of Carlton Road

** Count ID of S6Y054 in 2009

In 2010, the following additional counts were carried out in the region:

Station	Town	Route/Road	Location	Reason
20	WEATHERSFIELD	US 5	100' NORTH OF RILEY DRIVE	Safe Routes to School
21	WEATHERSFIELD	US 5	100' NORTH OF HASTINGS DR	Safe Routes to School
21A	WEATHERSFIELD	US 5	100' NORTH OF HASTINGS DR	Safe Routes to School
22	WEATHERSFIELD	SCHOOLHOUSE RD	200' WEST OF MARTIN ST	Safe Routes to School
23	SPRINGFIELD	PLEASANT VALLEY RD	500' SOUTH OF BREEZY HILL RD	RSAR
24	SPRINGFIELD	PLEASANT VALLEY RD	SOUTH OF BOEDTKER RD (TH 83)	RSAR
25	READING	VT 106	NORTH OF TYSON RD (FELCHVILLE)	
26	LUDLOW	SOUTH HILL RD	SOUTHEAST OF TOWN FARM RD	Potential Road Reclassification

Each location is typically surveyed for one to two weeks, avoiding periods of irregular traffic flows, such as July 4th 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 is also collated and sometimes collected by the Vermont Agency of Transportation (VTrans). Traffic Count reports are published online at 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 (cars, motorcycles, buses and trucks) used the roads (“Automatic Vehicle Classification Reports”). One of the counters in Ludlow is permanently collecting data (P6Y209 – on Okemo Mountain Road 300ft from VT103). Data for this site is available in the “Red Book” (2010 Continuous Traffic Counter Grouping Study and Regression Analysis Report).

2010 Traffic Count Summary

This section contains a summary of the annual traffic count data, including AADT since the program began in 1999. (Traffic counts were not conducted in 2004.) More detailed summaries of each 2010 count locations are included in this report. AADT calculations are based on the 2010 Continuous Traffic Counter Grouping Study and Regression Analysis (VTrans, 2011). Raw data is available by request through the transportation planner.

The following graphs show traffic volumes by year at each location (by Station Number). 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.

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 50th 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.
- **85th Percentile Speed** – The speed below which 85 percent of motorists travel at a specified location. The 85th percentile speed is typically used by transportation engineers as the basis for setting the posted speed limit, although other factors should also be considered.

**Southern Windsor County Regional Planning Commission
Annual Regional Traffic Count Program**

Station #	Town	Route/Road	Location	Annual Average Daily Traffic (AADT)											
				1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1	LUDLOW	VT 103	100' NORTH OF WEST HILL RD (TH 362)	8,966	7,950	7,459	9,303	9,423		12,822	10,661	12,995			12,080
2*	CAVENDISH	VT 131	50' WEST OF POWER PLANT ROAD (TH68)	2,654	2,267	2,137	3,104	2,316		2,373	2,254	2,465	2,227		
2A*	CAVENDISH	VT 131	50' WEST OF CARLTON ROAD												2,333
3	READING	VT 106	500' SOUTH OF FELTCHVILLE SCHOOL ENTRANCE	1,439	1,550	1,673	1,417	1,532		1,382	1,470	1,508	1,395		1,556
4	CHESTER	VT 11	100' WEST OF LACROSS RD (SPR TH 15)	3,507	3,759	3,513	4,382	3,737		4,490	4,027				4,045
5	SPRINGFIELD	VT 106	400' SOUTH OF VT 10	6,621	6,080	6,379	6,683	5,739		5,835	6,525	5,711			5,962
6	CHESTER	VT 10	1000' WEST OF NORTH MAIN STREET (NO. SPRI. TH 6)	3,249	3,088	2,962	3,544	3,054		3,486	3,047	3,458	3,128	3,372	
7	CAVENDISH	VT 103	1000' SOUTH OF RT 131	4,743	5,788	7,120	5,996	5,020		5,109	5,081		5,129		4,683
8	LUDLOW	VT 100	1000' NORTH OF VT 103 (SOUTH OF ROD AND GUN CLUB ROAD)	2,558	2,827	2,365	3,831			3,046	3,537	3,269			2,984
9	LUDLOW	HIGH ST (TH 4)	100' WEST OF GILL TERRACE (TH 312)	476	882	1,809	931	876		909	883	958			850
10	LUDLOW	DUG RD (TH 4)	50' WEST OF PROSPECT ST (TH 306)	892	494	439	210	485			488	575			499
11	WEATHERSFIELD	US 5	500' SOUTH OF WILGUS STATE PARK ENTRANCE		1,439	1,460	1,633	1,334		1,442	1,517	1,572	1,612	1,406	
12	READING	TYSON RD (TH 1)	50' WEST OF PUCKERBRUSH RD (TH 48)	373	399	384	556	425		507	491	477			487
13**	WEST WINDSOR	BROWNSVILLE-HARTLAND RD (TH 1)	0.6 MILES NORTH OF VT 44	1,111	922	1,054	1,014	1,121		1,495	1,452	1,938			1,618
14	WEATHERSFIELD	CENTER RD (TH 1)	50' SOUTH OF JEFFREY LANE (TH 98)		1,366	1,328	1,442	1,213		1,403	1,584	1,459	1,427		1,630
15	CAVENDISH	DEPOT ST (TH 1)	200' SOUTH OF GM RAILROAD		1,025	712	903	699		1,010	1,024	1,192			1,010
16	WINDSOR	US 5	100' NORTH OF CEDAR HILL DR (PVT RD)		3,235	3,234	3,343	3,397		3,300	3,409	3,129	3,293		
17	WEATHERSFIELD	VT 106	50' NORTH OF HIGH STREET (BY PERKINSVILLE GREEN) (TH 69)		2,813	3,051	3,016	2,825		2,567	2,664	2,977	2,386	3,084	
18	CAVENDISH	TWENTY MILE STREAM RD (TH 3)	0.5 MILE NORTH OF VT 131		673	652	659	768		600	591	592	647		592
19***	SPRINGFIELD	RESERVOIR RD (TH 9)	AT WEATHERFIELD/ SPRINGFIELD TOWN LINE	718	444	621	615	836		971	1,005	1,158	974	1,021	

* The location moved - from 50 ft west of Power Plant Road (TH68) to 50ft west of Carlton Road - in 2010

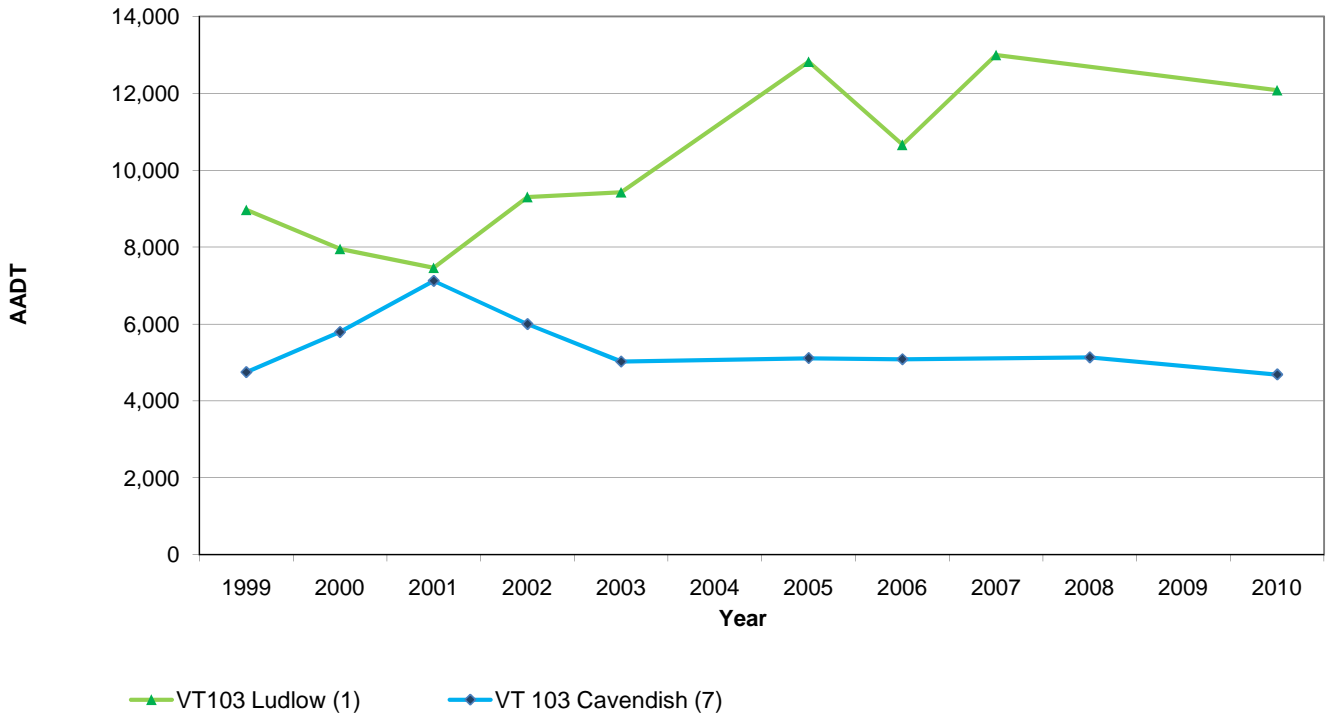
** Count ID of S6Y353 in 2009

*** Count ID of S6Y054 in 2009

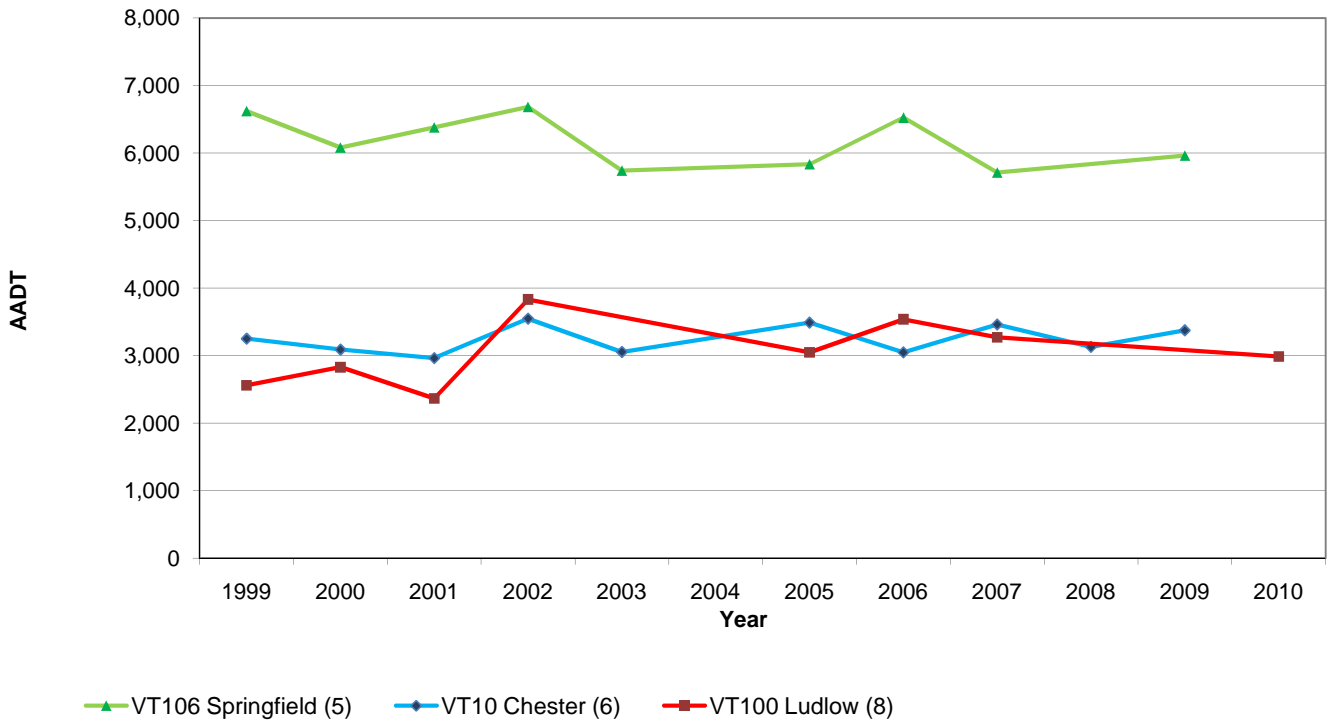
Non-Annual Traffic Counts

Station #	Town	Route/Road	Location	AADT	Reason
20	WEATHERSFIELD	US 5	100' NORTH OF RILEY DRIVE	4,951	Safe Routes to School
21	WEATHERSFIELD	US 5	100' NORTH OF HASTINGS DR	5,329	Safe Routes to School
21A	WEATHERSFIELD	US 5	100' NORTH OF HASTINGS DR	5,752	Safe Routes to School
22	WEATHERSFIELD	SCHOOLHOUSE RD (TH 77)	200' WEST OF MARTIN ST (TH 24)	327	Safe Routes to School
23	SPRINGFIELD	PLEASANT VALLEY RD (TH 78)	500' SOUTH OF BREEZY HILL RD (TH 86)	419	RSAR
24	SPRINGFIELD	PLEASANT VALLEY RD (TH 78)	SOUTH OF BOEDTKER RD (TH 83)	200	RSAR
25	READING	VT 106	NORTH OF TYSON RD (FELCHVILLE)	1,420	Speed Study
26	LUDLOW	SOUTH HILL RD	SOUTHEAST OF TOWN FARM RD	869	Potential Road Reclassification

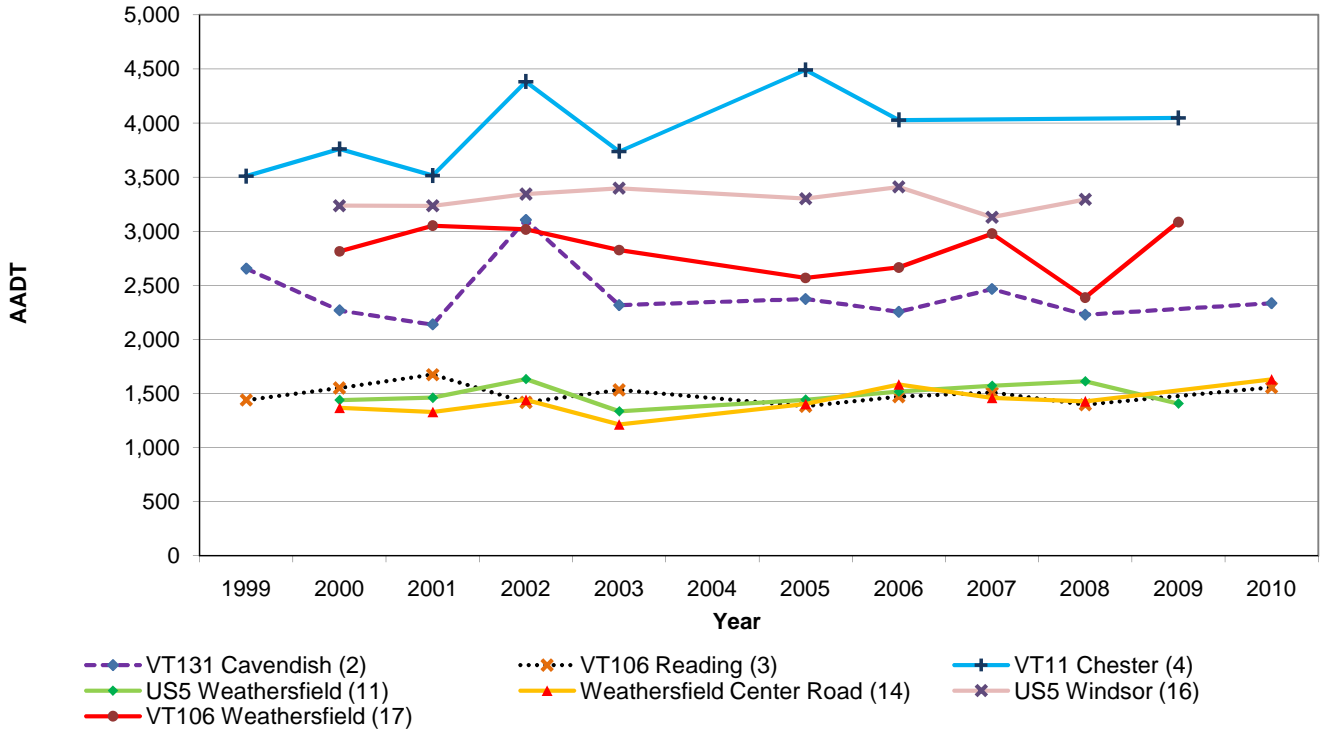
Traffic Counts for Principal Arterials



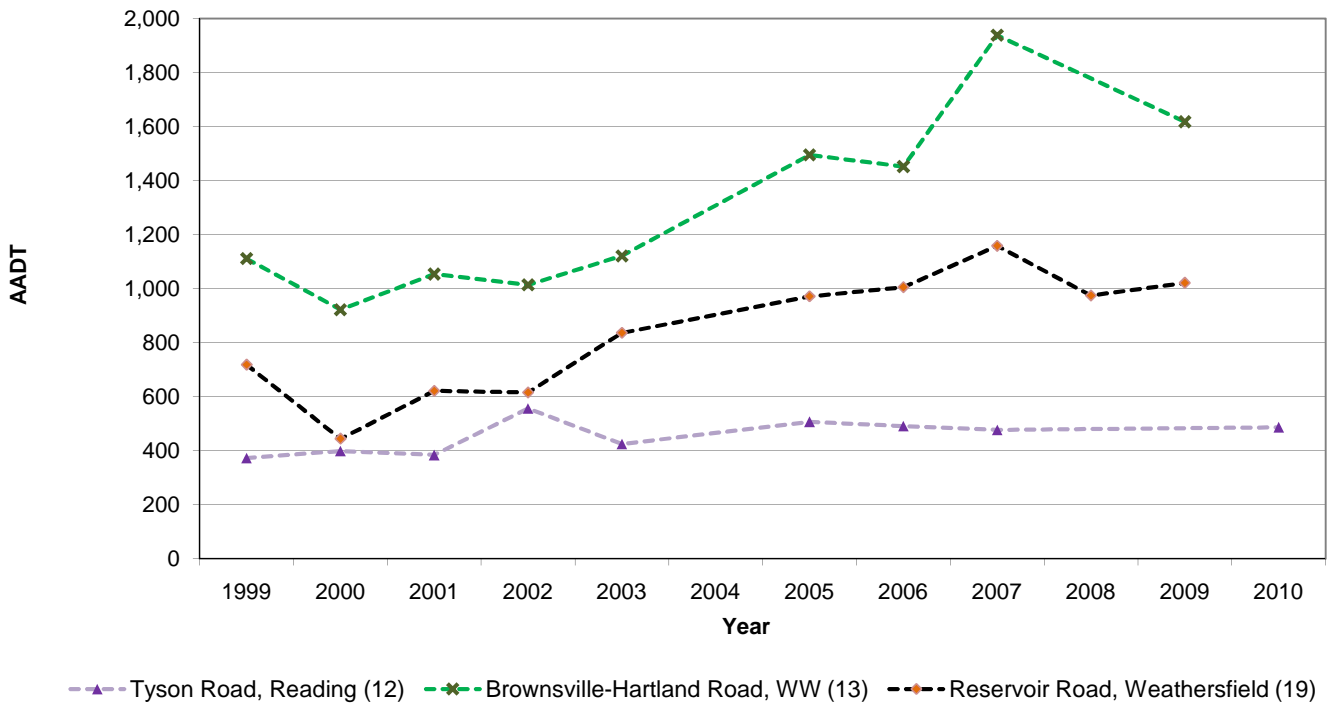
Traffic Counts for Minor Arterials



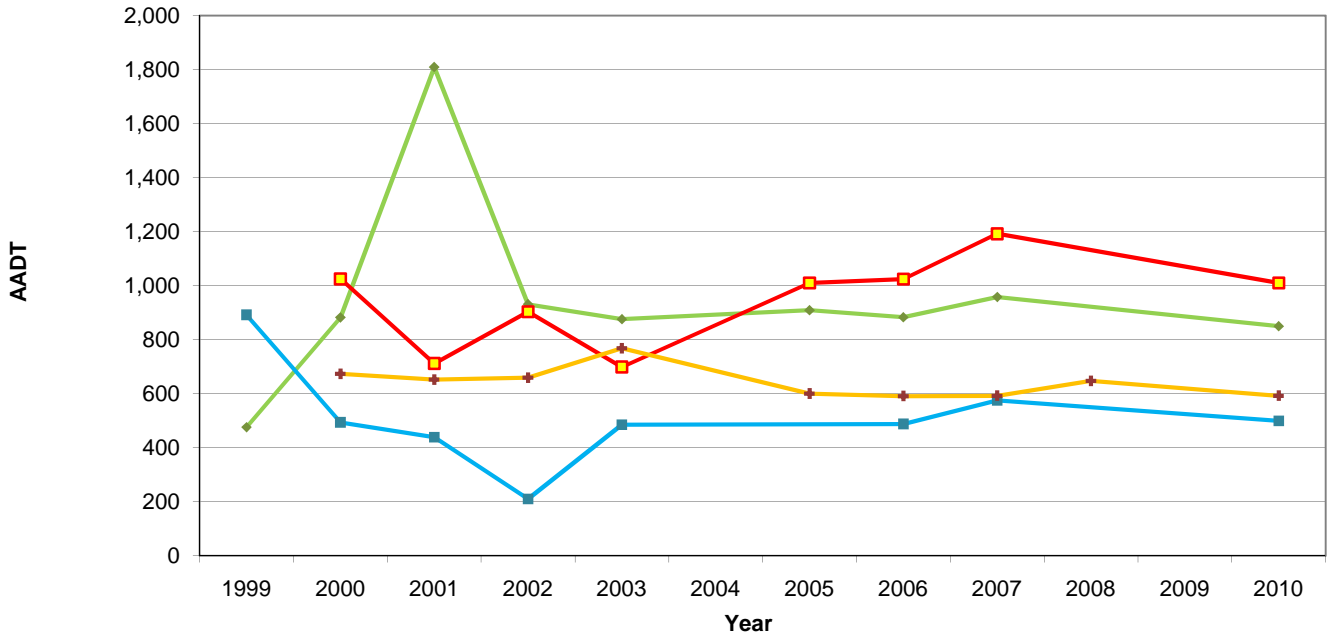
Traffic Counts on Major Collectors



Traffic Counts on Minor Collectors



Traffic Counts on Local Roads



High Street, Ludlow (9)

Dug Road, Ludlow (10)

Depot Street, Cavendish (15)

Twenty Mile Stream Road, Cavendish (18)

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 1

Time Period: 11/10/10 through 11/18/10 Number of Valid Days: 5
 Count ID: LUD001CLS/SPD
 Town: Ludlow, VT
 Road: VT 103
 Location: Between West Hill Road and Bowker Court

Average Daily Traffic Summary	
Average Weekday Traffic	6,122.0
Average Weekend Traffic	7,823.0
Average Daily Traffic	7,846.0
Annual Average Daily Traffic	12,080

Day	Date	Vehicle Volumes			Vehicle Class			
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
T	11/11/2010	3,743	3,972	7,715				
F	11/12/2010	4,737	4,645	9,382				
S	11/13/2010	4,006	4,249	8,255				
S	11/14/2010	2,740	3,747	6,487				
M	11/15/2010	3,504	3,887	7,391				
TOTAL		18,730	20,500	39,230	33,759	4,381	1,090	39,230
AVERAGE DAILY		3,746	4,100	7,846	86.1%	11.2%	2.8%	100.0%

Posted Speed Limit: 30 mph

Vehicle Speeds (mph) Westbound (toward Okemo)		
Median	Average	85th Percentile
28	26	39

Vehicle Speeds (mph) Eastbound (into Ludlow Village)		
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 (*2010 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2011)
- Counter malfunction on 11/16 about 6pm

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 2A

Time Period: 09/03/2010 through 09/20/2007 Number of Valid Days: 16
 Count ID: CAV002CLS/SPD
 Town: Cavendish, VT
 Road: VT 131
 Location: 50 ft west of Carlton Road (TH?)

Average Daily Traffic Summary	
Average Weekday Traffic	2,487.0
Average Weekend Traffic	2,358.7
Average Daily Traffic	2,438.9
Annual Average Daily Traffic	2,333

Day	Date	Vehicle Volumes			Vehicle Class			
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
S	9/4/2010	1,366	1,280	2,646				
S	9/5/2010	1,196	1,224	2,420				
M	9/6/2010	1,068	1,181	2,249				
T	9/7/2010	1,278	1,216	2,494				
W	9/8/2010	1,290	1,236	2,526				
T	9/9/2010	1,268	1,217	2,485				
F	9/10/2010	1,414	1,353	2,767				
S	9/11/2010	1,259	1,282	2,541				
S	9/12/2010	958	1,061	2,019				
M	9/13/2010	1,146	1,126	2,272				
T	9/14/2010	1,197	1,267	2,464				
W	9/15/2010	1,233	1,256	2,489				
T	9/16/2010	1,255	1,265	2,520				
F	9/17/2010	1,307	1,297	2,604				
S	9/18/2010	1,208	1,195	2,403				
S	9/19/2010	1,042	1,081	2,123				
TOTAL		19,485	19,537	39,022	32,938	5,051	1,033	39,022
AVERAGE DAILY		1,218	1,221	2,439	84.4%	12.9%	2.6%	100.0%

Posted Speed Limit: 50 mph

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
39	35	44

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
47	44	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 (*2010 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2011)

OBSERVATIONS:

The location of this count has moved - from 50 ft west of Power Plant Road (TH68) to 50ft west of Carlton Road

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 3

Time Period: 8/4/2010 through 8/19/2010 Number of Valid Days: 14
 Count ID: REA003CLS/SPD
 Town: Reading, VT
 Road: VT 106
 Location: 500' South of Felchville School entrance

Average Daily Traffic Summary	
Average Weekday Traffic	1,777.6
Average Weekend Traffic	1,798.0
Average Daily Traffic	1,783.4
Annual Average Daily Traffic	1,556

Day	Date	Vehicle Volumes			Vehicle Class			
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
T	8/5/2010	915	757	1,672				
F	8/6/2010	1,041	836	1,877				
S	8/7/2010	972	869	1,841				
S	8/8/2010	903	886	1,789				
M	8/9/2010	879	732	1,611				
T	8/10/2010	927	851	1,778				
W	8/11/2010	1,052	906	1,958				
T	8/12/2010	944	800	1,744				
F	8/13/2010	1,092	933	2,025				
S	8/14/2010	1,041	922	1,963				
S	8/15/2010	832	767	1,599				
M	8/16/2010	829	762	1,591				
T	8/17/2010	917	828	1,745				
W	8/18/2010	932	843	1,775				
TOTAL		13,276	11,692	24,968	22,117	2,557	294	24,968
AVERAGE DAILY		948	835	1,783	88.6%	10.2%	1.2%	100.0%

Posted Speed Limit: 35 mph*

Vehicle Speeds (mph) Northbound		
Median	Average	85th Percentile
38	34	45

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
38	34	44

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 (*2010 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2011)

*Location is close to transition of 50 to 35 mph

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 7

Time Period: 9/3/2010 through 9/20/2010 Number of Valid Days: 16
 Count ID: CAV007CLS/SPD
 Town: Cavendish, VT
 Road: VT 103
 Location: South of VT 131

Average Daily Traffic Summary	
Average Weekday Traffic	4,911.0
Average Weekend Traffic	4,841.2
Average Daily Traffic	4,884.8
Annual Average Daily Traffic	4,683

Day	Date	Vehicle Volumes			Vehicle Class			Total
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
S	9/4/2010	3,195	2,355	5,550				
S	9/5/2010	2,075	2,621	4,696				
M	9/6/2010	1,823	3,840	5,663				
T	9/7/2010	2,237	2,534	4,771				
W	9/8/2010	2,424	2,352	4,776				
T	9/9/2010	2,472	2,377	4,849				
F	9/10/2010	3,039	2,613	5,652				
S	9/11/2010	2,437	2,446	4,883				
S	9/12/2010	1,741	2,744	4,485				
M	9/13/2010	2,082	2,177	4,259				
T	9/14/2010	2,133	2,161	4,294				
W	9/15/2010	2,224	2,213	4,437				
T	9/16/2010	2,244	2,307	4,551				
F	9/17/2010	3,143	2,715	5,858				
S	9/18/2010	2,467	2,372	4,839				
S	9/19/2010	1,837	2,757	4,594				
TOTAL		37,573	40,584	78,157				
AVERAGE DAILY		2348.3	2536.5	4884.8				

Not Available

Posted Speed Limit: 50 mph

Vehicle Speeds (mph) Westbound (toward Ludlow)		
Median	Average	85th Percentile
<i>Not Available</i>		

Vehicle Speeds (mph) Eastbound (toward Chester)		
Median	Average	85th Percentile
<i>Not Available</i>		

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 (2010 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2011)

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 8

Time Period: 9/20/2010 through 10/6/2010 Number of Valid Days: 15
 Count ID: LUD008CLS/SPD
 Town: Ludlow, VT
 Road: VT 100
 Location: 1000' north of VT 103

Average Daily Traffic Summary	
Average Weekday Traffic	3,008.5
Average Weekend Traffic	3,710.5
Average Daily Traffic	3,195.7
Annual Average Daily Traffic	2,984

Day	Date	Vehicle Volumes			Vehicle Class			
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	Total
T	9/21/2010	1,424	1,453	2,877				
W	9/22/2010	1,351	1,360	2,711				
T	9/23/2010	1,521	1,468	2,989				
F	9/24/2010	2,040	1,760	3,800				
S	9/25/2010	1,928	1,795	3,723				
S	9/26/2010	1,330	1,819	3,149				
M	9/27/2010	1,313	1,345	2,658				
T	9/28/2010	1,304	1,325	2,629				
W	9/29/2010	1,534	1,461	2,995				
T	9/30/2010	1,283	1,313	2,596				
F	10/1/2010	2,018	1,465	3,483				
S	10/2/2010	2,199	1,985	4,184				
S	10/3/2010	1,612	2,174	3,786				
M	10/4/2010	1,583	1,636	3,219				
T	10/5/2010	1,571	1,566	3,137				
TOTAL		24,011	23,925	47,936	42,877	4,638	421	47,936
AVERAGE DAILY		1,601	1,595	3,196	89.4%	9.7%	0.9%	100.0%

Posted Speed Limit: 50 mph

Vehicle Speeds (mph) Northbound (toward Plymouth)		
Median	Average	85th Percentile
37	31	41

Vehicle Speeds (mph) Southbound (toward Ludlow Village)		
Median	Average	85th Percentile
45	44	51

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 (2010 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2011)

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 9

Time Period: 8/20/2010 through 9/3/2020 Number of Valid Days: 13
 Count ID: LUD009CLS/SPD
 Town: Ludlow, VT
 Road: High Street (TH4)
 Location: 30' West of Gill Terr (TH312)

Average Daily Traffic Summary	
Average Weekday Traffic	965.7
Average Weekend Traffic	757.8
Average Daily Traffic	901.7
Annual Average Daily Traffic	850

Day	Date	Vehicle Volumes			Vehicle Class			Total
		EB	WB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
S	8/21/2010	242	673	915				
S	8/22/2010	175	461	636				
M	8/23/2010	267	538	805				
T	8/24/2010	232	577	809				
W	8/25/2010	253	614	867				
T	8/26/2010	224	612	836				
F	8/27/2010	338	973	1311				
S	8/28/2010	175	603	778				
S	8/29/2010	191	511	702				
M	8/30/2010	258	627	885				
T	8/31/2010	264	993	1257				
W	9/1/2010	279	688	967				
T	9/2/2010	216	738	954				
TOTAL		3114	8608	11722	11,339	359	24	11,722
AVERAGE DAILY		239.5	662.2	901.7	96.7%	3.1%	0.2%	100.0%

Posted Speed Limit: 30 mph

Vehicle Speeds (mph) Eastbound		
Median	Average	85th Percentile
26	25	32

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
21	21	29

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 (2010 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2011)

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 10

Time Period: 8/20/2010 through 9/3/2020 Number of Valid Days: 13
 Count ID: LUD010CLS/SPD
 Town: Ludlow, VT
 Road: Dug Road (TH 4)
 Location: 200 feet west of Prospect Street (TH 4)

Average Daily Traffic Summary	
Average Weekday Traffic	520.3
Average Weekend Traffic	420.8
Average Daily Traffic	489.7
Annual Average Daily Traffic	499

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB (one-way)	SB (wrong-way)	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
S	8/21/2010	480	1	481				
S	8/22/2010	347	1	348				
M	8/23/2010	159	6	165				
T	8/24/2010	395	1	396				
W	8/25/2010	422	2	424				
R	8/26/2010	460	2	462				
F	8/27/2010	787	0	787				
S	8/28/2010	466	1	467				
S	8/29/2010	387	0	387				
M	8/30/2010	480	1	481				
T	8/31/2010	766	4	770				
W	9/1/2010	547	0	547				
T	9/2/2010	649	2	651				
TOTAL		6,345	21	6,366				
AVERAGE DAILY		488.1	1.6	489.7				

Not Available

Posted Speed Limit: 30 mph

Vehicle Speeds Northbound (one-way)		
Median	Average	85th Percentile
<i>Not Available</i>		

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 (2010 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2011)

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 12

Time Period: 8/4/2010 through 8/19/2010 Number of Valid Days: 14
 Count ID: REA012CLS/SPD
 Town: Reading, VT
 Road: Tyson Road (TH 1)
 Location: 50 feet west of Puckerbrush Road (TH 48)

Average Daily Traffic Summary	
Average Weekday Traffic	554.8
Average Weekend Traffic	566.0
Average Daily Traffic	558.0
Annual Average Daily Traffic	487

Day	Date	Vehicle Volumes			Vehicle Class			Total
		WB	EB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
T	8/5/2010	274	256	530				
F	8/6/2010	348	333	681				
S	8/7/2010	295	295	590				
S	8/8/2010	258	287	545				
M	8/9/2010	264	271	535				
T	8/10/2010	273	269	542				
W	8/11/2010	316	223	539				
T	8/12/2010	316	255	571				
F	8/13/2010	310	276	586				
S	8/14/2010	272	302	574				
S	8/15/2010	277	278	555				
M	8/16/2010	241	274	515				
T	8/17/2010	261	252	513				
W	8/18/2010	279	257	536				
TOTAL		3,984	3,828	7,812				
AVERAGE DAILY		285	273	558				

Not Available

Posted Speed Limit: 40 mph

Vehicle Speeds (mph) Westbound		
Median	Average	85th Percentile
48	45	59

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

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 (2010 Continuous Traffic Counter Grouping Study and Regression Analysis , VTrans 2011)

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 14

Time Period: 10/6/2010 through 10/18/2010 Number of Valid Days: 11
 Count ID: WEA014CLS/SPD
 Town: Weathersfield, VT
 Road: Center Road (TH 1)
 Location: 50 feet south of Jeffrey Ln (TH 98)

Average Daily Traffic Summary	
Average Weekday Traffic	1,693.7
Average Weekend Traffic	1,817.5
Average Daily Traffic	1,738.7
Annual Average Daily Traffic	1,630

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
T	10/7/2010	829	862	1,691				
F	10/8/2010	989	1,026	2,015				
S	10/9/2010	1,076	1,159	2,235				
S	10/10/2010	955	984	1,939				
M	10/11/2010	810	826	1,636				
T	10/12/2010	825	883	1,708				
W	10/13/2010	831	839	1,670				
T	10/14/2010	795	813	1,608				
F	10/15/2010	760	768	1,528				
S	10/16/2010	779	866	1,645				
S	10/17/2010	717	734	1,451				
TOTAL		9,366	9,760	19,126	17,389	1,621	116	19,126
AVERAGE DAILY		851	887	1,739	90.9%	8.5%	0.6%	100.0%

Posted Speed Limit: 40 mph

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

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
52	52	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 (*2010 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2011)

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 15

Time Period: 08/20/10 through 09/03/10 Number of Valid Days: 13
 Count ID: CAV015CLS/SPD
 Town: Cavendish, VT
 Road: Depot Street (TH1)
 Location: 200' South of Green Mountain Railroad

Average Daily Traffic Summary	
Average Weekday Traffic	1,102.7
Average Weekend Traffic	969.8
Average Daily Traffic	1,061.8
Annual Average Daily Traffic	1,010

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
S	8/21/2010	576	567	1,143				
S	8/22/2010	401	454	855				
M	8/23/2010	473	480	953				
T	8/24/2010	520	516	1,036				
W	8/25/2010	577	558	1,135				
T	8/26/2010	624	590	1,214				
F	8/27/2010	603	547	1,150				
S	8/28/2010	486	490	976				
S	8/29/2010	442	463	905				
M	8/30/2010	550	524	1,074				
T	8/31/2010	599	564	1,163				
W	9/1/2010	560	543	1,103				
T	9/2/2010	550	546	1,096				
TOTAL		6,961	6,842	13,803	12,634	1,106	63	13,803
AVERAGE DAILY		535.5	526.3	1061.8	91.5%	8.0%	0.5%	100.0%

Posted Speed Limit: 35 mph

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

Vehicle Speeds (mph) Southbound		
Median	Average	85th Percentile
19	19	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 (2010 Continuous Traffic Counter Grouping Study and Regression Analysis, VTrans 2011)
- Trucks use Depot Street southbound as a bypass around the VT 131 and 103 intersection.

**Southern Windsor County Regional Planning Commission
2010 Traffic Count Summary**

Station # 18

Time Period: 6/25/2010 through 7/14/2010 Number of Valid Days: 7
 Count ID: CAV018CLS/SPD
 Town: Cavendish, VT
 Road: Twenty Mile Stream Road (TH 3)
 Location: 1/2 mile north of VT 131

Average Daily Traffic Summary	
Average Weekday Traffic	608.0
Average Weekend Traffic	496.0
Average Daily Traffic	576.0
Annual Average Daily Traffic	592

Day	Date	Vehicle Volumes			Vehicle Class			Total
		NB	SB	Total	Passenger Vehicles	Single-Unit Trucks	Tractor-Trailer Trucks	
S	6/26/2010	288	257	545	<i>Not Available</i>			
S	6/27/2010	220	227	447				
M	6/28/2010	274	256	530				
T	6/29/2010	288	284	572				
W	6/30/2010	330	286	616				
T	7/1/2010	339	305	644				
F	7/2/2010	356	322	678				
TOTAL		2,095	1,937	4,032				
AVERAGE DAILY		299	277	576				

Posted Speed Limit: 35 mph

Vehicle Speeds Northbound		
Median	Average	85th Percentile
40	37	45

Vehicle Speeds Southbound		
Median	Average	85th Percentile
38	33	43

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 (*2010 Continuous Traffic Counter Grouping Study and Regression Analysis*, VTrans 2011)
 Tubes broke sometime late on 7/3