

Southern Windsor County, Vermont
Traffic Signal Inventory

September 2010

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Southern Windsor County Regional Planning Commission

Traffic Signal Inventory

Between February and March 2010, an inventory of traffic signals was conducted in the Southern Windsor County Region by the Southern Windsor County Regional Planning Commission (SWCRPC). This project, a component of our energy program, is funded by the ARRA Energy Efficiency and Conservation Block Grant programs. The purpose of this study is to inventory existing traffic signals and identify potential energy efficiency retrofits (LED bulbs).

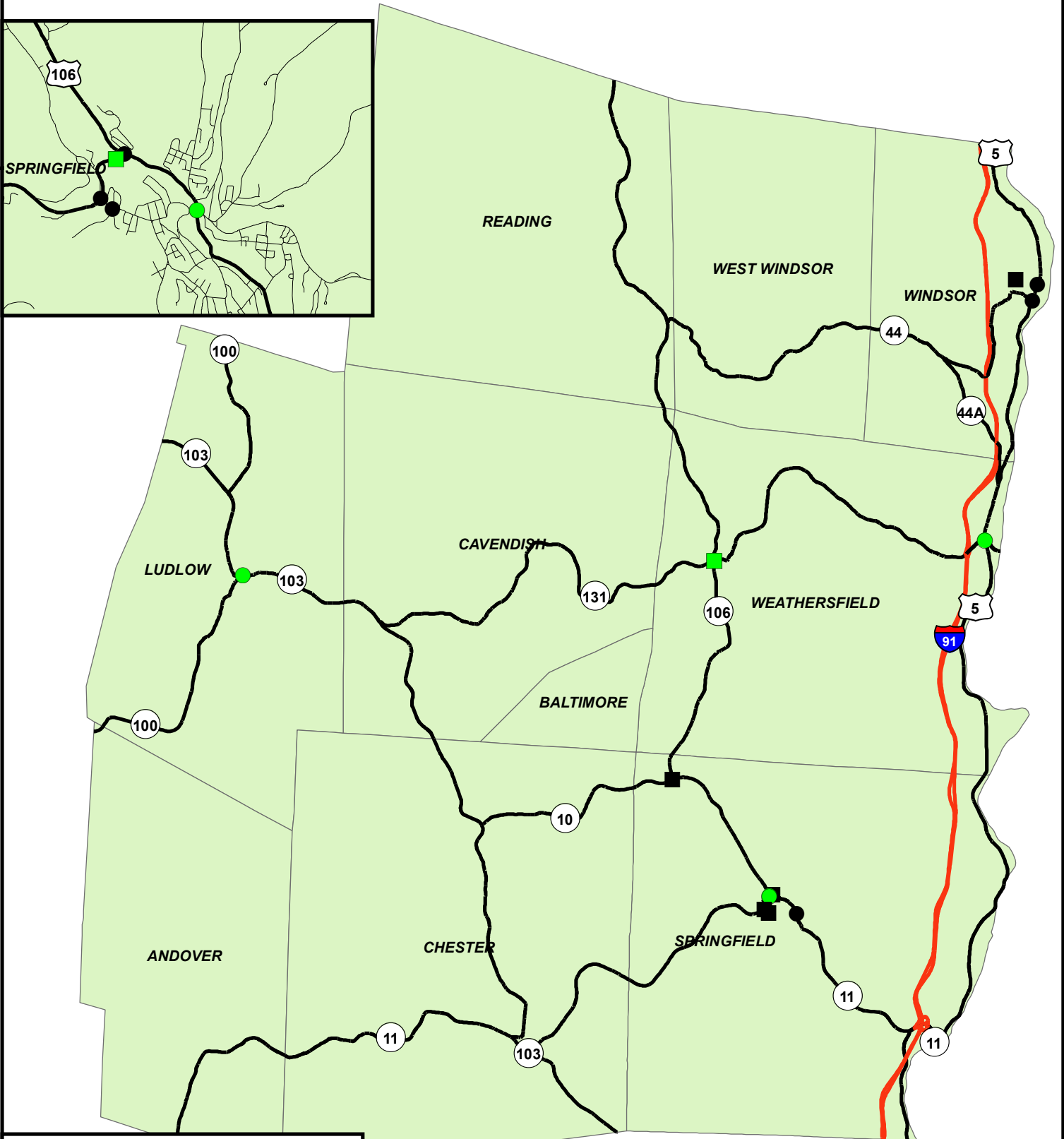
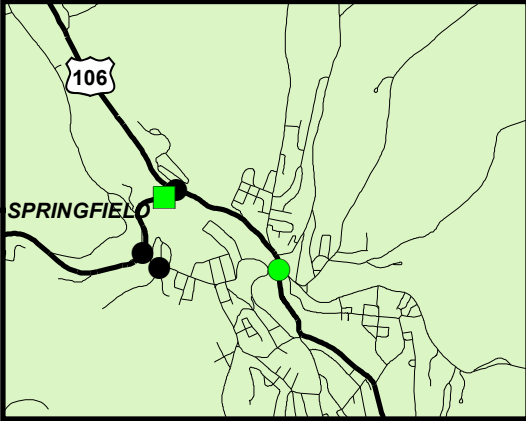
The study consisted of a number of steps to gather information about the region’s traffic signals. First, a map was created to determine the location of existing signals. The second step in the process involved a “windshield survey” of the towns by a SWCRPC staff person to further identify the existence of signals as well as what types of signals were being utilized by the towns (ex. – standard traffic lights, flashers, etc.). The third step in this process consisted of SWCRPC staff contacting town officials to verify signal locations and what types of bulbs are currently used. The results of the study show a variety of signal types throughout the region, with the greatest number of signals and diversity found in Springfield. The majority of town-owned signals utilize conventional light bulbs, but Ludlow’s only traffic signal (located at the intersection of Route 11 and Depot Street) and one of Springfield’s, use LED bulbs. The majority of state-operated signals have been retrofitted with LED bulbs at this time. The table below summarizes the fifteen traffic signals in the Southern Windsor County Region in detail.

Standard Signals				
Town	Location	Jurisdiction	Signal Type	Bulb Type
Ludlow	Main St. (VT-103) & Depot St.	Town-operated	Standard	LED
Springfield	Main, Summer, and Park	Town-operated	Standard	Conventional
Springfield	Main, Mineral, Clinton & South	Town-operated	Standard (turned off)	Conventional
Springfield	Bridge Street & Hartness Street	Town-operated	Standard – Emergency (turned off)	Conventional
Springfield	Clinton St. (VT-11) & Bridge St.	Town-operated	Standard- Emergency (turned off)	Conventional
Springfield	Chester Rd. (VT-11) & Plaza Entrance	Town-operated	Standard	LED
Weathersfield	US 5 & VT 131	State-operated	Standard	LED
Windsor	Main St. & Union St.	Town-operated	Standard	Conventional
Windsor	State St. & Main St.	Town-operated	Standard	Conventional

Flashing Signals				
Town	Location	Jurisdiction	Signal Type	Bulb Type
Springfield	VT-11 & VT-106	Town-operated	Caution	Conventional
Springfield	Park St. & Ridgewood St.	Town-operated	Caution	Conventional
Springfield	Chester Rd. (VT-11) & Park St.	Town-operated	Caution	Conventional
Springfield	VT 106 & VT 10	Town-operated	Stop	Conventional
Weathersfield	VT 131 & VT 106	State-operated	Caution	LED
Windsor	Union St. & Clough Ave.	Town-operated	Emergency Stop Signal	Conventional

The inventory of traffic signals has been completed, and the next step will be to encourage Windsor to retrofit its two traffic signals with LED bulbs and to encourage Springfield to do the same with the remainder of its traffic signals. While these retrofits will not significantly reduce towns' total energy expenses, they will result in a slight decrease in such expenses and electricity usage. Energy cost savings is an ongoing process and the SWCRPC remains committed to working with its constituent towns devise more comprehensive plans to reduce energy consumption; therefore, the retrofitting of traffic signals with LED bulbs is only one component of a multi-faceted approach to reduce towns' energy consumption and, subsequently, their associated expenses.

Traffic Signal Locations



Traffic Signals

- Conventional Bulb, Flashing Beacon
- LED Bulb, Flashing Beacon
- Conventional Bulb, Standard 3 Signal
- LED Bulb, Standard 3 Signal

