

ROUTE 102

Morrisville Loop

ROUTE OVERVIEW

Route 102 is a Rural Local route that operates between Morrisville Plaza and Copley Terrace Apartments. The route travels primarily along Brooklyn Street, Bridge Street, Maple Street, and Washington Highway and provides service to shopping areas near Morrisville Plaza, Copley Hospital, and two apartment complexes (see Figure 1). Deviations are available by request with 24-hour notice, based on availability, up to three-quarters of a mile. Service is not provided on weekends.

Route 102 operates on weekdays from 8:00 AM to 10:20 AM and then again from 1:10 PM to 2:55 PM (see Table 1). During those hours, service operates every 35 minutes. No service is provided on weekends.

Route 102 operating pattern is complex. Trips are as round trips, although for the most part buses operate southbound and northbound alignments in a similar but different manner. In summary:

- Southbound service begins at Price Chopper and then operates to Big Lots, the Northgate Plaza and Hannaford. It then operates to downtown Morrisville, into Copley Hospital, and to Copley Terrace Apartments. Southbound service also includes an out-and-back deviation to Lamoille Valley Apartments on Park Street.
- Northbound service begins at the Copley Terrace Apartments and operates directly to downtown Morrisville. It then operates directly to Price Chopper (passengers traveling to the other shopping destinations stay onboard the bus to continue on to southbound trips that service). Northbound trips do not operate into Copley Hospital or make the out-and-back deviation to the Lamoille Valley Apartments.

Figure 1: Route Map

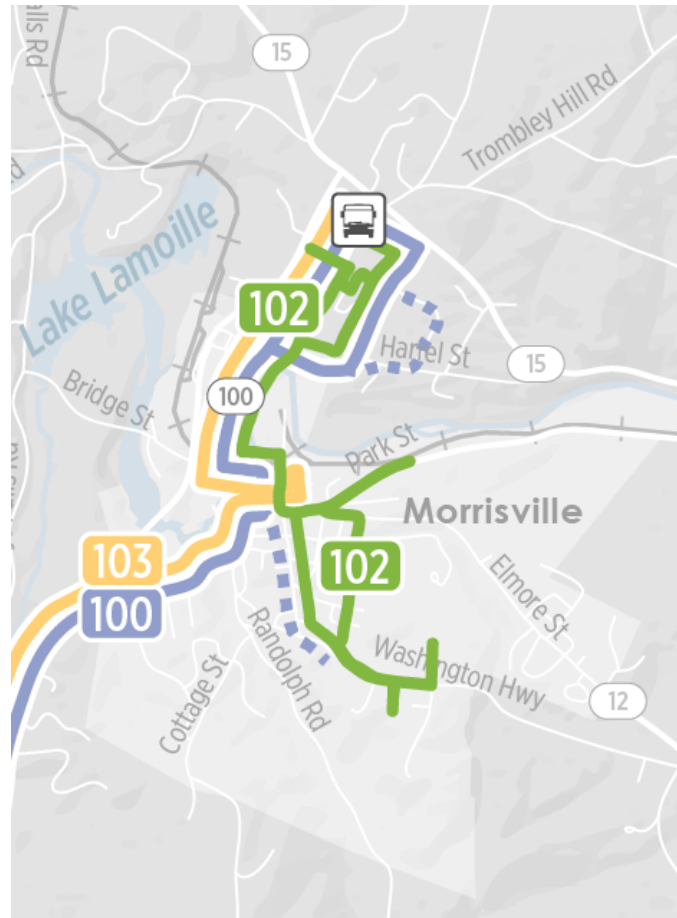


Table 1: Schedule Statistics

SERVICE DAY	SPAN OF SERVICE	FREQUENCY (MIN)	DAILY TRIPS (OUTBOUND/INBOUND)
Monday-Friday	8:00 AM to 2:55 PM	35/35/—	7/7
Saturday	—	—/—	—/—
Sunday	—	—/—	—/—

Peak frequencies are calculated for service between 6:00 am – 9:00 am & 3:00 pm – 6:00 pm. Midday service is from 9:00 am – 3:00 pm. Evening service is for service after 6:00 pm. Saturday and Sunday frequencies are shown as AM/PM.

Ridership

Route 102 carries 19 passengers per weekday, or an average of fewer than three passengers per trip.

Ridership by Stop

Only boarding data is available for Route 103. By the order in which stops are served, boardings are as follows (see Figure 2):

- Two passengers board at Price Chopper
- Two passengers board at Big Lots
- One passenger boards at Northgate Plaza
- Three passengers board at Hannaford
- No passengers board in downtown Morrisville for southbound service
- Two passengers board at Lamoille View Apartments
- Two passengers board at Copley Hospital
- Two passengers board at Copley Terrace Apartments
- Four passengers board in downtown Morrisville for northbound service

For these boarding patterns, it is clear that nearly all passengers use the route to travel to and from shopping destinations at the northern end of the route along VT Route 100. Somewhat surprisingly, only two people use the service to get to and from Copley Hospital.

Ridership by Trip

Ridership on all trips is low, at only two to three passengers per round trip (see Figure 3).

SERVICE PRODUCTIVITY

Route 102 carries an average of 19 passengers per day, or 4.7 passengers per revenue service hour, at a cost of \$13.96 per passenger. Route 102 does not meet VTrans' threshold for productivity, but does for cost effectiveness.

Figure 3: Weekday Ridership by Trip

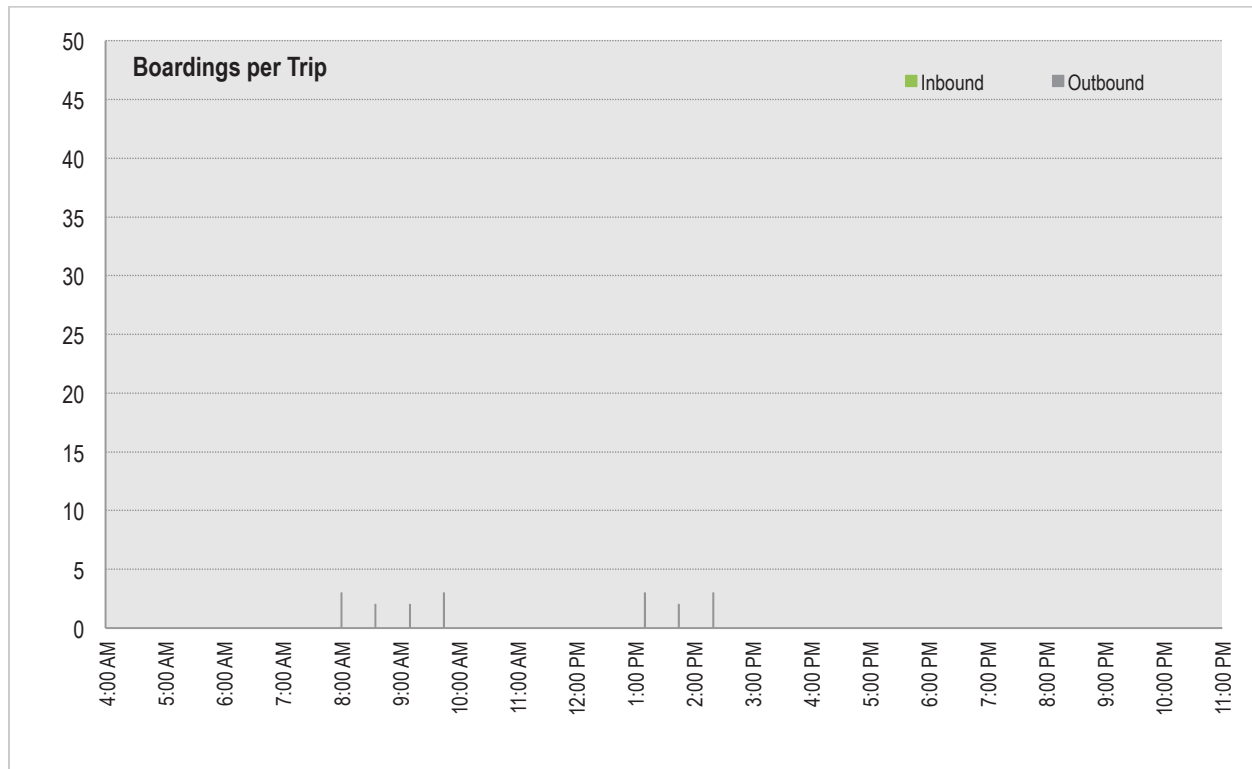


Table 2: Productivity Statistics

	MONDAY-FRIDAY	SATURDAY	SUNDAY
Average Daily Ridership	19	—	—
Pax/Revenue Service Hour	4.7	—	—
VTrans Productivity Threshold	7.23	7.23	7.23
Pax/One-Way Trip	1.4	—	—
Rural Local Average	4.1	3.5	—
Pax/Revenue Mile	0.4	—	—
Rural Local Average	0.6	0.6	—
Cost/Passenger	\$13.96	—	—
VTrans Effectiveness Threshold	\$14.67	\$14.67	\$14.67

Source: Green Mountain Transit, May 2016; VTrans Performance Reviews (2016)

SERVICE IMPROVEMENT OPTIONS

Route 102 operates largely as a shopping shuttle, transporting riders to and from shopping in Morrisville's shopping district along VT Route 100. The schedule is inconvenient – approximately two hours of service in the morning and two hours in the afternoon with a three hour gap in between. In addition, more service is provided than warranted by demand – every 35 minutes but only two to three passengers per trip.

Opportunities to strengthen Route 102 are listed below. Some suggestions may be contradictory, as there is usually more than one approach to improving a route.

- **Consolidate with Route 103 Morrisville Shopping Shuttle:** The Route 103 Morrisville Shopping Shuttle provides limited service to a small market. Routes 102 and 103 could be consolidated into a single route that provides service between Stowe and Morrisville with simpler and more consistent schedules.
- **Simplify Route:** Route 102 has two out-and-back deviations that make the route difficult to understand and increase travel times. These are to the Lamoille Valley Apartments and the Copley View Apartments. Both of these complexes are a four minute walk from the route's main alignment in areas that have sidewalks and good walking conditions. The discontinuation of these out-and-back deviations would simplify service and allow service to be provided every 30 minutes (see below).
- **Eliminate Gap in Service:** As described above, there is a nearly three hour gap in service between 10:20 AM and 1:10 PM. This gap exists so that the bus used for Route 102 can be used for Route 103 Morrisville Shopping Shuttle service during those hours. With a consolidation of the two routes, that gap could be eliminated.
- **Condense Days of Service:** Many GMT shopping shuttles operate only one or two days a week, and Route 102 could be converted to a once or twice a week route. If this were done, a more convenient schedule could also be provided (for example, up to all day service).
- **Operate Service Every 30 Minutes:** It is much easier for passengers to remember the schedule of service that operates every 30 minutes than those that operate every 35 minutes. With the discontinuation of the out-and-back deviations, this would be possible.