

MAKING IT COUNT

Counting Cars, Bikes, and
People in the SNHPC region

SNHPC MPO
APRIL 26, 2022



TRAFFIC COUNTING

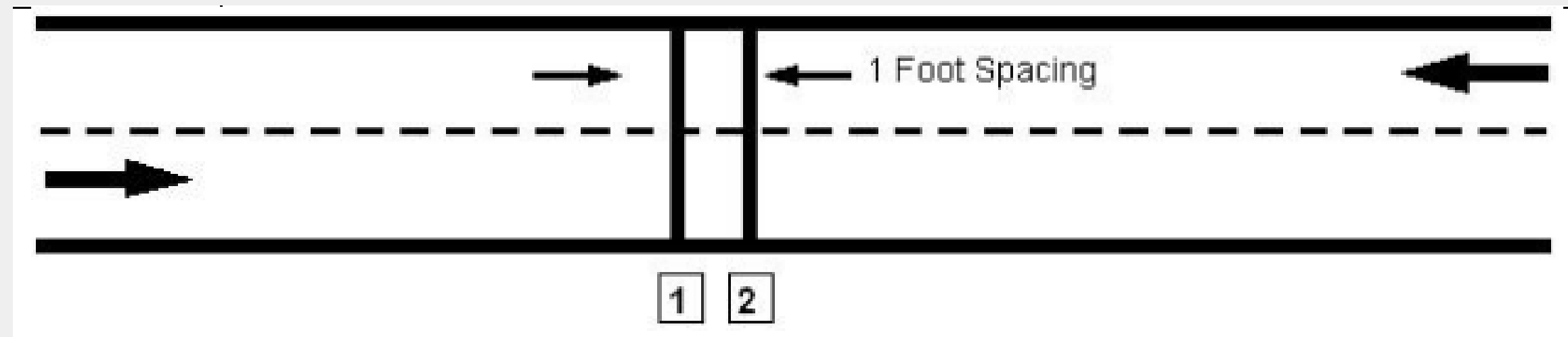
Why count cars?

- Highway Performance Monitoring System (HPMS)
- SNHPC travel demand model
- Local DPW/PB requests
- Developments of Reg. Impact



Types of counts

- Volume
- Directional
- Class/Speed



TRAFFIC COUNTING



- ~1,200 total count sites (1/2 NHDOT, 1/2 SNHPC)
- Three-year cycle
- Field season April–Nov.

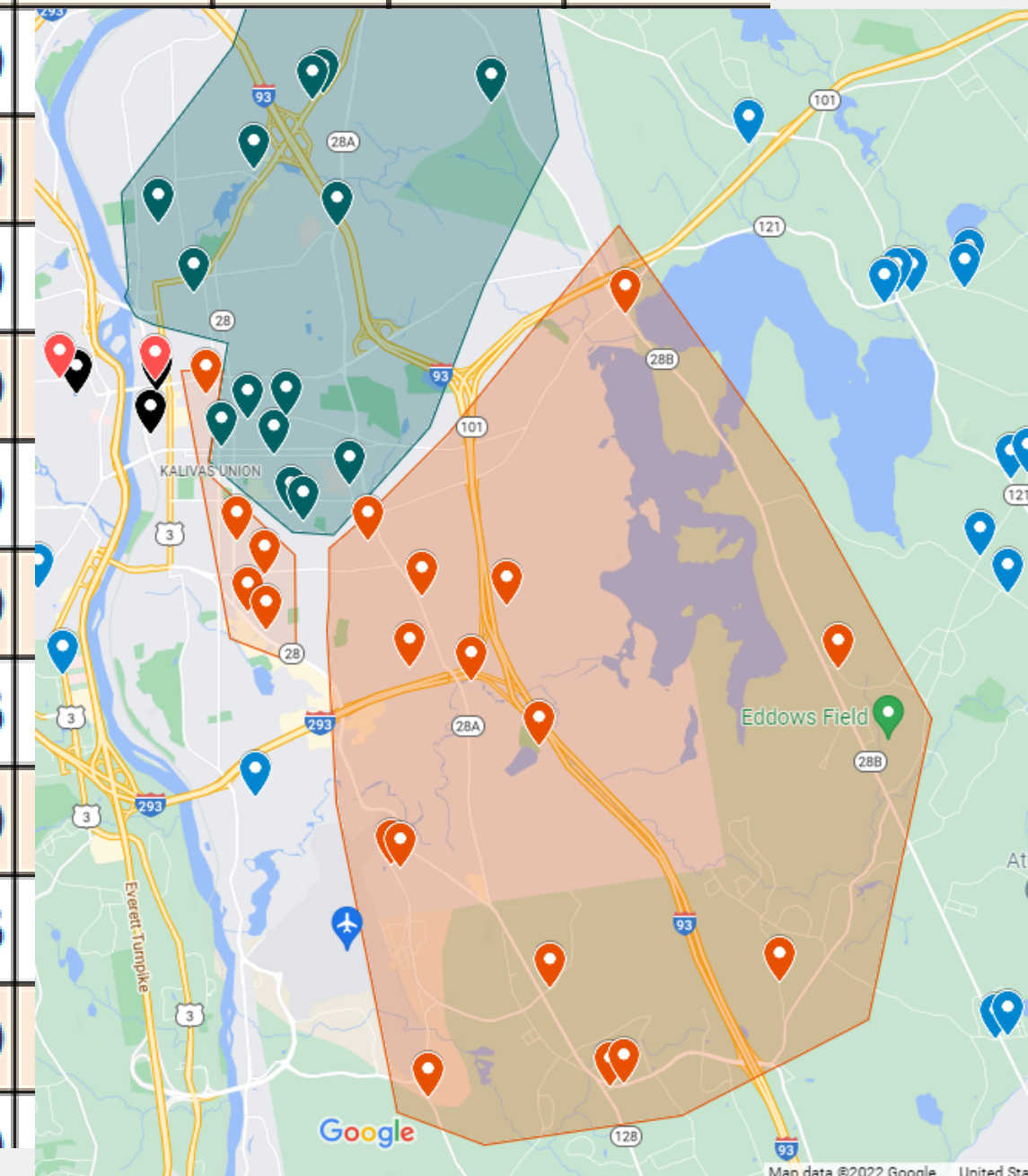
KNOW YOUR LINGO: AADT

Average
Annual
Daily
Traffic



TRAFFIC COUNTING

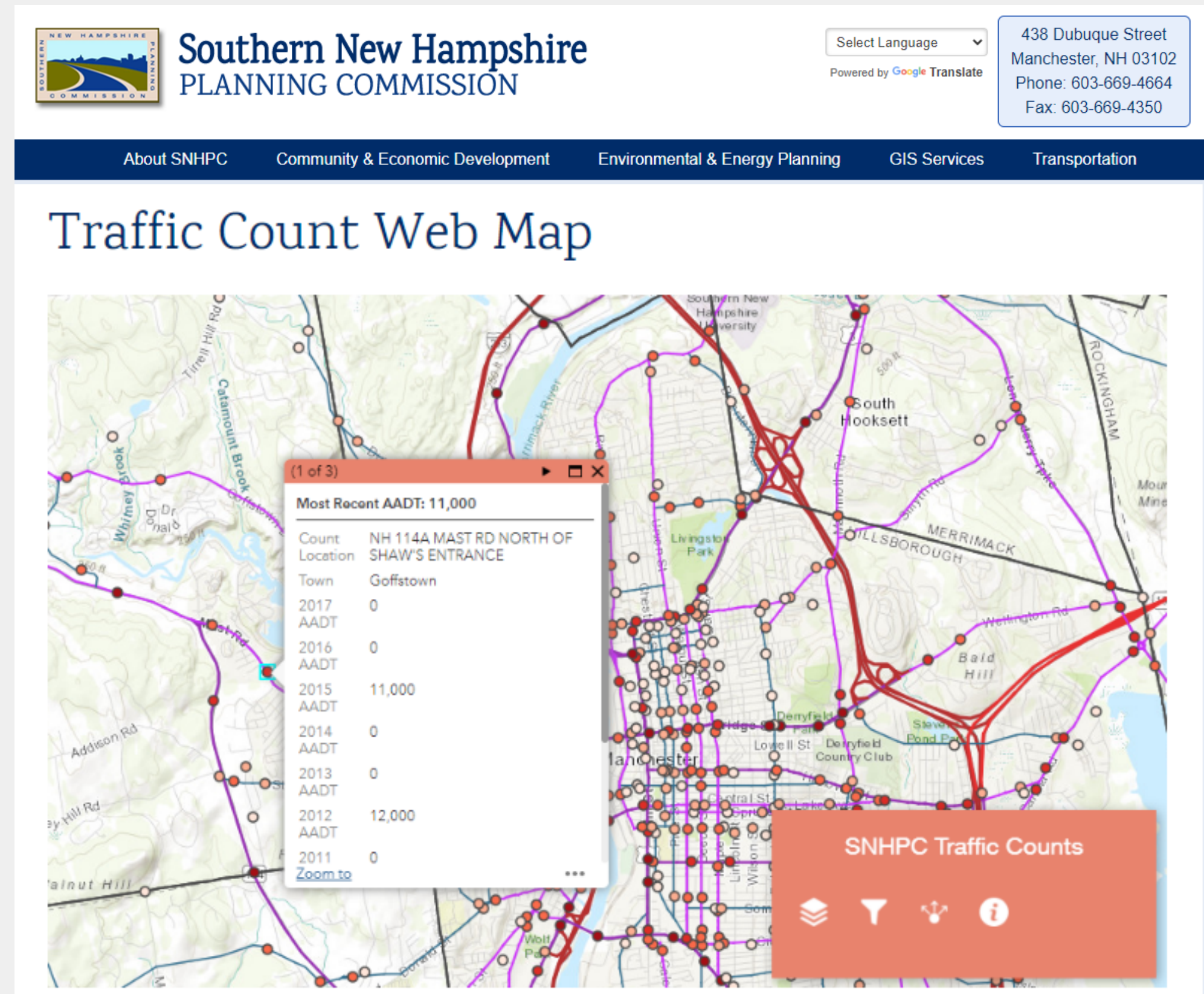
	MUNI	ID	LOCATION	~AADT	TUBE	SETUP	BOX #	PICKUP
1	MANCHESTER	285676	UNION ST SOUTH OF LOWELL ST	6,100	40			
2	MANCHESTER	285938	SOMERVILLE ST EAST OF NH 28 (MAPLE ST)	2,100	30			
3	MANCHESTER	285511	S WILSON ST SOUTH OF CILLEY RD	800	40			
4	MANCHESTER	285823	S LINCOLN ST NORTH OF PARKVIEW ST	2,000	40			
5	MANCHESTER	285739	SEAMES DR EAST OF S WILLOW ST	600	30			
6	MANCHESTER	285760	SOMERVILLE ST EAST OF KNOWLTON ST	3,100	30			
7	AUBURN	023001	NH 28B @ MANCHESTER CL	7,400	60			
8	AUBURN	023032	RATTLESNAKE HILL RD EAST OF NH 28B	700	30			
9	LONDONDERRY	269483	WILSON RD NORTH OF AUBURN RD	1,000	35			
10	LONDONDERRY	269460	NH 28 (ROCKINGHAM RD) EAST OF SMITH LA	14,800	50			
11	LONDONDERRY	269542	SMITH LA EAST OF NH 128 (MAMMOTH RD)	2,400	35			
12	LONDONDERRY	269031	PAGE RD EAST OF NH 28 (ROCKINGHAM RD)	300	30			
13	LONDONDERRY	269088	HARVEY RD SOUTH OF DELTA DR	9,300	50			



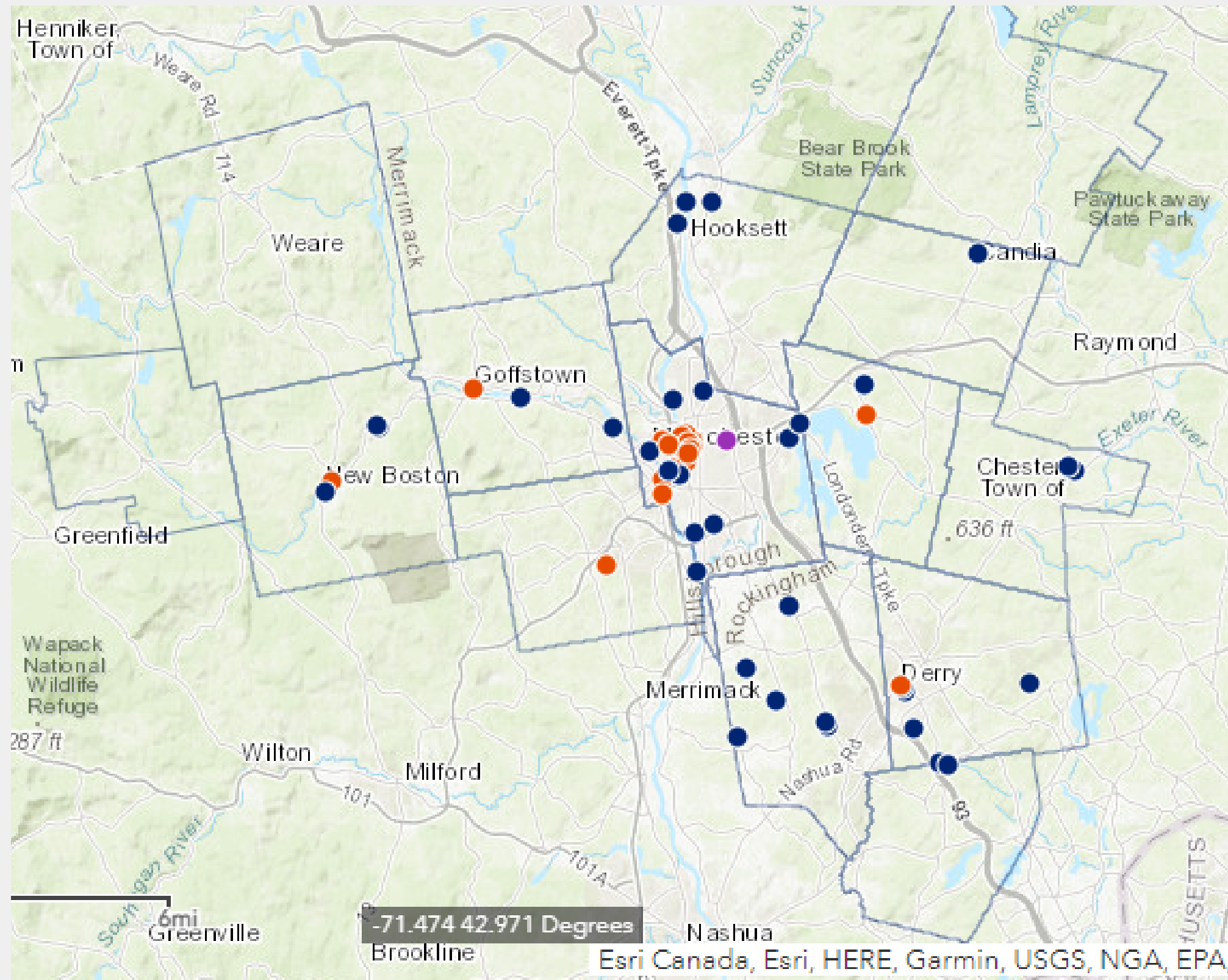
TRAFFIC COUNTING

www.snhpc.org

- Transportation
 - Traffic Counts
 - Web Map



BIKE/PED COUNTING

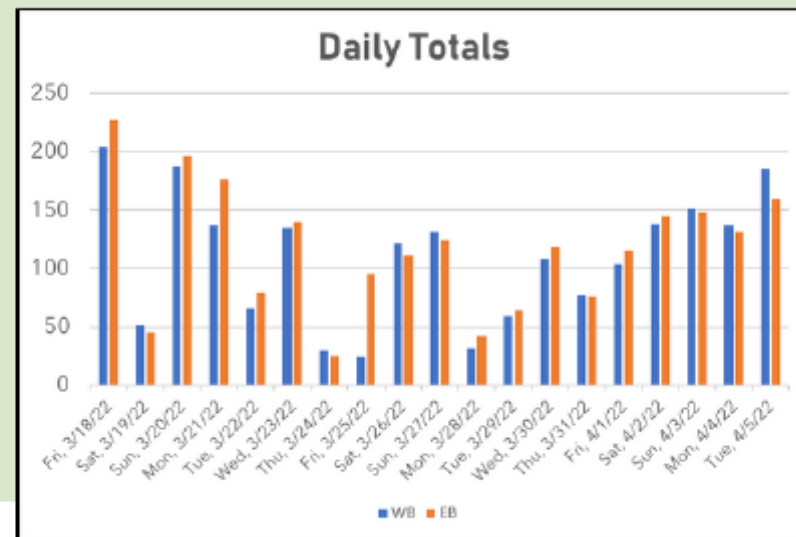


- Program began in 2017
- Two infrared counters
- 2-3 week count duration
- 64 locations
(40 trails, 24 sidewalks)
- Field season year-round



BIKE/PED COUNTING

T-006 HANDS ACROSS THE MERRIMACK BRIDGE



MARCH 18-
APRIL 5, 2022



COUNT SUMMARY

4,291

Total Traffic for the Period Analyzed

225.8

Daily Average

11.9

Total Hourly Average

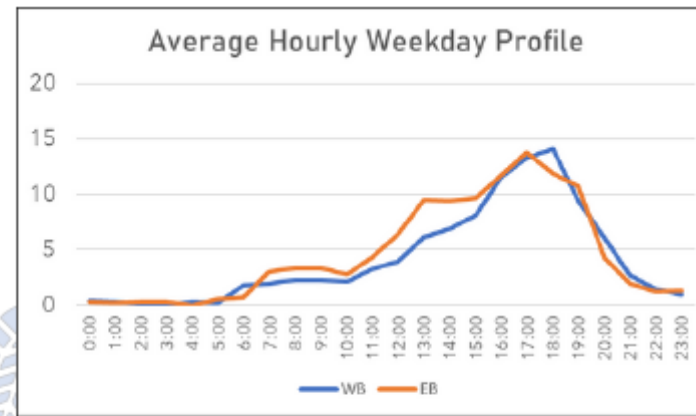
13.4

Hourly average between 6am and 6pm

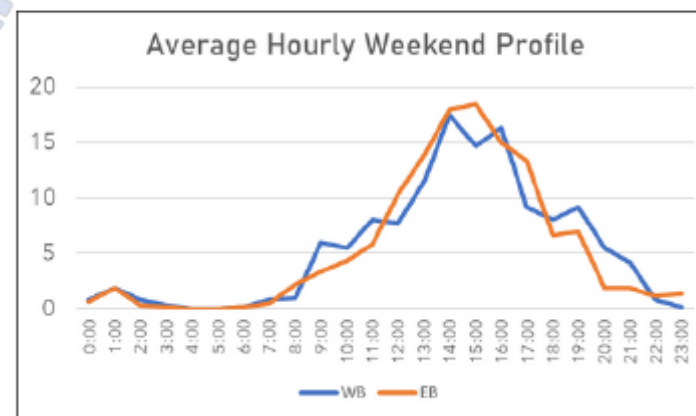
Busiest Weekend Day: Sunday, 3/20 (383)

Busiest Weekday: Tuesday, 4/5 (344)

Minimum Day: Thursday, 3/24 (55)

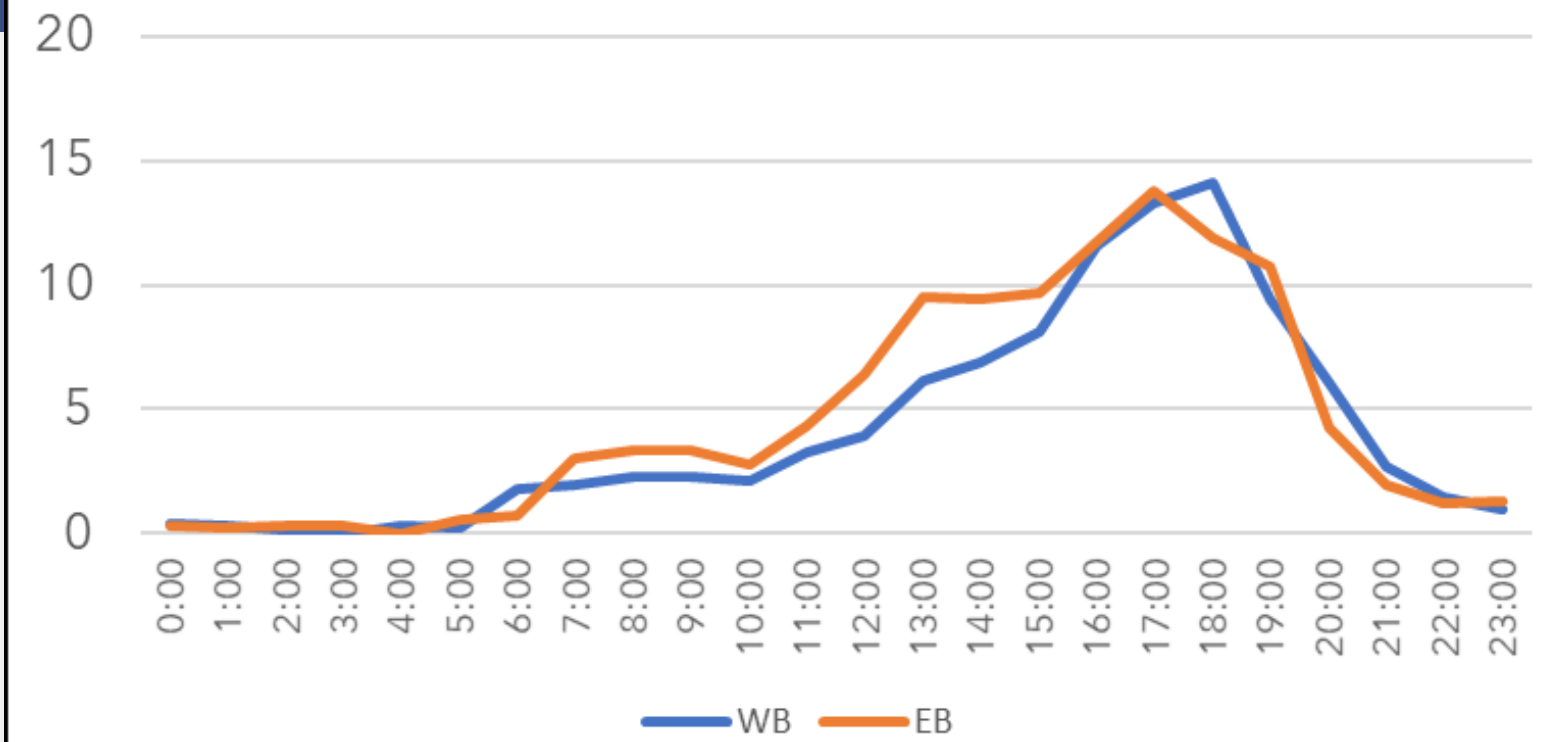


Average number of pedestrians per hour on weekdays only

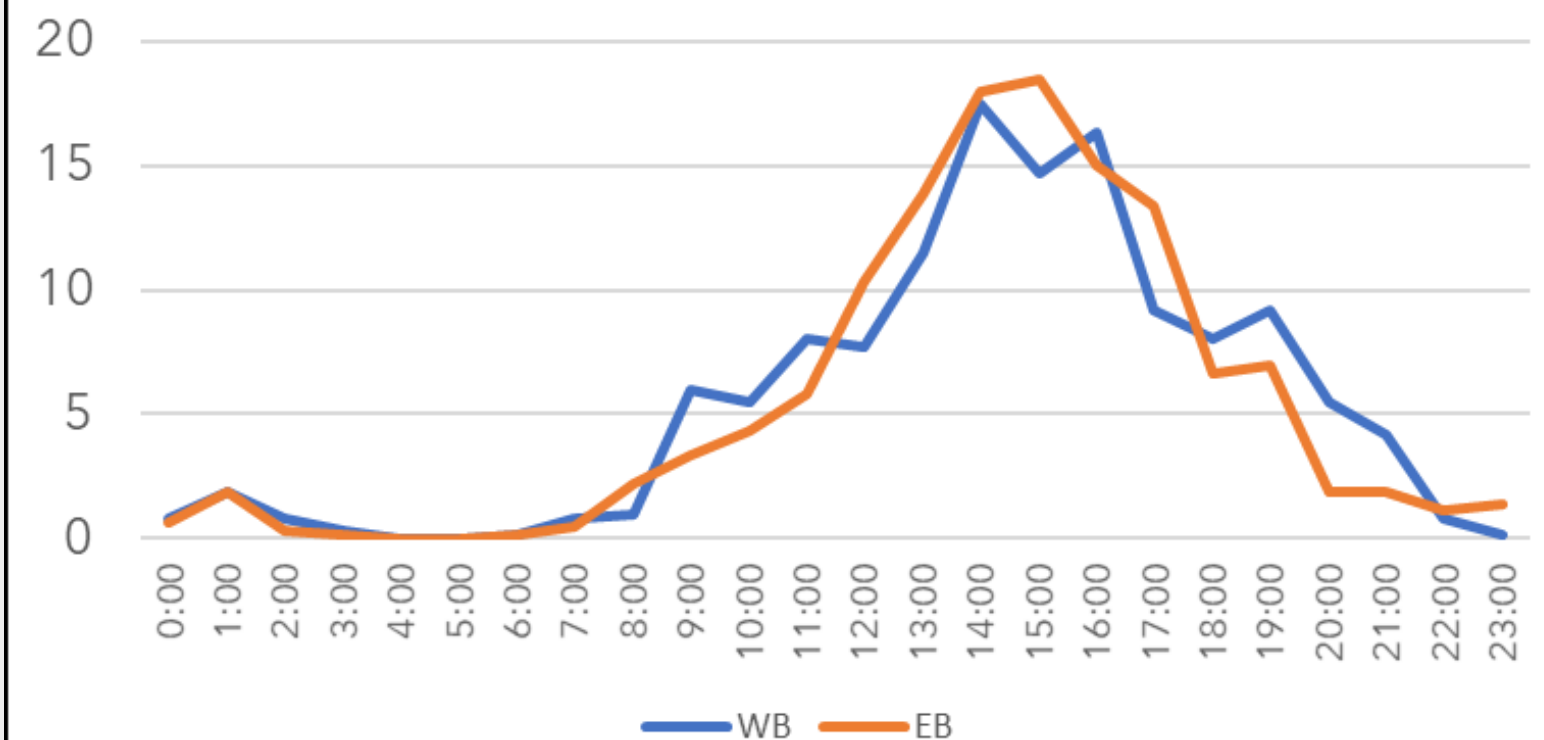


Average number of pedestrians per hour on weekend days only

Average Hourly Weekday Profile



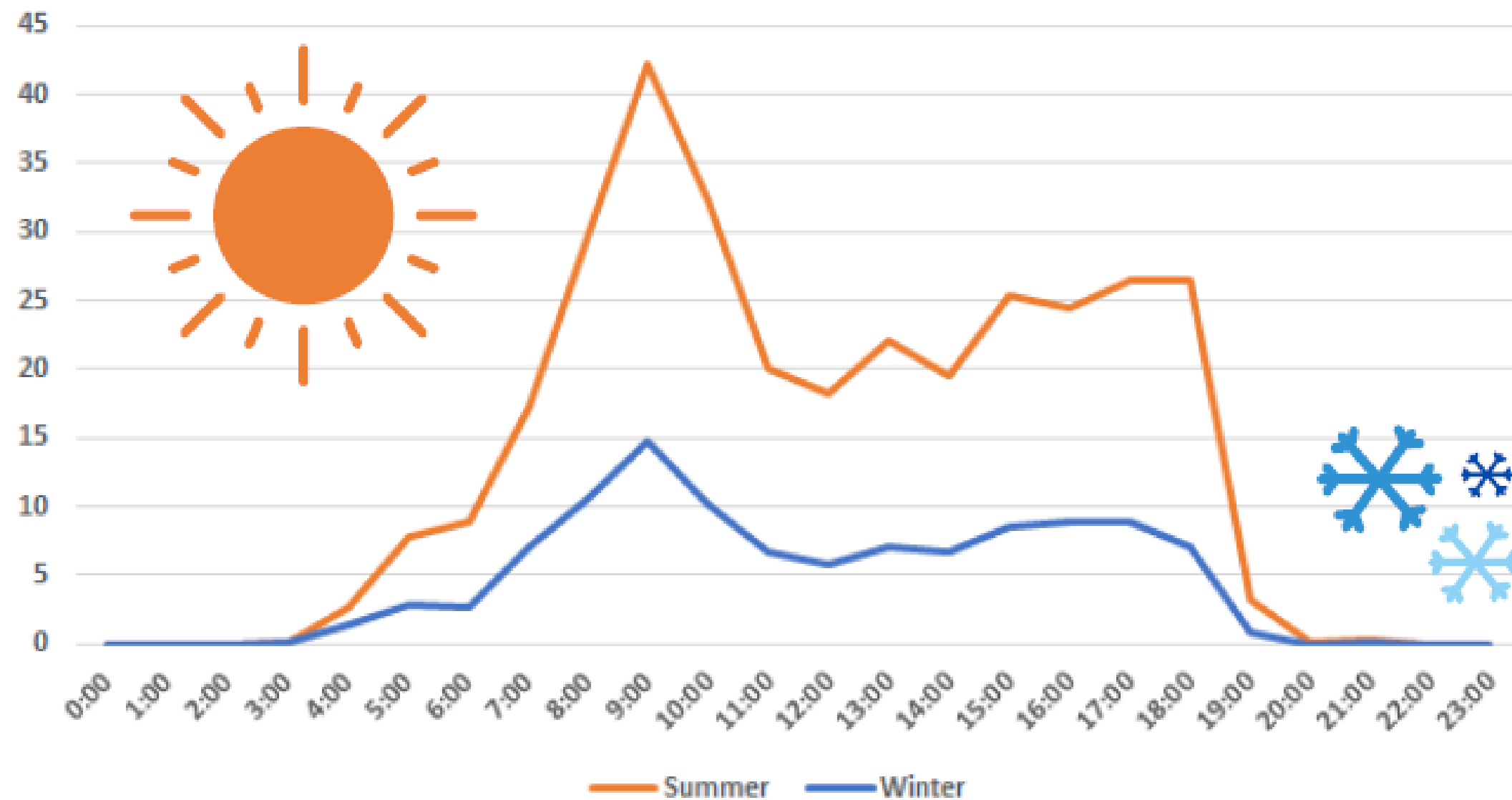
Average Hourly Weekend Profile



BIKE/PED COUNTING

Seasonal Count Comparison

Average Hourly Profile: Londonderry Rail Trail



BIKE/PED COUNTING

Prioritization

- Rated existing sites (0-3)
- Connectivity/importance
- Top 10 lists (trails/sidewalks)
- 3 Tiers
 - 1: Annual
 - 2: Biennial
 - 3: Occasionally/as needed
- Counting Schedule

Top Trail Locations (max score = 15)				Tier 1 (annual)
1	T-006	Hands Across the Merrimack Bridge	15	
2	T-027	Goffstown Rail Trail @ Mast Road crossing	14	
3	T-028	South Manchester RT @ Gold Street	14	
4	T-002	Goffstown Rail Trail @ Moose Club Park Road	13	
5	T-004	Londonderry Rail Trail @ Sanborn Road	13	
6	T-031	Heads Pond Trail (Hooksett)	13	
7	T-010	New Boston Rail Trail @ Lang Station trailhead	12	
8	T-013	Windham Rail Trail @ Depot	12	
9	T-038	Derry Rail Trail near Hood Park	12	
10	T-035	Manchester Heritage Trail behind stadium**	11	
11	T-001	Dorrs Pond Trail, north side	11	Tier 2 (biennial)
12	T-030	South Manchester RT near South Beech Street	11	
13	T-022	Hooksett Riverwalk Trail	10	
15	T-037	Piscataquog Trail on ramp to HAM Bridge	10	
16	T-019	Piscataquog Trail @ South Main Street	9	
17	T-026	Rockingham RT by Front Park	9	
18	T-008	Rockingham RT west of Lake Shore Road	8	
19	T-011	New Boston Rail Trail east of pedestrian bridge	8	
20	T-014	Windham Rail Trail @ Derry town line	8	
21	T-016	Bedford Heritage Trail @ Moores Crossing Road	8	
22	T-020	Piscataquog Trail @ Douglas Street	8	
23	T-029	Arms Park**	8	
24	T-032	Derry Rail Trail at Bowers Road	8	
25	T-033	Derry Rail Trail off Merchants Row	8	
26	T-040	Molly Stark Bridge, Stark Park trail system	8	

BIKE/PED COUNTING

Scheduling

Top Tier Counting Priorities (at least 1 count per year)										
Location					Previous Count Dates					
					2017	2018	2019	2020	2021	2022
1	T-006	Manchester	Hands Across the Merrimack Bridge	15		10/26-11/7				3/17-4/6
2	S-006	Manchester	Granite St and Commercial St (NE corner)	15	9/8-9/28			1/4-1/24	1/8-1/27 9/10-9/22	9/15-9/29
3	T-027	Goffstown	Rail Trail @ Mast Road crossing	14			12/12-1/2	12/17-1/5	12/22-1/13	9/1-9/15
4	T-028	Manchester	South Manchester RT @ Gold Street	14				1/25-2/13 10/2-10/14	1/27-2/17	5/12-5/26
5	S-003	Manchester	Elm St at City Hall	14	6/30-7/13 11/30-1/2	1/12-4/26 12/15-1/3	12/12-1/2	3/20-4/16* 12/16-1/6	12/22-1/18	7/7-7/21
6	T-002	Goffstown	Rail Trail @ Moose Club Park Road	13		6/23-7/12	1/5-1/24	10/16-10/28	6/24-7/8	6/23-7/7
7	T-004	Londonderry	Rail Trail @ Sanborn Road	13		8/11-8/23	2/15-3/6	10/2-10/14	2/17-3/10 8/12-8/26	2/24-3/17
8	T-031	Hooksett	Heads Pond Trail	13				4/18-4/30	4/15-4/28	4/6-4/21
9	S-007	Manchester	Elm St and Bridge St (SW corner)	13	9/29-10/11			1/25-2/13	1/27-2/17* 9/23-10/7	9/29-10/13
10	T-010	New Boston	Rail Trail @ Lang Station trailhead	12			5/18-6/13		6/11-6/23	6/9-6/23
11	T-013	Windham	Rail Trail @ Depot	12			6/29-7/11	5/1-6/3	5/27-6/9	6/23-7/7
12	T-038	Derry	Rail Trail near Hood Park	12					7/17-7/29	7/21-8/4
13	S-005	Manchester	Elm St at Veteran's Park (car show)	12	8/17-9/8	8/25-9/6	8/23-9/6			9/1-9/15
14	S-017	Manchester	West Auburn St between Market Basket & Elm	12				9/15-9/30	9/23-10/7	9/15-9/29
15	S-014	Manchester	Bedford Street Stairs	12				2/29-3/17	3/10-3/31	

BIKE/PED COUNTING

Moving Forward

- **Purchase new counters**
- **Longer-term studies**
 - Manchester Trails, Apr-June 2022
- **Continue taking municipal input/requests**
- **More user-friendly map/data viewer**



QUESTIONS/COMMENTS



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