Transportation and Traffic Safety Subcommittee

Walking Assessment and Parent Travel Survey Recommendation

March 18, 2015

WHO WE ARE

One or more School Committee members, MPS Assistant Superintendent for Business, MPS Director of Transportation and one parent from each elementary school and the middle school (appointed through the respective PTO Presidents).

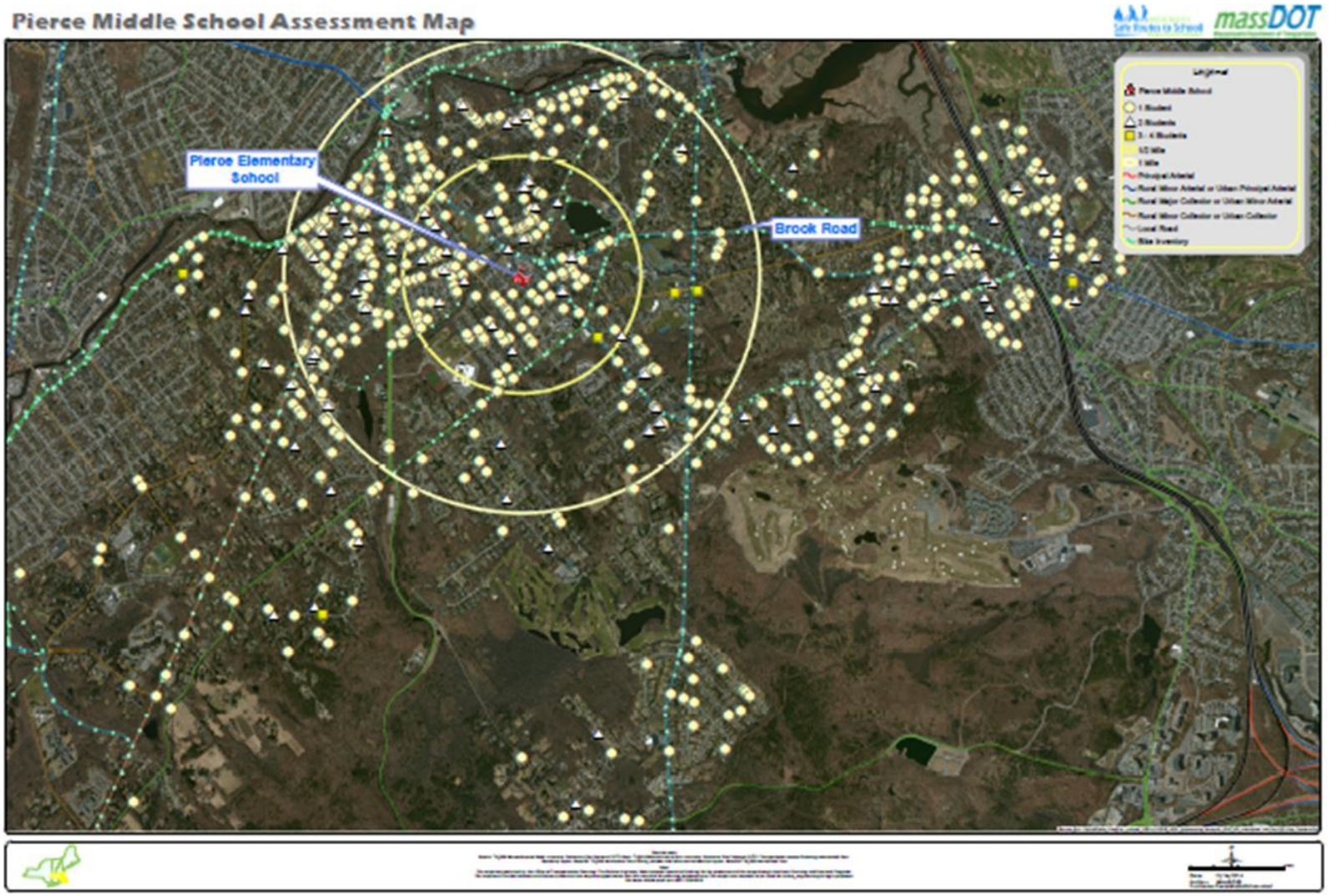
OUR CHARGE

To coordinate the development of solutions to identified transportation and traffic safety issues with the Milton Police Department, the Department of Public Works, the Milton Traffic Commission and the Town Administrator.

ISSUE: TRAFFIC CONGESTION

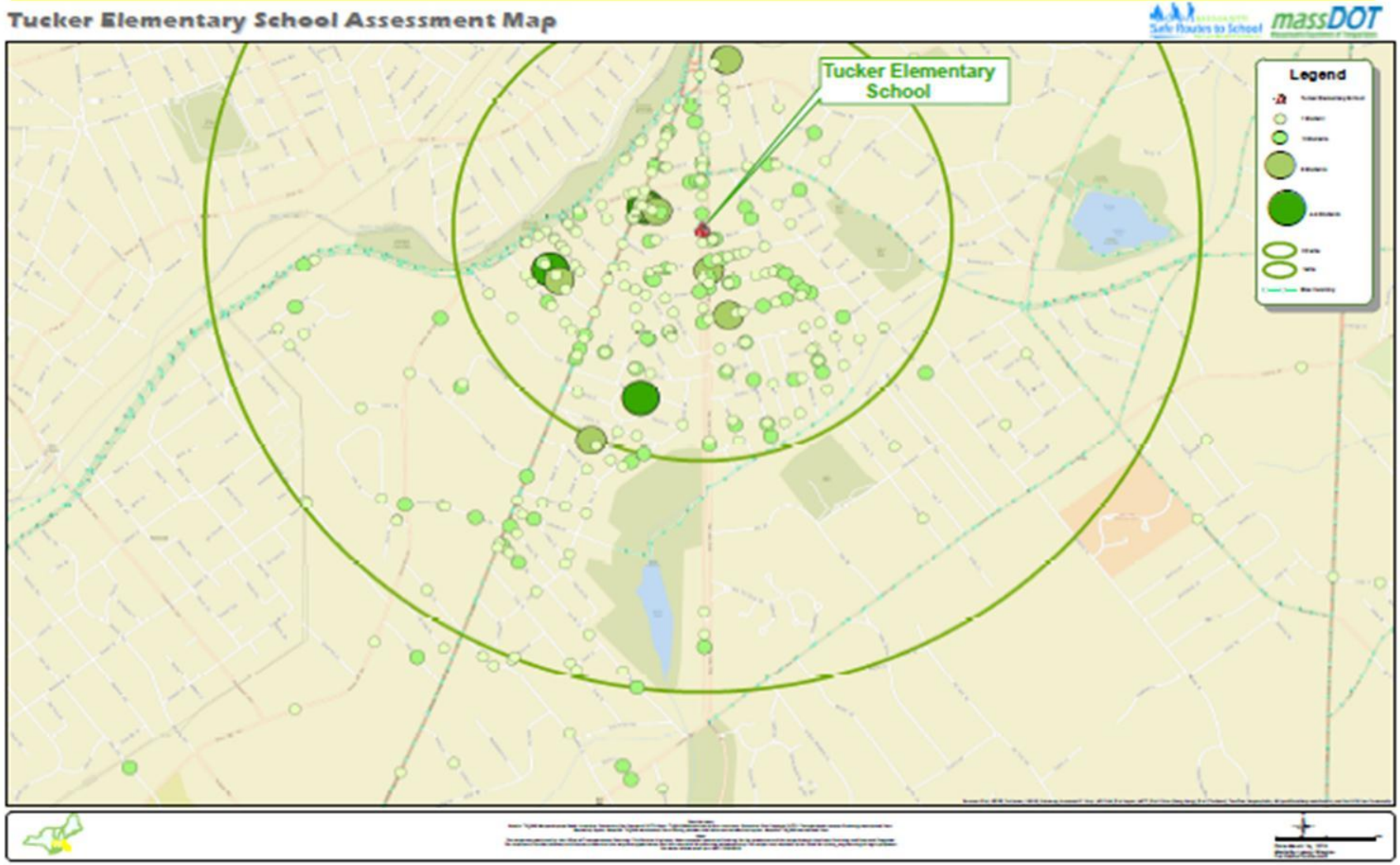
- Review Walking and Biking Enhancements
- Walking Assessments
- Safe Routes
- Parent Survey

Aerial Student Residence Map - Pierce

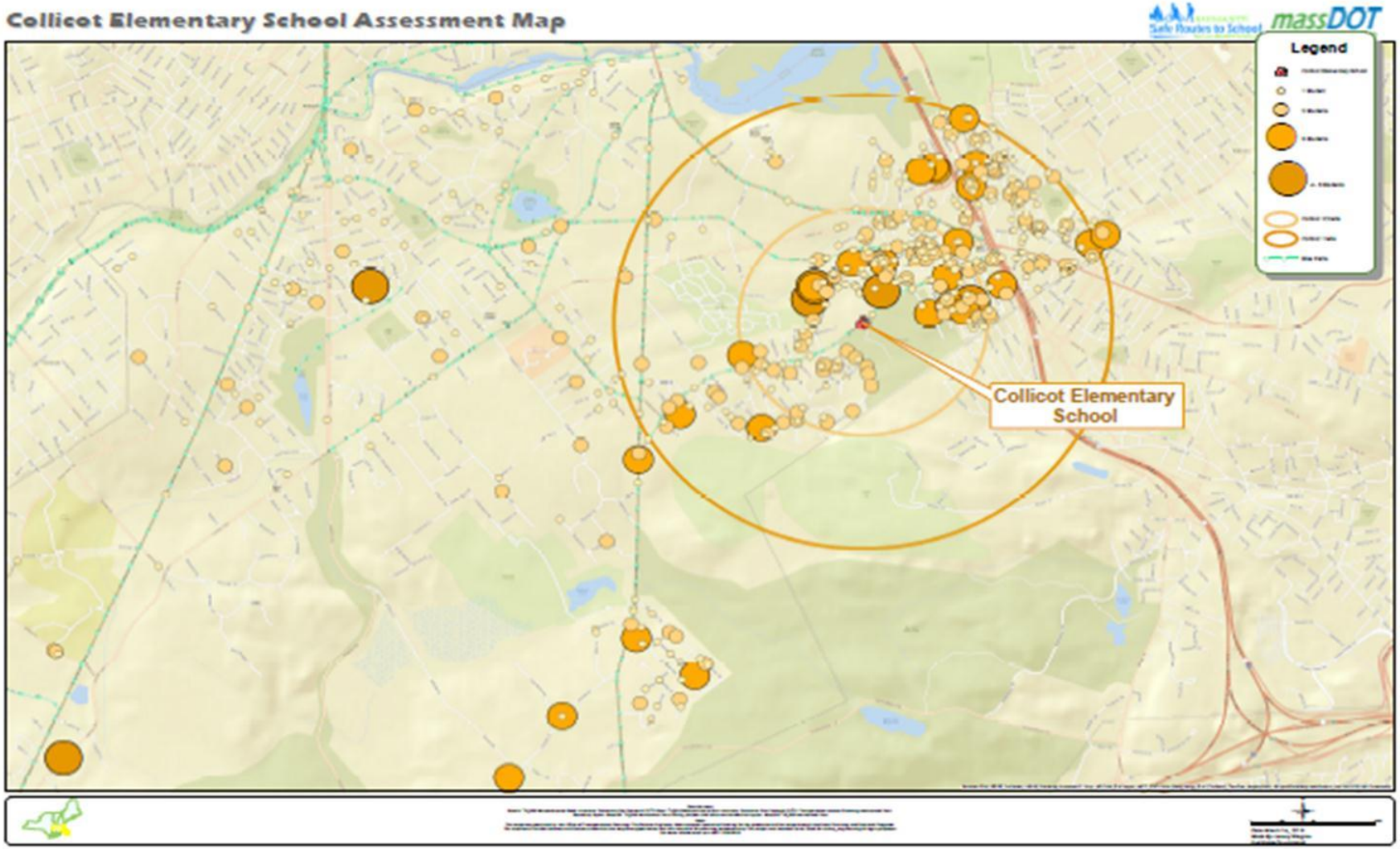


Aerial Student Residence Map - Glover

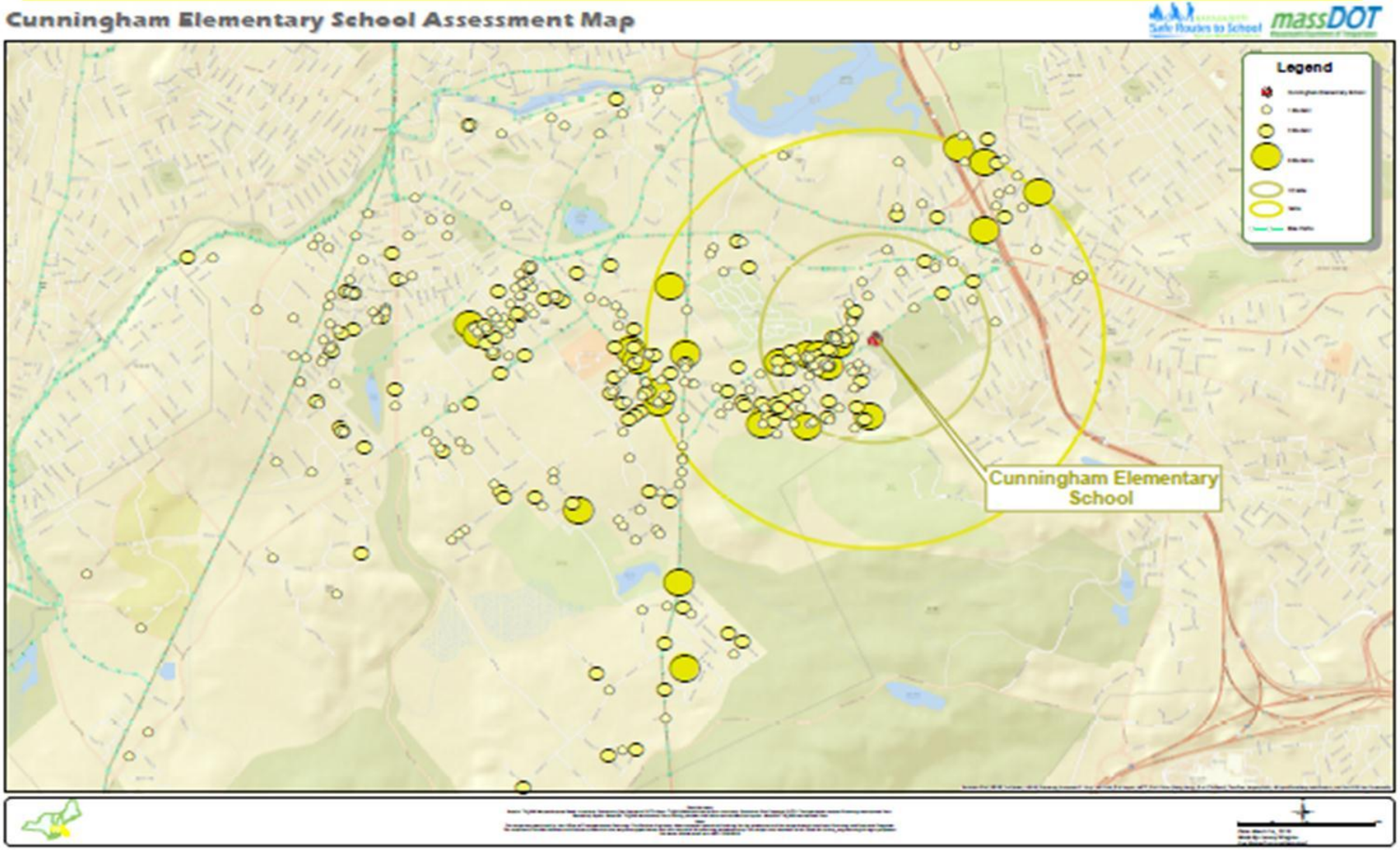
Aerial Student Residence Map - Tucker



Aerial Student Residence Map - Collicot



Aerial Student Residence Map - Cunningham



THE NEXT STEP: PARENT TRAVEL SURVEY

[Insert School Name]

Important School Travel Survey

Dear Parent or Guardian,

Your school would like to learn how students get to and from school. This information will be used to plan safe and healthy transportation options for all students.

The survey will take less than 3 minutes to complete.

Please complete one survey for each child by [Insert Date]
You can also fill out the survey online at www.masaferoutessurvey.com/[Insert District URL or Delete]
Please complete EITHER the online survey or this form -- NOT BOTH!

PORTUGUÊS: Se necessário, peça para este papel lhe ser traduzido, ou visite o site abaixo para completar uma versão online em português.

ESPAÑOL: Si fuera necesario, por favor, que le traduzcan este formulario, o visite la página web que aparece debajo para completar una versión en internet en español.

FRANÇAIS: Si c'est nécessaire, veuillez faire traduire ce formulaire d'enquête, ou rendez-vous sur le site ci-dessous pour répondre à l'enquête en ligne en français.

TIẾNG VIỆT: Nếu cần thiết, vui lòng dùng bản dịch khảo sát này hoặc vào trang web để hoàn thành khảo sát trực tuyến bằng tiếng Việt.

语种名称：如有必要，请翻译本调查问卷或访问下列网站，填写一份在线语种名称版本。

www.masaferoutessurvey.com/

1. What grade is your child in? Pre-K K 1 2 3 4 5 6 7 8

2. What street do you live on?

Name of your street:

Name of nearest cross-street:
(nearest intersection)

3. How does your child get TO school *on most days*? (choose one)

- O Family Vehicle (only children in your family)
- O Carpool (with children from other families)
- O Other (skateboard, scooter, inline skates, etc.)
- O Bike
- O Walk
- O School Bus
- O Transit (city bus, subway, etc.)

3a: If you selected "family vehicle" or "carpool" for travel to school, does the driver usually continue on to work or another destination?

- O Yes
- O No
- O Not applicable

4. How does your child get home FROM school *on most days*? (choose one)

- O Family Vehicle (only children in your family)
- O Carpool (with children from other families)
- O Other (skateboard, scooter, inline skates, etc.)
- O Bike
- O Walk
- O School Bus
- O Transit (city bus, subway, etc.)

4a: If you selected "family vehicle" or "carpool" for travel home from school, do you usually pick up your child on your way from work or another location?

- O Yes
- O No
- O Not applicable

5. How many vehicles do you have in your household? ☐

6. How many people in your household have a driver's license? ☐

WHAT WE'LL GET

MASSACHUSETTS Safe Routes to School
Mass.gov/MassDOT/SafeRoutes

massDOT
Massachusetts Department of Transportation

MASafeRoutesSurvey.org
Survey Report
Greenfield - Federal Street School
January 30, 2015

Introduction

This report will help your school plan safe transportation options for all students. It contains the results of a survey conducted at Greenfield - Federal Street School from June 2012 to June 2013. Participating parents provided information about how students travel to school and their approximate home location. If your school is interested in

- reducing traffic congestion,
- encouraging walking and biking,
- increasing safety, or
- tracking progress towards community goals,

then this information can help you identify the right strategies and best opportunities for new projects and investments.

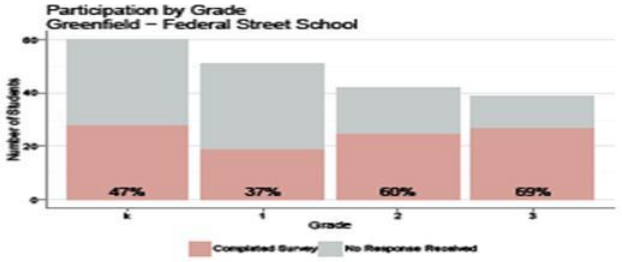
How to Read This Report

This report measures distance to school in terms of walksheds and bikesheds. A *walkshed* includes all the homes within a certain distance to school, based on mapped sidewalks, pedestrian paths, and low volume roadways. We define walksheds for 0.5, 1.0, and 1.5 mile walking distances to school. A *bikeshed* of 2.0 miles also includes multi-use paths and on-road cycle facilities, where mapped. For a map of the walksheds and bikesheds, see the last page of the report. Where "walkshed" is used alone, it always includes the bikeshed of the same distance.

Survey Statistics

- Survey Dates: 2014-11-07 to 2013-06-01
- Responses Received: 99
- School-wide Participation Rate: 52%

The figure below shows the survey participation rate for each grade. Total enrollment is based on the 2013-2014 school year, per Department of Elementary and Secondary Education. Survey responses from each grade were used to estimate the distance and travel choice for the entire grade.The higher the participation rate, the more reliable the survey results are.

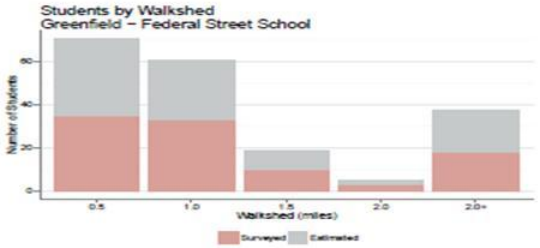


WHAT WE'LL GET

Student Proximity

- Average Distance to School: 1.4 miles
- Within 1.0 Mile Walkshed: 68%
- Within 2.0 Mile Bikeshed: 80%

The chart and table below show the number of students surveyed and the total estimated students by walkshed. Student totals by walkshed are estimated assuming that the proportion of surveyed students within each walkshed and grade is proportional to the enrolled students within each walkshed and grade.



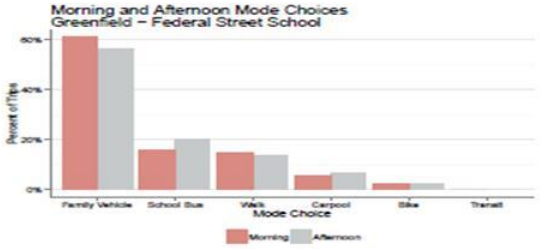
Students By Walkshed

Students	0.5	1.0	1.5	2.0	2.0+
Estimated	70	61	19	5	38
Surveyed	35	33	10	3	18
Percent	37%	32%	10%	3%	20%

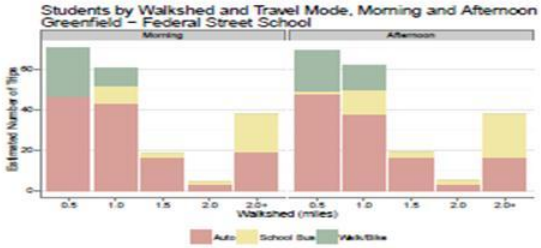
Student Travel Choices

- Walk\Bike Trips Within One Mile: 25%
- Walk\Bike Trips Overall: 17%
- Family Vehicle\Carpool Trips Overall: 65%
- School Bus Trips Beyond One Mile: 39%

The chart below shows what percent of trips are made by each travel mode in the morning and afternoon.



Walk share is 17.1% in the morning and 16.4% in the afternoon.



Travel Mode, Morning and Afternoon

	0.5	1.0	1.5	2.0	2.0+
Morning					
Auto	46	43	17	3	19
School Bus	0	9	2	1	18
Walk	24	9	0	0	0
Afternoon					
Auto	48	38	17	3	16
School Bus	1	12	2	2	21
Walk	20	12	0	0	0

WHAT WE'LL GET

Greenhouse Gas Emissions (GHG)

- Per-student GHGs within 1 mile: 1432 kg
- Per-student GHGs beyond 1 mile: 2006 kg

Transportation generates more than one-third of the total greenhouse gas (GHG) emissions produced in Massachusetts. Increasing the number of trips made by walking or biking is a critical step toward achieving state goals for GHG reduction. The following table shows the estimated annual GHG emissions (in kilograms of CO2) for students being driven to school, by walkshed. (It does not include emissions from school buses.) For comparison, the average Massachusetts household drives about 19,000 miles per year, generating approximately 8,000 kg of GHG emissions.

Buffer	Total (kg)	Per Student	Percent
0.5	51610	1147	15%
1.0	77227	1716	23%
1.5	69450	2043	21%
2.0	13797	600	4%
2.0+	121365	2697	36%

How Your School Compares

The table below compares your school's actual walk \bike share to an expected value reflecting average walking and biking rates across Massachusetts. The expected value accounts for student grade levels and proximity to school, and is based on more than 6,000 surveys collected statewide since 2011.

Actual and Expected Walk\Bike Share

	0.5	1.0	1.5	2.0	2.0+
Actual	32%	17%	0%	0%	0%
Expected	58%	28%	4%	4%	2%

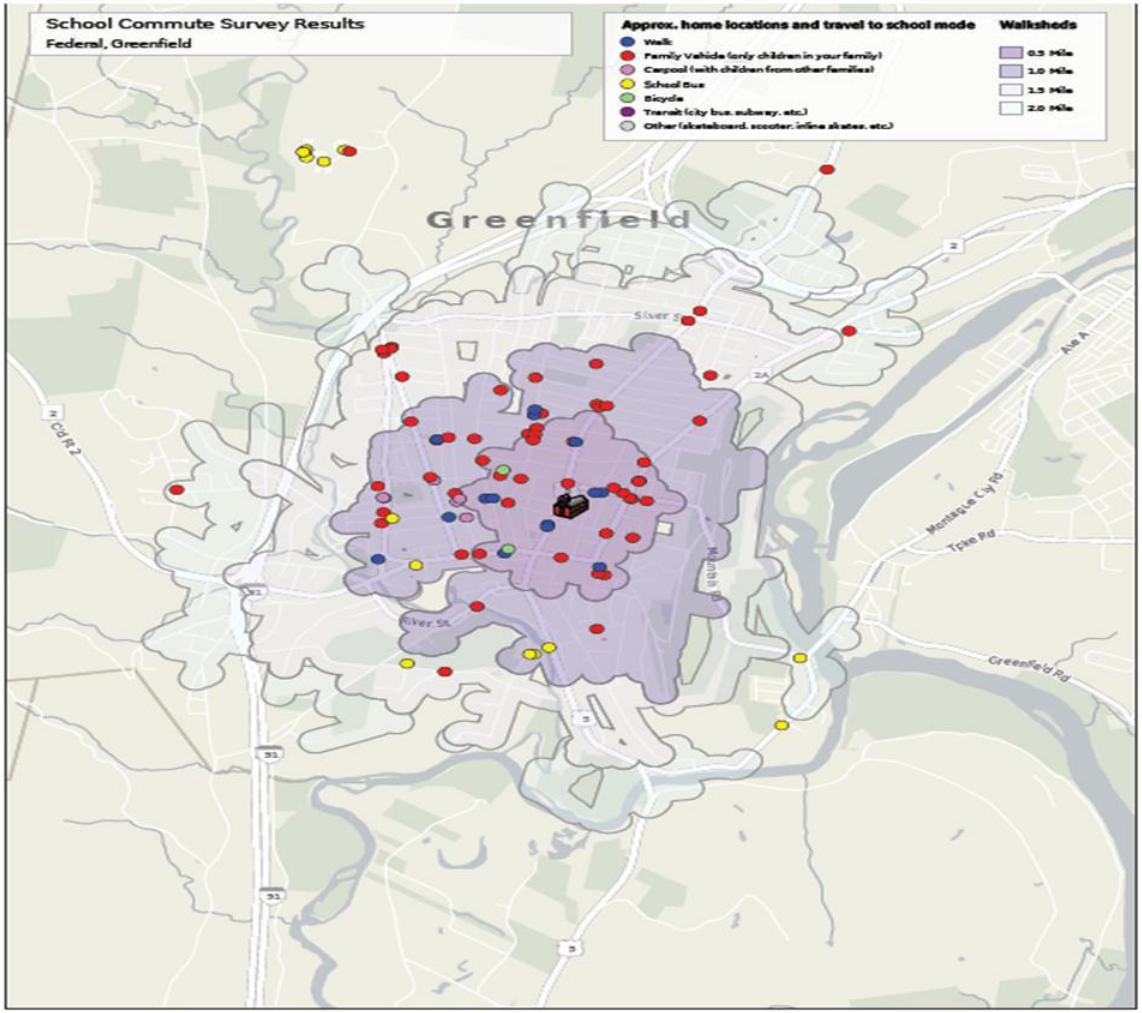
Benefits of Walking and Biking

Shifting some school commutes from auto to walking or biking can create real benefits for your community. This section estimates the traffic, physical activity, and GHG benefits that might result from increasing walking and biking. It can help you make the case for investing in Safe Routes to School programs and to track your progress over time.

If your school achieved the "expected" values described above based on grade specific averages for each walkshed, it would:

- Reduce number of daily car trips to and from school by 54.
- Provide an additional 22 minutes of physical activity for each newly participating student.
- Reduce annual auto-generated GHG emissions from between 3,488 kg to 6,096 kg, or 1% to 1.8%.

WHAT WE'LL GET



Recommendation

The committee has voted to recommend that the Superintendent and Director of Transportation coordinate with the Principals of the 4 elementary schools and the middle school to participate in the DOT Safe Routes to Schools parent travel survey by sending an email to all parents with a hyperlink to the survey and via hard copy in student backpacks. The committee recommends that the Notice go out the week of March 30th. The survey would open on April 3rd and would close on April 17th. The committee also recommends that the survey be conducted in the fall and the spring.