

**Introduction** – The Massachusetts inventory is generated by merging five constantly-changing datasets. The maps shown here are the most recent snapshots of real-world data from 8603 electronic inspection reports, 1701 food processing permits, 1464 JIRA files, 385 wholesale seafood dealer files, and 124 meat & poultry permits. YouTube videos which show how to convert datasets to maps are available here for [Google My Maps](#), [3D Map in Excel](#), and [QGIS](#).

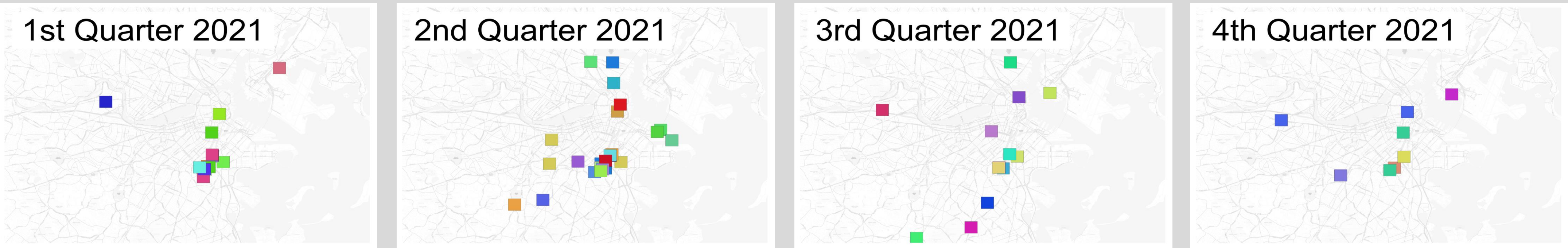
Firm	Address	Town	Insp	Insp M	Insp Ma
Firm A	5-11 DRYDOCK AVENUE	Boston	31	09/26/14	02/04/20
Firm B	306 NORTHERN AVENUE	Boston	26	08/08/14	03/09/20
Firm C	314 NORTHERN AVE.	Boston	24	07/29/14	11/08/19
Firm D	8 SEAFOOD WAY	Boston	23	10/24/14	10/10/19
Firm E	37- 45 FISH PIER	Boston	23	12/16/14	12/26/19
Firm F	310 NORTHERN AVE	Boston	22	07/15/14	11/08/19
Firm G	24 WEST HOWELL STREET	Boston	20	03/25/14	12/17/19
Firm H	10 CODFISH WAY	Boston	20	05/20/14	04/06/20
Firm I	22 FOOD MART ROAD	Boston	17	12/01/14	09/29/20
Firm J	8 SEAFOOD WAY	Boston	17	12/08/14	03/09/20

**Methods** – GIS maps are created from spreadsheets with addresses (street, city, state) and data to be mapped (name of firm, inspection date, number of violations). Addresses are geocoded from standard Excel or Comma Separated Values (CSV) files.

**3D Maps** can be made using Microsoft 365, Excel 2019, or Excel 2016. Food manufacturers and inspection rates are shown in this map as columns and heat maps. (See [How to geocode your 3D Maps data](#) and [Explore your data in a 3D Map tour](#))

**Google Maps** can be made by anyone will a standard Google account. (See [Intro to Google Maps](#)) Spreadsheets with street addresses and data can be easily uploaded. (See [How to make a Google Map](#)) Different colors can show each inspector's work assignments. (See [YouTube for working with markers](#))

**QGIS Maps** can show community-level changes over time. (See [How to use the QGIS temporal controller](#))



**Conclusion** – Massachusetts uses Google My Maps, 3D Maps in Excel, and QGIS to map and update real-world data for work planning and trend analysis. In the coming months, federal datasets from the following public sources will be used to expand these maps to evaluate over-lapping jurisdictions: [FDA Data Dashboard](#), [CFR SAN Adverse Event Reporting System](#), and [USDA FSIS Inspection Directory](#).