

Property Fire Risk Product Guide



Table of Contents

1 – Getting Started

Overview	04
Data Sources	04
Spatial Module Specifications	04
Update Frequency	04
File Format	04
Installation	04
Product Documentation	05
Projection	05
Coverage	05
GeoEnrichment Module Specifications	05
Update Frequency	05
File Formats	05
Installation	05
Address Fabric Version Compatibility	05
Coverage	05

2 – Fire Stations (Spatial Module)

Overview	07
Terminology	07
Fire Stations Table Structure – TAB & Text Format	07
SHP Format	08

3 – Property Fire Protection (GeoEnrichment Module)

Overview	11
Property Fire Protection Table Structure	11

Product Support 13

Notices 14

1 – Getting Started

In this section

- Overview
- Data Sources
- Spatial Module Specifications
- GeoEnrichment Module Specifications

Overview

Property Fire Risk is part of the Pitney Bowes Risk Data Suite, which provides comprehensive, location-based coverage of weather, geologic event, and other natural risks impacting asset owners. Each product features a spatial file(s) for visualization and a GeoEnrichment file which delivers information on a pbKey™ for operational efficiency at the address level. Products in the Risk Data Suite include:

- Earth Risk
- Coastal Risk
- Wildfire Risk
- Property Fire Risk
- Flood Risk
- Historical Weather Risk

The multiple components of the Risk Data Suite combine to give a detailed history of the natural disasters for a region. Applying this data allows for better visualization and identification of potential asset exposure. This enables better-informed decisions, reduced exposure to risk, controlled costs, and enhanced profitability.

Property Fire Risk provides the following components in the spatial module:

- Fire Stations

Property Fire Risk provides the following components in the GeoEnrichment module:

- GE Risk - Property Fire Protection

Data Sources

- US Fire Administration (USFA)
- Pitney Bowes Software

Spatial Module Specifications

Update Frequency

The Property Fire Risk spatial module is updated quarterly.

File Format

The spatial module is available in the following file formats:

- MapInfo TAB
- ESRI SHP
- Pipe-delimited Text

Installation

To install Property Fire Risk, reference all the files in the parent zipped folder named **FireStations_YYYY.MM**.

Product Documentation

Product documentation for the spatial module is located in the folder named **Documentation**.

Projection

Latitude/Longitude WGS84

Coverage

United States (including Alaska, DC, and Hawaii).

GeoEnrichment Module Specifications

Update Frequency

The GeoEnrichment module is updated quarterly.

File Formats

The GeoEnrichment module is available in the following file formats:

- Pipe-delimited text
- H2DB database.

Installation

To install Property Fire Protection:

1. Download the compressed data file to your computer.
2. Open the compressed file and find the base data folder containing the documentation file link.
3. Extract the base folder and locate the final .TXT or database file:

Example: If you downloaded a compressed file named **Distance_To_Coast_C_TXT201712.7z**, extract this file and locate a compressed file with the name **distance_to_coast_txt.7z** with a documentation link file. Finally, extract **distance_to_coast_txt.7z** to find **distance_to_coast_final_output.txt** as the data file.

4. Once extracted, data can be loaded into a database, GIS software, or the Pitney Bowes Spectrum Technology Platform.

For more information on using Pitney Bowes tools, please visit the [MapInfo® Pro support page](#) or the [Spectrum support page](#).

Address Fabric Version Compatibility

All risk databases require the Address Fabric, April 2019 vintage except Crime Index, which is compatible with the Address Fabric, July 2018 vintage.

Coverage

United States (including Alaska, DC, and Hawaii).

2 – Fire Stations (Spatial Module)

In this section

Overview

Terminology

Overview

The Fire Stations spatial module contains a single table – the Fire Station table – which holds point data for fire stations in the US, including location information and telephone numbers. It also contains information about each local fire department, including telephone and fax numbers, the name of the county served by that department, the type of department (volunteer/career), and the number of fire stations associated with it.

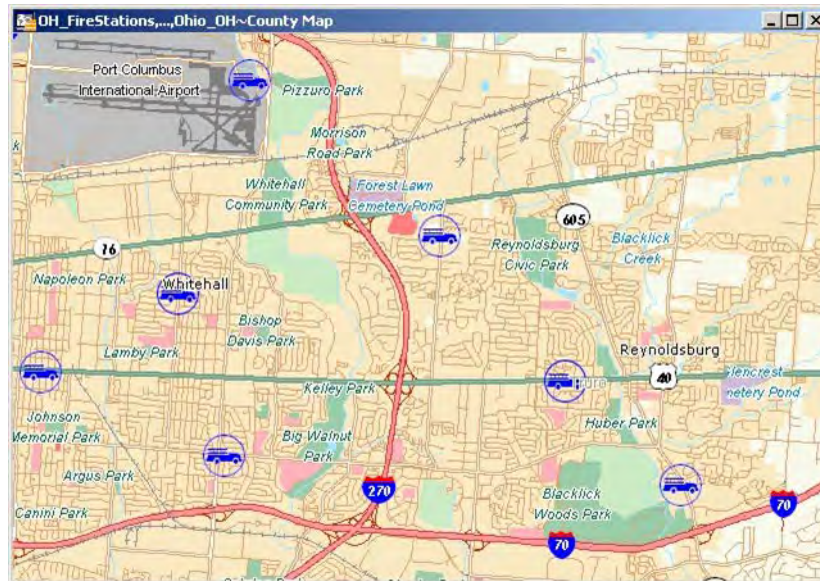


Figure 01 - Fire station data overlaid onto MapInfo StreetPro workspace map of Ohio

Terminology

Fire department

A collection of fire stations serving a specific geographical region.

Fire station

A specific location with personnel and equipment required to fight fires within the fire department's geographical service area.

Fire Stations Table Structure – TAB & Text Format

Field	Type (Length)	Description
Department_ID	INTEGER	Fire department ID.
Name	CHAR (120)	Fire department name.
DeptAddress1	CHAR (65)	Department's physical address.
DeptAddress2	CHAR (65)	Department's physical address.
DeptCity	CHAR (30)	Department's physical address city.
DeptState	CHAR (2)	Department's physical address state.

Field	Type (Length)	Indexed	Description
DeptZip	CHAR (5)	No	Department's physical address ZIP Code.
DeptZip4	CHAR (4)	No	Department's physical address ZIP+4.
DeptPhone	CHAR (15)	No	Department's phone number.
DeptFax	CHAR (15)	No	Department's fax number.
DeptCounty	CHAR (30)	No	County served by fire department.
DepartmentType	CHAR (20)	No	Department type (volunteer, career, etc.)
NumberOfStations	INTEGER	No	Number of stations operated by this department.
DptLocOnly	LOGICAL	No	When True , the department location is an administrative office only.
Station_ID	INTEGER	No	Unique identifier for fire station.
StationNumber	CHAR (20)	No	Station number within this department.
StationAddress1	CHAR (65)	No	Station address
StationAddress2	CHAR (65)	No	Station address
StationCity	CHAR (30)	No	Station address city.
StationState	CHAR (2)	No	Station address state.
StationZip	CHAR (5)	No	Station address ZIP Code.
StationZip4	CHAR (4)	No	Station address ZIP+4.
StationPhone	CHAR (15)	No	Station phone number.
StationCounty	CHAR (30)	No	County in which station is located.
LocationReference	CHAR (20)	No	Station reference location (based on street geocoding or ZIP Code 4 geocoding), or fire department location if DptLocOnly is True .
Dataset	CHAR (100)	No	Product layer
Vintage	CHAR (15)	No	Current release date.
Source	CHAR (100)	No	Source of data.

SHP Format

Field	Type (Length)	Description
Dept_ID	LONGINT	Fire Department ID
Name	CHAR (120)	Fire department name
DeptAdd1	CHAR (65)	Department's physical address
DeptAdd2	CHAR (65)	Department's physical address
DeptCity	CHAR(30)	Department's physical city address
DeptState	CHAR (2)	Department's physical state address
DeptZip	CHAR (5)	Department's physical ZIP address
DeptZip4	CHAR (4)	Department's physical ZIP+4 address
DeptPhone	CHAR (15)	Department's phone number
DeptFax	CHAR (15)	Department's fax number
DeptCounty	CHAR (30)	County served by the department
DeptType	CHAR (20)	Volunteer, Career, etc.

Field	Type (Length)	Description
NumOfStn	LONGINT	Number of stations operated by this department
DptLocOnly	LOGICAL	When True, the Department location is an administrative office only (not the
Station_ID	LONGINT	Unique identifier for a Fire Station
StationNum	CHAR (20)	Station number within this Department
StnAdd1	CHAR (65)	Station address
StnAdd2	CHAR (65)	Station address
StnCity	CHAR (30)	Station address
StnState	CHAR (2)	Station address
StnZip	CHAR (5)	Station address
StnZip4	CHAR (4)	Station address
StnPhone	CHAR (15)	Station phone number
StnCounty	CHAR (30)	County where Station is located
LocatnRef	CHAR (20)	Station location reference (based on street geocoding, Zip Code 4 geocoding...), or Department location reference if DptLocOnly is true
Dataset	CHAR (100)	Product Layer
Vintage	CHAR (15)	Current release date
Source	CHAR (100)	Source of the data

3 – Property Fire Protection (GeoEnrichment Module)

In this section

- Overview
- Property Fire Protection Table Structure

Overview

GeoEnrichment Risk Data provides all information found in its spatial counterpart along with relevant proximity measurements for additional insight at the address level. All data is pre-processed so that it is immediately accessible with a pbKey™ from a geocoded address or US Address Fabric record.

Property Fire Protection Table Structure

Note: If the first, second, or third closest fire station is more than 25 miles away, fire station information will be set to blank.

Field Name	Data Type (Length)	Description
PBKEY	CHAR (17)	Unique and persistent address identifier
Place_Code	CHAR (12)	Incorporated place ID. Value will be NULL if address is located in an unincorporated place.
Place_Name	CHAR (40)	Incorporated place name. Value will be NULL if address is located in an unincorporated place.
Fs1_Department_Id	INTEGER	Fire department ID of closest fire station.
Fs1_Department_Type	CHAR (20)	Department type of closest fire station.
Fs1_Station_Id	INTEGER	Station ID of closest fire station.
Fs1_Drivetime_Ampeak	DOUBLE PRECISION	Driving time in minutes to the closest fire station during peak AM time.
Fs1_Drivetime_Pmpeak	DOUBLE PRECISION	Driving time in minutes to the closest fire station during peak PM time.
Fs1_Drivetime_Offpeak	DOUBLE PRECISION	Driving time in minutes to the closest fire station during off-peak time.
Fs1_Drivetime_Night	DOUBLE PRECISIONS	Driving time in minutes to the closest fire station at night.
Fs1_Drivedistance	DOUBLE PRECISION	Distance in miles from the closest fire station.
Fs2_Department_Id	INTEGER	Fire department ID of second-closest fire station.
Fs2_Department_Type	CHAR (20)	Department type of second-closest fire station.
Fs2_Station_Id	INTEGER	Station ID of second-closest fire station.
Fs2_Drivetime_Ampeak	DOUBLE PRECISION	Driving time in minutes to second-closest fire station during peak AM time.
Fs2_Drivetime_Pmpeak	DOUBLE PRECISION	Driving time in minutes to second-closest fire station during peak PM time.
Fs2_Drivetime_Offpeak	DOUBLE PRECISION	Driving time in minutes to second-closest fire station during off-peak time.
Fs2_Drivetime_Night	DOUBLE PRECISION	Driving time in minutes to second-closest fire station at night.
Fs2_Drivedistance	DOUBLE PRECISION	Distance in miles from second-closest fire station.
Fs3_Department_Id	INTEGER	Department ID of third-closest fire station.
Fs3_Department_Type	CHAR (20)	Department type of third-closest fire station.
Fs3_Station_Id	INTEGER	Station ID of third-closest fire station.
Fs3_Drivetime_Ampeak	DOUBLE PRECISION	Driving time in minutes from third-closest fire station during peak AM time.

Field Name	Data Type (Length)	Description
Fs3_Drivetime_Pmpeak	DOUBLE PRECISION	Driving time in minutes from third-closest fire station during peak PM time.
Fs3_Drivetime_Offpeak	DOUBLE PRECISION	Driving time in minutes from third-closest fire station during off-peak time.
Fs3_Drivetime_Night	DOUBLE PRECISION	Driving time in minutes from third-closest fire station at night.
Fs3_Drivedistance	DOUBLE PRECISION	Distance in miles to third-closest fire station.
Nearest_Water_Body	DOUBLE PRECISION	Distance in feet between location and nearest body of water. If the nearest water body is greater than 5 km away, then the record will show -99999

Product Support

If you have technical or order-related questions, you can contact our Support or Fulfillment teams directly:

Support (phone) – +1 800 367 6950

Support (email) – software.support@pb.com

Fulfillment (email) – pbs_fulfillment@pb.com

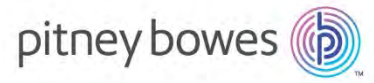
Notices

Copyright © 2007-2019 Pitney Bowes Software Inc. All Rights Reserved.

Products named herein are trademarks of their respective manufacturers and are hereby recognized. Trademarked names are used editorially, to the benefit of the trademark holder, with no intent to infringe on the trademark.

Information in this document is subject to change without notice and does not represent a commitment on the part of the vendor or its representatives. No part of this document may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, without the written permission of Pitney Bowes Software Inc.

This document was published in July, 2019 and is intended to reflect the products (table structures, coverage, etc.) as of that date. The actual data content (as opposed to product content) is updated on a regular basis and does not require documentation updates.



Pitney Bowes Software Inc.
35 Railroad Row Suite 400
White River Junction VT 05001
www.pitneybowes.com