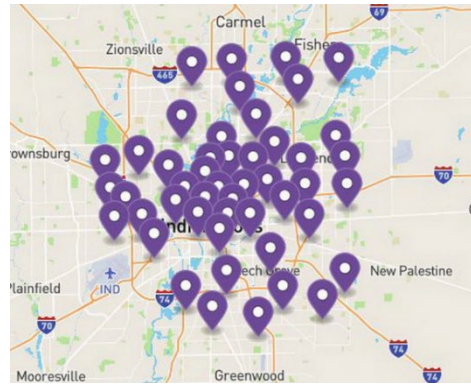
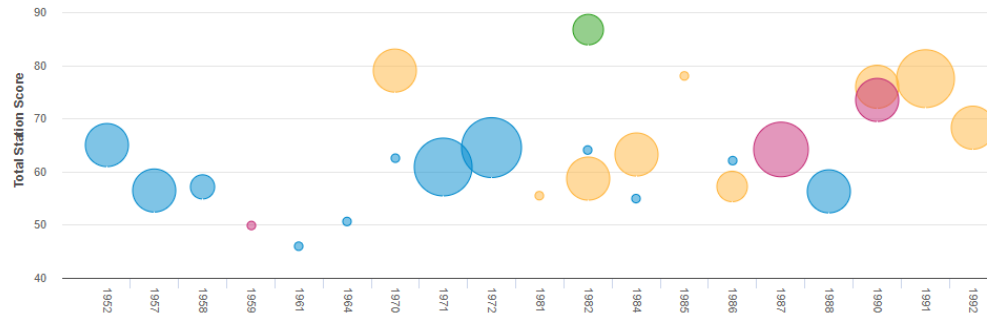




PROJECT PROFILE

Indianapolis Fire Department

Fire Station Asset Management | Indianapolis, IN



48	Old Station 84	Concrete Masonry	4	Open Web Steel Joists	5
47	Old Station 85	Reinforced Concrete	5	Open Web Steel Joists	5
51	Old Station 81	Reinforced Concrete	5	Open Web Steel Joists	5
55		Concrete Masonry	5	Wood	5
53		Reinforced Concrete	5	Wood	5

CLIENT

Indianapolis Fire Department

BACKGROUND

Formed in 1859, Indianapolis Fire Department provides emergency and fire services for the City of Indianapolis and surrounding areas. The Indianapolis Fire Department has forty-four stations divided amongst seven battalions. The forty-four fire stations house approximately 100 apparatuses and vehicles and over 1,200 personnel.

Fire stations currently in operation by the Indianapolis Fire Department were built as far back as 1952 and range in size between approximately 5,000 and 25,000 square feet.

Responsible for a significant portfolio of forty-four fire stations of various age, size, and condition, the Indianapolis Fire Department was interested in a more efficient and scalable means to evaluate and monitor the condition and functionality of their fire station assets than previous static electronic spreadsheets. The Indianapolis Fire Department also sought a more dynamic and interactive way to utilize the information wholistically to improve capital planning and replacement of the fire station facilities and assets.

SOLUTION

In close collaboration with the Indianapolis Fire Department, WJE designed and created a database using Quickbase (a web-based data management platform) that serves as an effective and dynamic depository for substantial amounts data pertaining to each fire station. Electronic forms were created to allow for Indianapolis Fire Department personnel to systematically and consistently collect and update the data pertaining to each fire station.

The database was designed to capture hundreds of data points relating to the structure, property, utilities, living and sleeping quarters of personnel, functionality, apparatus, and mechanical, electrical, heating and ventilation systems of each fire station. Algorithms were developed within the software to assign weighted scores to each category based on criteria determined by the Indianapolis Fire Department, tailored to their specific needs and challenges. This procedure produced an overall score for each station, which when compared to one another, provides meaningful and actionable information for the Indianapolis Fire Department to prioritize and make decisions regarding maintenance and renovation of their fire stations. As improvements or alterations are implemented, scores will automatically adjust and thus provide real-time data for future decision making. We also assisted with development of a station report that can summarize select data and scores for each station into a written PDF document with the click of a button.

