

RESPONSE HISTORY

The staff at Senefeld and Associates was provided the response data that the City of Muncie has made in the last four years. With the assistance of the officers of the Muncie Fire Department, the response data was put into MS Excel form. The over 6,800 responses were then transferred into a dBase IV file that permitted the data to be transferred into a Geographical Indicator System (GIS) that permits each response to be located on a map in the response area. Responses for each year were plotted to permit a review of response patterns.

With this data the staff at Senefeld and Associates plotted responses for each station and then inserted a two-mile radius from each. This was one of three methods for reviewing the extent of overlap of coverage.

Then Senefeld and Associates plotted each of the year's responses on the map of the City of Muncie. This enabled Senefeld and Associates to determine the number of responses that were occurring outside any of the two-mile circles.

Other important data that was factored into the study for station locations were the location of high rises, the high-risk hazards that are within each response areas. The railroad traffic was also considered when determining the best locations for fire stations within the City of Muncie.

In reviewing the data a number of conclusions can be drawn from the maps. Some of these are as follows:

- The number of responses to the southwest and south center areas of the City has decreased in the last year. Some of these responses are outside the corporate limits. It could be that the agency responsible for this area is no longer requesting assistance from the Muncie Fire Department.

- A large number of responses are occurring in the area to the southwest of Station 3.
- A large volume of responses is occurring to the area between Station 1 and Station 2, but fewer responses are occurring to the south of Station 2.
- The Ball State University Campus has a large number of responses and this was anticipated. Responses on the campus are to both to University structures and fraternity/sorority housing units.
- A high volume of responses is occurring in the area in close proximity to Station 1 and Station 5.
- The train traffic passes directly to the north and east of Station 3 and can result in this station being isolated for a period normally up to five minutes, several times a day.
- Responses to the north or south of the Con Rail Line can impede fire apparatus movement, both to the north and south of the rail line.
- Only a small percentage of the responses for Station 6 are occurring outside the two-mile radius.
- An increase of responses occurred outside the two-mile radius from Station 7 and Station 5 in the northwest area of the City. This area has seen a significant amount of growth ranging from multi-family housing and commercial and it is anticipated that this growth has contributed to this increase.