

COMMUNITY READINESS ASSESSMENT FRAMEWORK FOR TRANSPORTATION (CRAFT) OF SPENT FUEL BY RAIL BENCHMARKING AND GROUND-TRUTHING

Final Report

Prepared by Southwest Research Institute® for submission under
Agreement with the Council of State Governments Midwest

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ABSTRACT

This report describes benchmarking activities conducted for the Community Readiness Assessment Framework for Transportation (CRAFT) of Spent Fuel by Rail preparedness and planning decision framework tool for communities along potential spent nuclear fuel (SNF) transportation routes. By assessing communities through identification of societal and environmental factors, this decision framework can be used by community leaders and policymakers to prioritize resource allocation, develop effective communication strategies (i.e., methods, media, and constraints), and identify potentially vulnerable communities or community factors. The Council of State Governments Midwest (CSG Midwest) sponsored this initial set of benchmarking activities to further develop the framework tool and enhance its information. The CSG Midwest, their member states, and other state and regional organizations may use the framework along with other available performance-based assessment tools to support decision-making during a future SNF transportation campaign.

This project included two major components: (1) benchmarking the framework by comparing scores across various city types to provide context and meaning for individual site scores to identify representative variability within the region and to identify indicators potentially requiring scaling or weighting adjustment; and (2) refinement of indicator scoring based on the benchmarking results, including re-evaluation of the grading and weighting system to compute scores to achieve a better representation of community characteristics as reflected in the overall framework score.

Framework scores were gathered for 24 locations or cities in the midwestern United States (U.S.) The benchmarking task included a comparison of scores to define a baseline variability of the total score as well as baseline variability of scores assigned to individual indicators. The indicators were ranked according to their influence on the total city score and the relative site ranking (e.g., an indicator was considered less important if removing it from the total score would not affect the relative ranking of the cities). This benchmarking approach revealed information on indicators and aspects of the scoring system that make them important to the total city score. A first iteration of indicator score revisions was implemented, resulting in further considerations for ground-truthing discussions and potential revisions in the future. The current work provides a draft baseline to characterize a city's level of preparedness to face SNF transportation challenges, however; the framework remains preliminary given that it has undergone only an initial set of revisions at this time and has been benchmarked only for one region of the U.S.

On October 3, 2023, ground-truthing activities commenced at the Lake County Emergency Management Agency (EMA). The purpose of the ground-truthing was to present results of the benchmarking project to a small group of community leaders to (1) ground-truth the framework and gain confidence in the framework characterization of the location, (2) discuss whether adjustments to the framework tool would be warranted, and (3) discuss regional specificity or city specificity of adjustments. These results and any future planned adjustments are captured in this final report. Next steps involve implementing changes to the CRAFT tool summarized in Section 7 based on outcomes from the ground-truthing activities.

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1 INTRODUCTION AND BACKGROUND

Preparedness is key to a community's ability to respond to and recover from an adverse event, but assessing preparedness is a larger and more complex task than emergency management planning alone. With the development of proposed spent nuclear fuel (SNF) storage facilities, shipments of SNF across the United States (U.S.) may increase. Thus, assessing community preparedness, identifying vulnerable communities, and developing effective communication strategies will become increasingly important. Southwest Research Institute® (SwRI®) developed a scalable decision framework as a tool that provides a consistent, organized, and informed process for state and local decision-makers when considering resources to develop communication approaches prior to a potential SNF transportation campaign. Informed decisions and communication could prepare and benefit local, state, and Tribal governments and other stakeholders along potential SNF routes.

With funding from the Western Interstate Energy Board (WIEB), the SwRI team previously developed a limited pilot framework tool, accomplishing two major components of the framework: (1) selection of indicators central to characterizing overall community preparedness based on a review of community preparedness literature and assessment tools, and (2) development of a grading and weighting system to assign normalized scores to each indicator to support computation of a total score quantifying the level of preparedness of a community. The tool was constructed in a Microsoft® Excel spreadsheet with 31 indicators that could be manually graded based on online information and in the literature for a particular site or community. Each indicator was assigned a constant relative weight reflecting the perceived importance of the indicator to the total score. SwRI further developed the pilot framework using SwRI Internal Research and Development (IR&D) funds to reexamine whether the indicator grading scales, grading ranges, and weights were appropriate for application across the U.S. and to automate 16 out of 31 indicators using Visual Basic for Applications (VBA). Following this update, WIEB further sponsored a small "case study" task to test the framework applicability for a Western U.S. city. The case study was successful, indicating that the framework basis was sound and that it was ready to be further refined and benchmarked.

The goal of this benchmarking task is to examine scores from multiple cities to identify quantitative contrasts that can be meaningfully interpreted to represent different levels of preparedness. [Note that for the purpose of this task and report, the term "city" is used generally, and refers to a locality, regardless of size; (i.e., a "city") may be a small town or a larger metropolitan area.] The benchmarking exercise was also applied to identifying indicators that meaningfully change the final score and the relative ranking of a city. The indicator importance ranking is intended to support generating insights on factors that drive the scores, and whether such information could be used for practical decision-making. The examination of scores and controlling indicators is also intended to identify suggestions to refine the indicator grading system, including the weights, so that the framework adequately reflects the status of a community or site.

For the benchmarking study, 24 cities in the Midwest region were selected and categorized as either (1) urban locations greater than 50 miles from a nuclear power plant (NPP) (labeled as "urban away"); (2) urban locations within 50 miles of a NPP ("urban near"); (3) rural locations greater than 50 miles from a NPP ("rural away"); or (4) rural locations within 50 miles of a NPP ("rural near"). To further refine the benchmarking, this project also included a small group meeting and roundtable discussion with community leaders to ground-truth the framework, examine whether the framework properly characterizes a site, and discuss whether adjustments to the framework tool would be warranted, with potential regional or site specificity of

adjustments. Those discussions are summarized in Section 7 and identified potential changes to the *# of Fire Stations per 10,000 Residents* and *Traffic Volume* indicators and updates to the user manual so that users consider unique traffic patterns and demographic characteristics that the framework tool may not capture.

Parties interested in accessing the Community Readiness Assessment Framework for Transportation (CRAFT) of Spent Fuel by Rail tool, user manual, and other documentation should contact Dr. Osvaldo Pensado (osvaldo.pensado@swri.org) or Dr. Kristin Ulmer (kristin.ulmer@swri.org) at Southwest Research Institute (SwRI). CRAFT is copyrighted and it may be distributed under standard terms requesting no reproduction of parts of the Program by any means.

2 ASSUMPTIONS

The SwRI team developed a limited pilot framework tool beginning in 2021 that included initial assumptions that (1) all transportation would take place by rail, (2) any accident scenarios along the route would not result in radiological release, (3) the shipper of SNF would be the U.S. Department of Energy (DOE), and (4) Nuclear Waste Policy Act (NWPA) Section 180(c) funding would be available to communities. While the framework was further developed as part of another project, the team determined that the latter two assumptions were not directly related to independent societal and environmental characteristics that reflect a community's preparedness or vulnerability, and if removed, the indicators did not change or need to be adjusted as a result. For this reason, these two assumptions were removed from the framework tool. The initial two assumptions remain pertinent to the framework tool.

Twenty-four cities geographically dispersed in CSG Midwest member states were evaluated as part of this benchmarking study. The locations of the cities were selected in part, based on SNF transportation assumptions in The Council of State Governments' Midwestern Radioactive Materials Transportation Committee Route Identification Project (CSG Midwest, 2005) and the Nuclear Regulatory Commission's Spent Fuel Transportation Risk Assessment (NUREG-2125) (NRC, 2014). With the exception of Fulton, Missouri, and Cadillac, Michigan, all the cities in this benchmarking study have freight (Class 1) rail roads.

SwRI staff initially identified a variety of cities that would allow for comparison within the region and to characterize potential variability of framework scores across city types. The CSG Midwest members provided input to prioritize the cities selected. The cities selected for benchmarking are categorized as (1) urban locations greater than 50 miles from a NPP (labeled as "urban away"); (2) urban locations within 50 miles of a NPP ("urban near"); (3) rural locations greater than 50 miles from a NPP (rural away); and (4) rural locations within 50 miles of a NPP (rural near). Table 2-1 shows the category for each city and Figure 2-1 shows the geographic location of the cities.

Table 2-1. Categories of cities examined in the study

Urban Away	Urban Near	Rural Away	Rural Near
East St. Louis, IL	Benton Harbor, MI	Bellevue, OH	Blair, NE
Indianapolis, IN	Gary, IN	Cadillac, MI	Clinton, IL
Kansas City, KS	Joliet, IL	Columbus, NE	Fulton, MO
Kansas City, MO	La Crosse, WI	Fargo, ND	Monticello, MN
Oregon, OH	North Chicago, IL	North Platte, NE	Oak Harbor, OH
St. Louis, MO	St. Joseph, MI		
St. Paul, MN			
Toledo, OH			

As development of the framework tool has continued, the SwRI team identified various terms and framework tool aspects that would benefit from nomenclature changes or clarifications. The following terms are clarified for reference for this report and will be used moving forward with the framework tool:

Grade: Each indicator has associated a question to be answered. In answering each question, a “grade” is assigned as an integer from 1 to 5 based on online information and in the literature for a particular site or community. For example, for the *Population* indicator, the question is “What is the population in the area of analysis?”. The answer is assigned a grade in integers from 1 to 5, representing different population ranges: 1 for population < 2,500, 2 for population between 2,500 and 10,000, 3 for population between 10,000 and 30,000, 4 for population between 30,000 and 50,000, and 5 for population > 50,000. In the computation of indicator scores, the Framework automatically normalizes grades between 0 and 1, with 0 assigned to the minimum grade 1, and 1 to the maximum grade 5.

Weight: Each indicator is assigned a constant weight, representing the perceived importance of the indicator in the overall score or framework score. Table 2-2 provides the weights assumed for each of the 31 indicators. In the computation of the indicator score, the weights are normalized by dividing each weight by the total sum of weights across the 31 indicators. The normalized weights add to 1.

Score: The term “score” is used in two different ways as part of the tool. The “indicator score” is the product of the normalized grade and the normalized weight for each indicator, expressed as percent. The total city score, or “framework score,” is the sum of the 31 indicators resulting in a total score between 0 and 100. The scores for each city evaluated as part of this benchmarking are provided in Appendix A. Planned and executed adjustments to the indicator scores that were determined as part of this benchmarking process are described in Section 6.

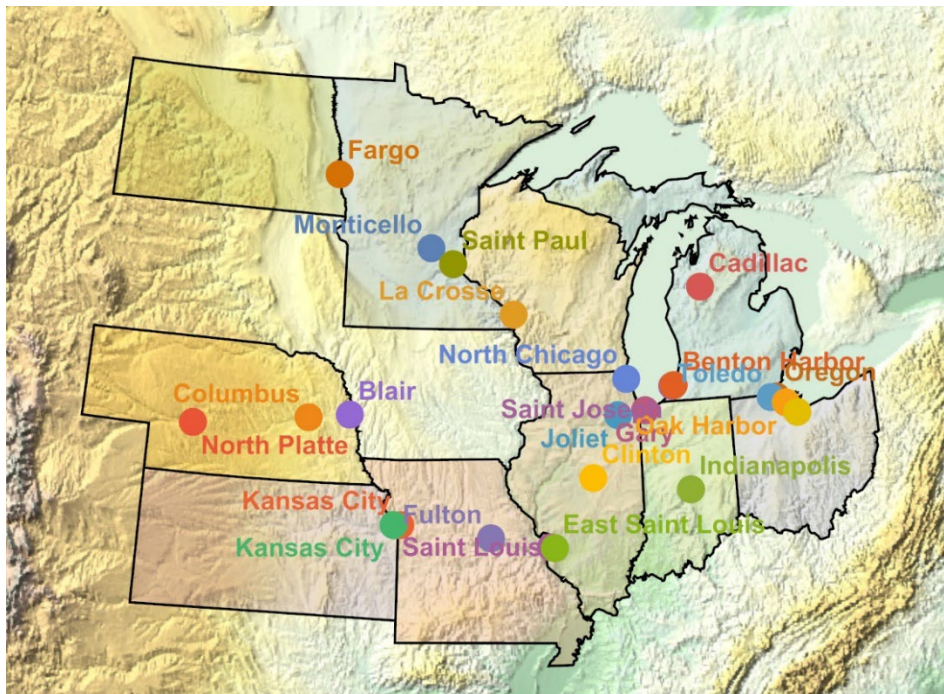
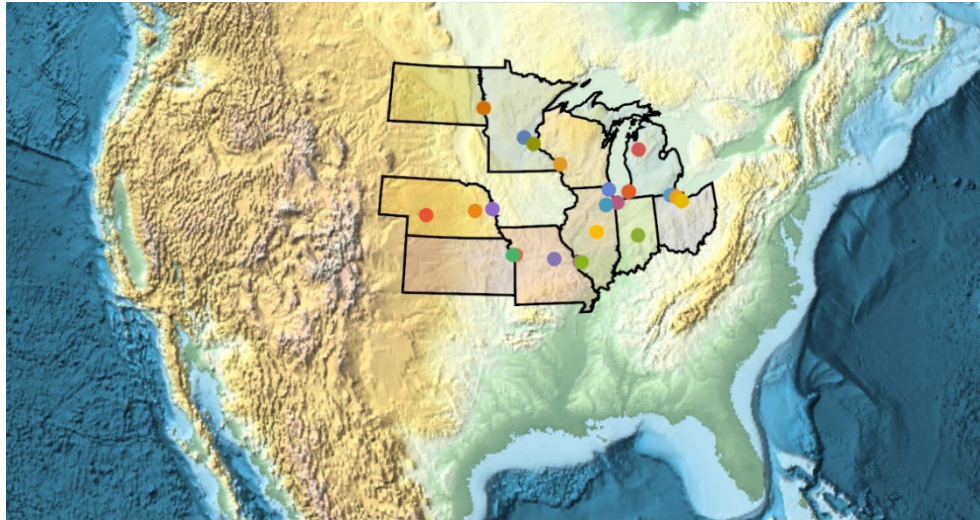


Figure 2-1. Maps indicating the geographic location of 24 cities considered for benchmarking

Table 2-2. Indicators and weights

Indicator	Weight	Indicator	Weight
Estimated EMS Response Time	4	Air Quality Attainment Status	2
# of Police Officers per 1,000 Resident	3	Particulate Matter Air Quality Index	2
# of Fire Stations	3	Ozone Air Quality Index	2
Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	3	Impaired Waters	2
Condition of Rail Infrastructure	1	Floodplains	3
Public Proximity to a Rail Line	5	Sensitive Populations by Age	1
Proximity to Restricted or Controlled Use Highway	2	Disability	1
# of Rail Crossings	2	Education - Completion of a High School Diploma or Equivalent	2
Distance to Transportation Hub	3	Population Below the Poverty Level	1
Traffic Volume	2	Unemployment Rate	2
Natural Disasters	1	Housing Assistance	2
Tribal Land	2	Population	3
Proximity to Exposure Pathways	2	Minority Population	2
Availability of Internet	2	Racial Diversity Index	2
Availability of Cellular Coverage	2	English Proficiency	1
		% of Households that Speak Spanish	2

3 BENCHMARKING TECHNICAL APPROACH

The objective of benchmarking the Community Readiness Assessment Framework for Transportation (CRAFT) of Spent Fuel by Rail tool is to ensure that the total framework score has a useful and defensible basis and provides the intended information (e.g., that individual framework scores and comparison among scores is meaningful). To do this, our benchmarking study used statistical analysis to carefully consider assigned indicator grades and weights, in part by sorting framework indicators to identify those that are more important to the city rankings. This sorting is tied to the assumption that indicator relevance is conveyed by the indicator weight assigned in the framework tool, with the goal of identifying whether some calibration may be needed in the weights or grades assigned to the indicators. The reader should consider that the indicator sorting is heavily dependent on the 24 cities selected in this study. A second consideration is that the number of cities evaluated is relatively small, limiting the capability for broad generalizations on the meaning of scores. However, this study is an important initial step toward a broader refining of city scores and how those scores could guide future actions and decision-making.

Distribution and Range of Scores

Framework scores computed for the 24 cities in the benchmarking analysis are listed in Table 3-1. The cities were ranked according to the total score. Table 3-1 includes the empirical cumulative distribution function (CDF) of the total score, which can be interpreted as a reverse rank normalized between 0 and 1. The empirical CDF is computed as

$$CDF = \frac{24 + 1 - rank}{24} \quad (3-1)$$

The empirical CDF versus the total score is displayed in Figure 3-1. The mean of the scores was 56.97 and the standard deviation was 5.55. Figure 3-1 also compares the empirical CDF to

the CDF of a normal distribution of mean 56.67 and standard deviation 5.55, displayed as a dashed s-shape curve. As more scores and data are gathered for different cities in the future, we expect that the empirical CDF of the total scores will approximate a normal distribution (i.e., a smooth s-shaped curve). Comparison of scores to quantiles of a normal CDF may provide a general basis to define “average” scores (e.g., scores close to the 0.5 quantile of the CDF), “high” scores (e.g., scores exceeding the 0.9 quantile of the CDF), and “low” scores (e.g., scores less than the 0.1 quantile of the CDF). In principle, effective actions could be implemented to improve the preparedness of a city with a low score. The complete Microsoft Excel files and framework scores for each city are provided in Appendix A.

Table 3-1. City, total score, city rank based on the total score, and cumulative distribution function of the total score

City No	City	Total Score	Rank	Empirical CDF	City No	City	Total Score	Rank	Empirical CDF
1	Monticello, MN	67.91	1	1.000	13	Oak Harbor, OH	55.60	13	0.500
2	La Crosse, WI	67.91	1	1.000	14	Gary, IN	54.85	14	0.458
3	Indianapolis, IN	65.30	3	0.917	15	Kansas City, KS	54.48	15	0.417
4	Fulton, MO	61.57	4	0.875	16	Fargo, ND	54.48	15	0.417
5	Kansas City, MO	61.57	4	0.875	17	Blair, NE	54.10	17	0.333
6	Oregon, OH	60.45	6	0.792	18	Bellevue, OH	54.10	17	0.333
7	Toledo, OH	60.07	7	0.750	19	Cadillac, MI	53.73	19	0.250
8	Clinton, IL	59.70	8	0.708	20	Joliet, IL	53.36	20	0.208
9	Saint Joseph, MI	58.21	9	0.667	21	Columbus, NE	53.36	20	0.208
10	Saint Paul, MN	57.46	10	0.625	22	Saint Louis, MO	52.99	22	0.125
11	North Platte, NE	57.09	11	0.583	23	East Saint Louis, IL	49.25	23	0.083
12	North Chicago, IL	55.97	12	0.542	24	Benton Harbor, MI	43.66	24	0.042

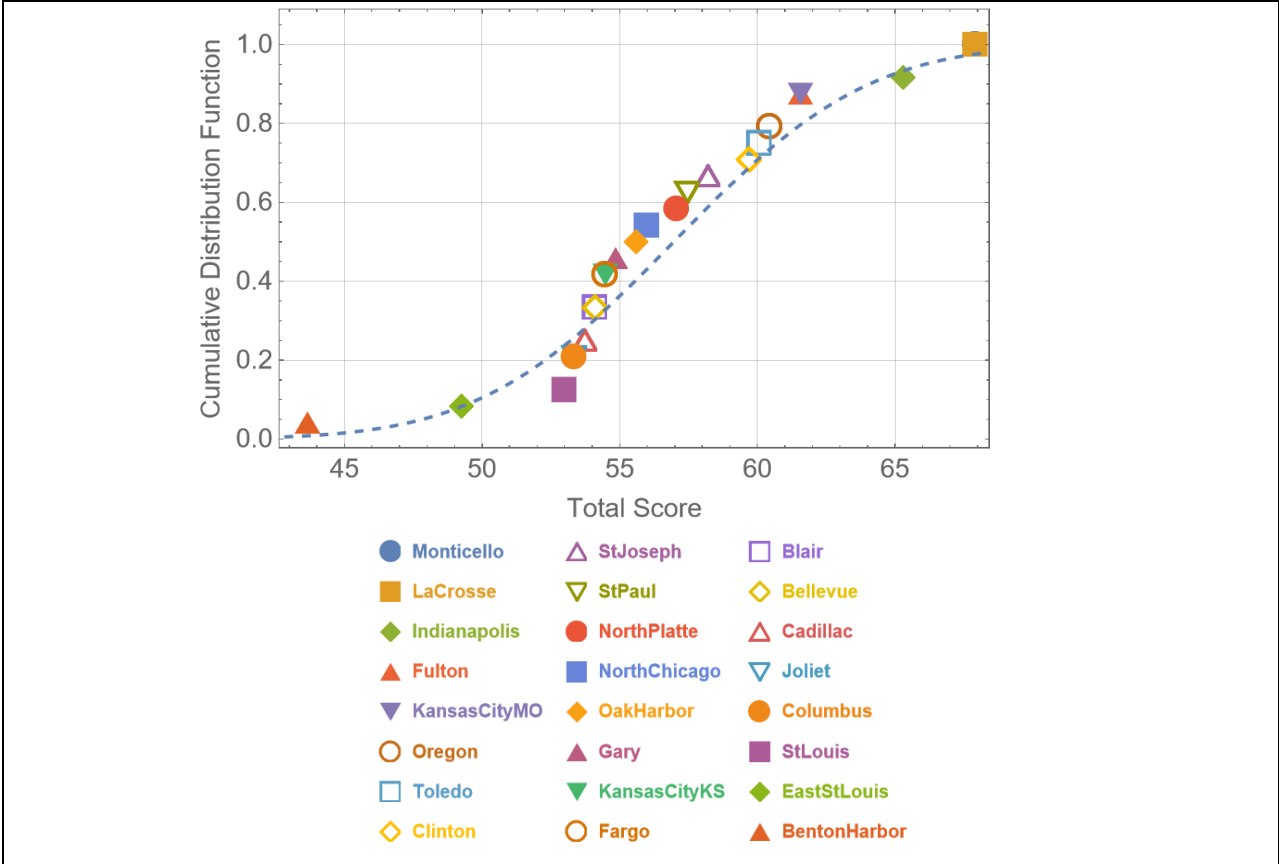


Figure 3-1. Empirical CDF of the total score, compared to the CDF of a normal distribution (smooth dashed curve).

Indicator Analysis

The total score of a city is the sum of partial scores assigned to 31 indicators (i.e., indicator scores). The user inputs a grade (automatically populated or selected from a dropdown option in the Excel file) for each indicator with options from 1 to 5, based on online information or published information in the literature for a specific city. The CRAFT tool automatically assigns a partial score to each indicator computed as the product of a normalized grade (normalized between 0 and 1; 0 for those grades with a minimum value of 1, and 1 for those grades with maximum value of 5) and a weight. The total score of a city in Table 3-1 is computed as the sum of the indicator scores. The total city scores are displayed as bars in the chart in Figure 3-2. The total score of a city is represented by a long horizontal bar, which comprises smaller bars of 31 different colors, each color representing the indicator scores. Some colors are missing in the city bars, corresponding to indicators for which the lowest grade is assigned, equal to 1. This lowest indicator grade is normalized by the framework to a score equal to zero, which is represented by a zero-width bar or a missing color in a total score bar. Alternative grading and normalization strategies could be pursued to avoid zero scores and to enhance the bar chart visualization; however, those alternatives tend to reduce the numerical contrast of high and low city scores, which may not be a desirable attribute of the scoring system. During ground-truthing activities for this project discussed in Section 7, the weights and grade variability assigned to the indicators were discussed, and community representatives well understood that missing colors corresponded to indicators with lowest scores.

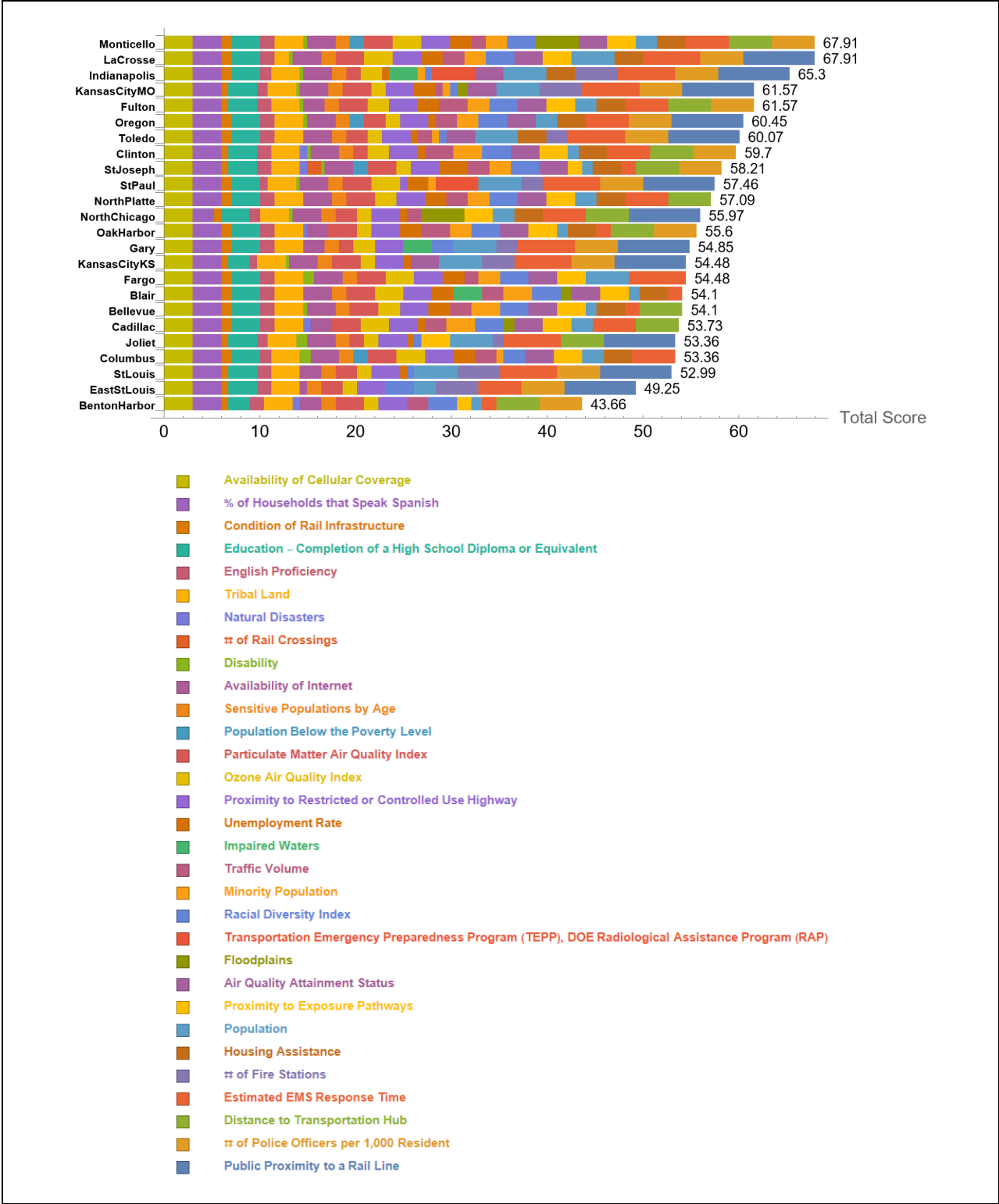


Figure 3-2. Total score of a city as a function of the indicator scores. The total score of a city (i.e., a large horizontal bar) is composed of 31 indicator scores represented by the smaller bars shown in 31 different colors.

The indicators in Figure 3-2 were sorted according to an importance index, computed as follows. To examine the relevance of an indicator to the city scores, the indicator's score was excluded from each city's total score. Then the correlation between the total city scores to the scores with one indicator excluded was computed, symbolized as r . For indicators less important to the total city score rankings, removing the specific indicator from all cities would not affect the relative city ranking, and r would be equal or close to 1. For indicators that are more important, removing the specific indicator would affect the relative city ranking, and r would be significantly less than 1. Therefore, the indicator importance index was simply defined as $1 - r$. The indicators sorted according to the importance index $1 - r$ are listed in Table 3-2. The indicator order is the reverse than in the legend of Figure 3-2.

Figure 3-3 displays selected scatter plots of the total score versus the total score with one indicator excluded to facilitate interpretation of the importance index $1 - r$. Figure 3-3 includes the top 4 most important indicators to the total city score ranking and the bottom 4 least important indicators to the total city score ranking. The specific indicator is stated on the horizontal axis label of each scatter plot. Each symbol in a scatter plot represents one city; the city symbols are the same than in Figure 3-1.

Table 3-2. Indicators sorted by most to least important to the total city score ranking according to the index $1 - r$.

Indicator	r	$1 - r$
Public Proximity to a Rail Line	0.7963	0.2037
# of Police Officers per 1,000 Resident	0.9218	0.0782
Distance to Transportation Hub	0.9301	0.0699
Estimated EMS Response Time	0.9517	0.0483
# of Fire Stations	0.9529	0.0471
Housing Assistance	0.9657	0.0343
Population	0.9659	0.0341
Proximity to Exposure Pathways	0.9675	0.0325
Air Quality Attainment Status	0.9714	0.0286
Floodplains	0.9731	0.0269
Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	0.9737	0.0263
Racial Diversity Index	0.9776	0.0224
Minority Population	0.9780	0.0220
Traffic Volume	0.9803	0.0197
Impaired Waters	0.9835	0.0165
Unemployment Rate	0.9867	0.0133
Proximity to Restricted or Controlled Use Highway	0.9923	0.0077
Ozone Air Quality Index	0.9934	0.0066
Particulate Matter Air Quality Index	0.9946	0.0054
Population Below the Poverty Level	0.9949	0.0051
Sensitive Populations by Age	0.9959	0.0041
Availability of Internet	0.9961	0.0039
Disability	0.9980	0.0020
# of Rail Crossings	0.9985	0.0015
Natural Disasters	0.9988	0.0012
Tribal Land	0.9988	0.0012
English Proficiency	0.9991	0.0009
Education - Completion of a High School Diploma or Equivalent	0.9994	0.0006
Condition of Rail Infrastructure	0.9995	0.0005
% of Households that Speak Spanish	0.9996	0.0004
Availability of Cellular Coverage	1.0000	0.0000

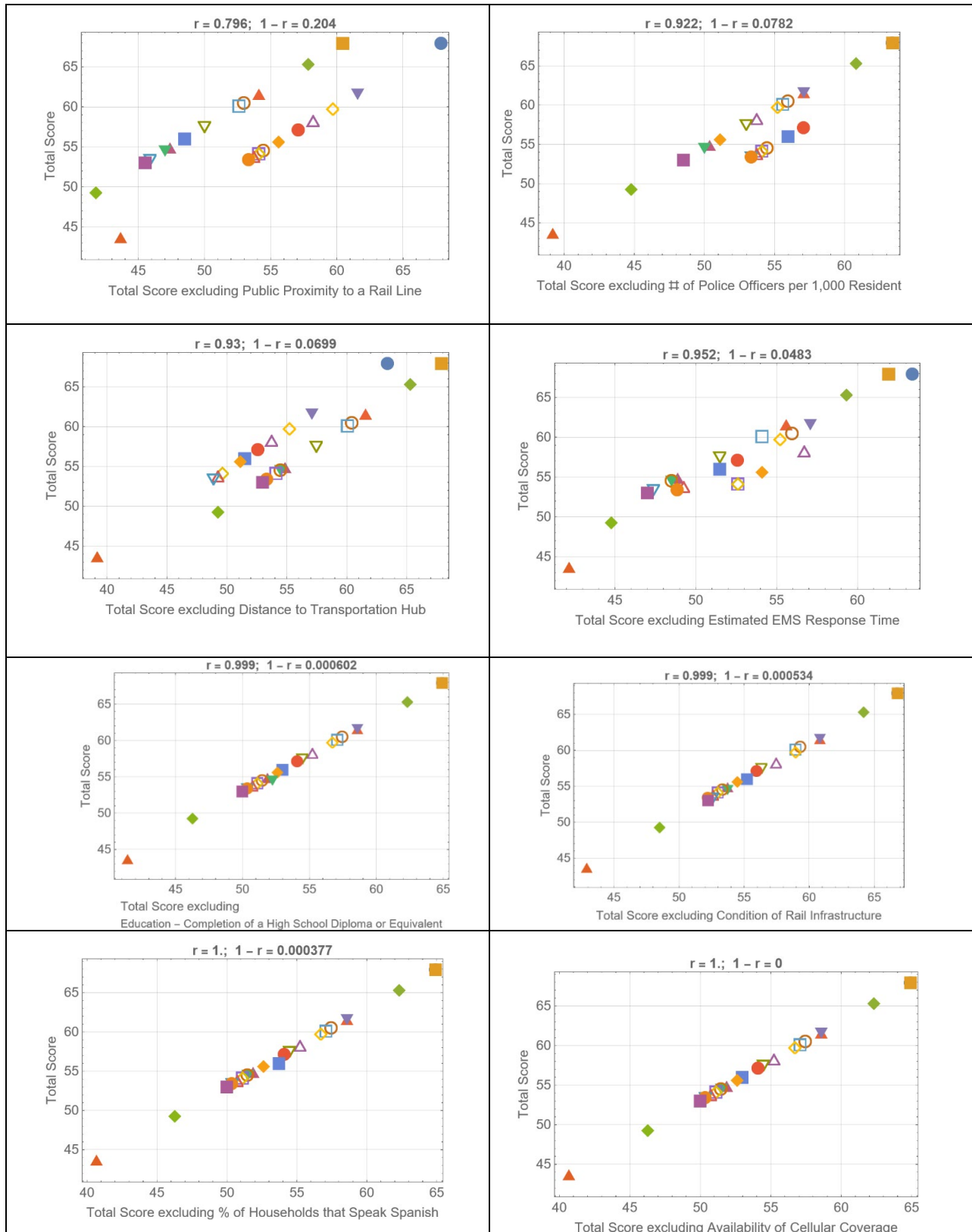


Figure 3-3. Selected scatter plots of the total score for each city versus the total score excluding one indicator. Each horizontal axis label indicates the excluded indicator; each plot header displays the correlation r and the importance index $1 - r$.

The bar chart in Figure 3-2 includes indicators sorted according to the indicator order in Table 3-2, with less important indicators to the total city score ranking located at the left, and more important indicators to the right. An equivalent graphic display is presented in Figure 3-4, to facilitate visualizing certain properties of the indicators. The bar chart in Figure 3-4 is identical to the chart in Figure 3-2, but oriented vertically. The most important indicators are located at the top of the bars, and the less important indicators at the bottom of the bars. The cities are represented by the numbers 1 to 24, listed in the same order as in Figure 3-2 and in Table 3-1 from top to bottom. The bottom plot in Figure 3-4 is another equivalent representation of information in the bar charts. Each single-color curve represents one indicator; there are 31 single-color curves in the bottom plot of Figure 3-4. The indicator curves were obtained by joining with lines the top points of the same-color bars of the bar chart. This alternative plot allows visualization of specific features that are harder to see in the bar charts. For example, the bottom single-color curves tend to be horizontal, which is consistent with the fact that the corresponding indicators only slightly affect the relative ranking of the cities. The indicator curves located at the top of the plot are more jagged the higher up they are located: the corresponding indicators more heavily influence the relative ranking of cities. The top indicator curve is relatively smooth because the cities were sorted according to the total score, but if the cities were randomly sorted, the top indicator curve would be the most jagged. A second observation is that points where indicator curves touch or meet highlight indicators with zero scores or minimal grades; these missing color bars are more difficult to identify in the bar charts.

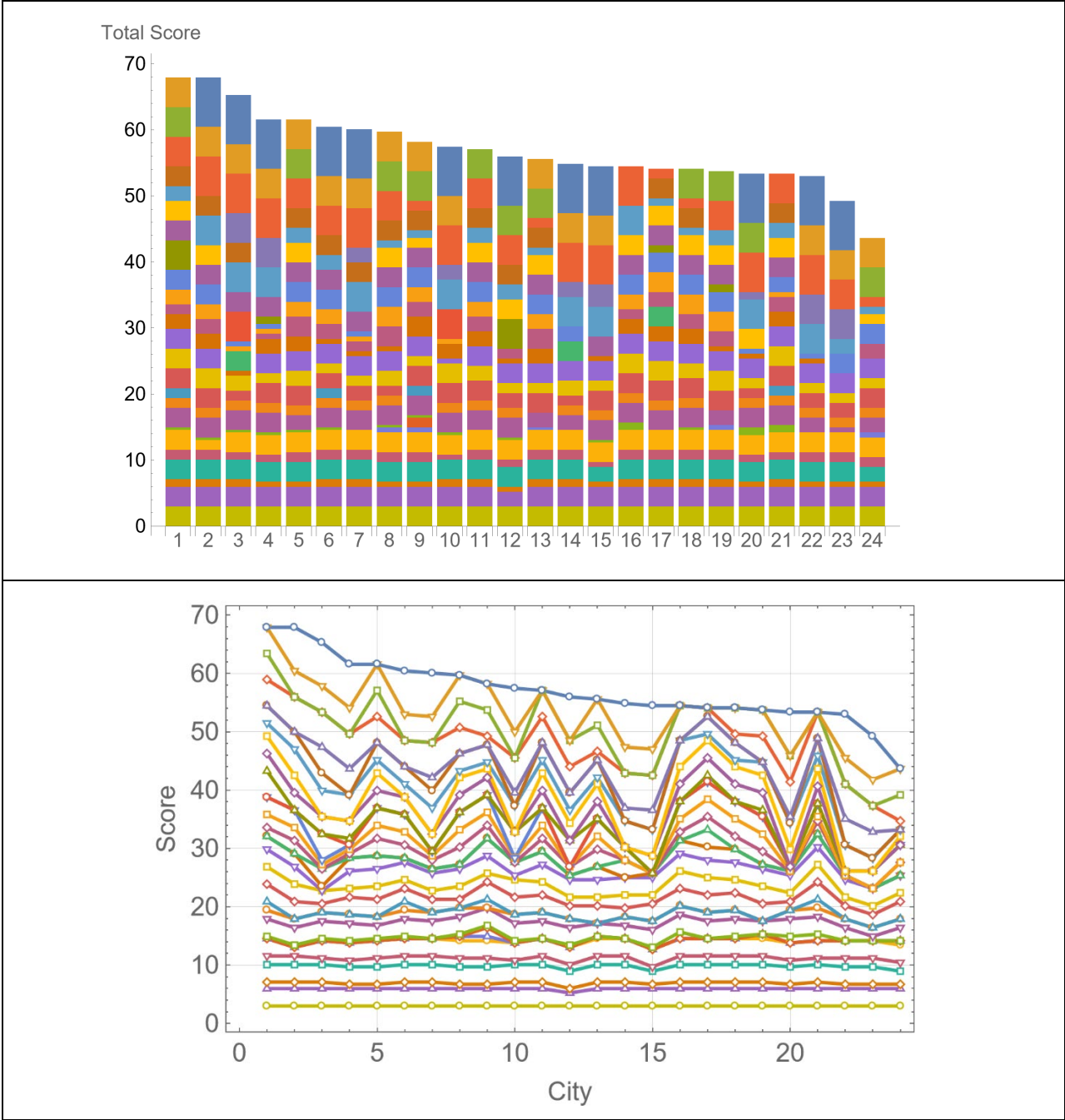


Figure 3-4. Total score of a city as a function of the indicator scores. The information in the bar chart is identical to the bar chart in Figure 3-2, the only difference is the orientation of the bars (horizontal bars in Figure 3-2 become vertical in Figure 3-4. The bottom plot was obtained by joining the heights of the same color bars with lines. The numbers on the horizontal axes represent the 24 cities, in the same order as in the chart in Figure 3-2 and in Figure 3-5.

Figure 3-5 shows a bar chart of the number of indicators with non-zero scores per city. There is a strong correlation between this number and the total score, which is highlighted in the scatter plot in Figure 3-5 (the correlation is 0.72). The first city on the vertical axis, Monticello, Minnesota, is one of the two cities with the largest number of non-zero score indicators. The city with the second-lowest total score, East Saint Louis, Illinois, is the city with the lowest number of non-zero score indicators. To improve the level of preparedness of a city, investment might be applied to those indicators with lowest grades, where applicable¹. Gary, Indiana, is interesting in that it is the city with the second-lowest number of non-zero score indicators, after East Saint Louis; however, the total score is 54.9, which is close to the average score of 56.97. It could be inferred there is ample opportunity for improvement or communication strategies for Gary, based on the framework score analysis.

¹ It is important to note that some indicator scores that are “low” are not indicators of vulnerability to be “fixed,” but rather are indicative of community characteristics that can inform resource expenditures. For example, having a high percentage of people who do not speak English in the home should not be viewed as a negative to be addressed, but it should inform communication strategies about SNF transportation campaigns to ensure that stakeholders receive information they can easily understand.

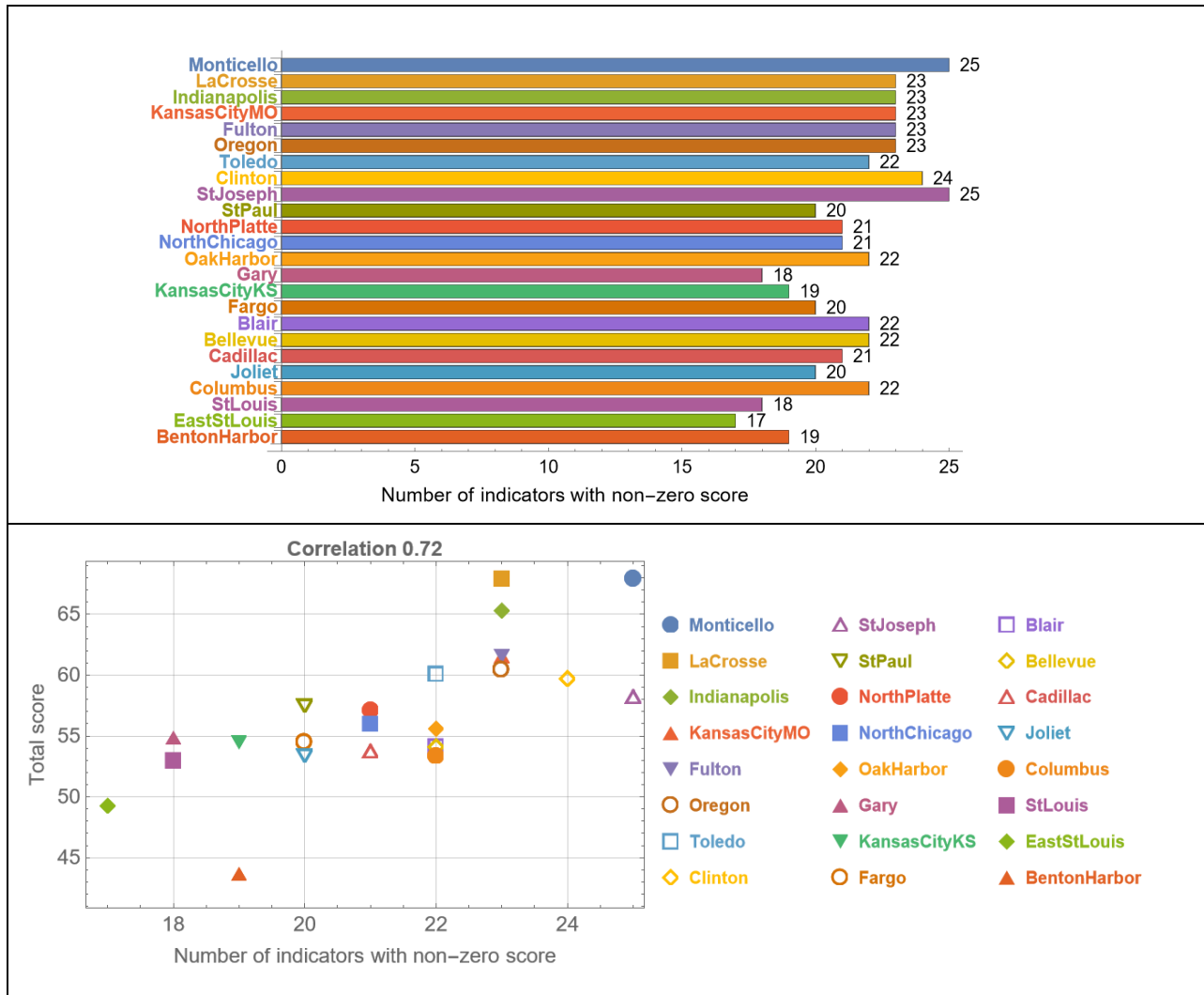


Figure 3-5. Bar chart of the number of indicators with non-zero score, and scatter plot of the total score versus the number of non-zero score indicators.

The top plot in Figure 3-6 shows stacked histograms of the indicator scores, sorted from the most important indicator at the top to the least important at the bottom. As usual, the height of a box in a histogram represents the number of times a particular score appeared in the 24 cities. By design, the indicator scores only attain specific discrete values in the framework. The number of different discrete values corresponds to the number of boxes in the histogram of an indicator. For example, there are 5 boxes for the indicator *# of Fire Stations*, corresponding to the 5 different discrete scores assigned to the 24 cities. The indicator *Housing Assistance* has 2 boxes, equal to the different number of scores assigned to the cities. The numbers to the right of the plot in Figure 3-6 correspond to the indicator weights. Not surprisingly the most important indicator, *Public Proximity to a Rail Line*, has the largest assigned weight of 5. Other indicators with large weights, 3 and 4, rank high in the Figure 3-6 stacked histogram, as expected. The indicators with the lower weights, 1 and 2, tend to rank lower in the Figure 3-6 histogram. Therefore, the framework tool properly reflects the intuitive intent of indicator weights: heavier weights were assigned to indicators perceived more important to the total score. The bottom plot in Figure 3-6 is a bar chart of the standard deviation of the indicator score. The indicator importance ranking correlates well with the indicator standard deviation, but it does not precisely follow a standard deviation ranking.

It is noteworthy that the top three most important indicators are assigned binary grades, 1 or 5. The scores of the top three indicators are evenly distributed among the cities (i.e., half of the cities were assigned a low grade equal to 1, and the other half the high grade equal to 5 in those 3 top indicators). The combination of even distribution of binary grades and the high weights (weight 5 to the top indicator, weight 3 to the next two indicators) produces significant variance in the indicator score, causing the indicator to be detected as important to the total city score. The fourth ranked indicator, *Estimated EMS Response Time*, is assigned three different grades, 2, 4, and 5 to the 24 cities. Despite the corresponding weight of 4 assigned to the *Estimated EMS Response Time* indicator, the score variance from city to city was less than that of the three top indicators, causing this indicator to be identified as less important, to the total city score than the indicators *# Police Officers per 1,000 Resident* and *Distance to Transportation Hub* (both indicators with a weight 3). This observation may be important in designing grades (scales) and weights for indicators. Indicators with binary grades and high weights are, by design, potentially important to the total score and city rank. Indicators with more variability in the assigned grades or lower weights are, by design, less important to the total score and city rank. A matrix showing the grades of each indicator is provided in Appendix B. The weights and grade variability assigned to the indicators were discussed during the ground-truthing meeting to calibrate the scoring system based on this finding.

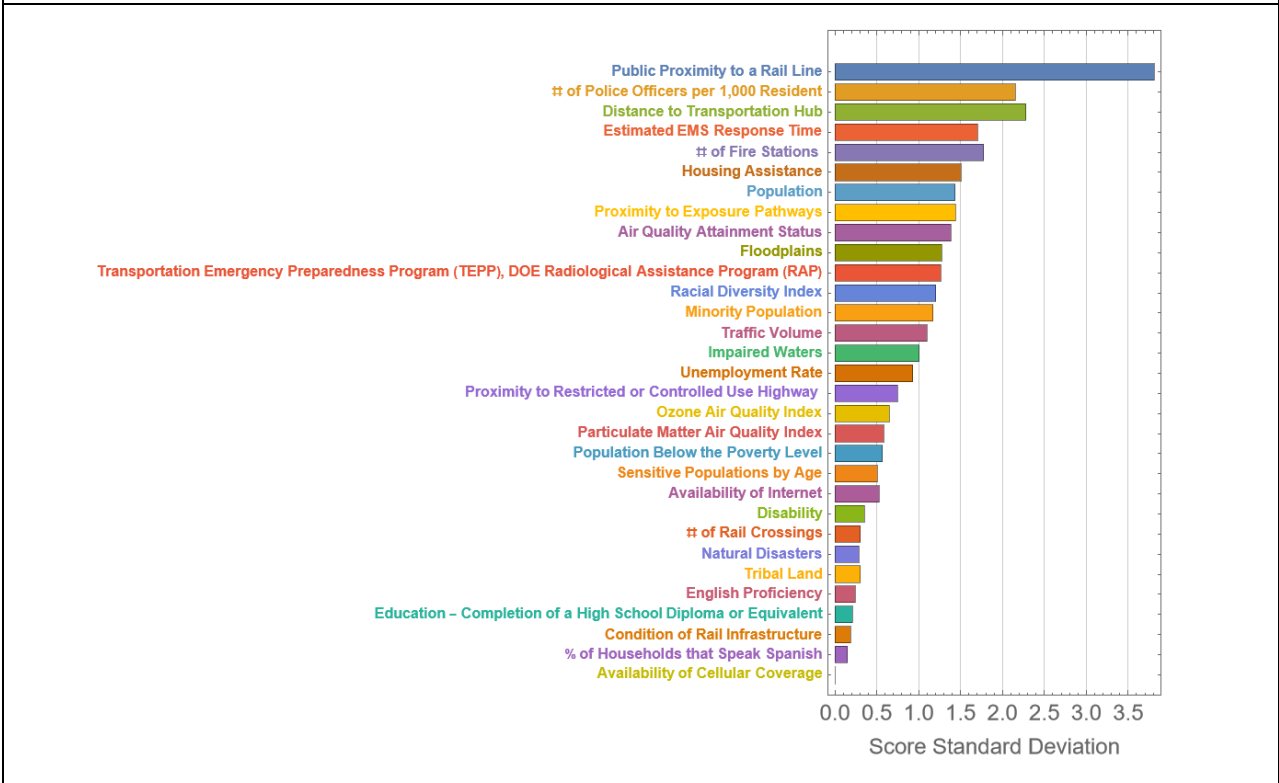
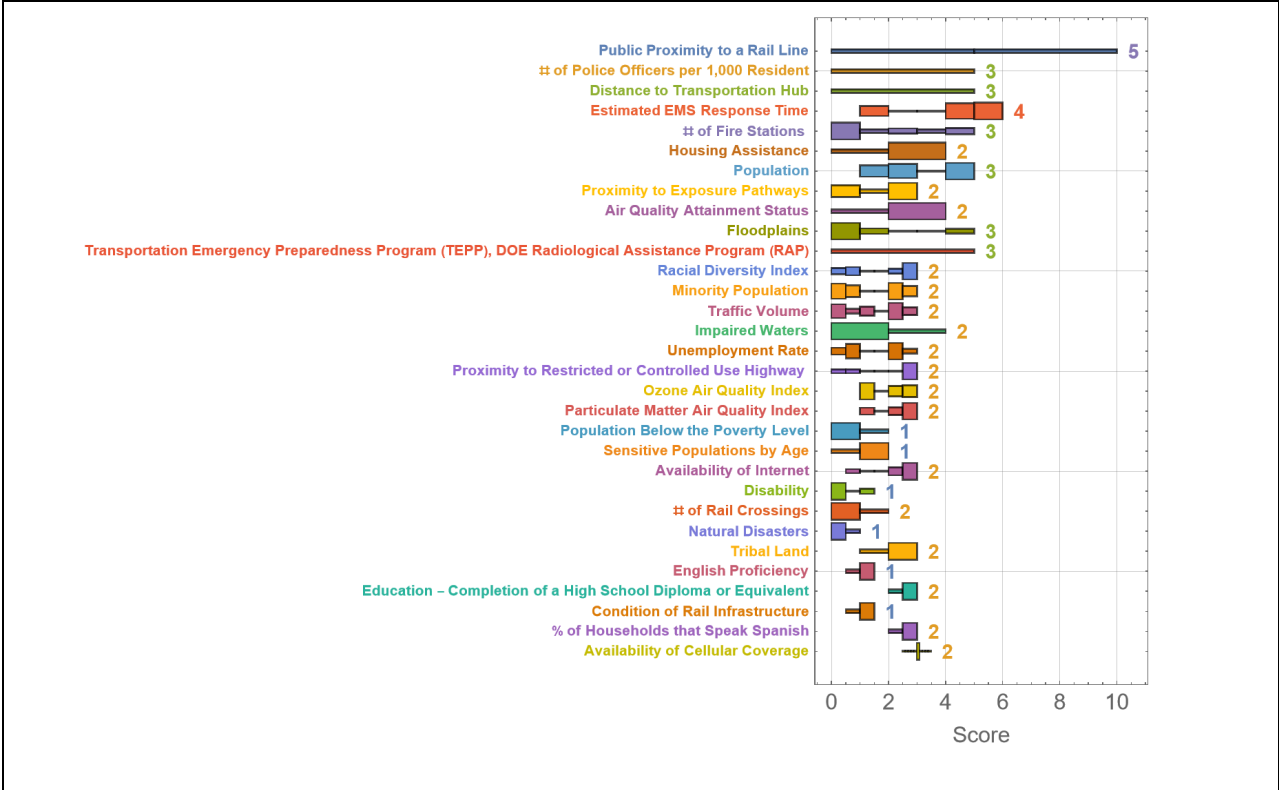


Figure 3-6. The top plot is stacked histograms of the indicator scores. The numbers to the right are the framework input weights per indicator. The bottom plot is a bar chart of the standard deviation of the indicator score.

Indicator Category Analysis

The framework groups the indicators into 8 different topical categories. The importance of those broad categories of indicators was examined, applying an identical technique to the indicator importance analysis presented in the previous section. The top plot in Figure 3-7 is the bar chart of the total city score, with colors representing the contribution of an indicator category to the total score. Indicator categories to the left are less important to the total score than categories to the right. The bottom plot in Figure 3-8 conveys equivalent information. The single-color curves represent an indicator category. An indicator category curve is the cumulative contribution of an indicator category and the indicator categories below to the total score of each city (see the Figure 3-4 explanation based on a vertical bar chart). The numbers 1 to 24 on the horizontal axis represent the cities in the order listed in Figure 3-9. The curves are sorted from bottom-up in the order of importance of the indicator category.

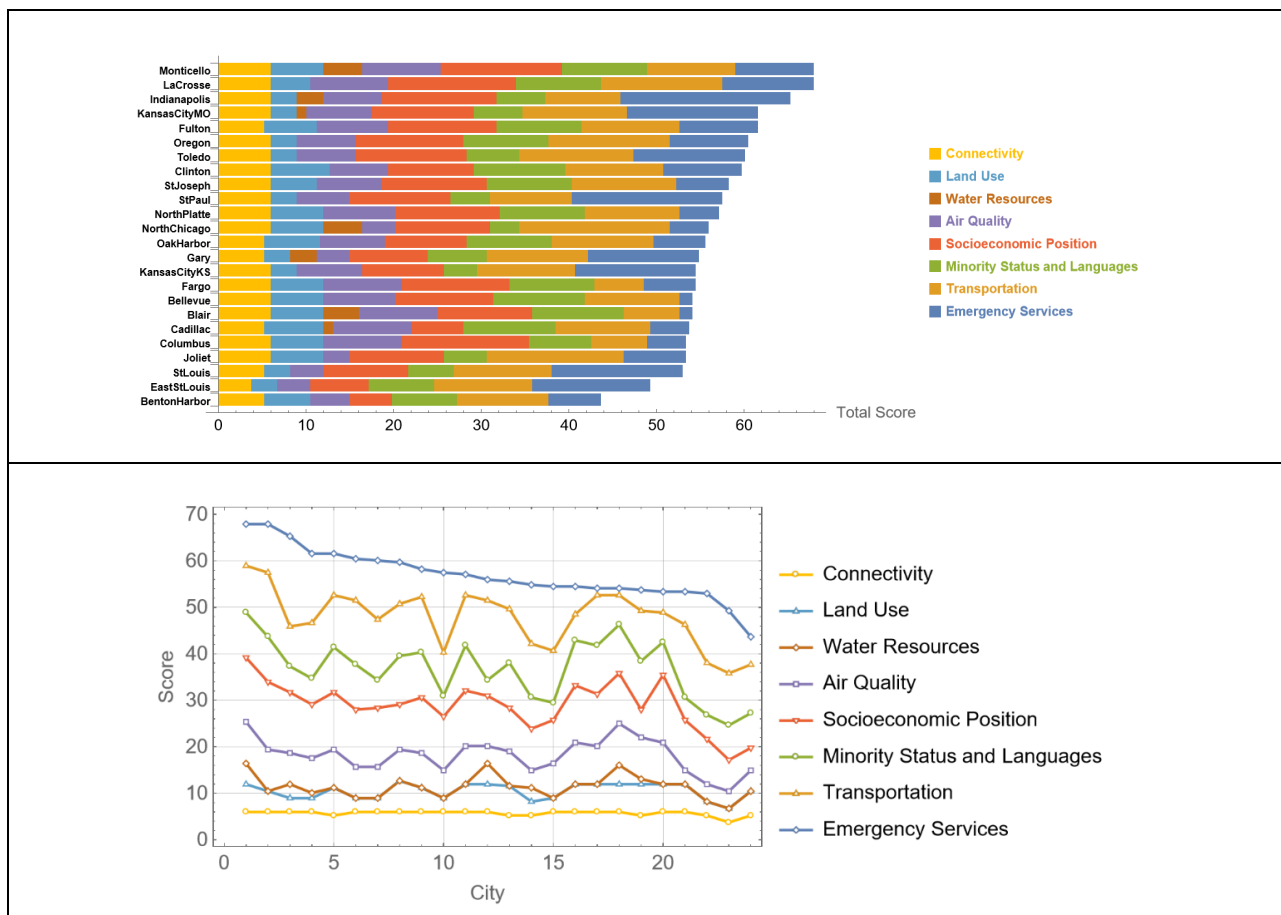


Figure 3-7. The top plot is a bar chart of the total score with colors representing the indicator categories. The curves in the bottom plot represent indicator categories and their cumulative contribution to the total score of each city.

Figure 3-8 includes two plots. The top plot is stacked histograms of the aggregated scores of indicators in a category, sorted from top to bottom in order of category importance. The boxes in the histograms have the standard meaning of bins of scores; the number of boxes does not have a specific meaning in this example. The histograms exhibit the distribution of grades in the 24 cities for the indicator categories. The bottom plot is a bar chart of the standard deviation of the category score. The category ranking correlates well with a ranking based on the standard deviation.

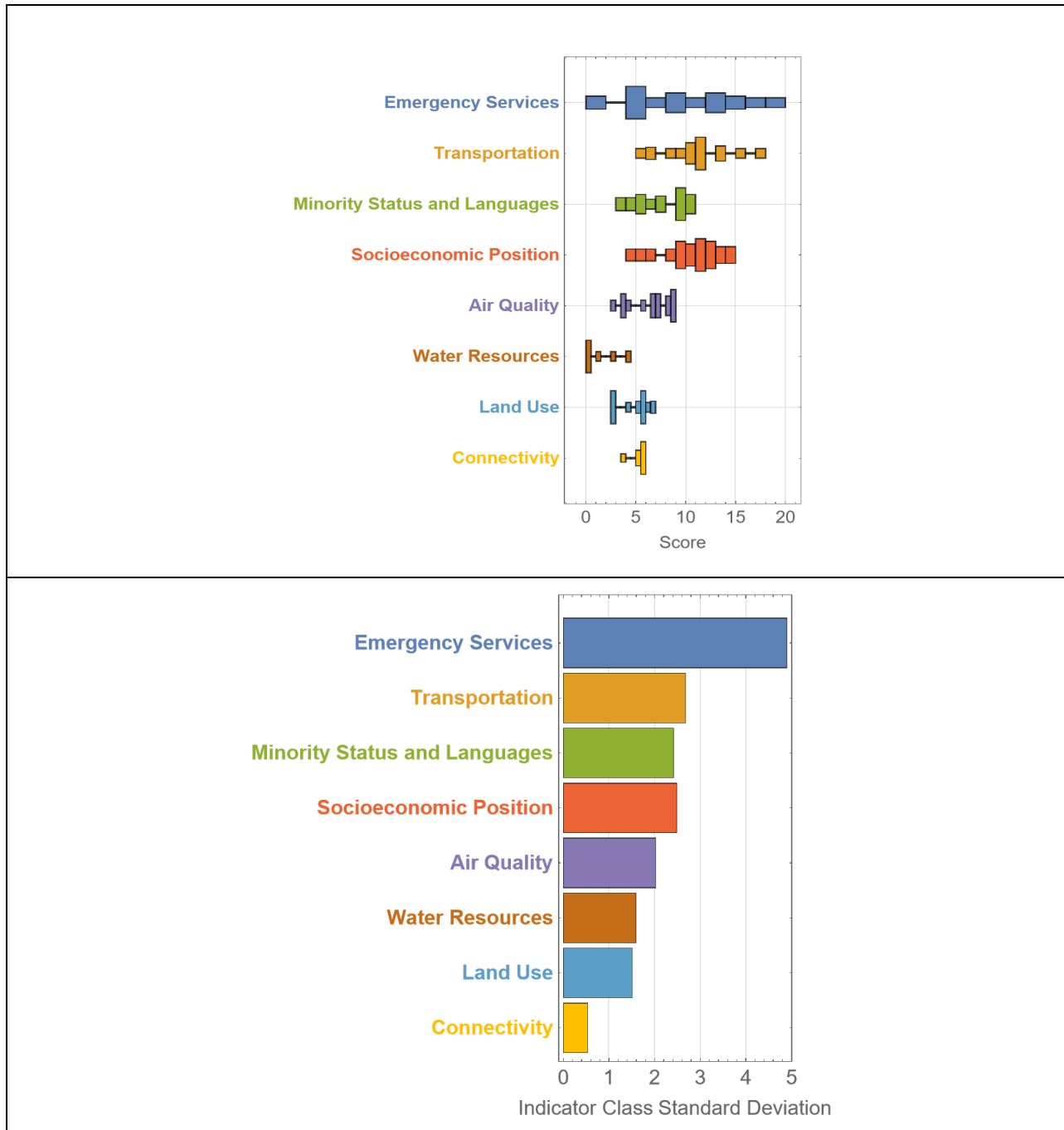


Figure 3-8. The top plot is stacked histograms of the indicator category aggregated scores. The bottom plot is a bar chart of the standard deviation of the aggregated score of the indicator category.

4 FRAMEWORK IMPROVEMENTS APPLIED PRIOR TO DRAFT REPORT

During this project SwRI identified framework improvements that would provide a more useful comparison between cities. The following sections describe the indicators that were modified during the early stages of this project. The changes described in this section are applied to the results of the framework scores described in Section 3 for the benchmarking study. Appendix A provides the framework tool spreadsheets for each city analyzed, and Appendix B provides a matrix of the indicator grades. Table 2-2 provides the weights assumed for each of the 31 indicators.

Changes to Air Quality Particulate Matter Index and Ozone Air Quality Index Indicators

SwRI staff used the previously developed framework tool to complete the initial scoring for the 24 cities. From those initial results, almost all cities in this study were assigned the same grade for the *Air Quality Particulate Matter Air Quality Index* and *Ozone Air Quality Index* indicators. Therefore, these two indicators did not differentiate the level of preparedness for the cities in this study. As a result, these indicators were identified as unimportant to the total city score rankings in the benchmarking exercise.

In addition, the original data source for the two indicators was based on a geographic region called a Core-based Statistical Area (CBSA), which are geographic regions of the U.S. that have at least one urban core with at least 10,000 people and are either metropolitan or micropolitan, depending on the size of the urban core. The CBSA is different than the geographic area of the examined cities in this project. Further to the incongruent land areas, not all communities, especially rural communities, fall into a CBSA, creating a potential data gap. Without a CBSA, the user is required to investigate the *Particulate Matter Index* and *Ozone Air Quality Index* values from a website that may not be consistently updated. The website originally assigned particulate matter and air quality indices to CBSAs as “good,” “moderate,” or “poor,” which is a broad classification.

To improve data reliability and provide a finer picture of a location’s air quality, the framework tool was revised to automatically retrieve data related to the *Particulate Matter Air Quality Index* and *Ozone Air Quality* Indicators for the city (i.e., place) from the EPA Office of Air and Radiation through EPA’s Environmental Justice Screening and Mapping Tool (EJScreen) (EPA, 2023). The EJScreen Application Programming Interface (API) provides access to relevant data more consistently and on a finer geographical scale (i.e., a specific location instead of a CBSA) than the data source that the framework tool previously used. The EJScreen data source provides raw measurements of PM_{2.5} and ozone levels, and various percentile comparisons to state or national measurements. The indicator questions for these two indicators now asks, “Compared to other U.S. locations, what is the ambient level for [ozone or PM_{2.5}], presented as a percentile, in the area of analysis?” where this ranking is based on an annual average.

Changes to Traffic Volume Indicator

Similar to the observation described for the *English Proficiency* indicator, assigned grades for the *Traffic Volume* indicator did not exhibit significant variance in the indicator scores for the cities in this study, causing the indicator to be detected as unimportant to the total city score rankings. The average annual daily traffic (AADT) counts for the 24 cities in this study were

almost all greater than represented by the original highest indicator grade (i.e., representing more than 7,500 AADT). The original grades for the AADT were then revised to capture more refined differences between the traffic volumes in larger and smaller communities around the country. The revised grades represent the following ranges AADT \leq 10,000, 10,000-25,000, 25,000-50,000, 50,000-75,000, and $>$ 75,000. The data source and the question for this indicator were not changed.

Changes to English Proficiency Indicator

Similar to the observation described for the *Particulate Matter Air Quality Index* and *Ozone Air Quality Index* indicators, assigned grades for the *English Proficiency* indicator did not exhibit significant variance in the indicator scores for the cities in this study, causing the indicator to be identified as unimportant to the total city score rankings. The original three grades for the population that speak English “very well” were $>$ 75%, 50-75%, and $<$ 50%. This original grading system required more than 25% of the population to not speak English “very well” before a lower score would be applied, and there are very few areas in the U.S. where more than 25% of the population do not speak English “very well.”

The grades for this indicator were reevaluated and revised to capture more refined differences between the percentages of the population that speak English “very well.” Two grades were added, and now the revised grades that would contribute to the total city score are 95-100%, 85-95%, 75-85%, 50-75%, and $<$ 50%. The revised grading system will assign a lower score when more than 5% of the population do not speak English “very well”, and again between 5-15%, 15-25%, and 25-50%, and up to 50%. The data source and the question for this indicator were not changed.

5 FRAMEWORK IMPROVEMENTS APPLIED AFTER DRAFT REPORT

During this project SwRI identified framework improvements that would provide a more useful comparison between cities. The following sections describe the indicators that were modified after the draft report was prepared. Section 6 provides results of the framework scores after the revisions were made in support of the ground-truthing discussion summarized in Section 7. Appendix C provides the revised framework tool spreadsheets for each city analyzed, and Appendix D provides a matrix of the revised indicator grades. Table 2-2 provides the weights assumed for each of the 31 indicators.

Changes to USCB Data Sources

SwRI staff made additional adjustments to the framework tool after the draft benchmarking report was completed for the 24 Midwest cities. The results reflected in the draft report used U.S. Census Bureau (USCB) American Community Survey 5-Year Data for 2015-2019. More recently available data became available, and the data used for the scores in the final report reflect 2017-2021 data. This change affected the data for the following indicators:

- Estimated EMS Response Time
- Availability of Internet
- Sensitive Populations by Age
- Disability
- Education – Completion of a High School Diploma or Equivalent
- Population Below Poverty Level

- Unemployment Rate
- Population
- Minority Population
- Racial Diversity Index
- English Proficiency
- % of Households that Speak Spanish

The data source and the question for this indicator were not changed.

Changes to *Education – Completion of a High School Diploma or Equivalent* Indicator

During review of the draft report findings, assigned grades for the *Education* indicator did not exhibit significant variance in the indicator scores for the cities in this study, causing the indicator to be detected as unimportant to the total city score rankings. The percentage for the 24 cities in draft report were almost all reflecting the highest indicator grade (i.e., representing 80% or greater of the population completing a high school diploma or equivalent). This corresponds to the fact that the national average is about 90% of adults have at least a high school equivalent (USCB, 2022). The original grades for the *Education* indicator were then revised to capture more refined differences among communities with less than the national average of high school or equivalent education. The revised grades represent the following ranges > 95%, 85-95%, 75-84%, 65-74%, and < 65%.

Changes to # of Police Officers per 1,000 Residents Indicator

During review of the draft report findings, SwRI noted that the 2019 national average for the number of police per 1,000 residents (USAFacts, 2023) was not reflected in the framework tool grading system. The original answers for this indicator were either ≥ 1.8 or < 1.8 . Based on the 2019 data, the answers were revised to either > 2.8 or < 2.8 . The question and data source for this indicator were not changed.

Changes to # of Fire Stations Indicator

During the period between completing the draft report and the final report, SwRI staff considered that counting the number of fire stations in an area may bias larger cities unfairly, and that normalizing the number of fire stations on a per capita basis (i.e., per 10,000 residents) would provide a more equal comparison between rural and urban areas. The original grading system was revised as well as the question that was asked. SwRI evaluated 25 various types of cities and locations across the country as examples to determine a representative number of fire stations per 10,000 residents, which is simply computed as the number of fire stations divided by the population, and then multiplied by 10,000 to avoid dealing with very small ratios. The ranges of this number to assign grades from 5 to 1 to the indicator are ≥ 6 , 4-5, 1.6-3, 0.5-1.5 and < 0.5 , based on uniformly distributed quantiles of the ratios computed with the 25 baseline locations. The question was revised as “According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?” The revised grading system provides a more equalized score to all cities regardless of size. The data source for this indicator was not changed.

Changes to Indicator Score

The Excel file was revised to clearly display individual indicator scores. In a previous version of the CRAFT tool, information on the individual indicator scores was hidden. The computation of the total score (sum of the 31 individual indicator scores) did not change.

6 RESULTS OF FINAL SCORES

After the improvements to the CRAFT tool described in Sections 4 and 5 were applied, SwRI staff ran the 24 cities using the updated framework tool and extracted, analyzed, and synthesized the results. Table 6-1 provides a comparison of the total scores and the ranks for each city before and after revisions. Figure 6-1 shows the final ranking of the cities and the empirical CDF of the final total score, compared to the CDF of a normal distribution (smooth dashed curve). The total city scores are displayed as bars in the chart in Figure 6-2

Table 6-1. City, draft total score and rank, and final city total score and rank

City	Draft Total Score	Draft Rank	Final Total Score	Final Rank	City	Draft Total Score	Draft Rank	Final Total Score	Final Rank
Monticello, MN	67.91	1	65.30	2	Oak Harbor, OH	55.60	13	55.60	12
La Crosse, WI	67.91	1	65.67	1	Gary, IN	54.85	14	51.87	18
Indianapolis, IN	65.30	3	51.87	18	Kansas City, KS	54.48	15	56.34	11
Fulton, MO	61.57	4	57.84	5	Fargo, ND	54.48	15	58.96	3
Kansas City, MO	61.57	5	57.46	6	Blair, NE	54.10	17	56.72	9
Oregon, OH	60.45	6	57.09	8	Bellevue, OH	54.10	17	51.87	18
Toledo, OH	60.07	7	54.85	13	Cadillac, MI	53.73	19	54.85	13
Clinton, IL	59.70	8	54.10	16	Joliet, IL	53.36	20	52.61	17
Saint Joseph, MI	58.21	9	54.85	13	Columbus, NE	53.36	20	56.72	9
Saint Paul, MN	57.46	10	47.39	22	Saint Louis, MO	52.99	22	50.00	21
North Platte, NE	57.09	11	58.96	3	East Saint Louis, IL	49.25	23	47.01	23
North Chicago, IL	55.97	12	57.46	6	Benton Harbor, MI	43.66	24	40.33	24

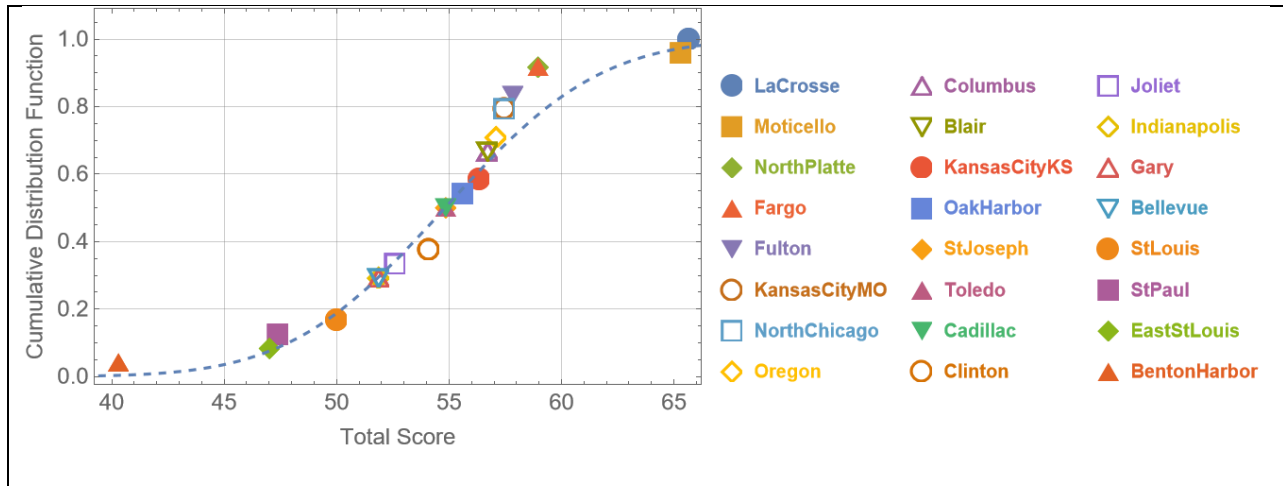


Figure 6-1. Empirical CDF of the final total score, compared to the CDF of a normal distribution (smooth dashed curve).

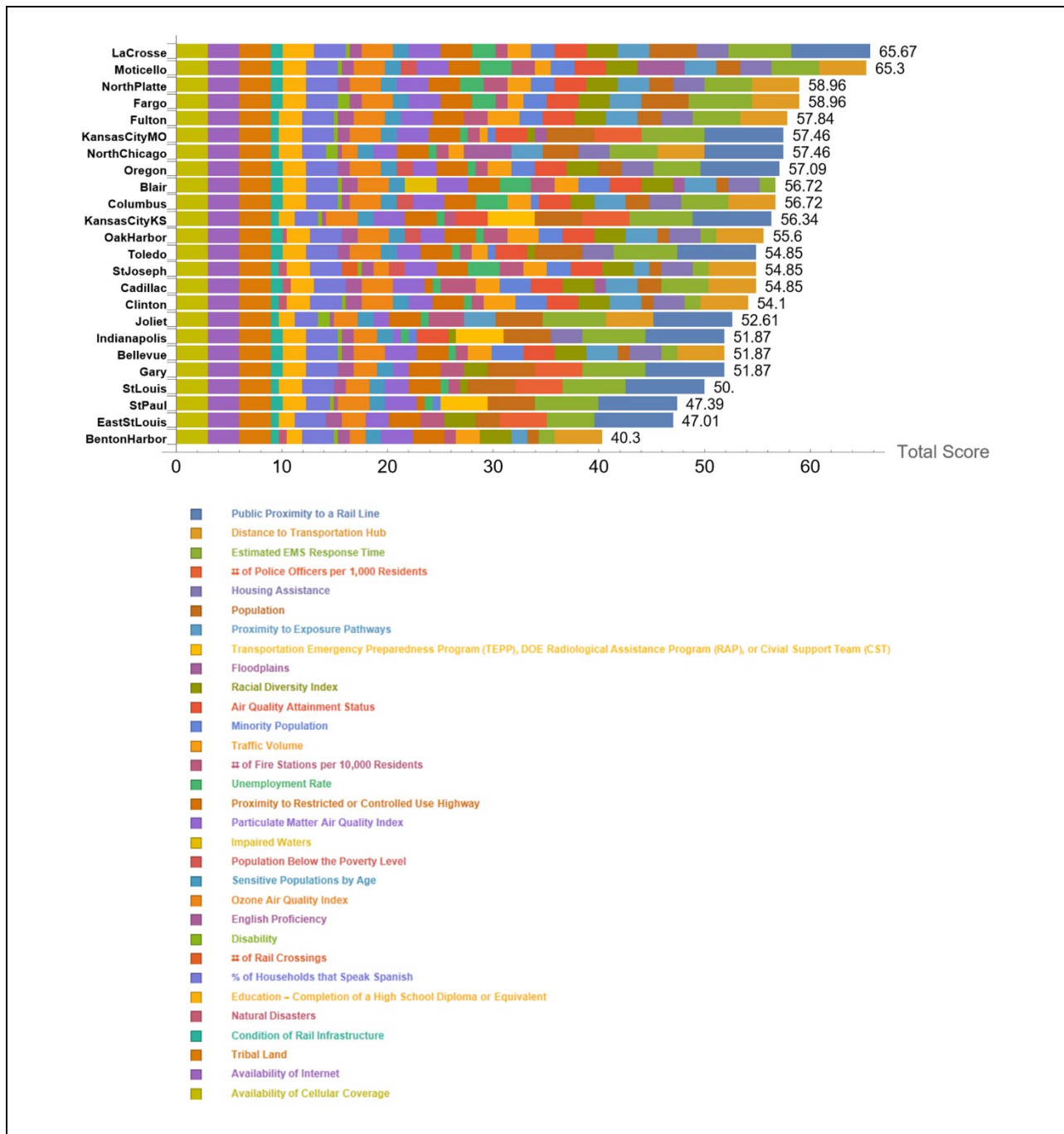


Figure 6-2. Final total score of a city as a function of the indicator scores. The final total score of a city (i.e., a large horizontal bar) is composed of 31 indicator scores represented by the smaller bars shown in 31 different colors.

Figure 6-3 shows the empirical CDF of the final total score for each city type analyzed and the average scores for each city type analyzed. Based on the average scores for each city type, the Rural Near cities scored higher than the Urban Away cities. Comparison of the average scores for each city type suggests that rural areas generally score lower for the indicators in the Emergency Services category and the *Proximity to Rail Line* indicator (high weight) because rural areas tend to have fewer services and less infrastructure available compared to urban areas. However, rural areas tend to score higher for the indicators in the Air Quality,

Socioeconomic Position, and Minority Status and Languages categories because rural areas generally have less diverse populations and fewer air-impacting emissions compared to urban areas. The indicators in the Transportation, Water Resources and Land Use categories are more site-specific and do not appear to favor rural or urban areas. Indicators within the Connectivity category trends differently regionally (e.g., the mountainous areas in the West and MidAtlantic states have more areas with low internet and cellular coverage compared to the Midwest).

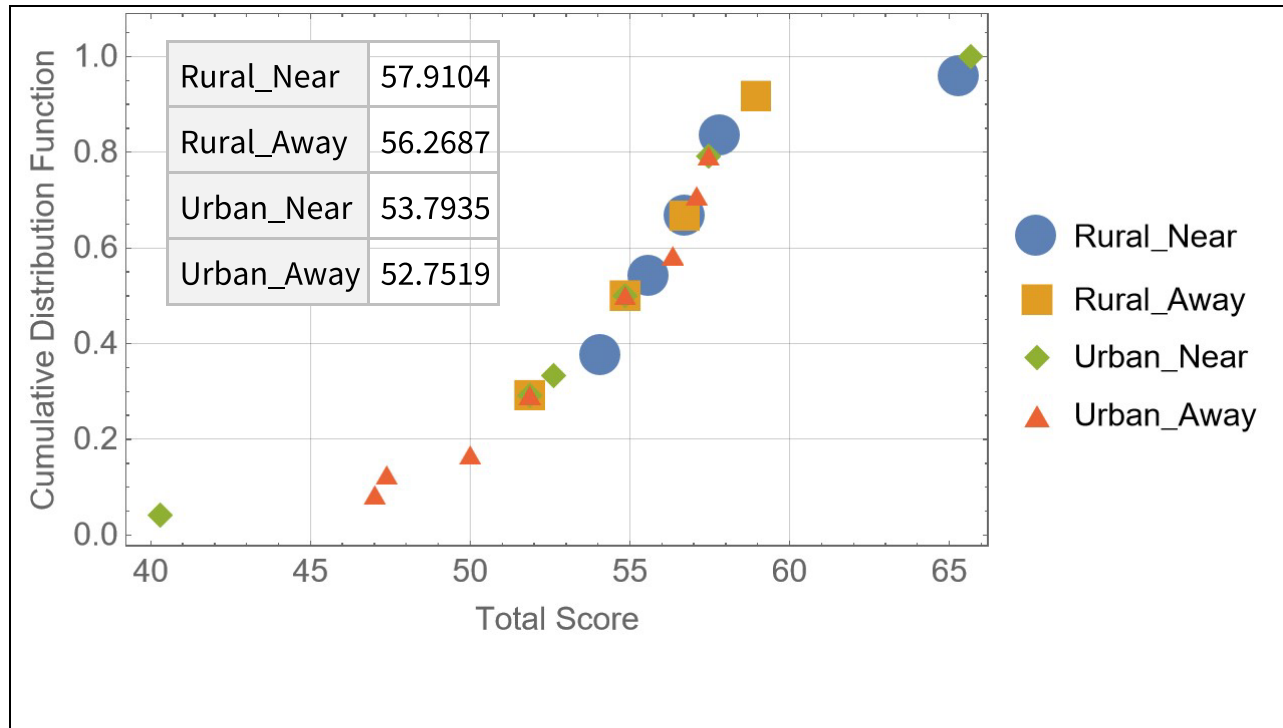


Figure 6-3. Empirical CDF of the final total score for each city type; the average scores for each city type are displayed in the legend.

7 SUMMARY OF GROUND-TRUTHING ACTIVITIES

On October 3, 2023, a meeting took place at the Lake County Emergency Management Agency (EMA) located in Crown Point, Indiana, to support the ground-truthing task. Participants included 3 staff members from the Indiana Department of Homeland Security and 6 staff members from Lake County Homeland Security/EMA, as well as two CSG Midwest hosts and two SwRI presenters. SwRI lead a general discussion on the CRAFT tool, how it works, and observations about indicator topics, grades, and weights. SwRI provided an overview of the cities and city types analyzed, and the relevance of indicators on the city scores. The meeting concluded with interpretation of the scores of the Gary, Indiana area and other locations to provide a comparative context. The CSG Midwest project manager has access to the Power Point files used to support discussions, for readers of this report interested in accessing additional information of the ground-truthing task.

The following items summarize the topics that were discussed during the ground-truthing session. Based on the input that attendees provided during the ground-truthing session, SwRI staff identified several potential improvements to the CRAFT tool.

- During the discussion about indicators in the Emergency Services category, ground-truthing attendees commented that the number of fire personnel available to respond to an incident is more important than the number of fire stations per 10,000 residents, suggesting that the *# of Fire Stations per 10,000 Residents* indicator could be improved to reflect a better measure of preparedness. Currently the number of fire personnel for every geographic area is not publicly available; however, many to most locations have the number of fire personnel available online. For locations where the number of fire personnel is not available online, a user could contact the local fire and rescue department to determine how many fire personnel are available.

Currently, the number of fire stations in an area is provided online through the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database. Using data available online reduces the time needed to complete the CRAFT tool analysis for a city. Depending on the number of cities being evaluated, the amount of time to gather information could increase by hours.

To revise the *# of Fire Stations per 10,000 Residents* indicator, a number of cities (20 or more of different sizes) would need examination, for example to determine a representative number of fire personnel per 1,000 residents or 10,000 residents. Ranges corresponding to uniform quantiles of the new metric of fire personnel per resident could be selected to assign grades 1 to 5 following a method like the method to assign grades to the current indicator of number of fire stations per 10,000 residents. There is value in revising the current *# of Fire Stations per 10,000 Residents* indicator to reflect the number of per capita fire personnel in an area. It is recognized that whether the per capita number of fire stations or the per capita number of fire personnel is considered as an indicator, the availability of equipment and the level of training of fire personnel to respond to an off-normal incident involving SNF are additional dimensions that may not be fully captured in the revised indicator. However, the objective of the indicators is reflecting or characterizing only major features of a city or location, for example to identify dominant challenges to be addressed ahead of SNF transportation campaigns.

- During the discussion about indicators in the Transportation category, ground-truthing attendees commented that weather conditions, construction, and special events such as professional sporting games or concerts can significantly influence traffic patterns and expected incident response times. Using annual average daily traffic (AADT) count for the *Traffic Volume* indicator may not capture daily traffic fluctuations, weather, construction, or event situations that could affect the response time.

The Federal Highway Administration (FHWA) and other federal and state agencies are developing methods to better inform travelers expected day-to-day travel times; however, a consistent measure is not available for all U.S. cities (FHWA, 2023). One measure that some transportation professionals use is Roadway Congestion Index (RCI), which is a measure of vehicle travel density on major roadways in an urban area (Bureau of Transportation Statistics, 2023). An RCI exceeding 1.0 indicates an undesirable congestion level, on an average, on the freeways and principal arterial street systems during the peak period. This index, that accounts for congestion, may provide a better metric to contrast cities than the AADT. While RCI is not available for all U.S. cities, an average is available online for 6 different city types from very large urban areas to small urban areas with populations less than 500,000 (Bureau of Transportation Statistics, 2023). If the *Traffic Volume* indicator were revised to better capture roadway congestion using the RCI, a grading system based on population of the city being analyzed would have to be developed.

The ground-truthing participants considered how to capture daily traffic patterns, weather, construction, or event situations that delay response times. It is noted that the CRAFT tool is not designed to capture dynamic variations of indicators, for example associated with daily or on-demand traffic conditions. Instead, the information for a traffic indicator should reflect some form of yearly average, as a metric more appropriate to consider in SNF transportation campaigns. Nonetheless, a user could change the answer for the *Traffic Volume* indicator question to a more conservative answer if local conditions warrant additional planning around unique community characteristics that occur regularly. A note will be added to the CRAFT user manual to encourage users to consider local traffic patterns and apply an appropriate answer to the indicator question and potentially discuss necessary additional planning with local stakeholders and decisionmakers.

- During the discussion about indicators in the Connectivity, Socioeconomic Position, and Minority Status and Languages categories, ground-truthing attendees observed that there are regional populations with limited connectivity that would not be captured by a low score of any of the tool indicators. For example, some social and religious groups such as the Amish, Mennonite, and some Orthodox Jewish sub-sect communities voluntarily elect not to use, or significantly limit, electronics and cellular phones, and would require a targeted communication plan prior to a SNF transportation campaign. These groups typically do not identify as underrepresented or underserved, and the CRAFT tool indicator scores may not reflect the presence of these unique communities.

Similar to the previous discussion about local traffic volume characteristics, a note will be added in the CRAFT user manual to encourage users to consider local demographic characteristics and potentially discuss necessary targeted communication strategies with local stakeholders and decisionmakers.

In addition to the CRAFT tool design and data discussions, ground-truthing attendees stated that they thought it would be especially helpful for other DHS/EMA directors in several neighboring counties to participate in a ground-truthing discussion to facilitate coordinated planning efforts. Reactions of participants were often reflective on their positions as members of preparedness teams. Some questions that arose included introspective observations about the role their organizations play to be more prepared for future SNF transportation campaigns. From the perspective of the authors of this report, the ground-truthing meeting appeared to be a good opportunity for both the Indiana DHS staff and Lake County DHS/EMA staff to talk about their respective roles and responsibilities, and to identify where additional communication or planning should be applied before the start of a SNF transportation campaign. The discussion also generated interest in methods of public outreach leading up to a SNF transportation campaign, in what capacity publicly elected officials would be involved in communication efforts, and how Lake County DHS/EMA staff and local leaders could work together.

For future ground-truthing discussions, information should be provided at the beginning of the sessions about the history of SNF storage policy, the status of SNF storage, the ongoing federal consent-based siting efforts, related SNF storage and transportation planning activities, and physical features of canisters typically used to transport fresh and spent nuclear fuel. This information is critical for participants to set a context, which may not be fully known by all audiences prior to a ground-truthing session.

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APPENDIX A CITY FRAMEWORK SCORES

Bellevue, Ohio (Rural Away)

	A	B	C	D	E	F	H	
				Clear All				
1		Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	8	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10	
30		Population	What is the population in the area of analysis?	2,500-10,000	2	3	6	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	10	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							54

Benton Harbor, Michigan (Urban Near)

	A	B	C	D	E	F	H	
				Clear All				
1		Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	8	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?		2	3	1	3
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	15-30	3	2	6	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	50 - 74%	4	2	8	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	2	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	60 - 80%	4	2	8	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	> 10%	1	2	2	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2	
30		Population	What is the population in the area of analysis?	2,500-10,000	2	3	6	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	2	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							44

Blair, Nebraska (Rural Near)

	A	B	C	D	E	F	H	
				Clear All				
1		Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	8	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	No 303(d) segments	5	2	10	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 500-yr Floodplain	2	3	6	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10	
30		Population	What is the population in the area of analysis?	2,500-10,000	2	3	6	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	10	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							54

Cadillac, Michigan (Rural Away)

	A	B	C	D	E	F	H	
				Clear All				
1		Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?		2	3	1	3
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	50 - 74%	4	2	8	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 500-yr Floodplain	2	3	6	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	> 30%	1	1	1	
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2	
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	10	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							54

Clinton, Illinois (Rural Near)

	A	B	C	D	E	F	H	
				Clear All				
1		Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	5	2	10	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	2	3	1	3	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10	
30	Population	What is the population in the area of analysis?	2,500-10,000	2	3	6		
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	10	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							60

Columbus, Nebraska (Rural Away)

	A	B	C	D	E	F	H
				Clear All			
1		Indicator	Question	Answer	Grade	Weight	Score
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	5-10.9%	4	1	4
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	5
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	20.1 - 50%	2	2	4
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	35.0 - 44.9%	4	2	8
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	85-95%	4	1	4
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						53

East St. Louis, Illinois (Urban Away)

	A	B	C	D	E	F	H	
				Clear All				
1		Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≥ 26	5	3	15	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	2	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	25 - 49%	2	2	4	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	2	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	> 10%	1	2	2	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2	
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	2	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							49

Fargo, North Dakota (Rural Away)

	A	B	C	D	E	F	H	
1	Category	Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < A.ADT ≤ 50,000	3	2	6	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	5-10.9%	4	1	4	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2	
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							54

Fulton, Missouri (Rural Near)

	A	B	C	D	E	F	H
1	Category	Indicator	Question	Answer	Grade	Weight	Score
				Clear All			
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	5	2	10
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	50 - 74%	4	2	8
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						62

Gary, Indiana (Urban Near)

	A	B	C	D	E	F	H
1	Category	Indicator	Question	Answer	Grade	Weight	Score
				Clear All			
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	14 - 19	3	3	9
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	2
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	50 - 74%	4	2	8
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	2
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	No 303(d) segments	5	2	10
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	> 10%	1	2	2
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	2
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	35.0 - 44.9%	4	2	8
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						55

Indianapolis, Indiana (Urban Away)

	A	B	C	D	E	F	H	
1	Category	Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≥ 26	5	3	15	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	Yes	5	3	15	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	Intersects	1	2	2	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	2	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	No 303(d) segments	5	2	10	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10	
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	20.1 - 50%	2	2	4	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55.0 - 64.9%	2	2	4	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	85-95%	4	1	4	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							65

Joliet, Illinois (Urban Away)

	A	B	C	D	E	F	H	
1	Category	Indicator	Question	Answer	Grade	Weight	Score	
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	8 - 13	2	3	6	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15	
13	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	2		
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	2	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	5-10.9%	4	1	4	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2	
30	Population	What is the population in the area of analysis?	> 50,000	5	3	15		
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	2	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55.0 - 64.9%	2	2	4	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	85-95%	4	1	4	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							53

Kansas City, Kansas (Urban Away)

	A	B	C	D	E	F	H	
	Category	Indicator	Question	Answer	Grade	Weight	Score	
1				Clear All				
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	20 - 25	4	3	12	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	2	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	60 - 80%	4	2	8	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2	
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	2	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	≥ 65.0%	1	2	2	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	75-85%	3	1	3	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							54

Kansas City, Missouri (Urban Away)

	A	B	C	D	E	F	H
	Category	Indicator	Question	Answer	Grade	Weight	Score
1				Clear All			
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≥ 26	5	3	15
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	50,000 < AADT ≤ 75,000	2	2	4
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 500-yr Floodplain	2	3	6
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.3%	2	1	2
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	20.1 - 50%	2	2	4
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55.0 - 64.3%	2	2	4
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85-95%	4	1	4
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						62

LaCrosse, Wisconsin (Urban Near)

	A	B	C	D	E	F	H
	Category	Indicator	Question	Answer	Grade	Weight	Score
1				Clear All			
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Programs (RAP) in the county?	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance ≤ 10 miles	3	2	6
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.3%	2	1	2
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95-100%	5	1	5
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						68

Monticello, Minnesota (Rural Near)

	A	B	C	D	E	F	H
				Clear All			
1	Category	Indicator	Question	Answer	Grade	Weight	Score
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < AADT ≤ 50,000	3	2	6
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	No Floodplain	5	3	15
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	5
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						68

North Chicago, Illinois (Urban Near)

	A	B	C	D	E	F	H
				Clear All			
1	Category	Indicator	Question	Answer	Grade	Weight	Score
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < AADT ≤ 50,000	3	2	6
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	2
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	No Floodplain	5	3	15
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	2
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	≥ 65.0%	1	2	2
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	85-95%	4	1	4
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	25.1 - 50%	4	2	8
35	Overall Framework Score						56

North Platte, Nebraska (Rural Away)

North Platte, Nebraska (Rural Away)							
1	Category	Indicator	Question	Answer	Grade	Weight	Score
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	< 1.8	1	3	3
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						57

Oak Harbor, Ohio (Rural Near)

	A	B	C	D	E	F	H	
	Category	Indicator	Question	Answer	Grade	Weight	Score	
1				Clear All				
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	8	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	5	2	10	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?		3	2	1	2
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	10	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	50 - 74%	4	2	8	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	> 30%	1	1	1	
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10	
30		Population	What is the population in the area of analysis?	2,500-10,000	2	3	6	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							56

Oregon, Ohio (Urban Away)

	A	B	C	D	E	F	H	
1	Category	Indicator	Question	Answer	Grade	Weight	Score	
				Clear All				
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	16	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5	
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	5	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10	
30		Population	What is the population in the area of analysis?	10,000-30,000	3	3	9	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							60

St. Joseph, Michigan (Urban Near)

	A	B	C	D	E	F	H	
	Category	Indicator	Question	Answer	Grade	Weight	Score	
1				Clear All				
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	8	
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15	
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≤ 7	1	3	3	
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3	
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3	
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	5	
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10	
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	< 5	3	2	6	
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	15	
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	8	
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	2	3	1	3	
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10	
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	15-30	3	2	6	
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10	
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10	
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10	
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10	
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6	
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2	
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3	
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	> 30%	1	1	1	
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2	
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10	
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	5	
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	≤ 3%	5	2	10	
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10	
30		Population	What is the population in the area of analysis?	2,500-10,000	2	3	6	
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	10.1 - 20%	4	2	8	
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35.0%	5	2	10	
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5	
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10	
35	Overall Framework Score							58

St. Louis, Missouri (Urban Away)

	A	B	C	D	E	F	H
				Clear All			
1	Category	Indicator	Question	Answer	Grade	Weight	Score
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≥ 26	5	3	15
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	3
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	2
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	50 - 74%	4	2	8
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	2
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	2
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55.0 - 64.9%	2	2	4
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	95-100%	5	1	5
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						53

St. Paul, Minnesota (Urban Away)

	A	B	C	D	E	F	H
	Category	Indicator	Question	Answer	Grade	Weight	Score
1				Clear All			
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	14 - 19	3	3	9
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	Yes	5	3	15
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	≤ 5 miles	2	2	4
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	2
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	2
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	10
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	11-14.9%	2	1	2
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3.1 - 5%	4	2	8
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	2
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	20.1 - 50%	2	2	4
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	≥ 65.0%	1	2	2
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in	75-85%	3	1	3
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						57

Toledo, Ohio (Urban Away)

	A	B	C	D	E	F	H
				Clear All			
1		Indicator	Question	Answer	Grade	Weight	Score
4	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	20
5		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8	5	3	15
6		# of Fire Stations	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	14 - 19	3	3	9
7		Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	No	1	3	3
8	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	4
9		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	25
10		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	10
11		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	2
12		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	3
13		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < AADT ≤ 50,000	3	2	6
14	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	1
15		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	10
16		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	2
17	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	10
18		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	10
19	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	10
20		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60-80 %ile	4	2	8
21		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80-90 %ile	3	2	6
22	Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	2
23		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	3
24	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	5
25		Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	1
26		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	5	2	10
27		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	1
28		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	5.1 - 10%	2	2	4
29		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	10
30		Population	What is the population in the area of analysis?	> 50,000	5	3	15
31	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	20.1 - 50%	2	2	4
32		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55.0 - 64.9%	2	2	4
33		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95-100%	5	1	5
34		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	5	2	10
35	Overall Framework Score						60

APPENDIX B FRAMEWORK TOOL INDICATOR GRADES

Table B.1. Framework Tool Indicator Grades

	A	B	C	L	M	N	O	P	
		Indicator	Question			Grade			
1				5	4	3	2	1	
2	Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time?	Pop. > 50,000 (< 8 mins)	Pop. 10,000-50,000 (8 - 15 mins)		Pop. 2,500-10,000 (15.1 - 60 mins)	Pop < 2,5000 (> 60 mins)	
3		# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 1.8				< 1.8	
4		Emergency Services	# of Fire Stations Within 25 miles	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis?	≥ 26	20 - 25	14 - 19	8 - 13	≤ 7
5	Transportation Emergency Preparedness Program, DOE Radiological Assistance Program, or Civil Support Team Personnel		Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	Yes					No
6	Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	A	B	C	D	E	
7		Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft				≤ 12 ft	
8		Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles				≤ 5 miles	Intersects
9		# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	0		<5			≥ 5
10		Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles					≤ 0.25 miles
11		Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	10,000 < AADT ≤ 25,000	25,000 < AADT ≤ 50,000	50,000 < AADT ≤ 75,000	AADT > 75,000	
12	Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	0	1	2	3	≥ 4	
13		Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles		Distance ≤ 3 miles		On Tribal Land	
14		Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5 - 15	15 - 30	30 - 50	> 50	
15	Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	50 - 74%		25 - 49%	< 25%	
16		Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	50 - 74%		25 - 49%	< 25%	
17	Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment				Non-Attainment	
18		Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	60 - 80 %ile	80 - 90 %ile	90 - 95 %ile	95 - 100 %ile	
19		Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of	< 60 %ile	60 - 80 %ile	80 - 90 %ile	90 - 95 %ile	95 - 100 %ile	

	A	B	C	L	M	N	O	P
		Indicator	Question			Grade		
1				5	4	3	2	1
20	Water Resources	Impaired Waters	Are there impaired waters within the area of analysis?	No 303(d) segments				303(d) segments present
21		Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	No Floodplain			500-yr Floodplain	100-yr Floodplain
22	Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 and over 65?	≤ 30%				> 30%
23		Disability	What percentage of the population in the area of analysis are disabled?	< 5%	5 - 10.9%		11 - 14.9%	> 15%
24		Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 80%	60 - 80%		40 - 59%	< 40%
25		Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%				> 10%
26		Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	≤ 3%	3.1 - 5%		5.1 - 10%	> 10%
27		Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No				Yes
28		Population	What is the population in the area of analysis?	> 50,000	30,000 - 50,000	10,000 - 30,000	2,500 - 10,000	< 2,500
29	Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	10.1 - 20%		20.1 - 50%	> 50%
30		Racial Diversity Index	What is the Census Bureau's Racial Diversity Index of the area of analysis?	< 35.0%	35.0 - 44.9%	45.0 - 54.9%	55.0 - 64.9%	≥ 65.0%
31		English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	85 - 95%	75 - 85%	50 - 75%	< 50%
32		% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 25%	25.1 - 50%		50.1 - 75%	> 75%

APPENDIX C REVISED CITY FRAMEWORK SCORES

Bellevue, Ohio (Rural Away)

Bellevue, Ohio (Rural Away)						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	1.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	> 30%	1	1	0.0
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	2,500 - 9,000	2	3	1.1
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	3.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						51.9

Benton Harbor, Michigan (Urban Near)

Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	1.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	2	3	1	0.7
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	15-30	3	2	1.5
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	0.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80 - 89 %ile	3	2	1.5
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	75 - 84%	3	2	1.5
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	> 10%	1	2	0.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	2,500 - 9,000	2	3	1.1
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	0.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						40.3

Blair, Nebraska (Rural Near)

Blair, Nebraska (Rural Near)						
Category	Indicator	Question	Clear All	Grade	Weight	Indicator Score
			Answer			
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	1.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	No 303(d) segments	5	2	3.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 500-yr Floodplain	2	3	1.1
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	< 3%	5	2	3.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	2,500 - 9,000	2	3	1.1
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	3.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	5	1	1.5
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						56.7

Cadillac, Michigan (Rural Away)

Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	4 - 5	4	3	3.4
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	≤ 5 miles	2	2	0.7
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	2	3	1	0.7
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 500-yr Floodplain	2	3	1.1
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	> 30%	1	1	0.0
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	10,000 - 29,000	3	3	2.2
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	3.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	5	1	1.5
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						54.9

Clinton, Illinois (Rural Near)

Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	1.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	5	2	3.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	2	3	1	0.7
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	2,500 - 9,000	2	3	1.1
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	5	2	3.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	5	1	1.5
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						54.1

Columbus, Nebraska (Rural Away)

Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	< 0.5	1	3	0.0
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	1.5
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	< 3%	5	2	3.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	10,000 - 29,000	3	3	2.2
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	21 - 50%	2	2	0.7
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	35 - 44%	4	2	2.2
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	75 - 84%	3	1	0.7
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						56.7

East St. Louis, Illinois (Urban Away)

Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	≥ 2.8	5	3	4.5
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	0.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	0.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	> 30%	1	1	0.0
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	75 - 84%	3	2	1.5
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	> 10%	1	2	0.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	10,000 - 29,000	3	3	2.2
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	0.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	5	1	1.5
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						47.0

Fargo, North Dakota (Rural Away)

Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < AADT ≤ 50,000	3	2	1.5
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	5 - 10%	4	1	1.1
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3 - 5%	4	2	2.2
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						59.0

Fulton, Missouri (Rural Near)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	5	2	3.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	> 10%	1	2	0.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	10,000 - 29,000	3	3	2.2
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	5	1	1.5
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						57.8

Gary, Indiana (Urban Near)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	≥ 2.8	5	3	4.5
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	0.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	0.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	80 - 89 %ile	3	2	1.5
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	> 10%	1	2	0.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	0.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	35 - 44%	4	2	2.2
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	5	1	1.5
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						51.9

Indianapolis, Indiana (Urban Away)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	< 0.5	1	3	0.0
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	Yes	5	3	4.5
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	Intersects	1	2	0.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	0.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	90 - 95 %ile	2	2	0.7
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	21 - 50%	2	2	0.7
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55 - 65%	2	2	0.7
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						51.9

Joliet, Illinois (Urban Near)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	4 - 5	4	3	3.4
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	0.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	0.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	80 - 89 %ile	3	2	1.5
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	5 - 10%	4	1	1.1
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	75 - 84%	3	2	1.5
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	0.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	> 65%	1	2	0.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	50 - 74%	2	1	0.4
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	11 - 24%	4	2	2.2
Total Score:						52.6

Kansas City, Kansas (Urban Away)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	≥ 2.8	5	3	4.5
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	Yes	5	3	4.5
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	0.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	75 - 84%	3	2	1.5
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	0.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	> 65%	1	2	0.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	50 - 74%	2	1	0.4
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	11 - 24%	4	2	2.2
Total Score:						56.3

Kansas City, Missouri (Urban Away)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	≥ 2.8	5	3	4.5
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	50,000 < AADT ≤ 75,000	2	2	0.7
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 500-yr Floodplain	2	3	1.1
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	21 - 50%	2	2	0.7
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55 - 65%	2	2	0.7
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						57.5

LaCrosse, Wisconsin (Urban Near)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 95%	5	2	3.0
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3 - 5%	4	2	2.2
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						65.7

Monticello, Minnesota (Rural Near)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < AADT ≤ 50,000	3	2	1.5
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	No Floodplain	5	3	4.5
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	1.5
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	< 3%	5	2	3.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	10,000 - 29,000	3	3	2.2
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						65.3

North Chicago, Illinois (Urban Near)

North Chicago, Illinois (Urban Near)						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < AADT ≤ 50,000	3	2	1.5
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	0.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80 - 89 %ile	3	2	1.5
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	No Floodplain	5	3	4.5
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	5 - 10%	4	1	1.1
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	30,000 - 50,000	4	3	3.4
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	0.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	> 65%	1	2	0.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	50 - 74%	2	1	0.4
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	11 - 24%	4	2	2.2
Total Score:						57.5

North Platte, Nebraska (Rural Away)

North Platte, Nebraska (Rural Away)						
<input type="button" value="Clear All"/>						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	3 - 5%	4	2	2.2
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	10,000 - 29,000	3	3	2.2
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						59.0

Oak Harbor, Ohio (Rural Near)

Oak Harbor, Ohio (Rural Near)						
<input type="button" value="Clear All"/>						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	1.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	5	2	3.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	3	2	1	0.4
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5	2	3.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	1.5
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	2,500 - 9,000	2	3	1.1
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	5	1	1.5
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						55.6

Oregon, Ohio (Urban Away)

Oregon, Ohio (Urban Away)						
<input type="button" value="Clear All"/>						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 10,000-50,000 (8 - 15 min)	4	4	4.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	1.5
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	10,000 - 29,000	3	3	2.2
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						57.1

St. Joseph, Michigan (Urban Near)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. 2,500-10,000 (15.1 - 60 min)	2	4	1.5
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	1.6 - 3	3	3	2.2
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	≤ 12 ft	1	5	0.0
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	< 5	3	2	1.5
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles	5	3	4.5
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	10,000 < AADT ≤ 25,000	4	2	2.2
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	2	3	1	0.7
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	15-30	3	2	1.5
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	80 - 89 %ile	3	2	1.5
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	> 30%	1	1	0.0
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%	5	1	1.5
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	< 3%	5	2	3.0
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	2,500 - 9,000	2	3	1.1
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	11 - 20%	4	2	2.2
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	< 35%	5	2	3.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						54.9

St. Louis, Missouri (Urban Away)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	≥ 2.8	5	3	4.5
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	C	3	1	0.7
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	0.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	0.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	> 50%	1	2	0.0
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55 - 65%	2	2	0.7
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						50.0

St. Paul, Minnesota (Urban Away)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	< 0.5	1	3	0.0
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	Yes	5	3	4.5
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	≤ 5 miles	2	2	0.7
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT > 75,000	1	2	0.0
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	Non-Attainment	1	2	0.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	11 - 15%	2	1	0.4
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	Yes	1	2	0.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	21 - 50%	2	2	0.7
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	> 65%	1	2	0.0
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	50 - 74%	2	1	0.4
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	11 - 24%	4	2	2.2
Total Score:						47.4

Toledo, Ohio (Urban Away)

Clear All						
Category	Indicator	Question	Answer	Grade	Weight	Indicator Score
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time in the area of analysis based on population?	Pop. > 50,000 (< 8 min)	5	4	6.0
	# of Police Officers per 1,000 Residents	How many police officers are there per 1,000 residents?	< 2.8	1	3	0.0
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations per 10,000 residents are within the area of analysis?	0.5 - 1.5	2	3	1.1
	Transportation Emergency Preparedness Program (TEPP), DOE Radiological Assistance Program (RAP), or Civil Support Team (CST)	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP), or Civil Support Team (CST) in the county?	No	1	3	0.0
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	B	4	1	1.1
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft	5	5	7.5
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles	5	2	3.0
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	≥ 5	1	2	0.0
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	≤ 0.25 miles	1	3	0.0
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	25,000 < AADT ≤ 50,000	3	2	1.5
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	≥ 4	1	1	0.0
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles	5	2	3.0
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	> 50	1	2	0.0
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	5	2	3.0
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	5	2	3.0
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment	5	2	3.0
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	60 - 79 %ile	4	2	2.2
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	5	2	3.0
Water Resources	Impaired Waters	Are there Clean Water Act 303(d) impaired waters within the area of analysis?	303(d) segments present	1	2	0.0
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	Within 100-yr Floodplain	1	3	0.0
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 or over 65?	≤ 30%	5	1	1.5
	Disability	What percentage of the population in the area of analysis are disabled?	> 15%	1	1	0.0
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	85 - 95%	4	2	2.2
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	> 10%	1	1	0.0
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	6 - 10%	2	2	0.7
	Housing Assistance	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No	5	2	3.0
	Population	What is the population in the area of analysis?	> 50,000	5	3	4.5
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	21 - 50%	2	2	0.7
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index for the area of analysis?	55 - 65%	2	2	0.7
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	85 - 94%	4	1	1.1
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	5	2	3.0
Total Score:						54.9

APPENDIX D REVISED FRAMEWORK TOOL INDICATOR GRADES

Table D.1. Revised Framework Tool Indicator Grades

	Indicator	Question	5	4	3	2	1
Emergency Services	Estimated EMS Response Time	What is the estimated EMS response time?	Pop. > 50,000 (< 8 mins)	Pop. 10,000-50,000 (8 - 15 mins)		Pop. 2,500-10,000 (15.1 - 60 mins)	Pop < 2,500 (> 60 mins)
	# of Police Officers per 1,000 Resident	How many police officers are there per 1,000 residents?	≥ 2.8				< 2.8
	# of Fire Stations per 10,000 Residents	According to the Homeland Infrastructure Foundation-Level Data (HIFLD) Fire Station Database, how many fire stations are within the area of analysis per 10,000 residents?	≥ 6	4 - 5	1.6 - 3	0.5 - 1.5	≤ 0.5
	Transportation Emergency Preparedness Program, DOE Radiological Assistance Program, or Civil Support Team Personnel	Are there Transportation Emergency Preparedness Programs (TEPP) or DOE Radiological Assistance Programs (RAP) in the county?	Yes				No
Transportation	Condition of Rail Infrastructure	What grade has the ASCE's Infrastructure Report Card given the state's rail infrastructure?	A	B	C	D	E
	Public Proximity to a Rail Line	At the nearest point, how far is the public to the SNF transportation route?	> 12 ft				≤ 12 ft
	Proximity to Restricted or Controlled Use Highway	At the nearest point, how far is the SNF transportation route from restricted or controlled use highways?	> 5 miles			≤ 5 miles	Intersects
	# of Rail Crossings	How many at-grade rail crossings (i.e., where the rail crosses a road at the same elevation) does the SNF transportation route have in the area of analysis?	0		<5		≥ 5
	Distance to Transportation Hub	How far is the population center of the area of analysis from a transportation hub?	> 0.25 miles				≤ 0.25 miles
	Traffic Volume	What is the highest average annual daily traffic value for the area of analysis?	AADT ≤ 10,000	10,000 < AADT ≤ 25,000	25,000 < AADT ≤ 50,000	50,000 < AADT ≤ 75,000	AADT > 75,000
Land Use	Natural Disasters	How many natural disasters have there been in the area of analysis in the last 20 years?	0	1	2	3	≥ 4
	Tribal Land	How far are Tribal lands from the area of analysis?	Distance > 10 miles		Distance ≤ 3 miles		On Tribal Land
	Proximity to Exposure Pathways	How many potential environmental exposure pathways (e.g., Superfund sites, landfills) are located within 3 miles of the area of analysis?	< 5	5 - 15	15 - 30	30 - 50	> 50
Connectivity	Availability of Internet	What percentage of households in the area of analysis have broadband internet?	75 - 100%	50 - 74%		25 - 49%	< 25%
	Availability of Cellular Coverage	What percentage of the area of analysis has cellular network coverage?	75 - 100%	50 - 74%		25 - 49%	< 25%
Air Quality	Air Quality Attainment Status	Is the air quality in the area of analysis in attainment or not in attainment?	In Attainment				Non-Attainment
	Particulate Matter Air Quality Index	Compared to other U.S. locations, what is the ambient level for Particulate Matter (PM2.5), presented as a percentile, in the area of analysis?	< 60 %ile	60 - 79 %ile	80 - 89 %ile	90 - 95 %ile	96 - 100 %ile
	Ozone Air Quality Index	Compared to other U.S. locations, what is the ambient level for ozone, presented as a percentile, in the area of analysis?	< 60 %ile	60 - 79 %ile	80 - 89 %ile	90 - 95 %ile	96 - 100 %ile

Water Resources	Impaired Waters	Are there impaired waters within the area of analysis?	No 303(d) segments				303(d) segments present
	Floodplains	Does a 100-year or 500-year floodplain intersect with the SNF transportation route?	No Floodplain			500-yr Floodplain	100-yr Floodplain
Socioeconomic Position	Sensitive Populations by Age	What percentage of the population in the area of analysis are under the age of 5 and over 65?	≤ 30%				> 30%
	Disability	What percentage of the population in the area of analysis are disabled?	< 5%	5 - 10%		11 - 15%	> 15%
	Education - Completion of a High School Diploma or Equivalent	What percentage of the population age 18 and over in the area of analysis have at least a high school diploma or equivalent?	> 95%	85 - 95%	75 - 84%	65 - 74%	< 65%
	Population Below the Poverty Level	What percentage of the population in the area of analysis live in poverty?	≤ 10%				> 10%
	Unemployment Rate	What percentage of the population in the area of analysis are unemployed?	<3%	3 - 5%		6 - 10%	> 10%
	Housing Assistance Population	Does the area of analysis qualify for low-income housing tax credit (LIHTC)?	No				Yes
		What is the population in the area of analysis?	> 50,000	30,000 - 50,000	10,000 - 29,000	2,500 - 9,000	< 2,500
Minority Status and Languages	Minority Population	What percentage of the population in the area of analysis are racial minorities?	≤ 10%	11 - 20%		21 - 50%	> 50%
	Racial Diversity Index	What is the Census Bureau's Racial Diversity Index of the area of analysis?	< 35.0%	35 - 44%	45 - 54%	55 - 65%	> 65.0 %
	English Proficiency	What percentage of the population in the area of analysis over age 5 speak English very well (i.e., are proficient in English)?	95 - 100%	85 - 94%	75 - 84%	50 - 74%	< 50%
	% of Households that Speak Spanish	What percentage of the population in the area of analysis over the age of 5 speak Spanish?	≤ 10%	11 - 24%	25 - 49%	50 - 75%	> 75%