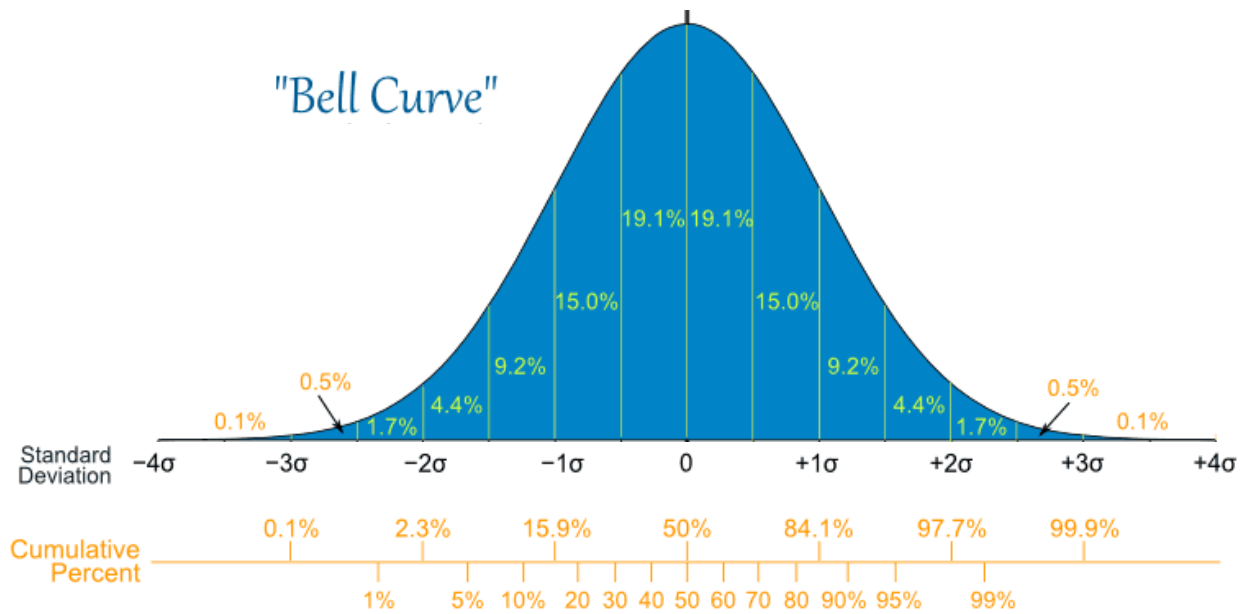


Cuyahoga County Flu Activity Rating Scale

The scale uses seven indicators found in the weekly flu surveillance report to measure flu activity within Cuyahoga County. The current week's value for five indicators is compared to their respective baseline data. The following graph shows the bell curve (aka the normal distribution) with the breakdown of standard deviation and corresponding cumulative percent.










The activity level score for each variable is based on whether the current's week value is higher or lower than the baseline data average. If it is higher than the average for the baseline data, the indicator is analyzed to see how many standard deviations it is from the mean. For example, if the current week's number of influenza related hospitalizations is more than two standard deviations above the baseline data mean, then the current value is higher than 97.7% of all baseline data values. This indicator would receive a score of '3' for the week.

Each variable score can range from 0 (lowest) to 5 (highest). Here is the range with the corresponding percentile and score:

| Range | Percentile | Score |
|-------------------------------|-------------|-------|
| $\leq 0 \sigma$ | 0 - 50.0 | 0 |
| 0.01 σ - 0.50 σ | 50.1 - 69.1 | 1 |
| 0.51 σ - 1.00 σ | 69.2 - 84.1 | 2 |
| 1.01 σ - 1.50 σ | 84.1 - 93.3 | 3 |
| 1.51 σ - 2.00 σ | 93.4 - 97.7 | 4 |
| $> 2 \sigma$ | 97.8 - 100 | 5 |



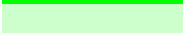




The range for the rating scale is from 0 (all indicators are below the baseline data mean) to 25 (all indicators are more than two standard deviations above the baseline data mean). Here is the rating scale:

| Score | Intensity | Descriptor |
|-------|---|--------------|
| 0-2 |  | Minimal |
| 3-6 |  | Low |
| 7-10 |  | Moderate Low |
| 11-14 |  | Moderate |
| 15-18 |  | High |
| 19-22 |  | Very High |
| 23-25 |  | Extreme |

The five variables that are currently used in the flu activity rating scale:

- Percentage of doctor visits due to influenza like illness via athenahealth (*Figure 2*)
- Number of flu related hospitalizations (*Figure 3*)
- Percentage of school absenteeism due to any illness (*Figure 4a*)
- Number of emergency department visits due to influenza like illness (*Figure 5*)
- Average number of over the counter medication sales (*Figure 6*)

Note** - When schools are closed on Tuesday of a given week, the following activity rating scale will be used to measure flu activity on four remaining variables:

| Score | Intensity | Descriptor |
|-------|---|--------------|
| 0-2 |  | Minimal |
| 3-5 |  | Low |
| 6-8 |  | Moderate Low |
| 9-11 |  | Moderate |
| 12-14 |  | High |
| 15-17 |  | Very High |
| 18-20 |  | Extreme |