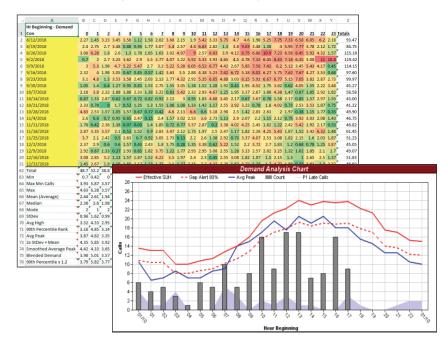
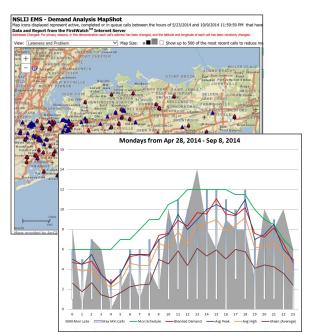
Demand Analysis (FirstWatch add-on Module)

One of the many challenges faced by agencies is making the most effective use of the resources they have available. A common way to forecast needs for staffing, scheduling and resource deployment is to analyze historical patterns of demand for service, both by day of week and hour of day and geographically. This time proven approach is referred to as "Demand Analysis."

Variations of this approach have been used for more than 20 years all around the world. In the past, the process of compiling and creating a complete temporal and geographic Demand Analysis was tedious, time-consuming, and too often, very manual.





FirstWatch has created a real time, dynamically updated and calculated Demand Analysis Module which offers views of select customer data. The Demand Analysis calculations in the data can be downloaded into an Excel spreadsheet, with all formulas intact. We're working to enhance the Demand Analysis module by adding a Demand Consumption-based approach, as well as addressing geographical demands by creating up-to-the minute problem/solution maps for each hour of the day and each day of the week and/or other user-defined intervals.

| Microsoft Excel - DownloadDA-20060911125641.xls | | | | | | | | | | | | | |
|--|---------------|--------|-------|---------------|---------------|---------------|--------|--------|--------------|-----|-----------------------|----------|------|
| Ele Edit View Insert Format Iools Data Window Help Adobe PDF | | | | | | | | | | | _ & × | | |
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| | =Sun!Y | ′31*0. | 2+Mo | | | | | 2 | | 1 | Hr Ending | 1 | |
| A | В | С | D | E | F | G | Н | | J | - | <u> </u> | <u>+</u> | |
| 1 Hr Ending | <u>1</u> 6 | 27 | 3 | <u>4</u> 3 | <u>5</u> 3 | <u>6</u> 3 | 7 | 8 | 9 | 22 | Total | 145 | 110 |
| 2 20060501 | 6 | 7 | 4 | 3 | 3 | 3 | | 11 | 8 3 | 23 | Min | 2 | 1 |
| 3 20060508 4 20060515 | 2 | 2 | 4 | 3 | 3 | 3 | 6 8 | 9 2 | 3 | 24 | Max | 15 | - 13 |
| 22 Total | 145 | 110 | 119 | 83 | 59 | 79 | 201 | 122 | 147 | 25 | Mean | 7.25 | 5.5 |
| 23 Min | 2 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 3 | 26 | Median | 6 | f |
| 24 Max | 15 | 13 | 12 | 7 | 7 | 9 | 8 | 11 | 16 | 27 | Mode | 6 | 6 |
| 25 Mean | 7.25 | 5.5 | 5.95 | 4.15 | 2.95 | 3.95 | 5.05 | 6.1 | 7.35 | | | - | 0.00 |
| 26 Median | 6 | 5 | 5 | 4 | 3 | 3 | 5.5 | 6 | 6.5 | 28 | StDev | 3.32 | 2.93 |
| 27 Mode | 6 | 5 | 4 | - 3 | 3 | 3 | 6 | 6 | 6 | 29 | Avg High | 10.6 | 8.6 |
| 28 StDev 29 Avg High | 3.32 10.6 | 2.93 | 3.07 | 5.8 | 4.8 | 2.42 | 1.96 | 3.08 | 3.53 11.8 | 30 | 90th Percentile Rank | 12 | 9.1 |
| 30 90th Percentile Rank | 12 | 9.1 | 10/2 | 7 | 5 | 7.1 | 7.1 | 11 | 11.4 | 31 | Avg Peak | 13.5 | 11.5 |
| 31 Avg Peak | 13.5 | 11.5 | 11 | 7 | 6 | 7.5 | 7 | 11 | 13.5 | 32 | 2x StDev + Mean | 13.9 | 11.4 |
| 32 2x StDev + Mean | 13.9 | 11.4 | 12.1 | 8.22 | 6.59 | 8.78 | 8.97 | 12.3 | 14.4 | | | | 11.4 |
| 33 Smoothed Average Peak | 12.9 | 11.8 | 10.3 | 7.6 | 6.5 | 71 | 79 | 10.7 | 13.8 | _33 | Smoothed Average Peak | 12.9 | 11.8 |
| 34 Blended Demand | 12.9 | 10.8 | 10.9 | 7.61 | 6.03 | 7.66 | 7.99 | 11.3 | 13.2 | 34 | Blended Demand | 12.9 | 10.8 |
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