

Memo

Date: August 4, 2017
To: Kevin Stewart
From: Markus Ritsch
Subject: July 2017 ALERT Data Analysis

I. ALERT Data Source

Raw ALERT data records extracted from the Urban Drainage and Flood Control District's NovaStar 5 base station were analyzed for the period July 1 through July 31, 2017.

II. General System Analysis Summary

The District receives data through both the legacy ALERT channel and through the ALERT2 (concentrator plus A2 self-reports) channel. The following (Table 1) quantifies the data reports received by each channel.

Table 1. Reception of Data at Diamond Hill (Legacy, ALERT2 and Concentrator Reports from Recdatalog)

| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Tot |
|--------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|----------|----------|----------|----------|----------|------------------|
| Legacy | 234,074 | 212,539 | 255,638 | 218,706 | 286,772 | 253,292 | 257,529 | | | | | | 1,718,550 |
| Concentrator | 361,187 | 367,684 | 388,156 | 352,903 | 463,501 | 398,350 | 397,942 | | | | | | 2,729,723 |
| ALERT2 | 327,977 | 422,710 | 422,580 | 480,051 | 562,023 | 600,824 | 612,240 | | | | | | 3,428,405 |
| TOTAL | 923,238 | 1,002,933 | 1,066,374 | 1,051,660 | 1,312,296 | 1,252,466 | 1,267,711 | 0 | 0 | 0 | 0 | 0 | 7,876,678 |
| Conc/Leg | 1.54 | 1.73 | 1.52 | 1.61 | 1.62 | 1.57 | 1.55 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1.59 |
| DataChron | 668,091 | 637,926 | 741,413 | 693,903 | 830,649 | 793,158 | 800,743 | | | | | | 5,165,883 |

The District operates two NovaStar5 base stations: the primary (ns5a) at Diamond Hill and a redundant base (ns5b) at Greenhouse Data. Additional analyses are conducted on the data received by these two base stations (Table 2). The data received by both base stations for the month are shown below.

Table 2. Comparison of Data Reception by ns5a and ns5b

| NS5A (Diamond Hill) | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Tot |
|--------------------------|---------|----------------------------|---------|---------------------------------------|---------|---------|------------------------------|-----|-----|-----|-----|-----|-----------|
| Legacy | 234,074 | 212,539 | 255,638 | 218,706 | 286,772 | 253,292 | 257,529 | | | | | | 1,718,550 |
| Concentrator | 361,187 | 367,684 | 388,156 | 352,903 | 463,501 | 398,350 | 397,942 | | | | | | 2,729,723 |
| ALERT2 | 327,977 | 422,710 | 422,580 | 480,051 | 562,023 | 600,824 | 612,240 | | | | | | 3,428,405 |
| NS5B (Greenhouse) | | | | | | | | | | | | | |
| Legacy | 234,037 | 211,806 | 255,357 | 259,950 | 287,868 | 252,952 | 255,279 | | | | | | 1,757,249 |
| Concentrator | 360,898 | 364,788 | 387,844 | 381,946 | 464,402 | 398,240 | 394,334 | | | | | | 2,752,452 |
| ALERT2 | 327,807 | 419,042 | 422,268 | 519,970 | 564,128 | 600,850 | 606,870 | | | | | | 3,460,935 |
| Diff (NS5a-NS5b) | | | | | | | | | | | | | |
| Legacy (Digi One) | 37 | 733 | 281 | -41,244 | -1096 | 340 | 2250 | 0 | 0 | 0 | 0 | 0 | -38,699 |
| Concentrator (B2010) | 289 | 2,896 | 312 | -29,043 | -901 | 110 | 3608 | 0 | 0 | 0 | 0 | 0 | -22,729 |
| ALERT2 (B2010) | 170 | 3,668 | 312 | -39,919 | -2105 | -26 | 5370 | 0 | 0 | 0 | 0 | 0 | -32,530 |
| Comments | | GH network outage on Feb 8 | | DH network outage on Apr 8, 9, and 16 | | | GH network outage on July 30 | | | | | | |

On July 30 at 6:15 AM the Greenhouse server went into failover. It seems the network was flaky between 6:00 AM and 6:45 AM and the network connection between Greenhouse and Diamond Hill was lost. The network connection was restored at approximately 10:00 AM on July 30th.

The daily ratio of concentrator to legacy reports is shown.

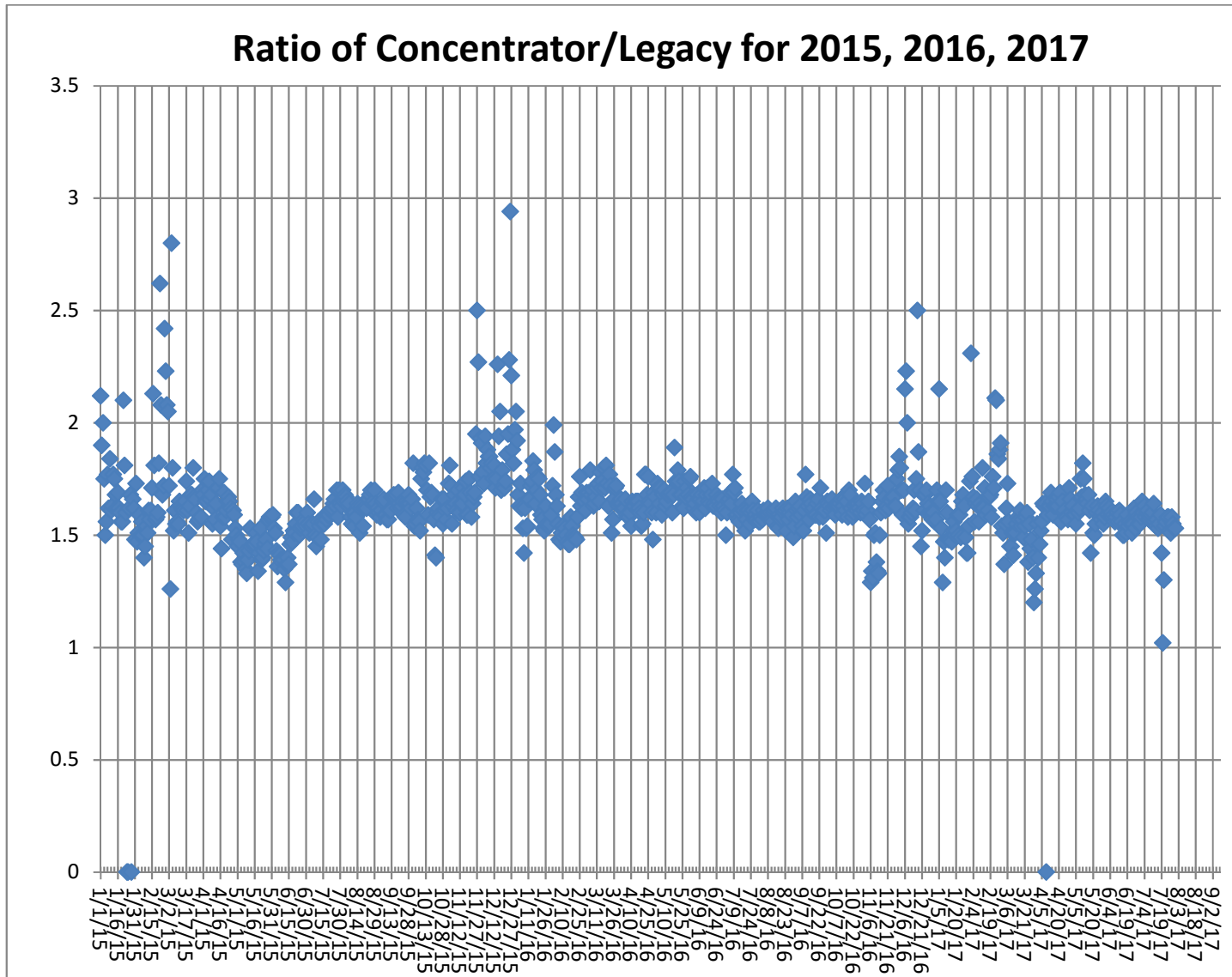


Figure 1. Daily Ratio of Concentrator Reports to Legacy Reports

The ratio becomes more volatile in the cold months as the Blue Mountain repeater has problems with legacy ALERT reporting when the temperature drops below zero. Volatility in the ratio was experienced in March and early April as issues with the radio repeater network and the B2010 decoder are evident.

The West Creek repeater experienced an outage late in the evening of July 19th due to a large storm and associated lightning in the Hayman Burn scar. The ALERT2 encoder board was destroyed and it was replaced on July 21st. No data was collected through the West Creek repeater on July 20th. Interesting to note in the figure above that the ratio of legacy to ALERT2 traffic on July 20th was 1.0 which is expected.

A. Continuous Operation of Base Receiver/Decoder

The base station was in continuous operation for the entire month. Data was collected on a continuous basis for a total of 744 hours of operation. Outages of less than one hour are not identified.

B. Specific Issues Identified

Performance of the following sensors (Table 3) was questionable this month.

Table 3. Sensors with Poor Performance Characteristics

| Sensor ID | Description | Comments |
|-----------|---|---|
| 2330 | Bear Creek at Morrison | Poor timer and event performance |
| 4100 | Filter Plant | Poor timer and event performance (only 6 reports for the month) |
| 3020 | West Creek WX | ALERT2 station with drifting clock (negative latency) |
| 3090 | Big Dry Creek at Heritage Regional Park | Poor timer performance for 3 rd month straight |
| 0, 1, 2 | Unknown | Unknown IDS transmitted on legacy ALERT |

C. ALERT2 Repeater Loading

The District's ALERT2 architecture utilizes 5 repeaters with a single transmit frequency (170.300 MHz) to Diamond Hill. The repeaters utilize a 20 second frame where each repeater is allocated a slot of specific size and an offset within the frame. The slot allocated to each repeater is sized appropriately to accommodate the total number of existing and future remote sites routed through that repeater. Each repeater is shown along with its designated slot (Table 4). Currently there is no pass-listing for the ALERT2 repeaters. Any remote ALERT2 site can be received by all repeaters and re-broadcast to the base except for West Creek which has an input frequency unique to Douglas County.

Table 4. ALERT2 Repeater Architecture

| Repeater | Slot Size (sec) | Slot Offset (sec) | Source Address | ALERT2 Input Frequency (MHz) | ALERT2 Output Frequency (MHz) – received at Diamond Hill |
|------------|-----------------|-------------------|----------------|------------------------------|--|
| West Creek | 2 | 0 | 6001 | 169.425 | 170.300 |
| Smoky | 3 | 2 | 6502 | 169.525 | 170.300 |
| Blue Mt. | 4 | 5 | 6503 | 169.525 | 170.300 |
| Lee Hill | 3 | 9 | 6505 | 169.525 | 170.300 |
| Gold Hill | 3 | 12 | 6506 | 169.525 | 170.300 |
| Magnolia | 5 | 15 | 6507 | | 170.300 |
| Frame Size | 20 | | | | |

The following tables summarize the total number of reports received through each repeater (Table 5). This helps to quantify repeater loading for the ALERT2 backbone.

Table 5. ALERT2 Reports Received through Each Repeater (Only A2 Self Reports)

| Month-Yr | West Creek (6001) | Smoky (6502) | Blue Mt. (6503) | Lee Hill (6505) | Gold Hill (6506) | TOTAL |
|----------|----------------------|-----------------|--------------------|--------------------|---------------------|---------|
| Jan-15 | 0 | 44,501 | 44,636 | 44,783 | 39,007 | 172,927 |
| Feb-15 | 0 | 58,543 | 56,150 | 61,160 | 57,764 | 233,617 |
| Mar-15 | 346 | 73,198 | 69,604 | 77,968 | 65,323 | 286,439 |
| Apr-15 | 595 | 73,711 | 69,568 | 79,215 | 72,310 | 295,399 |
| May-15 | 5,259 | 78,694 | 72,340 | 86,297 | 77,174 | 319,764 |
| June-15 | 11,987 | 72,449 | 65,742 | 82,998 | 69,570 | 302,746 |
| July-15 | 28,595 | 75,379 | 71,394 | 79,026 | 74,041 | 328,435 |
| Aug-15 | 28,409 | 92,299 | 84,057 | 84,363 | 87,211 | 376,339 |
| Sep-15 | 26,809 | 84,143 | 84,776 | 84,289 | 85,123 | 365,140 |
| Oct-15 | 19,775 | 82,683 | 83,390 | 63,475** | 84,825 | 334,148 |
| Nov-15 | 6,438 | 62,615 | 61,477 | 50,888 | 58,004 | 239,422 |
| Dec-15 | 9,835 | 72,886 | 72,465 | 73,431 | 47,996 | 276,613 |
| Jan-16 | 4,034 | 38,348 | 36,826 | 37,168 | 19,768 | 138,160 |
| Feb-16 | 11,732 | 93,120 | 99,206 | 96,284 | 99,188 | 399,530 |
| Mar-16 | 12,533 | 126,123 | 134,329 | 140,226 | 139,536 | 552,747 |
| Apr-16 | 13,262 | 128,473 | 130,223 | 135,499 | 133,197 | 540,654 |
| May-16 | 27,002 | 125,098 | 124,280 | 138,033 | 130,513 | 544,926 |
| Jun-16 | 30,405 | 117,877 | 111,309 | 133,036 | 122,798 | 515,425 |
| Jul-16 | 37,492 | 108,334 | 102,335 | 115,028 | 110,577 | 473,766 |
| Aug-16 | 48,323 | 130,666 | 123,827 | 136,746 | 131,957 | 571,519 |
| Sep-16 | 49,555 | 122,625 | 115,898 | 129,454 | 127,606 | 545,138 |
| Oct-16 | 51,170 | 111,105 | 110,038 | 116,087 | 116,489 | 504,889 |
| Nov-2016 | 47,039 | 72,761 | 92,941 | 100,083 | 99,508 | 412,332 |
| Dec-2016 | 48,946 | 102,329 | 97,321 | 79,274 | 102,097 | 429,967 |
| Jan-2017 | 47,286 | 50,748** | 27,307** | 97,947 | 104,689 | 327,977 |
| Feb-2017 | 45,366 | 96,629 | 94,065 | 88,239 | 98,411 | 422,710 |
| Mar-2017 | 53,021 | 87,160** | 33,983** | 121,578 | 126,722 | 422,464 |
| Apr-2017 | 49,833 | 110,418 | 116,486 | 122,506 | 120,727 | 519,970 |
| May-2017 | 54,375 | 128,362 | 128,310 | 118,908 | 134,173 | 564,128 |
| Jun-2017 | 60,671 | 131,745 | 124,019 | 146,333 | 138,056 | 600,824 |
| Jul-2017 | 58,442 | 137,750 | 130,136 | 146,134 | 139,778 | 612,240 |

** - The number of reports coming through these repeaters declined significantly

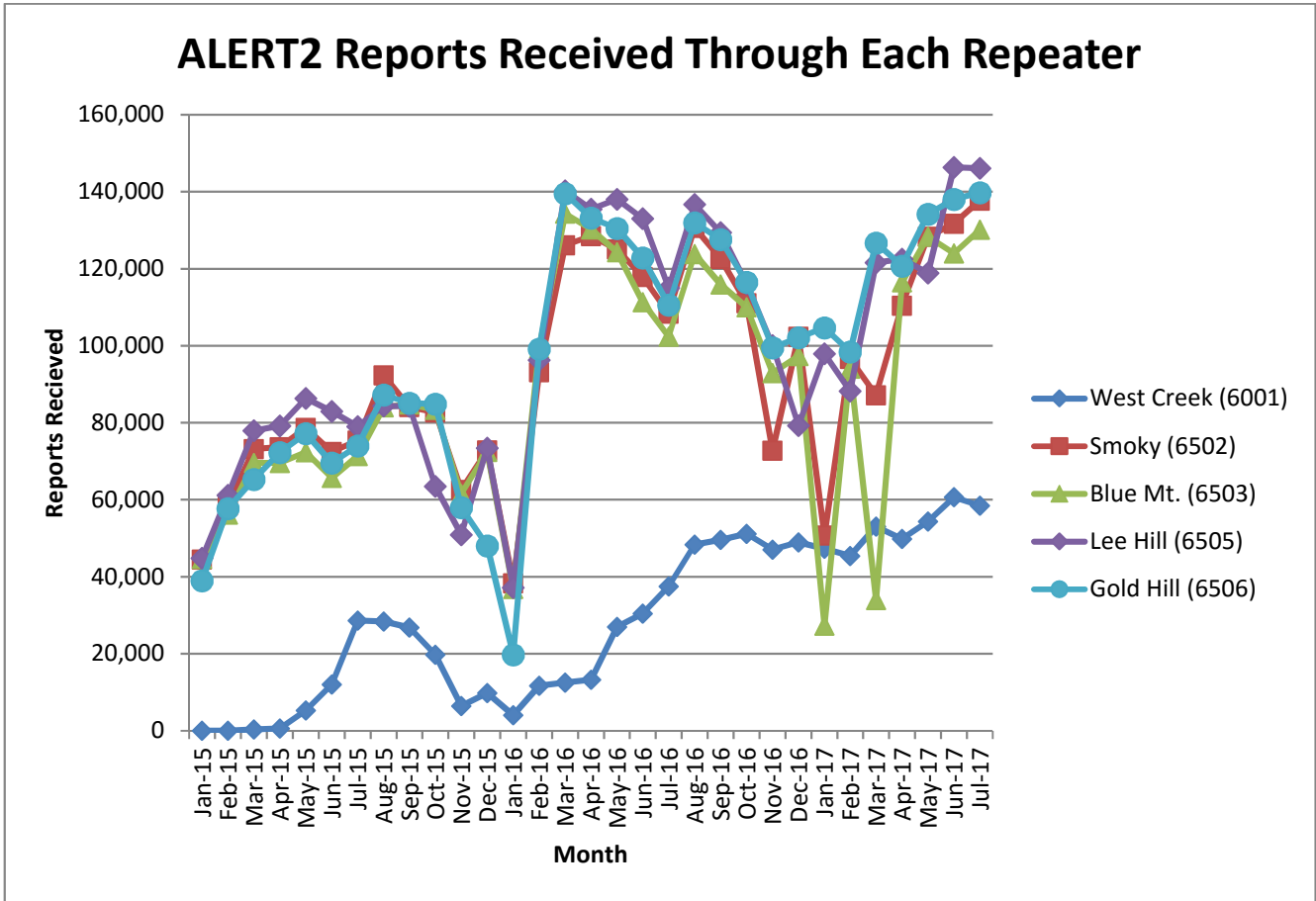


Figure 2. Reports received through each repeater (ALERT2 Only)

A convenient mechanism to track repeater performance throughout the year is to monitor total ALERT2 reports passed by each repeater. In general, each of the primary repeaters in the District process an equivalent number of ALERT2 reports because pass/block filtering is not being used. Several months are evident where the throughput of one repeater is not consistent with the other three.

In January of 2017 the ALERT2 reports received through Blue Mountain and through Smoky Hill showed a significant decrease. There may be a problem at these repeaters or it is possible that pass/block lists have been implemented.

In March of 2017 the ALERT2 reports received through Blue Mountain and through Smoky Hill showed a significant decrease. There may be a problem at these repeaters.

The West Creek repeater was down on July 20, 2017 which results in a reduced throughput for the month of July.

The following tables summarize the system-wide latency of ALERT2 self-reports (Table 6 and Table 7).

Table 6. System-Wide Latency of ALERT2 Self-Reports (seconds)

| Statistical Parameter | Value (sec) | Comments |
|-----------------------|-------------|--|
| Mean | 52.17 | The average time it took a report from the field to reach the base |
| Minimum | -23 | The minimum time it took for a report to go from the field to the base |
| Maximum | 320 | The maximum time it took for a report to go from the field to the base |

Table 7. Summary of ALERT2 System-Wide Latency (seconds)

| Statistical Parameter | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|--------------------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------------|-----|-----|-----|-----|
| Mean | 53.1 | 51.39 | 55.86 | 61.18 | 56.20 | 55.02 | 52.17 | | | | | |
| Minimum | -29 | -23 | -23 | -4 | -23 | -23 | -23 | | | | | |
| Maximum | 286 | 12,946 | 43,177 | 43,197 | 43,177 | 43,177 | 320 | | | | | |
| Station with Max Latency | | West Creek WX | West Creek Wx | West Creek WX | West Creek WX | West Creek WX | West Creek WX | Sellers Gulch at Haystack | | | | |

The negative latencies are observed only from the station West Creek WX. This is a HydroLynx transmitter. It is likely that the clock on this transmitter is drifting badly. A new GPS chip and EPROM are soon to be installed to help this station.

The West Creek Repeater (6001) experienced a significant clock drift beginning on March 28, extending through March 29. WET field staff did manage to visit the repeater on March 29 to reset the repeater clock.

D. Rain Sensor Timer Reporting Summary

The following analysis assumes that each legacy rain sensor has a 12-hour timer-reporting interval and each A2 rain sensor has a 1-hour timer-reporting interval. The worst performing rain sensors for the month are summarized (Table 8).

Table 8. Monthly Summary of Sensors with Poor Timer Performance (Sensor ID)

| Jan* | Feb* | Mar* | Apr | May | Jun | Jul | Aug | Sep | Oct* | Nov* | Dec* |
|--------|------|--------|------|--------|------|------|-----|-----|------|------|------|
| 2790 | 2790 | 4470 | 2790 | 2790 | 2790 | 4100 | | | | | |
| 5720 | 4100 | 100150 | 2800 | 3090 | 630 | 420 | | | | | |
| 4510 | 4330 | 2360 | 4100 | 5810 | 3090 | 2360 | | | | | |
| 100260 | 4040 | 2970 | 3050 | 1360 | 2330 | 3090 | | | | | |
| 4870 | 4270 | 2270 | 920 | 2330 | 5810 | 5810 | | | | | |
| 5940 | 4510 | 2350 | 1710 | 100270 | 4270 | 2330 | | | | | |

*- Only sensors that operate year-round (weather stations and stations in Boulder County) are included for the analysis in these months.

Sensors identified as having poor timer performance in multiple months are shaded with unique colors. A developing trend can thus be identified from the color shading as the year progresses.

III. Rain Sensor Event Reporting Summary

A. District-Wide Total Tip/Count Statistics

The incrementing reports from all 1-mm rain sensors were analyzed to quantify the District-wide statistical total monthly tip summary (Table 9). For the months of January, February, March, October, November and December only the stations that operate year-round are included in the rain event analysis. These stations include all weather stations and the stations in Boulder County.

Table 9. District-Wide Total Tip/Count Statistical Summary

| Statistical Parameter | Value | Comments |
|--|--------|--|
| Mean | 40.80 | Only the 1-mm rain sensors were included in the analysis |
| Median | 33 | Only the 1-mm rain sensors were included in the analysis |
| Standard deviation | 28.41 | Only the 1-mm rain sensors were included in the analysis |
| Mean plus three standard deviations | 126.04 | Only the 1-mm rain sensors were included in the analysis |
| Mean minus two standard deviations | -16.03 | Only the 1-mm rain sensors were included in the analysis |
| Minimum total count | 1 | Filter Plant (4100) possible problem here as this is too low |
| Maximum total count | 128 | Utah Park (430) |
| Sensors showing NO rain for the month | | |
| Sensors greater than 3 SD (over reporting) | 1 | Utah Park (430) – irrigation influence |

B. Monthly Average Tip/Count Summary

A monthly summary of the District-wide mean total tip/count is presented (Table 10).

Table 10. Monthly Summary of District-Wide Mean Total 1-mm Tip/Count

| Year | Jan* | Feb* | Mar* | Apr | May | Jun | Jul | Aug | Sep | Oct* | Nov* | Dec* | Ave |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|
| 2006 | 4.62 | 5.92 | 18.39 | 20.47 | 19.44 | 13.75 | 74.03 | 46.89 | 24.17 | 41.13 | 5.04 | 16.45 | 24.19 |
| 2007 | 11.56 | 5.40 | 29.75 | 65.03 | 68.30 | 15.87 | 36.20 | 46.38 | 22.13 | 29.50 | 6.54 | 11.29 | 29.00 |
| 2008 | 4.05 | 7.38 | 12.26 | 20.57 | 54.82 | 26.06 | 16.43 | 90.20 | 37.54 | 19.59 | 2.82 | 9.24 | 25.08 |
| 2009 | 6.33 | 3.11 | 11.37 | 59.26 | 63.45 | 68.00 | 65.00 | 20.00 | 27.29 | 30.24 | 11.00 | 5.60 | 30.89 |
| 2010 | 5.97 | 11.90 | 32.54 | 70.57 | 39.63 | 56.04 | 50.23 | 31.01 | 4.18 | 18.31 | 8.30 | 3.31 | 27.67 |
| 2011 | 6.78 | 7.45 | 7.54 | 33.94 | 92.68 | 39.42 | 90.87 | 18.25 | 37.67 | 25.73 | 10.41 | 13.59 | 32.03 |
| 2012 | 4.89 | 13.57 | 2.35 | 30.17 | 38.97 | 19.35 | 73.03 | 11.31 | 48.81 | 22.32 | 2.98 | 4.18 | 22.66 |
| 2013 | 2.96 | 14.31 | 21.86 | 35.96 | 45.87 | 16.39 | 52.33 | 50.63 | 229.74 | 29.64 | 5.86 | 4.00 | 42.46 |
| 2014 | 6.88 | 11.86 | 25.91 | 29.30 | 77.30 | 29.16 | 99.73 | 43.59 | 50.96 | 29.26 | 13.36 | 8.11 | 35.45 |
| 2015 | 9.88 | 24.42 | 20.78 | 69.75 | 143.07 | 86.93 | 54.59 | 29.95 | 7.16 | 53.28 | 22.08 | 10.80 | 44.39 |
| 2016 | 4.68 | 9.91 | 32.30 | 52.10 | 49.40 | 40.50 | 24.20 | 31.00 | 8.86 | 7.51 | 8.56 | 8.74 | 23.23 |
| 2017 | 13.3 | 5.84 | 27.70 | 39.10 | 99.60 | 15.33 | 40.80 | | | | | | |
| Ave | 6.83 | 10.09 | 20.23 | 43.85 | 66.04 | 35.57 | 56.45 | 34.93 | 41.54 | 25.54 | 8.08 | 7.94 | 28.09 |

*- Only sensors that operate year-round (weather stations and stations in Boulder County) are included for the analysis in these months.

C. Sensors with a Jump of Six or More in the Sequential Count

Twenty-two sensors experienced a large jump in the sequential tip count (Table 11).

Table 11. Sensors with a Jump of 6 or More in Sequential Count

| Sensor Description | Sensor ID | Comment |
|-----------------------------|-----------|--|
| Happy Canyon at N Surrey Dr | 2880 | Mechanical issue with the tipping bucket to be resolved by WET |
| WX-EPC at Hwy 105 | 3010 | All >6 reports were breaks in the data |
| WX-Brighton | 1920 | All >6 reports were breaks in the data |
| Cub Cr Below Blue | 2270 | All >6 reports were breaks in the data |
| WX-Salisbury Park | 2730 | All >6 reports were breaks in the data |
| WX-Castle Rock | 2750 | All >6 reports were breaks in the data |

D. Sensor-by-Sensor Incrementing Count Summary

The system-wide reception rate of incrementing, 1-mm tip reports for the month was approximately 95 percent. A total of 7,537 incrementing reports were received and a total of 7,996 reports were expected. The total loss of incrementing reports for the month was approximately 5 percent. Those sensors with the worst event transmission performance are summarized (Table 12).

Table 12. Monthly Summary of Sensors with the Worst Performance

| Jan* | Feb* | Mar* | Apr | May | Jun | Jul | Aug | Sep | Oct* | Nov* | Dec* |
|------|--------|------|------|------|------|------|-----|-----|------|------|------|
| 2790 | 4330 | 2790 | 2790 | 2790 | 5810 | 2330 | | | | | |
| 4870 | 750 | 1620 | 4270 | 4330 | 2790 | 2320 | | | | | |
| 1920 | 2790 | 2940 | 4100 | 5810 | 3090 | 4270 | | | | | |
| 3010 | 100260 | 2750 | 2330 | 3090 | 4270 | 2970 | | | | | |
| 4510 | 4270 | 2980 | 920 | 5900 | 5720 | 2880 | | | | | |
| 4330 | 4490 | 5900 | 1710 | 1500 | 630 | 2360 | | | | | |

*-Only sensors that are operational year-round (weather stations and stations in Boulder County) are included for the analysis in these months.

Sensors identified as having poor event performance in multiple months are shaded with unique colors. A developing trend can thus be identified from the color shading as the year progresses.

IV. Unknown Device Analysis – Received Data Log

The ALERT IDs present in the audio signal received by the decoder are compared against a list of “active” device IDs that are defined within NovaStar. Those IDs received by the decoder that are not defined within NovaStar are considered to be “unknown” and may be the result of radio noise or problems with the telemetry system. The reception of “unknown” device reports for the month is summarized (Table 13).

Table 13. Summary of Unknown IDs

| Description | Concentrator | Legacy | A2 |
|--|--------------|---------|---------|
| Total number of unknown IDs (IDs without a device definition) | 202 | 194 | 0 |
| Total reports from unknown IDs | 610 | 745 | 0 |
| Unknown IDs with only a single received report (potential noise) | 139 | 147 | 0 |
| Total reports from all IDs – RecData Log entire month | 397,942 | 257,529 | 612,240 |
| Unknown reports as a fraction of total reports | 0.15% | 0.29% | 0.00% |

The total number of reports from unknown sensors is very small relative to the total reports received for the month. Shown below (Table 14) are the total reports received from unknown sensor IDs for each month of the year.

Table 14. Monthly Summary of Total Reports from Unknown IDs (Concentrator)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------|--------|-------|-------|-------|--------|--------|-------|-------|-------|-------|--------|-------|
| 2010 | 1,220 | 1,474 | 1,276 | 1,174 | 721 | 5,707 | 610 | 1,738 | 442 | 533 | 2,857 | 6,396 |
| 2011 | 1,231 | 2,165 | 3,065 | 1,254 | 2,051 | 439 | 489 | 456 | 191 | 683 | 747 | 861 |
| 2012 | 692 | 750 | 1,575 | 977 | 5,469 | 11,016 | 453 | 683 | 774 | 2,657 | 3,854 | 5,466 |
| 2013 | 4,265 | 994 | 1,100 | 2,589 | 3,623 | 6,973 | 5,230 | 1,070 | 4,429 | 781 | 13,459 | 1,213 |
| 2014 | 870 | 4,284 | 2,399 | 2,104 | 25,746 | 1,832 | 3,983 | 268 | 369 | 448 | 470 | 1,099 |
| 2015 | 542 | 9,137 | 1,524 | 1,007 | 946 | 699 | 1,179 | 1,860 | 1,153 | 1,063 | 600 | 619 |
| 2016 | 323 | 1,241 | 3,085 | 3,586 | 1,268 | 945 | 1,408 | 2,029 | 1,413 | 753 | 617 | 879 |
| 2017 | 11,875 | 844 | 1,207 | 3,700 | 2,693 | 642 | 610 | | | | | |

The fraction of reports from unknown sensors relative to the total number of reports is shown below (Table 15).

Table 15. Monthly Percent of Unknown Sensor Reports (Concentrator)

| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2010 | 0.42% | 0.56% | 0.38% | 0.32% | 0.20% | 1.61% | 0.17% | 0.49% | 0.13% | 0.16% | 0.93% | 1.88% |
| 2011 | 0.39% | 0.73% | 0.90% | 0.37% | 0.58% | 0.12% | 0.12% | 0.05% | 0.12% | 0.18% | 0.22% | 0.26% |
| 2012 | 0.30% | 0.25% | 0.43% | 0.26% | 1.37% | 2.74% | 0.11% | 0.18% | 0.20% | 0.72% | 1.15% | 1.62% |
| 2013 | 1.40% | 0.31% | 0.29% | 0.60% | 0.37% | 0.61% | 0.82% | 0.21% | 0.96% | 0.31% | 5.37% | 0.23% |
| 2014 | 0.14% | 0.94% | 0.40% | 0.34% | 3.95% | 0.34% | 0.66% | 0.03% | 0.03% | 0.07% | 0.11% | 0.26% |
| 2015 | 0.15% | 2.25% | 0.34% | 0.22% | 0.19% | 0.14% | 0.26% | 0.42% | 0.29% | 0.24% | 0.15% | 0.15% |
| 2016 | 0.10% | 0.30% | 0.69% | 0.82% | 0.28% | 0.22% | 0.33% | 0.50% | 0.36% | 0.18% | 0.17% | 0.22% |
| 2017 | 3.29% | 0.23% | 0.31% | 0.97% | 0.58% | 0.16% | 0.16% | | | | | |

Any month shaded in yellow has an excessive number of reports from unknown sensors.

A number of “unknown” sensors had multiple reports, which may indicate the existence of a transmitter that is sending information on an ID that is not currently defined within NovaStar. The unknown IDs with multiple reports including the number of reports received by each are shown (Table 16).

Table 16. Reports Received by Unknown IDs

| Concentrator | | Legacy ALERT | | Comment |
|--------------|---------|--------------|-----------|--|
| Unknown ID | Reports | Unknown ID | Reports | |
| 3047 | 16 | 0,1,2 | 59,59,110 | Legacy reports for IDs 0,1,2 only |
| 2271 | 57 | 2271 | 56 | Cub Creek Below Blue possibly sending invalid ID |
| 2272 | 55 | 2272 | 54 | Cub Creek Below Blue possibly sending invalid ID |
| 2274 | 55 | 2274 | 53 | Cub Creek Below Blue possibly sending invalid ID |
| 4371 | 16 | 4371 | 16 | Little Narrows possibly sending invalid ID |
| 2239 | 15 | 2239 | 15 | Cold Spring Gulch possibly sending invalid ID |

V. Sensors with Invalid Reports

The sensors below (Table 17 and Table 18) have the largest number of invalid decodes as determined by the validation process defined at the District NovaStar5 base station. These invalid reports may indicate poor radio paths (bit flip/contention errors/random decode) or validation criteria that do not match the physical installation at the site.

Table 17. Rain Sensors with the Most Invalid Reports

| Sensor ID | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1530-Bear Cr. At Lowell | 9 | 11 | 8 | 5 | 6 | -- | -- | | | | | |
| 2810-Pine Cliff Rd. | 41 | 32 | 9 | 9 | 2 | 2 | 1 | | | | | |
| 2880-Happy Canyon | -- | -- | -- | -- | -- | -- | 4 | | | | | |
| 3010-Wx-EPC @ 105 | 6 | 7 | 2 | 4 | -- | 2 | 3 | | | | | |
| 3050-E/W Trailhead | 23 | 18 | 7 | 5 | 3 | 5 | 1 | | | | | |
| 4030-Red Garden | -- | 10 | 5 | -- | 4 | 2 | 2 | | | | | |
| 4330-Hansen | -- | -- | -- | -- | -- | -- | 4 | | | | | |
| 4240-Sunset | -- | 9 | 5 | 2 | -- | -- | -- | | | | | |
| 4790-Wx-Button Rock | -- | -- | 5 | 4 | 2 | 5 | 2 | | | | | |

Table 18. Level Sensors with the Most Invalid Reports

| Sensor ID | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 413-Kelly Dam | -- | -- | 43 | 3 | 10 | 2 | 1 | | | | | |
| 213-Leyden Confluence | -- | -- | 17 | -- | -- | 4 | -- | | | | | |
| 723-WTG above Conf Pond | -- | 8 | 0 | -- | -- | -- | -- | | | | | |
| 1483-Third Creek at DIA | -- | 8 | 4 | 204 | 2 | -- | -- | | | | | |
| 1523-Marston Lake North | 10 | 8 | 11 | 9 | 5 | 4 | 1 | | | | | |
| 1649-SPR at 19 th Street | 152 | -- | 1 | 1 | 2 | -- | -- | | | | | |
| 2223-Evergreen Lake | -- | -- | -- | -- | -- | -- | 8 | | | | | |
| 2273-Cub Cr below Blue | -- | -- | -- | -- | -- | -- | 8 | | | | | |
| 2813-Pine Cliff Road | 16 | 12 | 11 | 7 | 1 | 3 | -- | | | | | |
| 3013-EPC@Hwy 105 | 3 | -- | 4 | 9 | 10 | 7 | 5 | | | | | |
| 4383-Eldorado Springs | 16 | 2 | 2 | -- | 1 | -- | -- | | | | | |
| 4593-Green Ditch | -- | -- | 16 | 1 | 2 | 9 | 3 | | | | | |

VI. Rainfall Alarms and Intensity Analysis

The following rainfall rate alarms from the Urban Drainage and Flood Control District NovaStar 5.0 Web Server were identified this month.

| Point ID | Point Name | Trigger Name | Alarm Time |
|----------|---|---|-----------------|
| 600 | Harvard Gulch Park Precipitation-DN | Plains 10 minute rainfall | 7/8/2017 15:44 |
| 600 | Harvard Gulch Park Precipitation-DN | Tweet Denver Heavy Rain 0.5"-10min | 7/8/2017 15:44 |
| 2970 | Rampart Range Road Precipitation-DG | 2970 Rampart Range Road 0.2" in 30 Minutes Rainfall | 7/12/2017 21:15 |
| 4160 | Sunshine Precipitation-BO | FMC-BA 0.25" in 10 Min Rainfall | 7/18/2017 11:57 |
| 3020 | West Creek Wx Precipitation-DG | Douglas County 1 hour-1 Inch rainfall | 7/19/2017 16:13 |
| 3020 | West Creek Wx Precipitation-DG | Tweet Douglas County Heavy Rain 1"-1hour | 7/19/2017 16:13 |
| 5810 | Stump Bump Precipitation-TL | Hayman 30 minute rainfall | 7/19/2017 16:33 |
| 5740 | Trail Creek Precipitation-TL | Hayman 30 minute rainfall | 7/19/2017 16:39 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 30 minute rainfall | 7/19/2017 16:40 |
| 5740 | Trail Creek Precipitation-TL | Hayman 1 hour rainfall | 7/19/2017 16:43 |
| 5810 | Stump Bump Precipitation-TL | Hayman 1 hour rainfall | 7/19/2017 16:45 |
| 5810 | Stump Bump Precipitation-TL | Hayman 30 minute rainfall | 7/19/2017 16:45 |
| 5740 | Trail Creek Precipitation-TL | Hayman 30 minute rainfall | 7/19/2017 16:53 |
| 5740 | Trail Creek Precipitation-TL | Hayman 90 minute rainfall | 7/19/2017 16:55 |
| 5810 | Stump Bump Precipitation-TL | Hayman 30 minute rainfall | 7/19/2017 16:58 |
| 5740 | Trail Creek Precipitation-TL | Hayman 30 minute rainfall | 7/19/2017 17:08 |
| 2970 | Rampart Range Road Precipitation-DG | 2970 Rampart Range Road 0.2" in 30 Minutes Rainfall | 7/20/2017 15:15 |
| 2970 | Rampart Range Road Precipitation-DG | 2970 Rampart Range Road 0.4" in 1 Hour Rainfall | 7/20/2017 15:15 |
| 2970 | Rampart Range Road Precipitation-DG | Douglas County 10 minute rainfall | 7/20/2017 15:15 |
| 2970 | Rampart Range Road Precipitation-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/20/2017 15:15 |
| 1710 | Shop Creek Precipitation-AR | Plains 10 minute rainfall | 7/20/2017 16:14 |
| 1710 | Shop Creek Precipitation-AR | Tweet Arapahoe County Heavy Rain 0.5"-10min | 7/20/2017 16:14 |
| 1710 | Shop Creek Precipitation-AR | Tweet Aurora Heavy Rain 0.5"-10min | 7/20/2017 16:14 |
| 1710 | Shop Creek Precipitation-AR | Plains 1 hour rainfall | 7/20/2017 16:29 |
| 1710 | Shop Creek Precipitation-AR | Tweet Arapahoe County Heavy Rain 1"-1hour | 7/20/2017 16:29 |
| 1710 | Shop Creek Precipitation-AR | Tweet Aurora Heavy Rain 1"-1hour | 7/20/2017 16:29 |
| 2970 | Rampart Range Road Precipitation-DG | 2970 Rampart Range Road 0.2" in 30 Minutes Rainfall | 7/21/2017 14:45 |
| 2920 | West Cherry Head Precipitation-DG | Douglas County 10 minute rainfall | 7/23/2017 12:38 |
| 2920 | West Cherry Head Precipitation-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/23/2017 12:38 |
| 2920 | West Cherry Head Precipitation-DG | Douglas County 1 hour-1 Inch rainfall | 7/23/2017 12:48 |
| 2920 | West Cherry Head Precipitation-DG | Tweet Douglas County Heavy Rain 1"-1hour | 7/23/2017 12:48 |
| 5900 | Horse Creek Precipitation-DG | Hayman 30 minute rainfall | 7/23/2017 16:00 |
| 2970 | Rampart Range Road Precipitation-DG | 2970 Rampart Range Road 0.2" in 30 Minutes Rainfall | 7/23/2017 16:45 |
| 2250 | Rosedale Precipitation-JF | Jefferson County 10 minute rainfall | 7/26/2017 16:57 |
| 2250 | Rosedale Precipitation-JF | Tweet Jefferson County Heavy Rain 0.5"-10min | 7/26/2017 16:57 |

| | | | |
|--------|---|--|-----------------|
| 2900 | Russellville Gulch Precipitation-DG | Douglas County 10 minute rainfall | 7/26/2017 18:10 |
| 2900 | Russellville Gulch Precipitation-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/26/2017 18:10 |
| 2900 | Russellville Gulch Precipitation-DG | Douglas County 1 hour-1 Inch rainfall | 7/26/2017 18:13 |
| 2900 | Russellville Gulch Precipitation-DG | Tweet Douglas County Heavy Rain 1"-1hour | 7/26/2017 18:13 |
| 2900 | Russellville Gulch Precipitation-DG | Douglas County 10 minute rainfall | 7/26/2017 18:20 |
| 2900 | Russellville Gulch Precipitation-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/26/2017 18:20 |
| 2900 | Russellville Gulch Precipitation-DG | Douglas County 10 minute rainfall | 7/26/2017 18:31 |
| 2900 | Russellville Gulch Precipitation-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/26/2017 18:31 |
| 4850 | Porphyry Mountain Precipitation-BO | FMC-BA 0.50" in 30 Min Rainfall | 7/26/2017 19:05 |
| 4320 | Lee Hill Rain Precipitation-BO | FMC-BA 0.25" in 10 Min Rainfall | 7/26/2017 19:14 |
| 5720 | Four Mile Creek Precipitation-DG | Hayman 30 minute rainfall | 7/26/2017 19:16 |
| 4150 | Gold Hill Precipitation-BO | FMC-BA 0.25" in 10 Min Rainfall | 7/26/2017 19:22 |
| 4150 | Gold Hill Precipitation-BO | FMC-BA 0.50" in 30 Min Rainfall | 7/26/2017 19:23 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 30 minute rainfall | 7/26/2017 19:28 |
| 4140 | Logan Mill Precipitation-BO | FMC-BA 0.25" in 10 Min Rainfall | 7/26/2017 19:28 |
| 5720 | Four Mile Creek Precipitation-DG | Hayman 1 hour rainfall | 7/26/2017 19:29 |
| 5720 | Four Mile Creek Precipitation-DG | Hayman 30 minute rainfall | 7/26/2017 19:29 |
| 5810 | Stump Bump Precipitation-TL | Hayman 1 hour rainfall | 7/26/2017 19:32 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 1 hour rainfall | 7/26/2017 19:38 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 30 minute rainfall | 7/26/2017 19:40 |
| 5720 | Four Mile Creek Precipitation-DG | Hayman 30 minute rainfall | 7/26/2017 19:40 |
| 4110 | Betasso Precipitation-BO | FMC-BA 0.50" in 30 Min Rainfall | 7/26/2017 19:41 |
| 5810 | Stump Bump Precipitation-TL | Hayman 30 minute rainfall | 7/26/2017 19:47 |
| 5810 | Stump Bump Precipitation-TL | Hayman 90 minute rainfall | 7/26/2017 19:47 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 90 minute rainfall | 7/26/2017 19:58 |
| 1620 | Slaughterhouse Gulch Precipitation-AR | Plains 10 minute rainfall | 7/26/2017 20:31 |
| 1620 | Slaughterhouse Gulch Precipitation-AR | Tweet Arapahoe County Heavy Rain 0.5"-10min | 7/26/2017 20:31 |
| 1710 | Shop Creek Precipitation-AR | Plains 1 hour rainfall | 7/26/2017 20:56 |
| 1710 | Shop Creek Precipitation-AR | Tweet Arapahoe County Heavy Rain 1"-1hour | 7/26/2017 20:56 |
| 1710 | Shop Creek Precipitation-AR | Tweet Aurora Heavy Rain 1"-1hour | 7/26/2017 20:56 |
| 2240 | Cold Spring Gulch C Precipitation-JF | Jefferson County 10 minute rainfall | 7/26/2017 21:22 |
| 2240 | Cold Spring Gulch C Precipitation-JF | Tweet Jefferson County Heavy Rain 0.5"-10min | 7/26/2017 21:22 |
| 2320 | Choke Cherry Reservoir Precipitation-JF | Jefferson County 10 minute rainfall | 7/26/2017 21:23 |
| 2320 | Choke Cherry Reservoir Precipitation-JF | Tweet Jefferson County Heavy Rain 0.5"-10min | 7/26/2017 21:23 |
| 2310 | Genesee Village Precipitation-JF | Jefferson County 10 minute rainfall | 7/26/2017 21:26 |
| 2310 | Genesee Village Precipitation-JF | Tweet Jefferson County Heavy Rain 0.5"-10min | 7/26/2017 21:26 |
| 2350 | Idledale Precipitation-JF | Jefferson County 10 minute rainfall | 7/26/2017 21:27 |
| 2350 | Idledale Precipitation-JF | Tweet Jefferson County Heavy Rain 0.5"-10min | 7/26/2017 21:27 |
| 2320 | Choke Cherry Reservoir Precipitation-JF | Jefferson County 1 hour rainfall | 7/26/2017 21:32 |
| 2320 | Choke Cherry Reservoir Precipitation-JF | Tweet Jefferson County Heavy Rain 1"-1hour | 7/26/2017 21:32 |
| 1520 | Marston Lake North Precipitation | Plains 10 minute rainfall | 7/26/2017 22:04 |

| | | | |
|--------|--|--|-----------------|
| 1520 | Marston Lake North Precipitation | Tweet Lakewood/Wheat Ridge Heavy Rain 0.5"-10min | 7/26/2017 22:04 |
| 1640 | SPR at Union Avenue Precipitation | Plains 10 minute rainfall | 7/26/2017 22:12 |
| 1520 | Marston Lake North Precipitation | Plains 1 hour rainfall | 7/26/2017 22:13 |
| 1520 | Marston Lake North Precipitation | Tweet Lakewood/Wheat Ridge Heavy Rain 1"-1hour | 7/26/2017 22:13 |
| 1520 | Marston Lake North Precipitation | Plains 10 minute rainfall | 7/26/2017 22:14 |
| 1520 | Marston Lake North Precipitation | Tweet Lakewood/Wheat Ridge Heavy Rain 0.5"-10min | 7/26/2017 22:14 |
| 1640 | SPR at Union Avenue Precipitation | Plains 1 hour rainfall | 7/26/2017 22:15 |
| 620 | Quincy/Highline Precipitation-AR | Plains 10 minute rainfall | 7/26/2017 22:21 |
| 620 | Quincy/Highline Precipitation-AR | Tweet Arapahoe County Heavy Rain 0.5"-10min | 7/26/2017 22:21 |
| 1640 | SPR at Union Avenue Precipitation | Plains 10 minute rainfall | 7/26/2017 22:23 |
| 1530 | Bear Creek at Lowell Precipitation-AR | Plains 1 hour rainfall | 7/26/2017 22:36 |
| 1530 | Bear Creek at Lowell Precipitation-AR | Tweet Arapahoe County Heavy Rain 1"-1hour | 7/26/2017 22:36 |
| 2750 | Castle Rock Precipitation-DG | Douglas County 1 hour-1 Inch rainfall | 7/26/2017 22:42 |
| 2750 | Castle Rock Precipitation-DG | Tweet Douglas County Heavy Rain 1"-1hour | 7/26/2017 22:42 |
| 2880 | Happy Canyon at North Surrey Drive Precip-DG | Douglas County 10 minute rainfall | 7/27/2017 7:58 |
| 2880 | Happy Canyon at North Surrey Drive Precip-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/27/2017 7:58 |
| 2880 | Happy Canyon at North Surrey Drive Precip-DG | Douglas County 10 minute rainfall | 7/27/2017 20:00 |
| 2880 | Happy Canyon at North Surrey Drive Precip-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/27/2017 20:00 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 30 minute rainfall | 7/28/2017 14:30 |
| 5810 | Stump Bump Precipitation-TL | Hayman 30 minute rainfall | 7/28/2017 14:41 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 1 hour rainfall | 7/28/2017 14:42 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 30 minute rainfall | 7/28/2017 14:42 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 30 minute rainfall | 7/28/2017 14:56 |
| 100270 | Westcreek Fire Station Wx Precipitation | Douglas County 1 hour-1 Inch rainfall | 7/28/2017 15:08 |
| 100270 | Westcreek Fire Station Wx Precipitation | Hayman 90 minute rainfall | 7/28/2017 15:08 |
| 100270 | Westcreek Fire Station Wx Precipitation | Tweet Douglas County Heavy Rain 1"-1hour | 7/28/2017 15:08 |
| 2940 | Willow Creek Precipitation-DG | Douglas County 1 hour-1 Inch rainfall | 7/28/2017 15:44 |
| 2940 | Willow Creek Precipitation-DG | Douglas County 10 minute rainfall | 7/28/2017 15:44 |
| 2940 | Willow Creek Precipitation-DG | Tweet Douglas County Heavy Rain 0.5"-10min | 7/28/2017 15:44 |
| 2940 | Willow Creek Precipitation-DG | Tweet Douglas County Heavy Rain 1"-1hour | 7/28/2017 15:44 |

General System Analysis

Database Name P:\A207-UDFCD-Data-Analysis\2017\07-2017\July_Data.mdb

Summarize

| | | | |
|-------------------------------|------------------|--------------------|-------|
| First Date in Database | 6/30/17 11:59 PM | Total Days | 31.0 |
| Last Date in Database | 7/31/17 11:59 PM | Total Hours | 744.0 |

Total Records Analyzed 1,256,483

| Records by Group | Legacy | | Concentrator | | ALERT | |
|-------------------------|----------------|-------------|----------------|-------------|----------------|-------------|
| Wind Data | 83,920 | 33% | 144,541 | 36% | 185,479 | 30% |
| Temperature | 38,631 | 15% | 66,838 | 17% | 86,451 | 14% |
| Relative Humidity | 38,166 | 15% | 59,948 | 15% | 84,865 | 14% |
| Barometric Pressure | 22,065 | 9% | 31,845 | 8% | 1,251 | 0% |
| Water Level | 16,799 | 7% | 18,966 | 5% | 66,606 | 11% |
| Battery Voltage | 14,455 | 6% | 26,198 | 7% | 81,608 | 13% |
| Precipitation | 12,481 | 5% | 17,293 | 4% | 55,882 | 9% |
| Solar Radiation | 11,067 | 4% | 11,163 | 3% | 0 | 0% |
| Fuel Temperature | 5,968 | 2% | 6,042 | 2% | 0 | 0% |
| Fuel Moisture | 5,905 | 2% | 5,958 | 1% | 0 | 0% |
| Soil Moisture | 2,942 | 1% | 2,959 | 1% | 0 | 0% |
| Repeater Status Report | 2,151 | 1% | 1,760 | 0% | 0 | 0% |
| ET-Hourly | 748 | 0% | 752 | 0% | 0 | 0% |
| Unknown | 745 | 0% | 610 | 0% | 0 | 0% |
| Repeater Pass List | 549 | 0% | 63 | 0% | 0 | 0% |
| 12Hr Status Report | 329 | 0% | 340 | 0% | 2,897 | 0% |
| Not Used | 269 | 0% | 290 | 0% | 0 | 0% |
| Water Temp | 122 | 0% | 123 | 0% | 0 | 0% |
| Hayman Battery | 115 | 0% | 1,969 | 0% | 0 | 0% |
| Handar 585 ALARM Status | 62 | 0% | 63 | 0% | 0 | 0% |
| ET-Daily | 38 | 0% | 38 | 0% | 0 | 0% |
| Solar Power | 2 | 0% | 1 | 0% | 0 | 0% |
| GPS Lock | 0 | 0% | 182 | 0% | 31,527 | 5% |
| Dew Point Temperature | 0 | 0% | 0 | 0% | 8,886 | 1% |
| Flasher Status | 0 | 0% | 0 | 0% | 6,788 | 1% |
| Total | 257,529 | 100% | 397,942 | 100% | 612,240 | 100% |

| Traffic Loading Summary | Legacy | | Concentrator | | ALERT | |
|-------------------------|---------|------------------|--------------|------------------|---------|------------------|
| Alert Reports | 257,529 | | 397,942 | | 612,240 | |
| Average Daily Traffic | 8,307 | | 12,436 | | 19,132 | |
| Average Hourly Traffic | 346 | | 518 | | 797 | |
| Median Hourly Traffic | 337 | hour beginning | 527 | hour beginning | 821 | hour beginning |
| Peak Hourly Traffic | 1,017 | Jul 26, 9:00 PM | 1,387 | Jul 26, 9:00 PM | 1,143 | Jul 26, 9:00 PM |
| 2nd Max | 851 | Jul 26, 10:00 PM | 1,206 | Jul 26, 10:00 PM | 1,140 | Jul 28, 4:00 PM |
| 3rd Max | 781 | | 1,051 | | 1,113 | |
| 4th Max | 638 | Jul 26, 11:00 PM | 913 | Jul 26, 11:00 PM | 1,056 | Jul 26, 10:00 PM |
| 5th Max | 558 | Jul 26, 7:00 PM | 859 | Jul 26, 6:00 PM | 1,031 | Jul 26, 7:00 PM |

Rain Timer Performance

Analyze Rain Sensors

| Rain Sensors | Description | Rcv | Timer | Exp | Performance |
|--------------|-------------------------------------|-----|-------|-----|-------------|
| 4100 | Filter Plant | 6 | 12:00 | 62 | 10% |
| 420 | Expo Park | 23 | 11:58 | 62 | 37% |
| 2360 | Indian Hills | 36 | 16:54 | 62 | 58% |
| 3090 | A2-Highland Heritage Park | 447 | | 744 | 60% |
| 5810 | Stump Bump | 39 | 14:30 | 62 | 63% |
| 2330 | Morrison | 42 | 16:06 | 62 | 68% |
| 1710 | Shop Creek | 44 | 14:46 | 62 | 71% |
| 1620 | Slaughterhouse Glch | 45 | 15:25 | 62 | 73% |
| 2750 | Wx-Castle Rock | 45 | 15:25 | 62 | 73% |
| 100260 | Wx-A2-Trumbull (Hayman) - Precip | 545 | | 744 | 73% |
| 1360 | Denver Zoo | 46 | 15:39 | 62 | 74% |
| 3010 | WX-EPC at Hwy 105 | 46 | 12:40 | 62 | 74% |
| 1660 | SPR at Henderson | 47 | 15:20 | 62 | 76% |
| 4270 | Cannon Mountain | 47 | 14:33 | 62 | 76% |
| 4510 | Pinewood Springs | 47 | 14:09 | 62 | 76% |
| 2280 | Kinney Peak | 48 | 14:17 | 62 | 77% |
| 4290 | Red Hill | 48 | 14:17 | 62 | 77% |
| 4470 | Little Narrows | 49 | 14:17 | 62 | 79% |
| 4870 | SBC @ SB Road | 49 | 14:24 | 62 | 79% |
| 4790 | Wx-Button Rock | 50 | 14:17 | 62 | 81% |
| 100150 | A2-Sellers Gulch at Haystack Precip | 601 | | 744 | 81% |
| 2900 | Russelville Gulch-Douglas | 52 | 12:58 | 62 | 84% |
| 4040 | Martin Gulch | 52 | 13:37 | 62 | 84% |
| 5720 | Four Mile Creek | 52 | 13:15 | 62 | 84% |
| 2890 | Spruce Mt - Douglas | 53 | 13:32 | 62 | 85% |
| 2960 | Indian Creek | 53 | 12:16 | 62 | 85% |
| 430 | Utah Park | 54 | 12:24 | 62 | 87% |
| 540 | Parker/Mississippi | 54 | 12:27 | 62 | 87% |
| 2230 | Bear Cr below Cub | 54 | 13:30 | 62 | 87% |
| 2810 | Pine Cliff Road | 54 | 12:16 | 62 | 87% |
| 2820 | Haskins Gulch Conf | 54 | 12:00 | 62 | 87% |
| 2840 | Sulphur Gulch | 54 | 12:47 | 62 | 87% |
| 2910 | East Cherry Cr-Douglas | 54 | 12:00 | 62 | 87% |
| 3030 | WX-Bingham Lake Park | 54 | 12:16 | 62 | 87% |
| 4330 | Hansen Rain | 54 | 13:23 | 62 | 87% |
| 100140 | A2-Upper Sellers Gulch Precip | 659 | | 744 | 89% |
| 310 | Guy Hill Ranch | 55 | 12:16 | 62 | 89% |
| 2370 | Red Rocks Park | 55 | 11:57 | 62 | 89% |
| 2850 | Cherry Cr bl Bayou Glch | 55 | 12:16 | 62 | 89% |
| 2920 | West Cherry Head-Douglas Cnty | 55 | 13:32 | 62 | 89% |
| 2930 | Wx-Spring Valley Rd-DougCnty | 55 | 12:00 | 62 | 89% |
| 2950 | DC Public Works | 55 | 12:32 | 62 | 89% |
| 2980 | Dakan Rd | 55 | 12:15 | 62 | 89% |
| 3080 | Tallman Gulch | 55 | 12:32 | 62 | 89% |
| 5730 | West Creek | 55 | 12:00 | 62 | 89% |
| 5740 | Trail Creek | 55 | 12:00 | 62 | 89% |
| 3050 | East/West Trailhead | 667 | | 744 | 90% |
| 330 | Van Bibber @ Hwy 93 | 56 | 12:39 | 62 | 90% |
| 2350 | Idledale | 56 | 12:32 | 62 | 90% |
| 2710 | Wx-Highlands Ranch WTP | 56 | 12:21 | 62 | 90% |
| 2730 | Wx-Salisbury Park | 56 | 12:00 | 62 | 90% |
| 2870 | Cottonwood (Apache) | 56 | 12:00 | 62 | 90% |
| 2880 | Happy Canyon at N Surrey Dr | 56 | 12:16 | 62 | 90% |
| 4030 | Red Garden | 56 | 13:07 | 62 | 90% |

| | | | | | |
|--------|-----------------------------------|-----|-------|-----|-----|
| 4490 | Apple Valley | 56 | 13:08 | 62 | 90% |
| 5860 | Cedar Mountain | 56 | 12:00 | 62 | 90% |
| 5880 | Hackett Mountain | 56 | 12:00 | 62 | 90% |
| 5940 | Log Jumper | 56 | 12:17 | 62 | 90% |
| 440 | Fire Station #7 | 57 | 12:25 | 62 | 92% |
| 1720 | Cherry Cr @ Steele | 57 | 12:39 | 62 | 92% |
| 2270 | Cub Cr below Blue | 57 | 12:34 | 62 | 92% |
| 2320 | Choke Cherry Resvr | 57 | 12:30 | 62 | 92% |
| 2940 | Willow Creek - DougCnty | 57 | 12:00 | 62 | 92% |
| 2990 | Wx-Tomah Rd-DougCnty | 57 | 12:00 | 62 | 92% |
| 3040 | CC @ Russelville Road Precip | 57 | 12:00 | 62 | 92% |
| 4060 | Lakeshore | 57 | 12:27 | 62 | 92% |
| 100290 | A2-PlumCr at Sedalia - Precip | 693 | | 744 | 93% |
| 100270 | Wx-A2-WestCreek (Hayman) - Precip | 695 | | 744 | 93% |
| 210 | Leyden Confluence | 58 | 12:37 | 62 | 94% |
| 650 | Iliff Pond | 58 | 12:13 | 62 | 94% |
| 700 | Toll Gate @ 6th | 58 | 12:43 | 62 | 94% |
| 840 | Fire Station 12 | 58 | 12:44 | 62 | 94% |
| 940 | Aurora Regional Pond | 58 | 12:26 | 62 | 94% |
| 2860 | CC at Stroh Rd | 58 | 11:57 | 62 | 94% |
| 4190 | Slaughterhouse | 58 | 12:26 | 62 | 94% |
| 4200 | Lazy Acres | 58 | 12:42 | 62 | 94% |
| 4300 | Big Elk Park | 58 | 12:36 | 62 | 94% |
| 4340 | Riverside | 58 | 12:12 | 62 | 94% |
| 4350 | Conifer Hill | 58 | 12:29 | 62 | 94% |
| 4820 | Doudy Draw | 58 | 12:25 | 62 | 94% |
| 2800 | Columbine Open Space | 701 | | 744 | 94% |
| 410 | Kelly Dam | 59 | 12:26 | 62 | 95% |
| 530 | Fire Station #19 | 59 | 12:25 | 62 | 95% |
| 600 | Harvard Gulch Park | 59 | 11:57 | 62 | 95% |
| 620 | Quincy/Highline | 59 | 12:24 | 62 | 95% |
| 1040 | Lena @ U.S. Hwy 6 | 59 | 11:58 | 62 | 95% |
| 1100 | Louisville Rec Ctr | 59 | 12:13 | 62 | 95% |
| 1200 | Broomfield 3207 | 59 | 12:11 | 62 | 95% |
| 1400 | Upper Sloan Det. | 59 | 12:11 | 62 | 95% |
| 1500 | Powers Park | 59 | 12:10 | 62 | 95% |
| 1640 | SPR at Union Ave. | 59 | 12:25 | 62 | 95% |
| 1800 | Sand Creek Park | 59 | 12:12 | 62 | 95% |
| 2260 | Brook Forest | 59 | 11:57 | 62 | 95% |
| 2310 | Genesee Village | 59 | 12:12 | 62 | 95% |
| 4010 | Crescent | 59 | 12:25 | 62 | 95% |
| 4080 | Twin Sisters | 59 | 12:11 | 62 | 95% |
| 4250 | Geer Canyon | 59 | 12:27 | 62 | 95% |
| 4570 | St. Antons | 59 | 12:30 | 62 | 95% |
| 4830 | SBC @ San Souci | 59 | 12:24 | 62 | 95% |
| 4860 | Fairview Peak | 59 | 12:00 | 62 | 95% |
| 3020 | Wx-West Creek WX | 710 | | 744 | 95% |
| 3060 | Fire Sta 47 | 713 | | 744 | 96% |
| 110 | Ralston Reservoir | 60 | 12:12 | 62 | 97% |
| 150 | Nott Creek | 60 | 11:57 | 62 | 97% |
| 320 | Sports Complex | 60 | 11:57 | 62 | 97% |
| 510 | Virginia Court | 60 | 12:16 | 62 | 97% |
| 800 | Sable Ditch @ 18th | 60 | 11:58 | 62 | 97% |
| 810 | Granby Ditch @ 6th | 60 | 12:11 | 62 | 97% |
| 820 | ETG @ Buckley | 60 | 11:57 | 62 | 97% |
| 1010 | Denver West | 60 | 11:57 | 62 | 97% |
| 1030 | NREL/S. Table Mtn. | 60 | 11:57 | 62 | 97% |
| 1050 | Jeffco Fairgrounds | 60 | 11:57 | 62 | 97% |
| 1300 | Hidden Lake | 60 | 12:13 | 62 | 97% |

| | | | | | |
|------|--------------------------|----|-------|----|-----|
| 1350 | Chatfield COE | 60 | 11:59 | 62 | 97% |
| 1370 | West Metro FS13 | 60 | 12:11 | 62 | 97% |
| 1440 | Wx-Elbert | 60 | 12:16 | 62 | 97% |
| 1460 | Wx-Urban Farm | 60 | 12:00 | 62 | 97% |
| 1520 | Wx-Marston Lake North | 60 | 12:13 | 62 | 97% |
| 1550 | Lakewood CC | 60 | 12:10 | 62 | 97% |
| 1570 | Wx-Brighton Ditch | 60 | 12:00 | 62 | 97% |
| 1600 | Englewood Dam | 60 | 12:11 | 62 | 97% |
| 1700 | Cherry Cr @ Champa | 60 | 11:59 | 62 | 97% |
| 2240 | Cold Sprg Glch conf | 60 | 12:12 | 62 | 97% |
| 2250 | Rosedale | 60 | 11:57 | 62 | 97% |
| 2340 | El Rancho | 60 | 12:13 | 62 | 97% |
| 4050 | Walker Ranch | 60 | 12:10 | 62 | 97% |
| 4070 | Bear Peak | 60 | 11:57 | 62 | 97% |
| 4160 | Sunshine | 60 | 11:58 | 62 | 97% |
| 4180 | Gold Lake | 60 | 11:57 | 62 | 97% |
| 4260 | Taylor Mountain | 60 | 11:57 | 62 | 97% |
| 4310 | Johnny Park | 60 | 11:57 | 62 | 97% |
| 4320 | Lee Hill Rain 2012 | 60 | 12:13 | 62 | 97% |
| 4360 | Justice Center | 60 | 11:57 | 62 | 97% |
| 4520 | Eagle Ridge | 60 | 12:00 | 62 | 97% |
| 4550 | Boulder Jail | 60 | 11:57 | 62 | 97% |
| 4770 | Wx-Cal-Wood Ranch | 60 | 12:00 | 62 | 97% |
| 4810 | Shanahan Ridge | 60 | 12:10 | 62 | 97% |
| 6601 | Wx-A2-Magnolia WX-Precip | 91 | 8:00 | 93 | 98% |
| 120 | West Woods | 61 | 11:58 | 62 | 98% |
| 140 | Wx-Blue Mountain | 61 | 12:00 | 62 | 98% |
| 200 | Leyden Reservoir | 61 | 11:57 | 62 | 98% |
| 220 | Upper Leyden | 61 | 12:00 | 62 | 98% |
| 300 | Van Bibber Park | 61 | 11:58 | 62 | 98% |
| 400 | Montview Park | 61 | 12:00 | 62 | 98% |
| 500 | Havana Park | 61 | 11:57 | 62 | 98% |
| 520 | Jewell Detention | 61 | 11:57 | 62 | 98% |
| 610 | Harvard @ Jackson | 61 | 12:10 | 62 | 98% |
| 640 | Goldsmith @ Eastman | 61 | 11:58 | 62 | 98% |
| 710 | Horseshoe Park Drop | 61 | 11:58 | 62 | 98% |
| 730 | No Name @ Quincy | 61 | 11:58 | 62 | 98% |
| 750 | Wx-Quincy Reservoir | 61 | 11:57 | 62 | 98% |
| 760 | Mission Viejo Park | 61 | 11:57 | 62 | 98% |
| 830 | Side Creek Park | 61 | 12:00 | 62 | 98% |
| 850 | Flying J | 61 | 12:00 | 62 | 98% |
| 900 | Wx-Aurora Reservoir | 61 | 12:00 | 62 | 98% |
| 950 | Piney at Liverpool | 61 | 11:57 | 62 | 98% |
| 970 | Pump Sta 3 | 61 | 12:00 | 62 | 98% |
| 1060 | Heritage Square | 61 | 11:57 | 62 | 98% |
| 1110 | Gunbarrel | 61 | 11:58 | 62 | 98% |
| 1320 | SPR at 3rd Ave | 61 | 11:58 | 62 | 98% |
| 1420 | Wx-A2-Diamond Hill | 61 | 12:00 | 62 | 98% |
| 1480 | Third Creek at DIA | 61 | 11:59 | 62 | 98% |
| 1530 | Bear Creek @ Lowell | 61 | 11:57 | 62 | 98% |
| 1900 | Niver Detention | 61 | 11:57 | 62 | 98% |
| 2210 | Wx-Hiwan G.C. | 61 | 12:00 | 62 | 98% |
| 4020 | Rio Grande | 61 | 11:58 | 62 | 98% |
| 4090 | Magnolia | 61 | 11:57 | 62 | 98% |
| 4110 | Betasso | 61 | 11:59 | 62 | 98% |
| 4130 | Swiss Peaks | 61 | 11:57 | 62 | 98% |
| 4140 | Logan Mill | 61 | 11:57 | 62 | 98% |
| 4150 | Gold Hill | 61 | 11:58 | 62 | 98% |
| 4170 | Pine Brook | 61 | 11:57 | 62 | 98% |

| | | | | | |
|--------|---------------------------------------|------|-------|-----|------|
| 4220 | Fling's | 61 | 11:58 | 62 | 98% |
| 4230 | Golden Age | 61 | 11:58 | 62 | 98% |
| 4530 | Winiger Ridge | 61 | 11:57 | 62 | 98% |
| 4710 | Wx-Ward C-1 | 61 | 12:00 | 62 | 98% |
| 4730 | Wx-Sugarloaf | 61 | 12:00 | 62 | 98% |
| 4750 | Wx-Louisville Lake | 61 | 12:00 | 62 | 98% |
| 4880 | Whispering Pines | 61 | 11:57 | 62 | 98% |
| 100110 | A2-ETG @ Hampden Precip | 61 | 12:00 | 62 | 98% |
| 100200 | Wx-A2-OneRain Weather - Precipitation | 61 | 12:00 | 62 | 98% |
| 100420 | A2-Thorncreek - Precip | 740 | | 744 | 99% |
| 4850 | Porphory Mtn | 741 | | 744 | 100% |
| 100240 | A2-Westerly Cr Dam Precip | 742 | | 744 | 100% |
| 100320 | A2-Weir Gulch - Precip | 742 | | 744 | 100% |
| 100410 | A2-Brantner Gulch - Precip | 742 | | 744 | 100% |
| 100 | A2-Carr Street | 743 | | 744 | 100% |
| 870 | A2-Murphy Creek GC | 743 | | 744 | 100% |
| 1000 | A2-Maple Grove Resv. | 743 | | 744 | 100% |
| 1310 | LDC at 64th | 743 | | 744 | 100% |
| 1340 | Sanderson at Xavier | 743 | | 744 | 100% |
| 3070 | A2-Newlin Gulch Precip | 743 | | 744 | 100% |
| 100100 | A2-Blackstone Precip | 743 | | 744 | 100% |
| 100160 | A2-Sand Creek at Colfax Precip | 743 | | 744 | 100% |
| 100230 | A2-Havana Pond Precip | 743 | | 744 | 100% |
| 100300 | A2-CoalCreek at McCaslin - Precip | 743 | | 744 | 100% |
| 4240 | Sunset | 62 | 11:43 | 62 | 100% |
| 4840 | SBC@S Boulder Ditch | 62 | 11:44 | 62 | 100% |
| 720 | Confluence Pond | 62 | 11:45 | 62 | 100% |
| 1920 | Wx-Brighton | 62 | 11:37 | 62 | 100% |
| 920 | Wx-Aurora Town Hall | 62 | 9:55 | 62 | 100% |
| 2970 | Rampart Range Rd-Satellite | 249 | | | 100% |
| 5900 | Horse Creek-Satellite | 1580 | | | 100% |

| Rain Event Performance | Reports Received | Reports Received | 7,537 | Analyze Rain Sensors | | | | | | <<show stations with zero rain (1=yes, 0=no) | | | | | | | | |
|-------------------------------------|------------------|------------------|--------|----------------------|--------|--------|--------|--------|---------|--|-----|------|------|-----------|-----------------|--|--------|--|
| | Systemwide Avg | Total Tips | 7,996 | | | | | | | | | | | | | | | |
| | 95.14% | Data Loss | 5.74% | | | | | | | | | | | | | | | |
| Description | Sensor | Performance | 1-tips | 2-tips | 3-tips | 4-tips | 5-tips | 6-tips | >6-tips | Rcv | Exp | Miss | Hold | Bucket | | | | |
| Morrison | 2330 | 69% | 13 | 2 | 3 | 0 | 0 | 0 | 0 | 18 | 26 | 8 | 0 | 0.0393701 | | | | |
| Choke Cherry Resvr | 2320 | 70% | 30 | 4 | 1 | 0 | 0 | 2 | 0 | 37 | 53 | 16 | 0 | 0.0393701 | Mean | | 40.80 | |
| Cannon Mountain | 4270 | 73% | 34 | 6 | 1 | 1 | 0 | 1 | 0 | 43 | 59 | 16 | 0 | 0.0393701 | Median | | 33 | |
| Rampart Range Rd-Satellite | 2970 | 74% | 42 | 7 | 2 | 0 | 2 | 0 | 1 | 53 | 72 | 19 | 0 | 0.0393701 | St. Dev | | 28.41 | |
| Happy Canyon at N Surrey Dr | 2880 | 74% | 71 | 10 | 1 | 3 | 1 | 1 | 5 | 87 | 117 | 30 | 2 | 0.0393701 | Mean plus 3 SD | | 126.04 | |
| Indian Hills | 2360 | 78% | 31 | 5 | 1 | 0 | 1 | 0 | 0 | 38 | 49 | 11 | 1 | 0.0393701 | Mean minus 2 SD | | -16.03 | |
| WX-EPC at Hwy 105 | 3010 | 79% | 40 | 5 | 2 | 0 | 1 | 0 | 2 | 48 | 61 | 13 | 0 | 0.0393701 | Min | | 1 | |
| A2-Thorncreek - Precip | 100420 | 82% | 11 | 3 | 0 | 0 | 0 | 0 | 0 | 14 | 17 | 3 | 0 | 0.0393701 | Max | | 128 | |
| A2-Sellers Gulch at Haystack Precip | 100150 | 82% | 71 | 4 | 3 | 1 | 1 | 0 | 0 | 80 | 97 | 17 | 0 | 0.0393701 | | | | |
| Hansen Rain | 4330 | 83% | 28 | 3 | 2 | 0 | 0 | 0 | 0 | 33 | 40 | 7 | 0 | 0.0393701 | | | | |
| Genesee Village | 2310 | 83% | 40 | 8 | 1 | 0 | 0 | 0 | 0 | 49 | 59 | 10 | 0 | 0.0393701 | | | | |
| Harvard @ Jackson | 610 | 83% | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 15 | 18 | 3 | 1 | 0.0393701 | | | | |
| Wx-A2-Trumbull (Hayman) - Precip | 100260 | 83% | 51 | 7 | 1 | 1 | 0 | 0 | 0 | 60 | 72 | 12 | 0 | 0.0393701 | | | | |
| Stump Bump | 5810 | 84% | 92 | 6 | 3 | 1 | 0 | 1 | 0 | 103 | 123 | 20 | 0 | 0.0393701 | | | | |
| Log Jumper | 5940 | 84% | 48 | 11 | 0 | 0 | 0 | 0 | 1 | 59 | 70 | 11 | 0 | 0.0393701 | | | | |
| Pinewood Springs | 4510 | 85% | 32 | 7 | 0 | 0 | 0 | 0 | 0 | 39 | 46 | 7 | 0 | 0.0393701 | | | | |
| Sports Complex | 320 | 85% | 20 | 2 | 1 | 0 | 0 | 0 | 0 | 23 | 27 | 4 | 0 | 0.0393701 | | | | |
| Wx-Brighton | 1920 | 86% | 5 | 1 | 0 | 0 | 0 | 0 | 1 | 6 | 7 | 1 | 1 | 0.0393701 | | | | |
| Van Bibber @ Hwy 93 | 330 | 86% | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 12 | 14 | 2 | 0 | 0.0393701 | | | | |
| Quincy/Highline | 620 | 86% | 35 | 7 | 0 | 0 | 0 | 0 | 0 | 42 | 49 | 7 | 0 | 0.0393701 | | | | |
| Little Narrows | 4470 | 86% | 16 | 1 | 1 | 0 | 0 | 0 | 0 | 18 | 21 | 3 | 0 | 0.0393701 | | | | |
| Russelville Gulch-Douglas | 2900 | 86% | 90 | 13 | 2 | 0 | 0 | 0 | 0 | 105 | 122 | 17 | 2 | 0.0393701 | | | | |
| Goldsmith @ Eastman | 640 | 88% | 18 | 3 | 0 | 0 | 0 | 0 | 0 | 21 | 24 | 3 | 0 | 0.0393701 | | | | |
| ETG @ Buckley | 820 | 88% | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | 1 | 0 | 0.0393701 | | | | |
| Third Creek at DIA | 1480 | 88% | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 7 | 8 | 1 | 0 | 0.0393701 | | | | |
| SPR at Henderson | 1660 | 88% | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 14 | 16 | 2 | 0 | 0.0393701 | | | | |
| Kinney Peak | 2280 | 88% | 45 | 2 | 1 | 1 | 0 | 0 | 0 | 49 | 56 | 7 | 0 | 0.0393701 | | | | |
| Dakan Rd | 2980 | 88% | 40 | 2 | 0 | 0 | 1 | 0 | 0 | 43 | 49 | 6 | 0 | 0.0393701 | | | | |
| SBC @ SB Road | 4870 | 88% | 19 | 3 | 0 | 0 | 0 | 0 | 0 | 22 | 25 | 3 | 0 | 0.0393701 | | | | |
| Expo Park | 420 | 88% | 22 | 0 | 0 | 1 | 0 | 0 | 0 | 23 | 26 | 3 | 0 | 0.0393701 | | | | |
| Granby Ditch @ 6th | 810 | 89% | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 8 | 9 | 1 | 0 | 0.0393701 | | | | |
| Cold Sprg Glch conf | 2240 | 89% | 38 | 3 | 1 | 0 | 0 | 0 | 0 | 42 | 47 | 5 | 0 | 0.0393701 | | | | |
| East/West Trailhead | 3050 | 89% | 31 | 2 | 1 | 0 | 0 | 0 | 0 | 34 | 38 | 4 | 0 | 0.0393701 | | | | |
| A2-Brantner Gulch - Precip | 100410 | 90% | 24 | 1 | 1 | 0 | 0 | 0 | 0 | 26 | 29 | 3 | 0 | 0.0393701 | | | | |
| Wx-Marston Lake North | 1520 | 90% | 40 | 5 | 0 | 0 | 0 | 0 | 0 | 45 | 50 | 5 | 2 | 0.0393701 | | | | |
| Cub Cr below Blue | 2270 | 90% | 49 | 6 | 0 | 0 | 0 | 0 | 1 | 55 | 61 | 6 | 0 | 0.0393701 | | | | |
| Wx-Tomah Rd-DougCnty | 2990 | 90% | 46 | 0 | 0 | 0 | 0 | 1 | 0 | 47 | 52 | 5 | 0 | 0.0393701 | | | | |
| Bear Peak | 4070 | 90% | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 19 | 21 | 2 | 0 | 0.0393701 | | | | |
| Apple Valley | 4490 | 90% | 17 | 2 | 0 | 0 | 0 | 0 | 0 | 19 | 21 | 2 | 0 | 0.0393701 | | | | |
| Bear Creek @ Lowell | 1530 | 91% | 28 | 3 | 0 | 0 | 0 | 0 | 0 | 31 | 34 | 3 | 0 | 0.0393701 | | | | |
| Indian Creek | 2960 | 91% | 40 | 2 | 1 | 0 | 0 | 0 | 1 | 43 | 47 | 4 | 0 | 0.0393701 | | | | |
| Walker Ranch | 4050 | 92% | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 11 | 12 | 1 | 0 | 0.0393701 | | | | |
| Slaughterhouse | 4190 | 92% | 30 | 3 | 0 | 0 | 0 | 0 | 0 | 33 | 36 | 3 | 0 | 0.0393701 | | | | |
| Cedar Mountain | 5860 | 92% | 86 | 4 | 0 | 0 | 1 | 0 | 0 | 91 | 99 | 8 | 0 | 0.0393701 | | | | |
| Denver West | 1010 | 92% | 11 | 1 | 0 | 0 | 0 | 0 | 0 | 12 | 13 | 1 | 0 | 0.0393701 | | | | |
| DC Public Works | 2950 | 92% | 80 | 4 | 0 | 1 | 0 | 0 | 0 | 85 | 92 | 7 | 0 | 0.0393701 | | | | |
| Horseshoe Park Drop | 710 | 93% | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 13 | 14 | 1 | 0 | 0.0393701 | | | | |
| Heritage Square | 1060 | 93% | 12 | 1 | 0 | 0 | 0 | 0 | 0 | 13 | 14 | 1 | 0 | 0.0393701 | | | | |
| Bear Cr below Cub | 2230 | 93% | 48 | 4 | 0 | 0 | 0 | 0 | 0 | 52 | 56 | 4 | 1 | 0.0393701 | | | | |
| Gold Lake | 4180 | 93% | 36 | 3 | 0 | 0 | 0 | 0 | 0 | 39 | 42 | 3 | 0 | 0.0393701 | | | | |
| Wx-Cal-Wood Ranch | 4770 | 93% | 37 | 3 | 0 | 0 | 0 | 0 | 0 | 40 | 43 | 3 | 0 | 0.0393701 | | | | |
| No Name @ Quincy | 730 | 93% | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 27 | 29 | 2 | 1 | 0.0393701 | | | | |
| Mission Viejo Park | 760 | 93% | 25 | 2 | 0 | 0 | 0 | 0 | 0 | 27 | 29 | 2 | 0 | 0.0393701 | | | | |
| Upper Sloan Det. | 1400 | 93% | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 15 | 1 | 0 | 0.0393701 | | | | |
| Wx-Button Rock | 4790 | 93% | 26 | 2 | 0 | 0 | 0 | 0 | 0 | 28 | 30 | 2 | 0 | 0.0393701 | | | | |
| Doudy Draw | 4820 | 93% | 13 | 1 | 0 | 0 | 0 | 0 | 0 | 14 | 15 | 1 | 0 | 0.0393701 | | | | |
| Idledale | 2350 | 93% | 40 | 3 | 0 | 0 | 0 | 0 | 0 | 43 | 46 | 3 | 0 | 0.0393701 | | | | |

| | | | | | | | | | | | | | | |
|-----------------------------------|--------|------|-----|---|---|---|---|---|---|-----|-----|---|---|-----------|
| Aurora Regional Pond | 940 | 94% | 27 | 2 | 0 | 0 | 0 | 0 | 0 | 29 | 31 | 2 | 0 | 0.0393701 |
| Slaughterhouse Glch | 1620 | 94% | 41 | 3 | 0 | 0 | 0 | 0 | 0 | 44 | 47 | 3 | 0 | 0.0393701 |
| Cottonwood (Apache) | 2870 | 94% | 41 | 3 | 0 | 0 | 0 | 0 | 0 | 44 | 47 | 3 | 0 | 0.0393701 |
| Nott Creek | 150 | 94% | 59 | 0 | 0 | 0 | 1 | 0 | 0 | 60 | 64 | 4 | 0 | 0.0393701 |
| Red Garden | 4030 | 94% | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 15 | 16 | 1 | 0 | 0.0393701 |
| Hackett Mountain | 5880 | 94% | 90 | 2 | 0 | 0 | 1 | 0 | 0 | 93 | 99 | 6 | 0 | 0.0393701 |
| Wx-Highlands Ranch WTP | 2710 | 94% | 63 | 0 | 2 | 0 | 0 | 0 | 0 | 65 | 69 | 4 | 0 | 0.0393701 |
| Four Mile Creek | 5720 | 94% | 93 | 4 | 1 | 0 | 0 | 0 | 0 | 98 | 104 | 6 | 0 | 0.0393701 |
| Jeffco Fairgrounds | 1050 | 94% | 16 | 1 | 0 | 0 | 0 | 0 | 0 | 17 | 18 | 1 | 0 | 0.0393701 |
| SPR at Union Ave. | 1640 | 95% | 49 | 3 | 0 | 0 | 0 | 0 | 0 | 52 | 55 | 3 | 0 | 0.0393701 |
| Willow Creek - DougCnty | 2940 | 95% | 99 | 6 | 0 | 0 | 0 | 0 | 0 | 105 | 111 | 6 | 0 | 0.0393701 |
| Chatfield COE | 1350 | 95% | 34 | 2 | 0 | 0 | 0 | 0 | 0 | 36 | 38 | 2 | 0 | 0.0393701 |
| Shop Creek | 1710 | 95% | 69 | 2 | 1 | 0 | 0 | 0 | 0 | 72 | 76 | 4 | 0 | 0.0393701 |
| CC @ Russelville Road Precip | 3040 | 95% | 71 | 1 | 0 | 1 | 0 | 0 | 0 | 73 | 77 | 4 | 0 | 0.0393701 |
| Wx-Elbert | 1440 | 95% | 53 | 1 | 1 | 0 | 0 | 0 | 0 | 55 | 58 | 3 | 0 | 0.0393701 |
| Wx-Hiwan G.C. | 2210 | 95% | 35 | 2 | 0 | 0 | 0 | 0 | 0 | 37 | 39 | 2 | 0 | 0.0393701 |
| Big Elk Park | 4300 | 95% | 38 | 2 | 0 | 0 | 0 | 0 | 0 | 40 | 42 | 2 | 0 | 0.0393701 |
| Justice Center | 4360 | 95% | 19 | 1 | 0 | 0 | 0 | 0 | 0 | 20 | 21 | 1 | 0 | 0.0393701 |
| Kelly Dam | 410 | 95% | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 21 | 22 | 1 | 0 | 0.0393701 |
| LDC at 64th | 1310 | 95% | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 21 | 22 | 1 | 0 | 0.0393701 |
| Eagle Ridge | 4520 | 95% | 20 | 1 | 0 | 0 | 0 | 0 | 0 | 21 | 22 | 1 | 0 | 0.0393701 |
| Upper Leyden | 220 | 96% | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 22 | 23 | 1 | 0 | 0.0393701 |
| Crescent | 4010 | 96% | 21 | 1 | 0 | 0 | 0 | 0 | 0 | 22 | 23 | 1 | 0 | 0.0393701 |
| Englewood Dam | 1600 | 96% | 46 | 2 | 0 | 0 | 0 | 0 | 0 | 48 | 50 | 2 | 0 | 0.0393701 |
| Magnolia | 4090 | 96% | 23 | 1 | 0 | 0 | 0 | 0 | 0 | 24 | 25 | 1 | 0 | 0.0393701 |
| Spruce Mt - Douglas | 2890 | 96% | 72 | 3 | 0 | 0 | 0 | 0 | 0 | 75 | 78 | 3 | 0 | 0.0393701 |
| Cherry Cr bl Bayou Glch | 2850 | 96% | 73 | 3 | 0 | 0 | 0 | 0 | 1 | 76 | 79 | 3 | 0 | 0.0393701 |
| WX-Bingham Lake Park | 3030 | 96% | 75 | 3 | 0 | 0 | 0 | 0 | 0 | 78 | 81 | 3 | 0 | 0.0393701 |
| Guy Hill Ranch | 310 | 96% | 51 | 2 | 0 | 0 | 0 | 0 | 0 | 53 | 55 | 2 | 0 | 0.0393701 |
| Horse Creek-Satellite | 5900 | 96% | 78 | 3 | 0 | 0 | 0 | 0 | 0 | 81 | 84 | 3 | 0 | 0.0393701 |
| Wx-Aurora Reservoir | 900 | 96% | 26 | 1 | 0 | 0 | 0 | 0 | 0 | 27 | 28 | 1 | 0 | 0.0393701 |
| Virginia Court | 510 | 97% | 27 | 1 | 0 | 0 | 0 | 0 | 0 | 28 | 29 | 1 | 0 | 0.0393701 |
| Wx-Castle Rock | 2750 | 97% | 111 | 4 | 0 | 0 | 0 | 0 | 1 | 115 | 119 | 4 | 0 | 0.0393701 |
| Ralston Reservoir | 110 | 97% | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 32 | 33 | 1 | 0 | 0.0393701 |
| Lee Hill Rain 2012 | 4320 | 97% | 31 | 1 | 0 | 0 | 0 | 0 | 0 | 32 | 33 | 1 | 0 | 0.0393701 |
| El Rancho | 2340 | 97% | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 33 | 34 | 1 | 0 | 0.0393701 |
| Whispering Pines | 4880 | 97% | 32 | 1 | 0 | 0 | 0 | 0 | 0 | 33 | 34 | 1 | 0 | 0.0393701 |
| Red Hill | 4290 | 97% | 33 | 1 | 0 | 0 | 0 | 0 | 1 | 34 | 35 | 1 | 0 | 0.0393701 |
| Red Rocks Park | 2370 | 97% | 35 | 1 | 0 | 0 | 0 | 0 | 0 | 36 | 37 | 1 | 0 | 0.0393701 |
| St. Antons | 4570 | 97% | 35 | 1 | 0 | 0 | 0 | 0 | 0 | 36 | 37 | 1 | 0 | 0.0393701 |
| Columbine Open Space | 2800 | 97% | 75 | 0 | 1 | 0 | 0 | 0 | 0 | 76 | 78 | 2 | 0 | 0.0393701 |
| Wx-Spring Valley Rd-DougCnty | 2930 | 98% | 77 | 2 | 0 | 0 | 0 | 0 | 0 | 79 | 81 | 2 | 0 | 0.0393701 |
| Riverside | 4340 | 98% | 40 | 1 | 0 | 0 | 0 | 0 | 0 | 41 | 42 | 1 | 0 | 0.0393701 |
| Wx-A2-WestCreek (Hayman) - Precip | 100270 | 98% | 122 | 3 | 0 | 0 | 0 | 0 | 1 | 125 | 128 | 3 | 0 | 0.0393701 |
| Harvard Gulch Park | 600 | 98% | 52 | 1 | 0 | 0 | 0 | 0 | 0 | 53 | 54 | 1 | 0 | 0.0393701 |
| Sunset | 4240 | 98% | 54 | 1 | 0 | 0 | 0 | 0 | 0 | 55 | 56 | 1 | 0 | 0.0393701 |
| Wx-Ward C-1 | 4710 | 98% | 56 | 1 | 0 | 0 | 0 | 0 | 0 | 57 | 58 | 1 | 0 | 0.0393701 |
| Fire Sta 47 | 3060 | 98% | 57 | 1 | 0 | 0 | 0 | 0 | 1 | 58 | 59 | 1 | 0 | 0.0393701 |
| Wx-Salisbury Park | 2730 | 98% | 58 | 1 | 0 | 0 | 0 | 0 | 1 | 59 | 60 | 1 | 0 | 0.0393701 |
| Pine Cliff Road | 2810 | 98% | 63 | 1 | 0 | 0 | 0 | 0 | 1 | 64 | 65 | 1 | 0 | 0.0393701 |
| Rosedale | 2250 | 99% | 65 | 1 | 0 | 0 | 0 | 0 | 0 | 66 | 67 | 1 | 1 | 0.0393701 |
| A2-Upper Sellers Gulch Precip | 100140 | 99% | 66 | 1 | 0 | 0 | 0 | 0 | 0 | 67 | 68 | 1 | 0 | 0.0393701 |
| West Creek | 5730 | 99% | 78 | 1 | 0 | 0 | 0 | 0 | 1 | 79 | 80 | 1 | 0 | 0.0393701 |
| Fling's | 4220 | 99% | 80 | 1 | 0 | 0 | 0 | 0 | 0 | 81 | 82 | 1 | 0 | 0.0393701 |
| East Cherry Cr-Douglas | 2910 | 99% | 91 | 1 | 0 | 0 | 0 | 0 | 0 | 92 | 93 | 1 | 0 | 0.0393701 |
| Trail Creek | 5740 | 99% | 94 | 1 | 0 | 0 | 0 | 0 | 0 | 95 | 96 | 1 | 0 | 0.0393701 |
| Brook Forest | 2260 | 99% | 96 | 1 | 0 | 0 | 0 | 0 | 0 | 97 | 98 | 1 | 0 | 0.0393701 |
| Haskins Gulch Conf | 2820 | 100% | 66 | 0 | 0 | 0 | 0 | 0 | 1 | 66 | 66 | 0 | 0 | 0.0393701 |
| Sulphur Gulch | 2840 | 100% | 41 | 0 | 0 | 0 | 0 | 0 | 1 | 41 | 41 | 0 | 0 | 0.0393701 |
| CC at Stroh Rd | 2860 | 100% | 81 | 0 | 0 | 0 | 0 | 0 | 1 | 81 | 81 | 0 | 0 | 0.0393701 |
| Wx-West Creek WX | 3020 | 100% | 104 | 0 | 0 | 0 | 0 | 0 | 1 | 104 | 104 | 0 | 0 | 0.0393701 |
| Tallman Gulch | 3080 | 100% | 44 | 0 | 0 | 0 | 0 | 0 | 1 | 44 | 44 | 0 | 0 | 0.0393701 |

| | | | | | | | | | | | | | | | | |
|-------------------------------|--------|------|-----|---|---|---|---|---|---|---|-----|-----|---|---|-----------|--|
| A2-PlumCr at Sedalia - Precip | 100290 | 100% | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 31 | 31 | 0 | 0 | 0.0393701 | |
| A2-Carr Street | 100 | 100% | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 0 | 0 | 0.0393701 | |
| West Woods | 120 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| Wx-Blue Mountain | 140 | 100% | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 37 | 0 | 0 | 0.0393701 | |
| Leyden Reservoir | 200 | 100% | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 18 | 0 | 0 | 0.0393701 | |
| Leyden Confluence | 210 | 100% | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 18 | 0 | 0 | 0.0393701 | |
| Van Bibber Park | 300 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| Montview Park | 400 | 100% | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0.0393701 | |
| Utah Park | 430 | 100% | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 | 128 | 0 | 0 | 0.0393701 | |
| Fire Station #7 | 440 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| Havana Park | 500 | 100% | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 0 | 0 | 0.0393701 | |
| Jewell Detention | 520 | 100% | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 19 | 0 | 0 | 0.0393701 | |
| Fire Station #19 | 530 | 100% | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0.0393701 | |
| Parker/Mississippi | 540 | 100% | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 7 | 0 | 0 | 0.0393701 | |
| liff Pond | 650 | 100% | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0.0393701 | |
| Toll Gate @ 6th | 700 | 100% | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0.0393701 | |
| Confluence Pond | 720 | 100% | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 22 | 0 | 0 | 0.0393701 | |
| Sable Ditch @ 18th | 800 | 100% | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 26 | 0 | 0 | 0.0393701 | |
| Side Creek Park | 830 | 100% | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 31 | 0 | 0 | 0.0393701 | |
| Fire Station 12 | 840 | 100% | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 21 | 0 | 0 | 0.0393701 | |
| Flying J | 850 | 100% | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 37 | 0 | 0 | 0.0393701 | |
| A2-Murphy Creek GC | 870 | 100% | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 38 | 0 | 0 | 0.0393701 | |
| Wx-Aurora Town Hall | 920 | 100% | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 24 | 0 | 0 | 0.0393701 | |
| Piney at Liverpool | 950 | 100% | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 | 65 | 0 | 0 | 0.0393701 | |
| Pump Sta 3 | 970 | 100% | 47 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 47 | 47 | 0 | 0 | 0.0393701 | |
| A2-Maple Grove Resv. | 1000 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| NREL/S. Table Mtn. | 1030 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| Lena @ U.S. Hwy 6 | 1040 | 100% | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 19 | 0 | 0 | 0.0393701 | |
| Louisville Rec Ctr | 1100 | 100% | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0.0393701 | |
| Gunbarrel | 1110 | 100% | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 19 | 0 | 0 | 0.0393701 | |
| Broomfield 3207 | 1200 | 100% | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0.0393701 | |
| Hidden Lake | 1300 | 100% | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 29 | 0 | 0 | 0.0393701 | |
| SPR at 3rd Ave | 1320 | 100% | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0.0393701 | |
| Denver Zoo | 1360 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| West Metro FS13 | 1370 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| Wx-A2-Diamond Hill | 1420 | 100% | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 0 | 0 | 0.0393701 | |
| Wx-Urban Farm | 1460 | 100% | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 18 | 0 | 0 | 0.0393701 | |
| Lakewood CC | 1550 | 100% | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0.0393701 | |
| Wx-Brighton Ditch | 1570 | 100% | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 16 | 0 | 0 | 0.0393701 | |
| Cherry Cr @ Champa | 1700 | 100% | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 | 0 | 0 | 0.0393701 | |
| Cherry Cr @ Steele | 1720 | 100% | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0.0393701 | |
| Sand Creek Park | 1800 | 100% | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0.0393701 | |
| Niver Detention | 1900 | 100% | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 0.0393701 | |
| West Cherry Head-Douglas Cnty | 2920 | 100% | 87 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 | 87 | 0 | 0 | 0.0393701 | |
| A2-Newlin Gulch Precip | 3070 | 100% | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 37 | 0 | 0 | 0.0393701 | |
| A2-Highland Heritage Park | 3090 | 100% | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 0 | 0 | 0.0393701 | |
| Rio Grande | 4020 | 100% | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 23 | 0 | 0 | 0.0393701 | |
| Martin Gulch | 4040 | 100% | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 0 | 0 | 0.0393701 | |
| Lakeshore | 4060 | 100% | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 0 | 0 | 0.0393701 | |
| Twin Sisters | 4080 | 100% | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 36 | 36 | 0 | 0 | 0.0393701 | |
| Filter Plant | 4100 | 100% | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0.0393701 | |
| Betasso | 4110 | 100% | 29 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 29 | 0 | 0 | 0.0393701 | |
| Swiss Peaks | 4130 | 100% | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 0 | 0 | 0.0393701 | |
| Logan Mill | 4140 | 100% | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 25 | 0 | 0 | 0.0393701 | |
| Gold Hill | 4150 | 100% | 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 48 | 0 | 0 | 0.0393701 | |
| Sunshine | 4160 | 100% | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 38 | 0 | 0 | 0.0393701 | |
| Pine Brook | 4170 | 100% | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 21 | 0 | 0 | 0.0393701 | |
| Lazy Acres | 4200 | 100% | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 25 | 0 | 0 | 0.0393701 | |
| Golden Age | 4230 | 100% | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 0 | 0 | 0.0393701 | |
| Geer Canyon | 4250 | 100% | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 | 24 | 0 | 0 | 0.0393701 | |
| Taylor Mountain | 4260 | 100% | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 61 | 61 | 0 | 0 | 0.0393701 | |
| Johnny Park | 4310 | 100% | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 | 38 | 0 | 0 | 0.0393701 | |

| | | | | | | | | | | | | | | | |
|---------------------------------------|--------|------------|------|-----|----|----|----|---|---|-----|-----|----|----|-----------|--|
| Conifer Hill | 4350 | 100% | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 40 | 0 | 0 | 0.0393701 | |
| Winiger Ridge | 4530 | 100% | 33 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 33 | 0 | 0 | 0.0393701 | |
| Boulder Jail | 4550 | 100% | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 0 | 0 | 0.0393701 | |
| Wx-Sugarloaf | 4730 | 100% | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 25 | 0 | 0 | 0.0393701 | |
| Wx-Louisville Lake | 4750 | 100% | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0.0393701 | |
| Shanahan Ridge | 4810 | 100% | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 0 | 0 | 0.0393701 | |
| SBC @ San Souci | 4830 | 100% | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 18 | 0 | 0 | 0.0393701 | |
| SBC@S Boulder Ditch | 4840 | 100% | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 35 | 0 | 0 | 0.0393701 | |
| A2-Blackstone Precip | 100100 | 100% | 45 | 0 | 0 | 0 | 0 | 0 | 0 | 45 | 45 | 0 | 0 | 0.0393701 | |
| A2-ETG @ Hampden Precip | 100110 | 100% | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 31 | 0 | 0 | 0.0393701 | |
| A2-Sand Creek at Colfax Precip | 100160 | 100% | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0.0393701 | |
| A2-Havana Pond Precip | 100230 | 100% | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0.0393701 | |
| A2-Westerly Cr Dam Precip | 100240 | 100% | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 12 | 0 | 0 | 0.0393701 | |
| A2-CoalCreek at McCaslin - Precip | 100300 | 100% | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 23 | 0 | 0 | 0.0393701 | |
| A2-Weir Gulch - Precip | 100320 | 100% | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 0 | 0 | 0.0393701 | |
| | | Total Tips | 7191 | 282 | 37 | 11 | 10 | 6 | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Porphory Mtn | 4850 | 87% | 176 | 11 | 5 | 0 | 2 | 0 | 1 | 194 | 223 | 29 | 24 | 0.01 | |
| Fairview Peak | 4860 | 99% | 172 | 1 | 0 | 0 | 0 | 0 | 0 | 173 | 174 | 1 | 6 | 0.01 | |
| Wx-A2-Magnolia WX-Precip | 6601 | 95% | 172 | 9 | 0 | 0 | 0 | 0 | 0 | 181 | 190 | 9 | 17 | 0.01 | |
| Wx-A2-OneRain Weather - Precipitation | 100200 | 100% | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0.01 | |

2017 Monthly Peak Hour ALERT Radio Traffic Summary

