

# Alaska State Virology Laboratory (ASVL) Weekly Report – Week #29

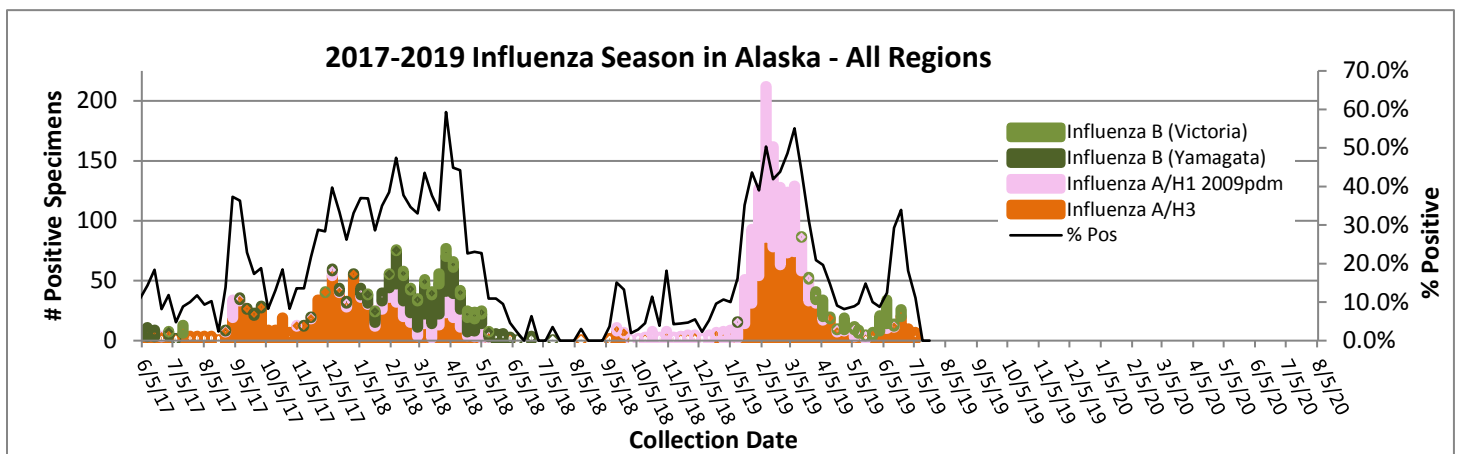
## July 14 - 20, 2019

*(This report was prepared by Jayme Parker, Public Health Microbiologist III at the Alaska State Virology Lab in Fairbanks, Alaska)*

The Section of Epidemiology is the primary contact for consultation for the following potential active infections: rabies, norovirus, measles, mumps, rubella, varicella zoster, and novel influenza. Please direct your calls to the Epi-Team at 907-269-8000; or their 24 hour # 1-800-478-0084.

### 1. Influenza virus

| PCR Testing for Week #2019-29<br>TP: true positive, FP: false positive, TN: true negative, FN: false negative. True = 2 tests concur, False = 2 tests do not concur |           | Corresponding Influenza Sentinel Providers Results   |          |          |          |                  |                            |          |          |          |
|---|-----------|--|----------|----------|----------|------------------|----------------------------|----------|----------|----------|
|   |           | Rapid Influenza Test Results   |          |          |          | PCR Test Results |                            |          |          | No Data  |
| Collection Date Range: 6/11/2019 – 7/13/2019  |           | TP   | TN       | FP       | FN       | TP               | TN                         | FP       | FN       |          |
| ASVL PCR Results  |           |  |          |          |          |                  |                            |          |          |          |
| Influenza A/H1 2009 pdm Positive  | 1         |  |          |          |          | 1                |                            |          |          |          |
| Influenza A/H3 Positive   | 14        | 2  |          |          |          | 12               |                            |          |          |          |
| Influenza A (subtype pending)   | 3         |  |          |          |          | 3                |                            |          |          |          |
| Influenza B Positive (Yamagata lineage)   |           |  |          |          |          |                  |                            |          |          |          |
| Influenza B Positive (Victoria lineage)   |           |  |          |          |          |                  |                            |          |          |          |
| Influenza B (genotype pending)  |           |  |          |          |          |                  |                            |          |          |          |
| Influenza Inconclusive (PCR inhibitive)   | 1         |  |          |          |          |                  | 1                          |          |          |          |
| Influenza Negative  | 53        |  | 3        |          |          |                  | 46                         | 1        |          | 3        |
| <b>Total # Specimens Tested</b>   | <b>72</b> | <b>2</b>   | <b>3</b> | <b>0</b> | <b>0</b> | <b>16</b>        | <b>47</b>                  | <b>1</b> | <b>0</b> | <b>3</b> |
| <b>Summary: Influenza vaccine strain match (specimens collected between 6/1/2019 – present)</b>   |           |  |          |          |          |                  |                            |          |          |          |
| # AK Specimens Tested by CDC  | Results   | Most closely related subtype   |          |          |          | Clade            | Match 2019-20 flu vaccine? |          |          |          |
| 0 Influenza A/H3 viruses  |           | *No viruses tested from recent collections (after 6/1/19). Results from antigenic and genetic testing will update as summer viruses are further characterized. |          |          |          |                  |                            |          |          |          |
| 0 Influenza A/H1N1 viruses  |           |  |          |          |          |                  |                            |          |          |          |
| 0 Influenza B virus (Yamagata)  |           |  |          |          |          |                  |                            |          |          |          |
| 0 Influenza B viruses (Victoria)  |           |  |          |          |          |                  |                            |          |          |          |
| <b>Summary: Influenza antiviral resistance surveillance (specimens collected between 6/1/2019 – present)</b>  |           |  |          |          |          |                  |                            |          |          |          |
| # AK Specimens Tested by CDC  | Results   | Description  |          |          |          |                  |                            |          |          |          |
| 0 Influenza A/H3 virus  |           | *No viruses tested from recent collections (after 6/1/19). Results from antiviral resistance testing will update as summer viruses are further characterized.  |          |          |          |                  |                            |          |          |          |
| 0 Influenza A/H1N1 virus  |           |  |          |          |          |                  |                            |          |          |          |
| 0 Influenza B (Victoria)  |           |  |          |          |          |                  |                            |          |          |          |
| 0 Influenza B (Yamagata)  |           |  |          |          |          |                  |                            |          |          |          |



For recent specimens collected in week #29 (July 14 - 20, 2019): 0 of 0 respiratory specimens were positive for influenza (0.0% positive). Additional specimens from this collection date range are pending due to transit delays or further subtyping, thus percent positivity will adjust as specimen results become available.

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**2. Hepatitis C virus (HCV)**

For recommendations on types of Hepatitis C testing, test interpretation and post-test patient counseling:

- CDC MMWR: <http://www.cdc.gov/mmwr/preview/mmwrhtml/rr6104a1.htm>
- 5/27/15 AK Epidemiology Bulletin: [http://www.epi.alaska.gov/bulletins/docs/b2015\\_11.pdf](http://www.epi.alaska.gov/bulletins/docs/b2015_11.pdf)

| HCV Antibody screening | Total Tested | Total Positive (%) |
|------------------------|--------------|--------------------|
| Week #2019-29          | 60           | 18 (30.0%)         |
| Last 12 month period   | 5,616        | 854 (15.2%)        |
| HCV RNA testing        |              |                    |
| Week #2019-29          | 6            | 4 (66.7%)          |
| Last 12 month period   | 1,014        | 673 (66.4%)        |

| HCV Genotyping        | Total Tested | Type 1a     | Type 1b   | Type 2a/c | Type 2b    | Type 3      | Type 4   | Type 6   | Unable to Genotype |
|-----------------------|--------------|-------------|-----------|-----------|------------|-------------|----------|----------|--------------------|
| Week #2019-29         | 4            | 4           |           |           | 1          |             |          |          |                    |
| Last 12 month period* | 674          | 427 (63.4%) | 20 (3.0%) | 2 (0.3%)  | 72 (10.7%) | 136 (20.2%) | 1 (0.1%) | 0 (0.0%) | 15 (2.2%)          |

\*HCV genotyping data includes 4 coinfections (3 specimens with subtypes 1a & 3, and 1 specimen with subtypes 1a and 2b)

**3. Human Immunodeficiency virus (HIV)**

| HIV antigen/antibody combination screening | Total Tested | Total Confirmed Positive |
|--|--------------|--------------------------|
| Week #2019-29                              | 184          | 0 (0.0%)                 |
| Last 12 month period                       | 8,010        | 13 (0.16%)               |

**4. Norovirus Outbreaks**

- No new outbreaks to report.

**5. Rabies virus - Human Exposures**

- A coyote from the Gulf Coast region has tested **negative** for rabies.

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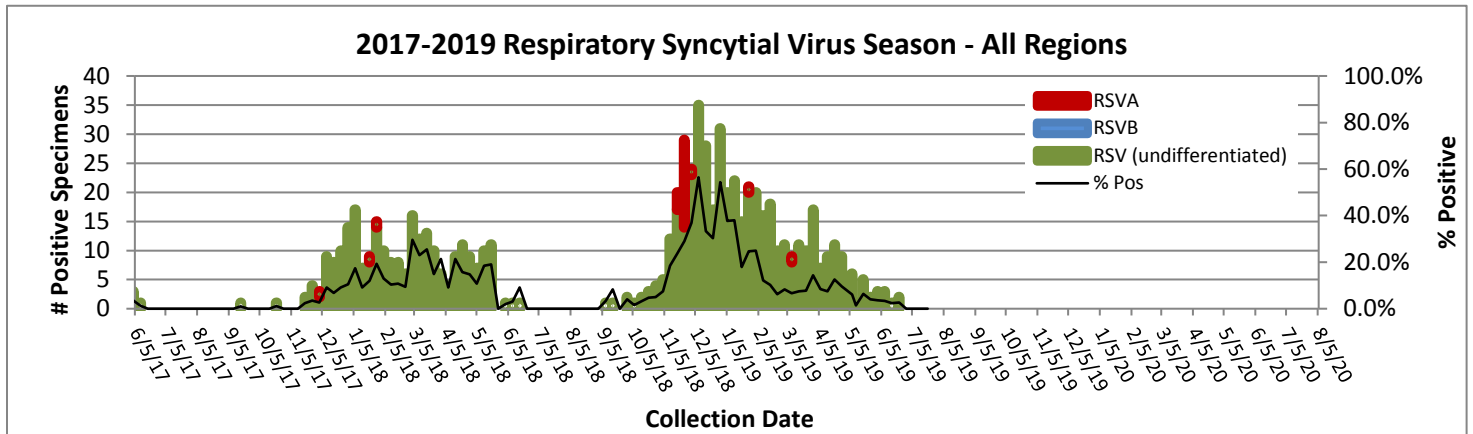
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### 6. Respiratory Syncytial Virus (RSV)

\*Surveillance of RSV using a PCR assay that does not differentiate groups A from B began 2/27/2017. Seasons are calculated from October 1 – September 30.

| PCR testing                | Total Tested | Total Positives (% pos) | Total Positive RSV A (% of pos) | Total Positive RSV B (% of pos) | Total Positive (RSV undifferentiated)* (% of pos) |
|----------------------------|--------------|-------------------------|---------------------------------|---------------------------------|---|
| Week #2019-29              | 68           | 0 (0.0%)                | 0 (0.0%)                        | 0 (0.0%)                        | 0 (0.0%)  |
| Season 2018-2019 (current) | 3,441        | 470 (13.7%)             | 21 (4.5%)                       | 0 (0.0%)                        | 449 (95.5%)                                       |
| Season 2017-2018           | 2,952        | 256 (8.7%)              | 3 (1.2%)                        | 0 (0.0%)                        | 253 (98.8%)                                       |
| Season 2016-2017           | 5,550        | 383 (6.9%)              | 108 (28.2%)                     | 158 (41.3%)                     | 117 (30.5%)                                       |
| Season 2015-2016           | 4,987        | 388 (7.8%)              | 145 (37.4%)                     | 243 (62.6%)                     | 0 (0.0%)  |

mary



For recent specimens collected in week #29 (July 14 - 20, 2019): 0 of 0 respiratory specimens were positive for RSV (0.0% positive). Additional specimens from this collection date range are pending due to transit delays, thus percent positivity will adjust as specimen results become available.

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**7. Respiratory Pathogen Panel Summary – by Region**

Numbers reflect the total positives detected within a particular time period. Surveillance for respiratory pathogens was reduced in 2017, hence lower numbers for pathogens other than influenza and RSV after that time. Current respiratory season is 10/1/2018 – 9/30/2019. NT = Not tested

|                                 | Influenza A/H3 | Influenza A/H1pdm09 | Influenza A (subtype pending) | Influenza B (Yamagata) | Influenza B (Victoria) | Influenza B (genotype pending) | RSV A | RSV B | RSV (undifferentiated) | Rhino/Enterovirus | Metapneumovirus | Parainfluenza 1 | Parainfluenza 2 | Parainfluenza 3 | Parainfluenza 4 | Adenovirus | Coronavirus 229E | Coronavirus NL63 | Coronavirus HKU1 | Coronavirus OC43 | Human Bocavirus | <i>Chlamydophila pneumoniae</i> | <i>Mycoplasma pneumoniae</i> | Total Specimens Tested |              |
|---------------------------------|----------------|---------------------|-------------------------------|------------------------|------------------------|--------------------------------|-------|-------|------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------------|------------------|------------------|------------------|-----------------|---------------------------------|------------------------------|------------------------|--------------|
| <b>All Regions</b>              |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                                 |                              |                        |              |
| <b>Week #2019-29</b>            | 14             | 1                   | 3                             |                        |                        |                                |       |       |                        | 1                 |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                                 |                              |                        | <b>72</b>    |
| <b>Season 2018-19 (current)</b> | 741            | 693                 |                               | 1                      | 88                     |                                | 21    | 0     | 449                    | 14                | 0               | 0               | 1               | 1               | 3               | 0          | 2                | 0                | 0                | 2                | 1               | 0                               | 2                            |                        | <b>5,100</b> |
| <b>Season 2017-18</b>           | 647            | 179                 |                               | 322                    | 60                     |                                | 2     | 0     | 245                    | 23                | 5               | 1               | 0               | 1               | 1               | 1          | 2                | 3                | 0                | 0                | 3               | 1                               | 0                            |                        | <b>4,442</b> |
| <b>Season 2016-17</b>           | 946            | 22                  |                               | 262                    | 15                     |                                | 109   | 158   | 125                    | 197               | 77              | 9               | 32              | 136             | 31              | 140        | 79               | 3                | 0                | 175              | 1               | 1                               | 0                            |                        | <b>5,864</b> |
| <b>Season 2015-16</b>           | 94             | 622                 |                               | 226                    | 0                      |                                | 146   | 254   | 0                      | 706               | 183             | 97              | 2               | 70              | 43              | 272        | 25               | 86               | 82               | 115              | NT              | NT                              | NT                           |                        | <b>5,036</b> |
| <b>Anchorage/MatSu Region</b>   |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                                 |                              |                        |              |
| <b>Week #2019-29</b>            | 1              |                     | 2                             |                        |                        |                                |       |       |                        | 1                 |                 |                 |                 |                 |                 |            |                  |                  |                  |                  | 1               |                                 |                              |                        | <b>39</b>    |
| <b>Season 2018-19 (current)</b> | 265            | 249                 |                               | 1                      | 9                      |                                | 1     | 0     | 80                     | 11                | 0               | 0               | 1               | 1               | 1               | 2          | 0                | 0                | 0                | 2                | 1               | 0                               | 2                            |                        | <b>1,767</b> |

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|                                 | Influenza A/H3 | Influenza A/H1pdm09 | Influenza A (subtype pending) | Influenza B (Yamagata) | Influenza B (Victoria) | Influenza B (genotype pending) | RSV A | RSV B | RSV (undifferentiated) | Rhino/Enterovirus | Metapneumovirus | Parainfluenza 1 | Parainfluenza 2 | Parainfluenza 3 | Parainfluenza 4 | Adenovirus | Coronavirus 229E | Coronavirus NL63 | Coronavirus HKU1 | Coronavirus OC43 | Human Bocavirus | <i>Chlamydia pneumoniae</i> | <i>Mycoplasma pneumoniae</i> | Total Specimens Tested |              |
|---------------------------------|----------------|---------------------|-------------------------------|------------------------|------------------------|--------------------------------|-------|-------|------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------------|------------------|------------------|------------------|-----------------|-----------------------------|------------------------------|------------------------|--------------|
| <b>Season 2017-18</b>           | 246            | 82                  |                               | 82                     | 34                     |                                | 1     | 0     | 62                     | 9                 | 1               | 1               | 0               | 0               | 0               | 2          | 0                | 2                | 0                | 0                | 1               | 0                           | 0                            | <b>1,702</b>           |              |
| <b>Season 2016-17</b>           | 317            | 1                   |                               | 49                     | 2                      |                                | 53    | 24    | 35                     | 70                | 52              | 0               | 11              | 37              | 14              | 21         | 32               | 1                | 0                | 64               | 1               | 1                           | 0                            | <b>2,178</b>           |              |
| <b>Season 2015-16</b>           | 33             | 203                 |                               | 87                     | 0                      |                                | 25    | 107   | 0                      | 253               | 37              | 30              | 0               | 29              | 16              | 102        | 12               | 30               | 22               | 40               | NT              | NT                          | NT                           | <b>1,903</b>           |              |
| <b>Gulf Coast Region</b>        |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        |              |
| <b>Week #2019-29</b>            |                | 1                   |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              | <b>10</b>              |              |
| <b>Season 2018-19 (current)</b> | 59             | 107                 |                               | 0                      | 6                      |                                | 0     | 0     | 41                     | 0                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>657</b>   |
| <b>Season 2017-18</b>           | 49             | 28                  |                               | 79                     | 4                      |                                | 0     | 0     | 48                     | 3                 | 0               | 0               | 0               | 0               | 0               | 0          | 2                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>810</b>   |
| <b>Season 2016-17</b>           | 109            | 2                   |                               | 43                     | 1                      |                                | 12    | 16    | 18                     | 9                 | 1               | 7               | 5               | 19              | 7               | 2          | 14               | 0                | 0                | 19               | 0               | 0                           | 0                            | 0                      | <b>853</b>   |
| <b>Season 2015-16</b>           | 7              | 54                  |                               | 10                     | 0                      |                                | 4     | 11    | 0                      | 47                | 15              | 9               | 0               | 3               | 2               | 9          | 2                | 9                | 1                | 9                | NT              | NT                          | NT                           | 0                      | <b>480</b>   |
| <b>Interior Region</b>          |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        |              |
| <b>Week #2019-29</b>            |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        | <b>0</b>     |
| <b>Season 2018-19 (current)</b> | 247            | 121                 |                               | 0                      | 33                     |                                | 19    | 0     | 142                    | 2                 | 0               | 0               | 0               | 0               | 2               | 1          | 2                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>1,180</b> |
| <b>Season 2017-18</b>           | 189            | 27                  |                               | 112                    | 16                     |                                | 0     | 0     | 58                     | 9                 | 4               | 0               | 0               | 1               | 1               | 0          | 0                | 1                | 0                | 0                | 2               | 0                           | 0                            | 0                      | <b>933</b>   |

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|                                 | Influenza A/H3 | Influenza A/H1pdm09 | Influenza A (subtype pending) | Influenza B (Yamagata) | Influenza B (Victoria) | Influenza B (genotype pending) | RSV A | RSV B | RSV (undifferentiated) | Rhino/Enterovirus | Metapneumovirus | Parainfluenza 1 | Parainfluenza 2 | Parainfluenza 3 | Parainfluenza 4 | Adenovirus | Coronavirus 229E | Coronavirus NL63 | Coronavirus HKU1 | Coronavirus OC43 | Human Bocavirus | <i>Chlamydia pneumoniae</i> | <i>Mycoplasma pneumoniae</i> | Total Specimens Tested |            |
|---------------------------------|----------------|---------------------|-------------------------------|------------------------|------------------------|--------------------------------|-------|-------|------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------------|------------------|------------------|------------------|-----------------|-----------------------------|------------------------------|------------------------|------------|
| <b>Season 2016-17</b>           | 269            | 1                   |                               | 44                     | 4                      |                                | 19    | 65    | 43                     | 51                | 19              | 0               | 8               | 44              | 2               | 36         | 16               | 2                | 0                | 42               | 0               | 0                           | 0                            | <b>1,298</b>           |            |
| <b>Season 2015-16</b>           | 14             | 164                 |                               | 72                     | 0                      |                                | 101   | 62    | 0                      | 210               | 75              | 34              | 1               | 19              | 8               | 96         | 6                | 28               | 37               | 31               | NT              | NT                          | NT                           | <b>1,396</b>           |            |
| <b>Northern Region</b>          |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        |            |
| <b>Week #2019-29</b>            |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              | <b>0</b>               |            |
| <b>Season 2018-19 (current)</b> | 49             | 20                  |                               | 0                      | 0                      |                                | 0     | 0     | 5                      | 0                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>164</b> |
| <b>Season 2017-18</b>           | 19             | 0                   |                               | 3                      | 1                      |                                | 0     | 0     | 0                      | 0                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 1                           | 0                            | <b>35</b>              |            |
| <b>Season 2016-17</b>           | 4              | 17                  |                               | 4                      | 0                      |                                | 4     | 1     | 4                      | 0                 | 0               | 0               | 0               | 0               | 0               | 2          | 0                | 0                | 0                | 1                | 0               | 0                           | 0                            | <b>32</b>              |            |
| <b>Season 2015-16</b>           | 1              | 35                  |                               | 1                      | 0                      |                                | 0     | 11    | 0                      | 2                 | 3               | 1               | 0               | 0               | 1               | 3          | 1                | 0                | 0                | 1                | NT              | NT                          | NT                           | <b>59</b>              |            |
| <b>Southeast Region</b>         |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        |            |
| <b>Week #2019-29</b>            | 13             |                     | 1                             |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              | <b>23</b>              |            |
| <b>Season 2018-19 (current)</b> | 97             | 133                 |                               | 0                      | 0                      |                                | 0     | 0     | 95                     | 0                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | <b>873</b>             |            |
| <b>Season 2017-18</b>           | 120            | 11                  |                               | 15                     | 1                      |                                | 0     | 0     | 38                     | 0                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | <b>648</b>             |            |

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|---------------------------------|----------------|---------------------|-------------------------------|------------------------|------------------------|--------------------------------|-------|-------|------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------------|------------------|------------------|------------------|-----------------|-----------------------------|------------------------------|------------------------|------------|
| <b>Season 2016-17</b>           | 195            | 1                   |                               | 114                    | 8                      |                                | 18    | 49    | 12                     | 37                | 2               | 2               | 5               | 17              | 7               | 69         | 11               | 0                | 0                | 33               | 0               | 0                           | 0                            | <b>1,235</b>           |            |
| <b>Season 2015-16</b>           | 37             | 130                 |                               | 39                     | 0                      |                                | 10    | 38    | 0                      | 117               | 42              | 18              | 1               | 11              | 7               | 28         | 4                | 8                | 17               | 29               | NT              | NT                          | NT                           | <b>921</b>             |            |
| <b>Southwest Region</b>         |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        |            |
| <b>Week #2019-29</b>            |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              | <b>0</b>               |            |
| <b>Season 2018-19 (current)</b> | 24             | 63                  |                               | 0                      | 40                     |                                | 1     | 0     | 86                     | 1                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>459</b> |
| <b>Season 2017-18</b>           | 24             | 31                  |                               | 31                     | 4                      |                                | 1     | 0     | 39                     | 1                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>314</b> |
| <b>Season 2016-17</b>           | 52             | 0                   |                               | 8                      | 0                      |                                | 3     | 3     | 13                     | 15                | 3               | 0               | 3               | 19              | 1               | 6          | 6                | 0                | 0                | 16               | 0               | 0                           | 0                            | <b>268</b>             |            |
| <b>Season 2015-16</b>           | 2              | 36                  |                               | 17                     | 0                      |                                | 6     | 25    | 0                      | 77                | 11              | 5               | 0               | 8               | 9               | 34         | 0                | 11               | 5                | 5                | NT              | NT                          | NT                           | <b>277</b>             |            |