

# Alaska State Virology Laboratory (ASVL) Weekly Report – Week #22

## May 26 – June 1, 2019

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

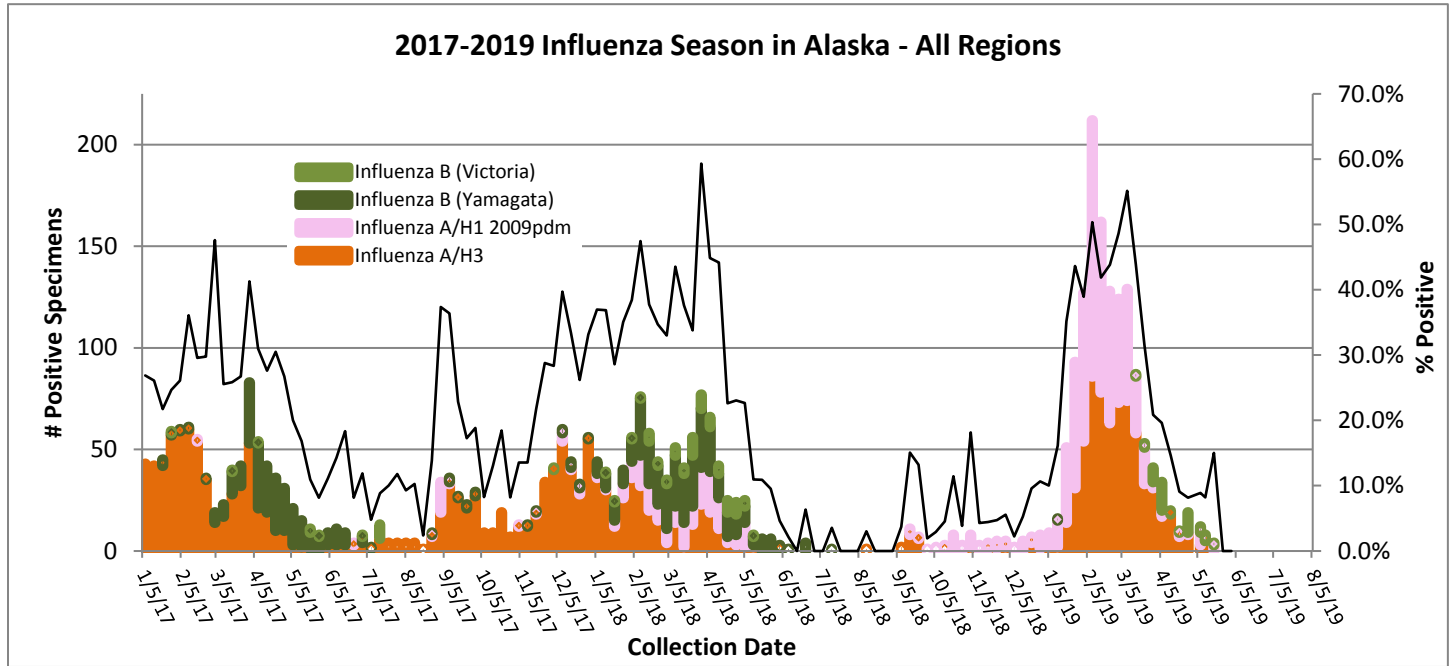
The Section of Epidemiology is the primary contact for consultation for the following potential active infections: rabies, norovirus, measles, mumps, rubella, varicella zoster, and novel influenza. Please direct your calls to the Epi-Team at 907-269-8000; or their 24 hour # 1-800-478-0084.

### 1. Influenza virus

| PCR Testing for Week #2019-22<br>TP: true positive, FP: false positive, TN: true negative, FN: false negative. True = 2 tests concur, False = 2 tests do not concur<br>Collection Date Range: 5/3/2019 – 5/24/2019 |            | Corresponding Influenza Sentinel Providers Results   |          |          |          |                            |           |          |          |          |
|--|------------|--|----------|----------|----------|----------------------------|-----------|----------|----------|----------|
| ASVL PCR Results   |            | Rapid Influenza Test Results   |          |          |          | PCR Test Results           |           |          |          | No Data  |
|  |            | TP   | TN       | FP       | FN       | TP                         | TN        | FP       | FN       |          |
| <b>Influenza A/H1 2009 pdm Positive</b>  | 2          |  |          |          |          | 2                          |           |          |          |          |
| <b>Influenza A/H3 Positive</b>   | 1          |  |          |          |          | 1                          |           |          |          |          |
| <b>Influenza A (subtype pending)</b>   | 3          |  |          |          |          | 3                          |           |          |          |          |
| <b>Influenza B Positive (Yamagata lineage)</b>   |            |  |          |          |          |                            |           |          |          |          |
| <b>Influenza B Positive (Victoria lineage)</b>   |            |  |          |          |          |                            |           |          |          |          |
| <b>Influenza B (genotype pending)</b>  | 4          |  |          |          |          | 4                          |           |          |          |          |
| <b>Influenza Negative</b>  | 76         |  | 3        |          |          |                            | 70        | 1        |          | 2        |
| <b>Total # Specimens Tested</b>  | <b>86</b>  | <b>0</b>   | <b>3</b> | <b>0</b> | <b>0</b> | <b>10</b>                  | <b>70</b> | <b>1</b> | <b>0</b> | <b>2</b> |
| <b>Summary: Influenza vaccine strain match (specimens collected between 6/1/2018 – present)</b>  |            |  |          |          |          |                            |           |          |          |          |
| # AK Specimens Tested by CDC   | Results    | Most closely related subtype   |          |          | Clade    | Match 2018–19 flu vaccine? |           |          |          |          |
| <b>24 Influenza A/H3 viruses</b>   | 6 (25%)    | A/SINGAPORE/INFIMH-16-0019/2016-LIKE (H3N2)  |          |          | 3C.2a    | Yes                        |           |          |          |          |
|  | 5 (20.8%)  | A/SINGAPORE/INFIMH-16-0019/2016-LIKE (H3N2)  |          |          | 3C.2a1   | Yes                        |           |          |          |          |
|  | 13 (54.2%) | A/SINGAPORE/INFIMH-16-0019/2016-LIKE (H3N2)  |          |          | 3C.3a    | Lower affinity*            |           |          |          |          |
| <b>20 Influenza A/H1N1 viruses</b>   | 20 (100%)  | A/MICHIGAN/45/2015-LIKE (H1N1)pdm09  |          |          | 6B.1     | Yes                        |           |          |          |          |
| <b>2 Influenza B virus (Yamagata)</b>  | 2 (100%)   | B/PHUKET/3073/2013-LIKE  |          |          | Y3       | Yes                        |           |          |          |          |
| <b>0 Influenza B viruses (Victoria)</b>  |            |  |          |          |          |                            |           |          |          |          |
| <b>Summary: Influenza antiviral resistance surveillance (specimens collected between 6/1/2018 – present)</b>   |            |  |          |          |          |                            |           |          |          |          |
| # AK Specimens Tested by CDC   | Results    | Description  |          |          |          |                            |           |          |          |          |
| <b>15 Influenza A/H3 virus</b>   | 15 (100%)  | Susceptible; wild-type neuraminidase gene sequence at amino acid positions 119, 292, and 294 |          |          |          |                            |           |          |          |          |
| <b>10 Influenza A/H1N1 virus</b>   | 10 (100%)  | Susceptible; wild-type neuraminidase gene sequence at amino acid positions 223 and 275       |          |          |          |                            |           |          |          |          |
| <b>0 Influenza B (Victoria)</b>  |            |  |          |          |          |                            |           |          |          |          |
| <b>0 Influenza B (Yamagata)</b>  |            |  |          |          |          |                            |           |          |          |          |

\*Lower affinity: Viruses are characterized both by antigenic and genetic features. Antigenic matching refers to immunogenicity and similarity to the antibodies needed for virus neutralization which assigns the most closely related subtype. Genetic matching refers to similarities evident through whole genome sequencing and provides phylogenetic clade information. Although most influenza viruses circulating in Alaska antigenically match the current vaccine strain candidates, influenza A/H3 viruses from the 3C.3a clade have been shown to react poorly with antibodies produced by the vaccine in laboratory experiments. Nationally, the majority (73%) of influenza A/H3 viruses belong to this 3C.3a clade. For more information, visit the weekly U.S. influenza surveillance report at <https://www.cdc.gov/flu/weekly/index.htm>.

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For recent specimens collected in week #22 (May 26 – June 1, 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.

**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)

| <b>HCV Antibody screening</b> | Total Tested | Total Positive (%) |
|-------------------------------|--------------|--------------------|
| Week #2019-22                 | 242          | 23 (9.5%)          |
| Last 12 month period          | 5,509        | 769 (14.0%)        |
| <b>HCV RNA testing</b>        |              |                    |
| Week #2019-22                 | 0            | 0 (0.0%)           |
| Last 12 month period          | 893          | 596 (66.7%)        |

| <b>HCV Genotyping</b> | Total Tested | Type 1a     | Type 1b   | Type 2a/c | Type 2b    | Type 3      | Type 4   | Type 6   | Unable to Genotype |
|-----------------------|--------------|-------------|-----------|-----------|------------|-------------|----------|----------|--------------------|
| Week #2019-22         | 0            |             |           |           |            |             |          |          |                    |
| Last 12 month period* | 596          | 384 (64.4%) | 21 (3.5%) | 4 (0.7%)  | 62 (10.4%) | 110 (18.5%) | 1 (0.2%) | 0 (0.0%) | 14 (2.3%)          |

\*HCV genotyping data includes 1 coinfection (1 specimen with subtypes 1a & 3)

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### 3. Human Immunodeficiency virus (HIV)

| HIV Antibody screening (4 <sup>th</sup> Generation) | Total Tested | Total Confirmed Positive |
|---|--------------|--------------------------|
| Week #2019-22                                       | 76           | 0 (0.0%)                 |
| Last 12 month period                                | 7,993        | 15 (0.19%)               |

### 4. Norovirus Outbreaks

- No new outbreaks to report.

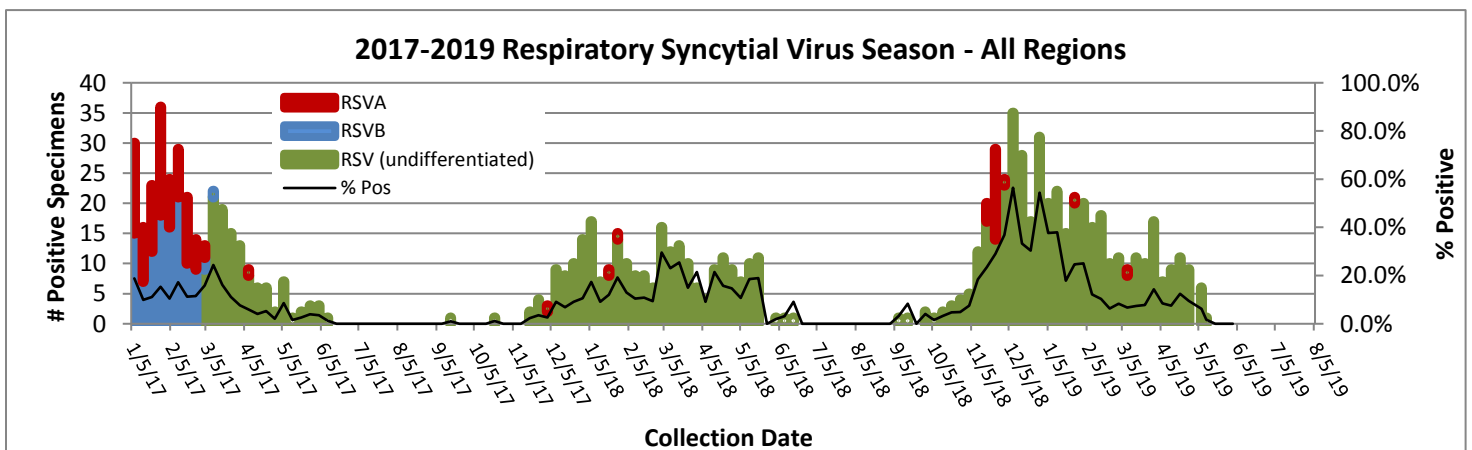
### 5. Rabies virus - Human Exposures

- No new cases to report.

### 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 #2019-22              | 81           | 4 (4.9%)                | 0 (0.0%)                        | 0 (0.0%)                        | 4 (100.0%)  |
| Season 2018-2019 (current) | 2,902        | 454 (15.6%)             | 21 (4.6%)                       | 0 (0.0%)                        | 433 (95.4%)                                       |
| 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%)  |



For recent specimens collected in week #22 (May 26 – June 1, 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. 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>Chlamydia pneumoniae</i> | <i>Mycoplasma pneumoniae</i> | Total Specimens Tested |              |
|---------------------------------|----------------|---------------------|-------------------------------|------------------------|------------------------|--------------------------------|-------|-------|------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------------|------------------|------------------|------------------|-----------------|-----------------------------|------------------------------|------------------------|--------------|
| <b>All Regions</b>              |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        |              |
| <b>Week #2019-22</b>            | 1              | 2                   | 3                             |                        |                        | 4                              |       |       | 4                      |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        | <b>86</b>    |
| <b>Season 2018-19 (current)</b> | 668            | 686                 |                               | 1                      | 44                     |                                | 21    | 0     | 433                    | 11                | 0               | 0               | 1               | 0               | 3               | 0          | 2                | 0                | 0                | 2                | 0               | 0                           | 2                            |                        | <b>4,610</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 #2019-22</b>            |                |                     |                               |                        |                        | 2                              |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        | <b>32</b>    |
| <b>Season 2018-19 (current)</b> | 251            | 246                 |                               | 1                      | 7                      |                                | 1     | 0     | 77                     | 8                 | 0               | 0               | 1               | 0               | 1               | 2          | 0                | 0                | 0                | 2                | 0               | 0                           | 2                            |                        | <b>1,576</b> |
| <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> |

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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>           | 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 #2019-22</b>            | 1              | 2                   |                               |                        |                        |                                |       |       | 2                      |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        | <b>17</b>    |
| <b>Season 2018-19 (current)</b> | 52             | 105                 |                               | 0                      | 6                      |                                | 0     | 0     | 38                     | 0                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>582</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 #2019-22</b>            |                |                     |                               |                        |                        | 2                              |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        | <b>12</b>    |
| <b>Season 2018-19 (current)</b> | 228            | 121                 |                               | 0                      | 31                     |                                | 19    | 0     | 141                    | 2                 | 0               | 0               | 0               | 0               | 2               | 1          | 2                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>1,117</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>   |
| <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                            | 0                      | <b>1,298</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 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 #2019-22</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 #2019-22</b>            |                |                     | 3                             |                        |                        |                                |       |       | 2                      |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              | <b>25</b>              |            |
| <b>Season 2018-19 (current)</b> | 64             | 133                 |                               | 0                      | 0                      |                                | 0     | 0     | 86                     | 0                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | 0                      | <b>800</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>             |            |
| <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>             |            |

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|---------------------------------|----------------|---------------------|-------------------------------|------------------------|------------------------|--------------------------------|-------|-------|------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------|------------------|------------------|------------------|------------------|-----------------|-----------------------------|------------------------------|------------------------|
| <b>Southwest Region</b>         |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              |                        |
| <b>Week #2019-22</b>            |                |                     |                               |                        |                        |                                |       |       |                        |                   |                 |                 |                 |                 |                 |            |                  |                  |                  |                  |                 |                             |                              | <b>0</b>               |
| <b>Season 2018-19 (current)</b> | 24             | 61                  |                               | 0                      | 0                      |                                | 1     | 0     | 86                     | 1                 | 0               | 0               | 0               | 0               | 0               | 0          | 0                | 0                | 0                | 0                | 0               | 0                           | 0                            | <b>371</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                            | <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>             |