Supplemental Table 1: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 1

|  |  |
| --- | --- |
| Baseline value | 1.2% |
| **Start week** | WK 50 (week ending Dec. 13) |
| Publish date | December 19, 2014 |
| **Peak week** | WK 3 (week ending January 24) |
| **Peak percentage** | 3.94 |
| Publish date | January 30, 2015 |
| **Last week above baseline** | WK 16 (week ending April 25) |
| Publish date | May 1, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–January 30, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–May 1, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | December 19, 2014–May 1, 2015 |

Supplemental Table 2: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 2

|  |  |
| --- | --- |
| Baseline value | 2.3% |
| **Start week** | WK 45 (week ending Nov. 8) |
| Publish date | November 14, 2014 |
| **Peak week** | WK 4 (week ending January 31) |
| **Peak percentage** | 5.22 |
| Publish date | February 6, 2015 |
| **Last week above baseline** | WK 14 (week ending April 11) |
| Publish date | April 17, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–February 6, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–April 17, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | November 14, 2014–April 17, 2015 |

Supplemental Table 3: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 3

|  |  |
| --- | --- |
| Baseline value | 2.0% |
| **Start week** | WK 48 (week ending Nov. 29) |
| Publish date | December 5, 2014 |
| **Peak week** | WK 52 (week ending December 27) |
| **Peak percentage** | 7.25 |
| Publish date | January 5, 2015 |
| **Last week above baseline** | WK 7 (week ending February 21) |
| Publish date | February 27, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–January 5, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–February 27, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | December 5, 2014– February 27, 2015 |

Supplemental Table 4: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 4

|  |  |
| --- | --- |
| Baseline value | 1.9% |
| **Start week** | WK 47 (week ending Nov. 22) |
| Publish date | November 28, 2014 |
| **Peak week** | WK 52 (week ending December 27) |
| **Peak percentage** | 7.54 |
| Publish date | January 5, 2015 |
| **Last week above baseline** | WK 10 (week ending March 14) |
| Publish date | March 20, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–January 5, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–March 20, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | November 28, 2014– March 20, 2015 |

Supplemental Table 5: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 5

|  |  |
| --- | --- |
| Baseline value | 1.7% |
| **Start week** | WK 48 (week ending Nov. 29) |
| Publish date | December 5, 2014 |
| **Peak week** | WK 52 (week ending December 27) |
| **Peak percentage** | 6.61 |
| Publish date | January 5, 2015 |
| **Last week above baseline** | WK 7 (week ending February 21) |
| Publish date | February 27, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–January 5, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–February 27, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | December 5, 2014– February 27, 2015 |

Supplemental Table 6: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 6

|  |  |
| --- | --- |
| Baseline value | 3.3% |
| **Start week** | WK 47 (week ending Nov. 22) |
| Publish date | November 28, 2014 |
| **Peak week** | WK 51 (week ending December 20) |
| **Peak percentage** | 11.09 |
| Publish date | December 29, 2014 |
| **Last week above baseline** | WK 13 (week ending April 4) |
| Publish date | April 10, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–December 29, 2014 |
| Evaluation period for peak week and percent | October 20, 2014–April 10, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | November 28, 2014– April 10, 2015 |

Supplemental Table 7: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 7

|  |  |
| --- | --- |
| Baseline value | 1.7% |
| **Start week** | WK 48 (week ending Nov. 29) |
| Publish date | December 5, 2014 |
| **Peak week** | WK 52 (week ending December 27) |
| **Peak percentage** | 6.38 |
| Publish date | January 5, 2015 |
| **Last week above baseline** | WK 13 (week ending April 4) |
| Publish date | April 10, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–January 5, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–April 10, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | December 5, 2014– April 10, 2015 |

Supplemental Table 8: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 8

|  |  |
| --- | --- |
| Baseline value | 1.3% |
| **Start week** | WK 49 (week ending Dec. 6) |
| Publish date | December 12, 2014 |
| **Peak week** | WK 53 (week ending January 3) |
| **Peak percentage** | 4.39 |
| Publish date | January 9, 2015 |
| **Last week above baseline** | WK 11 (week ending Mar. 21) |
| Publish date | March 27, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–January 9, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–March 27, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | December 12, 2014– March 27, 2015 |

Supplemental Table 9: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 9

|  |  |
| --- | --- |
| Baseline value | 2.7% |
| **Start week** | WK 51 (week ending Dec. 20) |
| Publish date | December 29, 2014 |
| **Peak week** | WK 4 (week ending January 31) |
| **Peak percentage** | 4.98 |
| Publish date | February 6, 2015 |
| **Last week above baseline** | WK 11 (week ending Mar. 21) |
| Publish date | March 27, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–February 6, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–March 27, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | December 29, 2014– March 27, 2015 |

Supplemental Table 10: Onset week, peak week, peak percent, and the forecast evaluation period, as calculated from ILINet during the 2014–15 influenza season, Health and Human Service Region 10

|  |  |
| --- | --- |
| Baseline value | 1.1% |
| **Start week** | WK 49 (week ending Dec. 6) |
| Publish date | December 12, 2014 |
| **Peak week** | WK 2 (week ending January 17) |
| **Peak percentage** | 3.63 |
| Publish date | January 23, 2015 |
| **Last week above baseline** | WK 11 (week ending Mar. 21) |
| Publish date | March 27, 2015 |
|  |  |
| Evaluation period for onset forecasts | October 20, 2014–January 23, 2015 |
| Evaluation period for peak week and percent | October 20, 2014–March 27, 2015 |
| Evaluation period for 4-wk ahead forecasts (in season) | December 12, 2014– March 27, 2015 |

Supplemental Table 11a: The average skill score over the entire challenge period for onset week, peak week, peak percent, the ILINet value 1 week ahead, the ILINet value 2 weeks ahead, the ILINet value 3 week ahead, and the ILINet value 4 week ahead, by forecast team, United States.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Onset | Peak Week | Peak % | Milestone average | 1 week | 2 week | 3 week | 4 week | Near-term average |
| Forecast A | 0.01 | 0.23 | 0.2 | 0.09 | 0.23 | 0.22 | 0.21 | 0.14 | 0.2 |
| Forecast B | 0.61 | 0.56 | 0.02 | 0.18 | 0.18 | 0.13 | 0.13 | 0.12 | 0.14 |
| Forecast C | 0.6 | 0.12 | 0.01 | 0.07 | 0.27 | 0.18 | 0.13 | 0.16 | 0.18 |
| Forecast D | 0.17 | 0.55 | 0.14 | 0.24 | 0.23 | 0.25 | 0.2 | 0.18 | 0.21 |
| Forecast E | 0.72 | 0.39 | 0 | 0.09 | 0.54 | 0.5 | 0.5 | 0.45 | 0.5 |
| Forecast F | 0.49 | 0.39 | 0.06 | 0.22 | 0.42 | 0.34 | 0.31 | 0.36 | 0.36 |
| Forecast G | 0.25 | 0.25 | 0 | 0.03 | 0.09 | 0.05 | 0.03 | 0.04 | 0.05 |
| Best score | 0.72 | 0.56 | 0.2 | 0.24 | 0.54 | 0.5 | 0.5 | 0.45 | 0.5 |
| Avg. score | 0.26 | 0.32 | 0.01 | 0.11 | 0.24 | 0.19 | 0.17 | 0.16 | 0.19 |

Table 11b: The average skill score over the entire challenge period for seasonal forecasts and near-term forecasts, by Health and Human Service Region and forecast team.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Region 1 | | Region 2 | | Region 3 | | Region 4 | | Region 5 | | Region 6 | | Region 7 | | Region 8 | | Region 9 | | Region 10 | | Average Team Score | |
|  | MA\* | NTA# | MA | NTA | MA | NTA | MA | NTA | MA | NTA | MA | NTA | MA | NTA | MA | NTA | MA | NTA | MA | NTA | MA | NTA |
| Forecast B | 0.01 | 0.18 | 0.17 | 0.07 | 0.41 | 0.22 | 0.54 | 0.15 | 0.57 | 0.29 | 0.36 | 0.01 | 0.52 | 0.01 | 0.44 | 0.25 | 0.06 | 0.07 | 0.34 | 0.43 | 0.01 | 0.18 |
| Forecast C | 0.02 | 0.19 | 0.05 | 0.1 | 0.1 | 0.17 | 0.2 | 0.14 | 0.17 | 0.13 | 0.15 | 0.02 | 0.14 | 0.04 | 0.12 | 0.18 | 0.05 | 0.06 | 0.32 | 0.14 | 0.02 | 0.19 |
| Forecast D | 0 | 0.37 | 0.01 | 0.16 | 0.04 | 0.12 | 0.18 | 0.12 | 0.09 | 0.11 | 0.12 | 0.09 | 0.08 | 0.14 | 0.06 | 0.32 | 0.1 | 0.3 | 0.17 | 0.25 | 0 | 0.37 |
| Forecast E | 0.02 | 0.48 | 0.11 | 0.45 | 0.21 | 0.41 | 0.32 | 0.32 | 0.32 | 0.34 | 0.41 | 0.13 | 0.35 | 0.31 | 0.44 | 0.56 | 0.06 | 0.23 | 0.44 | 0.48 | 0.02 | 0.48 |
| Forecast F | 0.05 | 0.35 | 0.16 | 0.2 | 0.28 | 0.27 | 0.43 | 0.34 | 0.42 | 0.25 | 0.38 | 0.12 | 0.44 | 0.25 | 0.34 | 0.36 | 0.08 | 0.33 | 0.39 | 0.44 | 0.05 | 0.35 |
| Forecast G | 0 | 0.01 | 0.04 | 0.01 | 0.01 | 0.05 | 0.23 | 0.03 | 0.16 | 0.09 | 0.1 | 0.01 | 0.15 | 0.02 | 0.17 | 0.08 | 0.02 | 0.02 | 0.05 | 0.05 | 0 | 0.01 |
| Best score | 0.05 | 0.48 | 0.17 | 0.45 | 0.41 | 0.41 | 0.54 | 0.34 | 0.57 | 0.34 | 0.41 | 0.13 | 0.52 | 0.31 | 0.44 | 0.56 | 0.1 | 0.33 | 0.44 | 0.48 | 0.05 | 0.48 |
| Average score | 0.01 | 0.17 | 0.06 | 0.1 | 0.1 | 0.17 | 0.29 | 0.14 | 0.24 | 0.18 | 0.21 | 0.03 | 0.23 | 0.07 | 0.21 | 0.25 | 0.05 | 0.12 | 0.23 | 0.23 | 0.01 | 0.17 |

\*Milestone Average

#Near-term Average