



DEPARTMENT OF DEFENSE (AFHSB) Seasonal Influenza Surveillance Summary

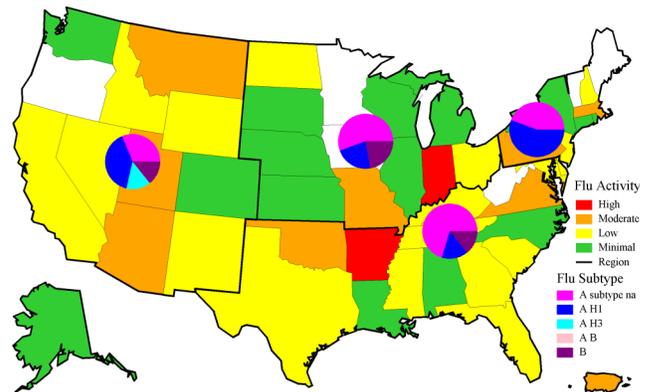


Northern Command -- Week 10 (06 Mar 2016—12 Mar 2016)

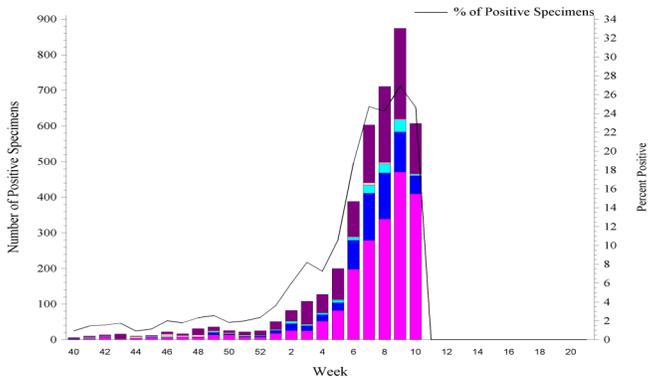
In NORTHCOM during week 10^{1,2}

- ◆ Influenza activity decreased this week and ranged from minimal to low for the majority of states.
- ◆ The percentage of outpatient visits due to ILI continued to decrease and was similar to previous seasons.
- ◆ The percentage of positive lab tests remained high at 16.7% for service members and 24.7% for beneficiaries.
- ◆ There were 9 beneficiary and 1 service member influenza hospitalizations (RME) reported for week 10. RMEs for week 09 increased to 21 among beneficiaries.

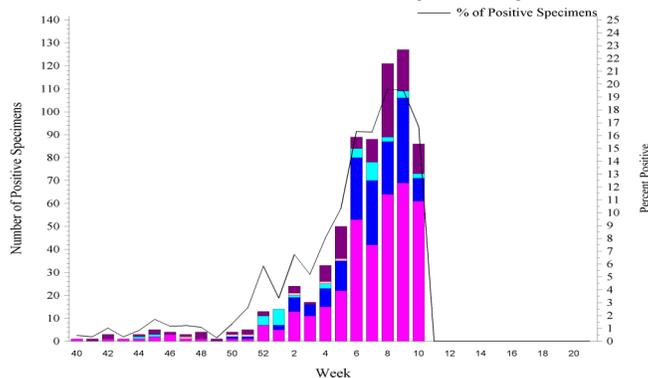
NORTHCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



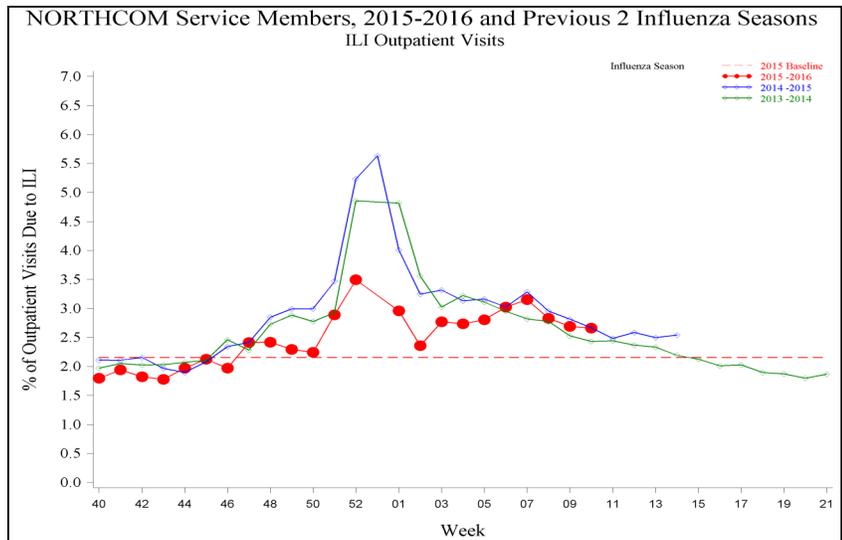
NORTHCOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



NORTHCOM Service Members, Influenza Positive Specimens Reported to AFHSB



| 2015 – 2016 NORTHCOM Season Totals ^{1,2} | | | | | | |
|---|--------|--------|-----------|-------|----|--------------------|
| | A/H1N1 | A/H3N2 | A/Untyped | Flu B | AB | Overall % Positive |
| Service Members | 161 | 35 | 375 | 120 | 6 | 8.08 |
| Dependents | 598 | 129 | 1991 | 1212 | 68 | 11.60 |



- ◆ NHRC laboratory-confirmed influenza cases, US Military Basic Trainees: As of Week 10

| | Week 52 ³ | | | | 2015 – 2016 Recruit Season Totals ³ | | | | No. Tested |
|---------------------------|----------------------|--------|--------------|-------|--|--------|--------------|-------|------------|
| | A/H1N1 | A/H3N2 | A/unsubtyped | Flu B | A/H1N1 | A/H3N2 | A/unsubtyped | Flu B | |
| Ft Benning | | | | | | | 1 | 1 | 74 |
| Ft Jackson | | | | | | | 2 | | 87 |
| Ft Leonard Wood | | | | | | | 4 | | 88 |
| NRTC Great Lakes | | | | | | | 2 | | 28 |
| Lackland AFB | | | | | | | | | 24 |
| MCRD Parris Island | | | | | | | 4 | | 68 |
| MCRD San Diego | | | | | | 12 | | 1 | 157 |
| CGTC Cape May | | | | | | 3 | | 7 | 38 |
| Total | 0 | 0 | 0 | 0 | 0 | 15 | 13 | 9 | 564 |

¹AFHSB, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

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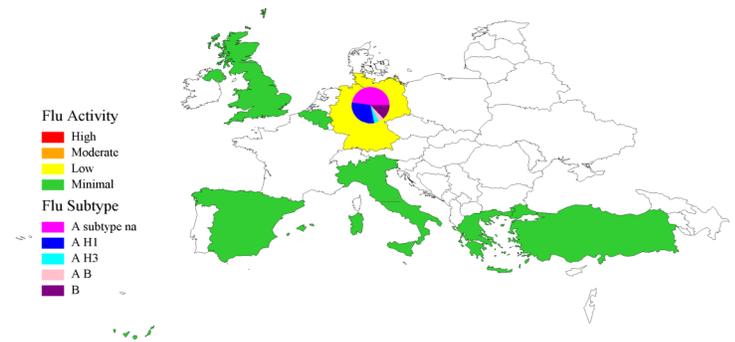


European Command -- Week 10

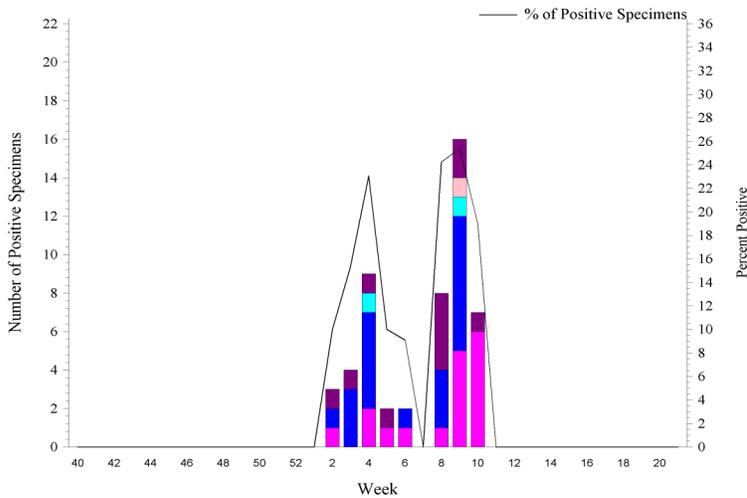
In EUCOM during week 10^{4,5}

- ◆ Influenza activity was minimal across EUCOM with the exception of Germany which had low activity.
- ◆ The percentage of outpatient visits due to ILI decreased slightly and remained below previous seasons.
- ◆ The percentage of positive lab tests for week 10 was 18.9% for service members and 10.0% for beneficiaries.
- ◆ Influenza A/H1N1 viruses continue to predominate this season.

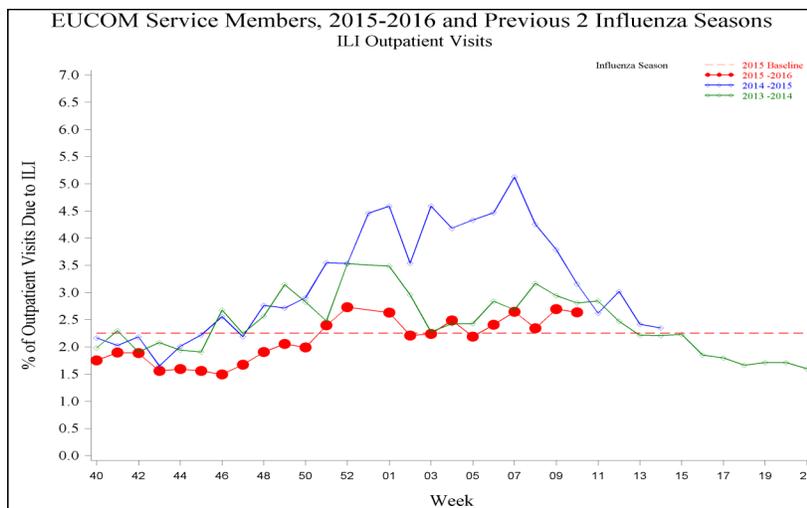
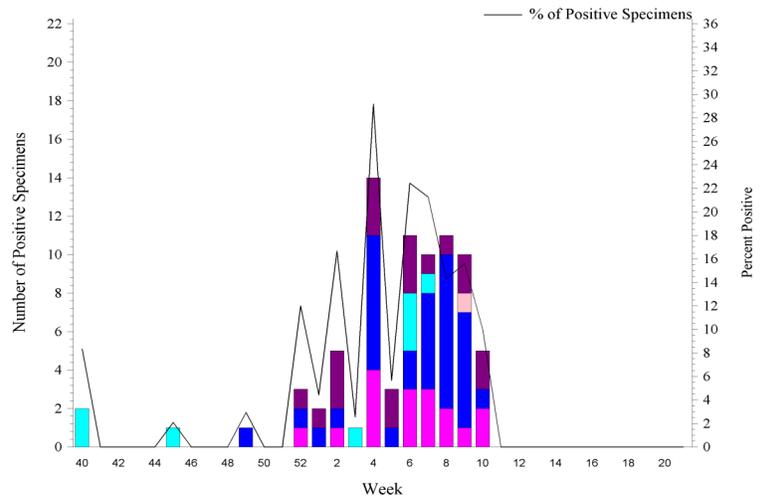
EUCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



EUCOM Service Members, Influenza Positive Specimens Reported to AFHSB



EUCOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



| 2015-2016 EUCOM Season Totals ^{1,4,5} | | | | | | |
|--|--------|--------|-----------|-------------|----|--------------------|
| | A/H1N1 | A/H3N2 | A/Untyped | Influenza B | AB | Overall % Positive |
| Service Members | 20 | 2 | 17 | 11 | 1 | 10.49 |
| Dependents | 34 | 8 | 17 | 19 | 1 | 8.06 |

¹AFHSB, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

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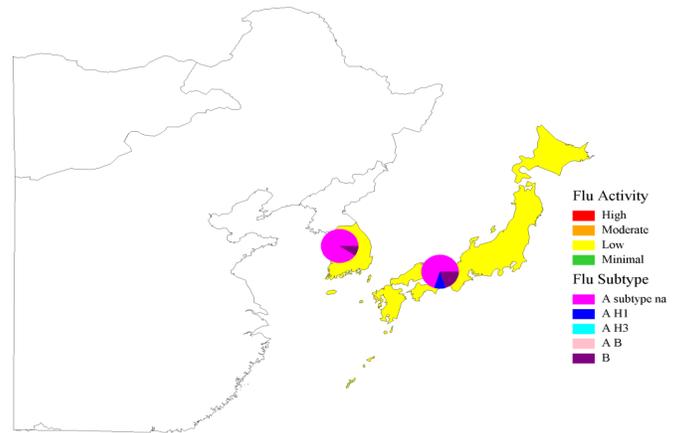


Pacific Command -- Week 10

In PACOM during week 10^{1,6,7}

- ◆ Influenza activity remained low across PACOM with the exception of Guam which had minimal activity.
- ◆ The percentage of outpatient visits due to ILI continued to decrease and dropped below baseline during week 10.
- ◆ The percentage of positive lab tests continued to increase to 28.6% for service members and 41.9% for beneficiaries.
- ◆ One beneficiary had an influenza hospitalization (RME) reported for week 10.

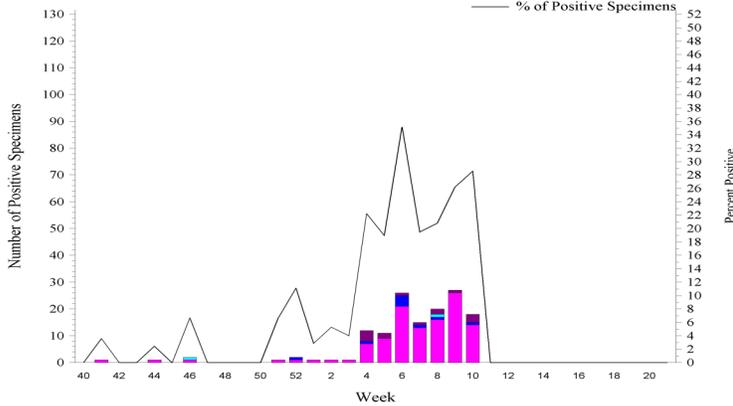
PACOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks South Korea and Japan



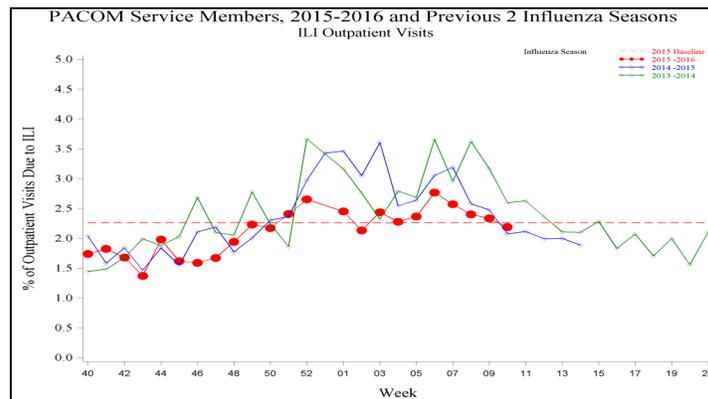
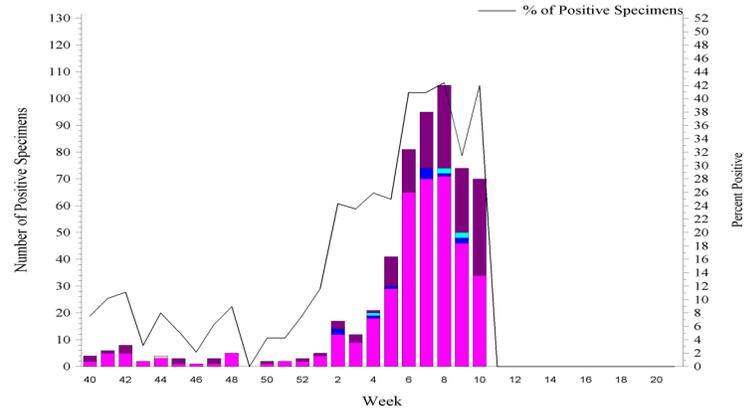
| PACOM: Guam and Hawaii Influenza Activity and HL7 Test Positive (MAP: SM+BN, 2 wks) | | | | | | |
|---|--------------------|----------|-------|-----------|---|----|
| Area Name | Influenza Activity | HL7 Type | | | | |
| | | A(H1) | A(H3) | A Untyped | B | AB |
| Guam | Minimal | 0 | 0 | 16 | 1 | 0 |
| Hawaii* | Low | 0 | 0 | 43 | 4 | 0 |

*Hawaii HL7 Type counts may include samples received from Guam, but tested in Hawaii

PACOM Service Members, Influenza Positive Specimens Reported to AFHSB



PACOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



| 2015-2016 PACOM Season Totals ^{1,6,7} | | | | | | |
|--|--------|--------|-----------|-------|--------|--------------------|
| | A/H1N1 | A/H3N2 | A/Untyped | Flu B | Flu AB | Overall % Positive |
| Service Members | 9 | 2 | 114 | 14 | 0 | 14.79 |
| Dependents | 11 | 5 | 388 | 159 | 1 | 25.80 |

¹AFHSB, ²USAFSAM, ³NHRC, ⁴LRMC, ⁵PHCR-E, ⁶AFRIMS, ⁷NMRC-A, ⁸USAMRU-K, ⁹NAMRU-3, ¹⁰NAMRU-6

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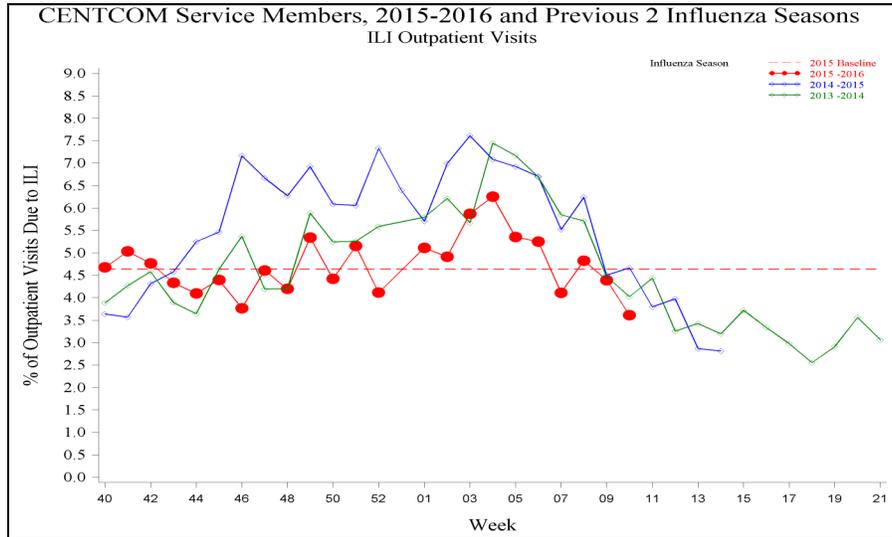


Central and Africa Commands -- Week 10

In CENTCOM and AFRICOM during week 10^{1,8,9}

- ◆ Influenza activity remained minimal across CENTCOM and AFRICOM.
- ◆ The percentage of outpatient visits due to ILI continued to decrease and remained below baseline.

CENTCOM, Influenza Activity, During the Last 2 Weeks



Southern Command -- Week 10

In SOUTHCOM during week 10¹⁰

- ◆ Influenza activity in Honduras was minimal based on DMSS data.

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Description:

Maps, figures and tables are stratified by Combatant Commands (CCMD). The map provides a measure of influenza activity by state or country within each CCMD for the past two weeks for service members. Influenza activity is defined by the percentage of outpatient visits associated with an Influenza-like Illness (ILI) for each week compared to baseline levels of influenza activity. Additionally, a pie graph by US region or country is generated to display the distribution of influenza types and subtype identified from positive laboratory tests for the past two weeks combined.

Influenza activity: Percentage of Outpatient Visits Associated with ILI:

The percentage of all outpatient visits for ILI is calculated each week for all service members, regardless of component. These data are presented as a map of the past two weeks' activity and a figure to display the entire season's data compared to the two prior seasons and baseline. For the map, the activity level compares the mean reported percent of visits due to ILI for the past two weeks to the mean reported percent of visits due to ILI during baseline weeks. Baseline weeks are defined as non-influenza weeks (weeks 22-39) over the past 3 years.

There are four activity levels reported on each map. The activity level corresponds to the number of standard deviations (SD) below, at or above the mean for the current week compared to the mean of the baseline weeks. Activity levels are classified as minimal, low, moderate, and high. Minimal activity corresponds to an influenza percentage that is less than 2 SD above the mean. Low activity corresponds to an influenza percentage that is equal to or greater than 2 SD above the mean, but less than 4 SD above the mean. Moderate activity corresponds to an influenza percentage that is equal to or greater than 4 SD above the mean, but less than 6 SD above the mean. High activity corresponds to an influenza percentage that is equal to or greater than 6 SD above the mean.

Influenza Positive Specimens:

Lab results from PCR, viral culture, and rapid influenza assays are reported. Although the inclusion of rapid tests may underestimate the weekly and cumulative percent positive estimates due to false negatives, visibility of the positive rapid results provides valuable information for this surveillance report. Influenza types/subtypes are categorized as influenza A not subtyped (A subtype na), influenza A/H1 (A H1), influenza A/H3 (A H3), influenza A and B co-infection (A B), and influenza B (B).

Map: Each US region or country with available data contains a pie chart that displays the distribution of influenza types and subtypes for that area for the past two weeks combined. Two weeks of data are combined instead of using just the current week's data due to delays in reporting of laboratory results.

Figure and Table: Each week, using the total number of influenza laboratory tests performed and the positive test results, the proportions positive for each serotype of influenza are calculated for service members and dependents separately.

Data Sources and Case Definitions:

Medical encounter and demographic data from the Armed Forces Health Surveillance Branch's (AFHSB) Defense Medical Surveillance System (DMSS) are used to generate this report. In addition, health-level 7 (HL-7) format laboratory data is provided by the Navy and Marine Corps Public Health Center (NMCPHC) EpiData Center Division. For the past seasons and baseline calculations, ICD-9 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza activity based on ICD-9 codes is defined using the combined codes for ILI (79.99, 382.9, 460, 461.9, 465.8, 465.9, 466.0, 486, 487.0, 487.1, 487.8, 488, 490, 780.6, or 786.2). For the current season, ICD-10 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza activity based on ICD-10 codes is defined using the combined codes for ILI (B97.89, H66.9, H66.90, H66.91, H66.92, H66.93, J00, J01.9, J01.90, J06.9, J09, J09.X, J09.X1, J09.X2, J09.X3, J09.X9, J10, J10.0, J10.00, J10.01, J10.08, J10.1, J10.2, J10.8, J10.81, J10.82, J10.83, J10.89, J11, J11.0, J11.00, J11.08, J11.1, J11.2, J11.8, J11.81, J11.82, J11.83, J11.89, J12.89, J12.9, J18, J18.1, J18.8, J18.9, J20.9, J40, R05, R50.9). An individual can only be counted as a case once per week.

NORTHCOM Regions:

The regions on the NORTHCOM map (bold, black outlines) are defined using the four US Census regions, with the exception of Hawaii and Guam which are a part of PACOM. *Northeast:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, New Jersey, New York, Pennsylvania, Puerto Rico, and the U.S. Virgin Islands. *South:* Delaware, the District of Columbia, Maryland, Virginia, West Virginia, Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, Arkansas, Louisiana, Texas., and Oklahoma. *Midwest:* Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin, Iowa, Kansas, Missouri, Nebraska, North Dakota, and South Dakota. *West:* New Mexico, Colorado, Montana, Utah, Wyoming, Arizona, California, Nevada, Alaska, Idaho, Oregon, and Washington.

(All data are preliminary and subject to change as updated data is received)

[¹AFHSB](#), [²USAFSAM](#), [³NHRC](#), [⁴LRMC](#), [⁵PHCR-E](#), [⁶AFRIMS](#), [⁷NMRC-A](#), [⁸USAMRU-K](#), [⁹NAMRU-3](#), [¹⁰NAMRU-6](#)

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