



# DEPARTMENT OF DEFENSE (AFHSC) Seasonal Influenza Surveillance Summary

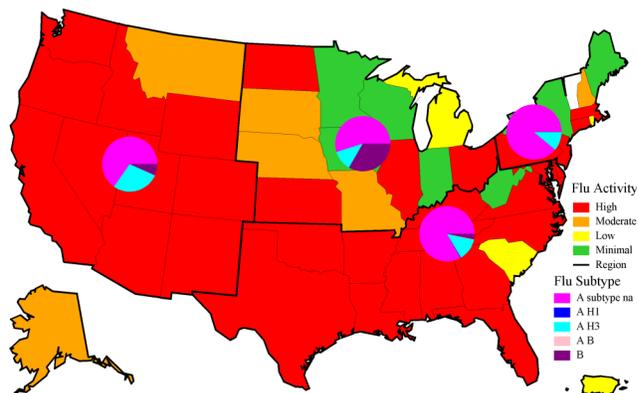
## Northern Command -- Week 01 (04 Jan—10 Jan 2014)



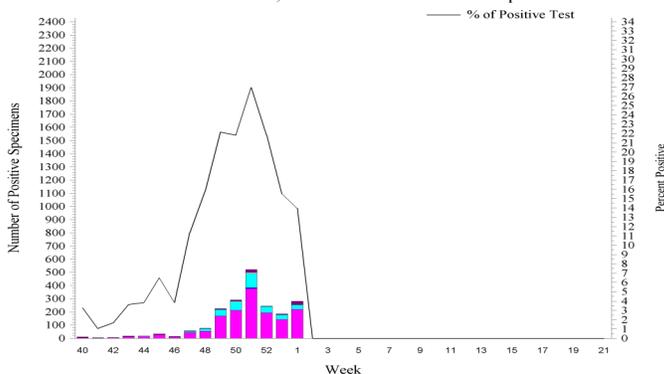
In NORTHCOM during week 01<sup>1,2</sup>

- ◆ There was widespread influenza activity throughout NORTHCOM.
- ◆ A/H3N2 remains the predominant virus.
- ◆ ILI and P&I activity in service members decreased but was above baseline.
- ◆ The cumulative percentages of positive lab tests was stable from week 53 to week 01. The rates were 15.9% for service members and 17.3% for dependents.
- ◆ As of 08 January, immunization coverage among DoD service members reached 93%.

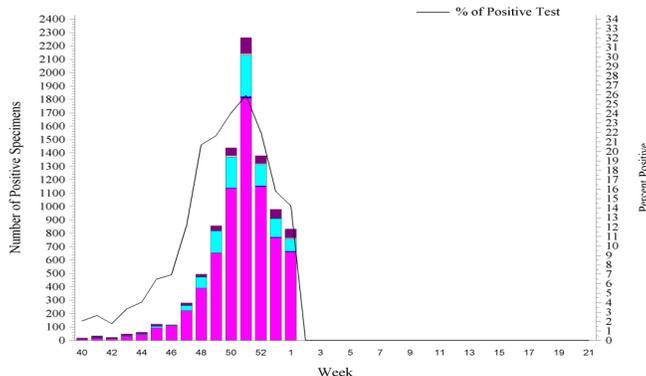
NORTHCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



NORTHCOM Service Members, Influenza Positive Tests Reported to AFHSC



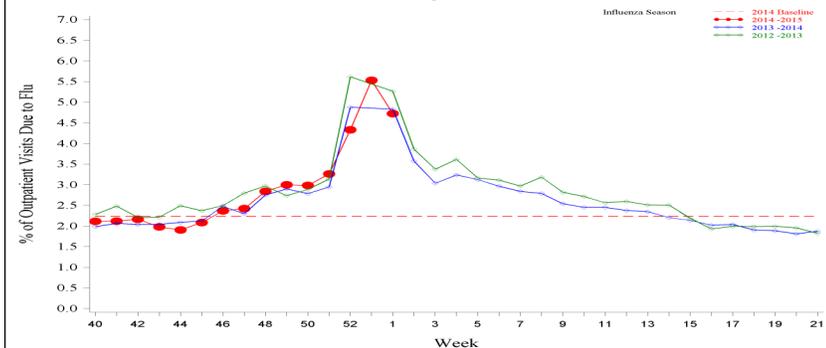
NORTHCOM Beneficiaries, Influenza Positive Tests Reported to AFHSC



2014 – 2015 NORTHCOM Season Totals<sup>1,2</sup>

	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	9	378	1488	96	15.9
Dependents	37	1252	7096	504	17.3

NORTHCOM Service Members, 2014-2015 and Previous 2 Influenza Seasons ILI and P&I Outpatient Visits



Immunization Coverage for all Commands (As of 08 January 2015)

All components	All Services	Army	Marines	Navy	Coast Guard	Air Force
Seasonal Influenza Vaccine	93%	91%	89%	93%	95%	97%

Sources: Immunization Healthcare Branch (DHA), ARMY-MEDPROS, MARINES-MRRS, NAVY-MRRS, COAST GUARD-MRRS, AIR FORCE-AFCITA

- ◆ NHRC laboratory-confirmed influenza cases, US Military Basic Trainees:

	Week 53 <sup>3</sup>				2014 – 2015 Recruit Season Totals <sup>3</sup>			
	A/H1N1	A/H3N2	A/unsubtyped	Flu B	A/H1N1	A/H3N2	A/unsubtyped	Flu B
<b>Ft Benning</b>						6		
<b>Ft Jackson</b>						1		
<b>Ft Leonard Wood</b>							14	
<b>Lackland AFB</b>								
<b>MCRD Parris Island</b>								2
<b>MCRD San Diego</b>		11			2	31		
<b>CGTC Cape May</b>								
<b>Total</b>	0	11	0	0	2	52	0	2

<sup>1</sup>AFHSC, <sup>2</sup>USAFSAM, <sup>3</sup>NHRC, <sup>4</sup>LRLMC, <sup>5</sup>PHCR-E, <sup>6</sup>AFRIMS, <sup>7</sup>NMRC-A, <sup>8</sup>USAMRU-K, <sup>9</sup>NAMRU-3, <sup>10</sup>NAMRU-6

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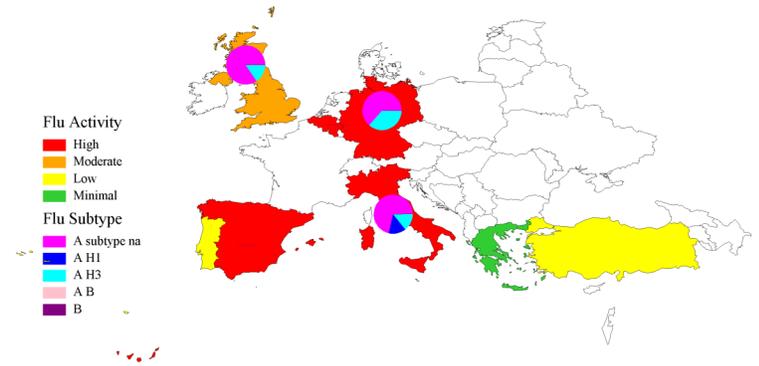


### European Command -- Week 01

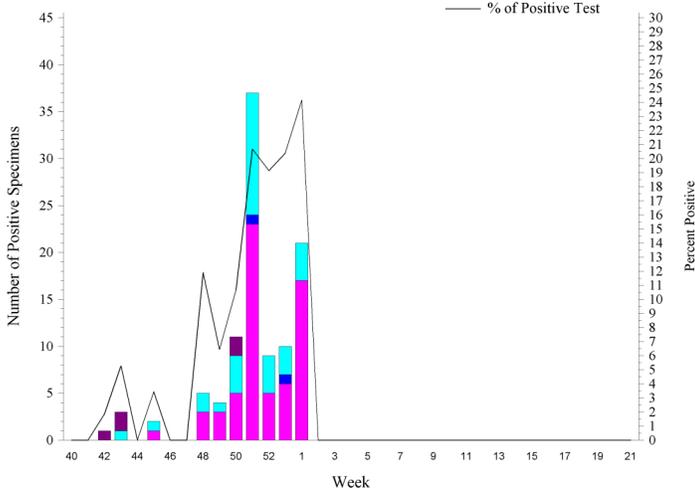
In EUCOM during week 01<sup>1,4,5</sup>

- ◆ A substantial increase in ILI visits has been observed in weeks 53 and 01.
- ◆ Moderate to high influenza activity was seen for the majority of EUCOM.
- ◆ The predominant virus circulating has been A/H3N2<sup>5</sup>.
- ◆ ILI and P&I activity increased and was above baseline and previous seasons.
- ◆ The cumulative percentage of positive lab tests for service members and dependents was 10.0% and 7.9%, respectively.

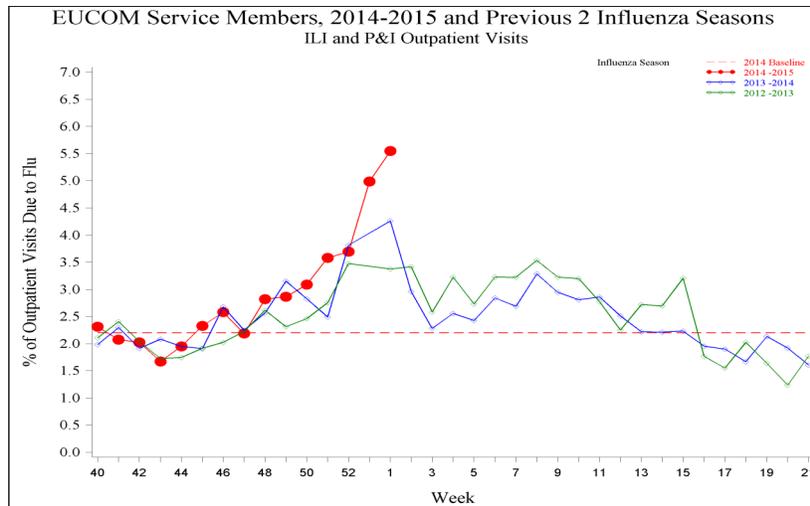
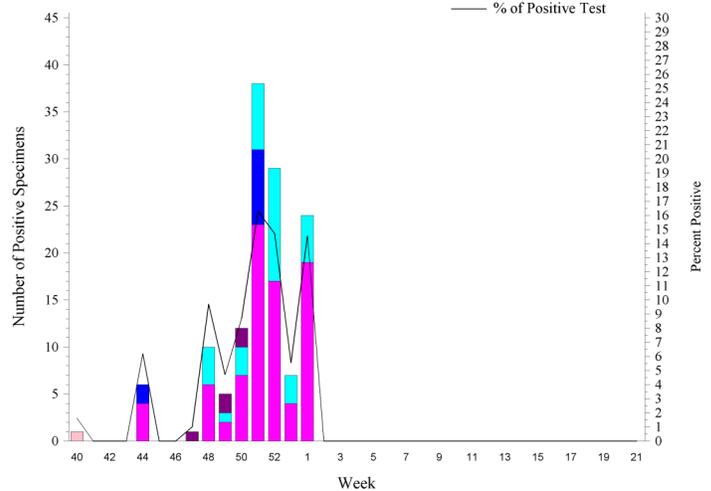
EUCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



EUCOM Service Members, Influenza Positive Tests Reported to AFHSC



EUCOM Beneficiaries, Influenza Positive Tests Reported to AFHSC



2014-2015 EUCOM Season Totals <sup>1,4,5</sup>						
	A/H1N1	A/H3N2	A/Untyped	Influenza B	AB	% Positive
Service Members	2	33	63	5	0	10.0
Dependents	10	35	82	5	1	7.9

<sup>1</sup>AFHSC, <sup>2</sup>USAFSAM, <sup>3</sup>NHRC, <sup>4</sup>LRMC, <sup>5</sup>PHCR-E, <sup>6</sup>AFRIMS, <sup>7</sup>NMRC-A, <sup>8</sup>USAMRU-K, <sup>9</sup>NAMRU-3, <sup>10</sup>NAMRU-6

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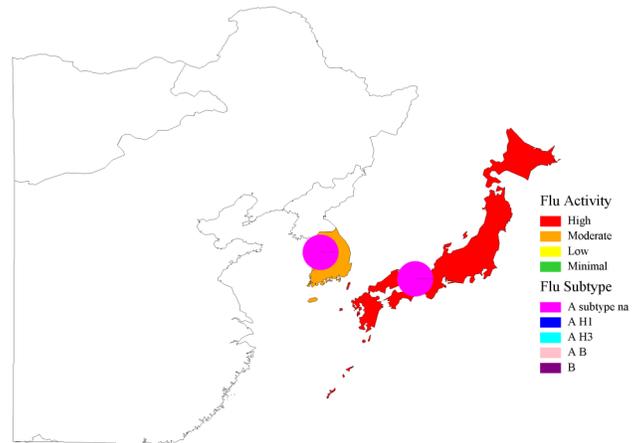


### Pacific Command -- Week 01

In PACOM during week 01<sup>1,6,7</sup>

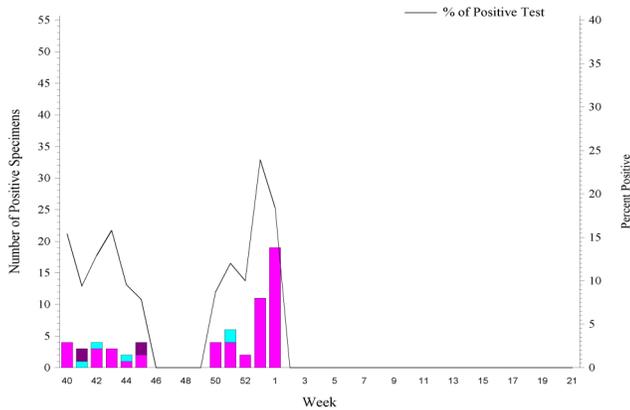
- ◆ Influenza activity increased and was high in Japan and Hawaii. Moderate flu activity was seen in South Korea.
- ◆ ILI and P&I increased and was above baseline.
- ◆ The cumulative percent of positive lab tests for service members and dependents was 11.4% and 14.6%, respectively.

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

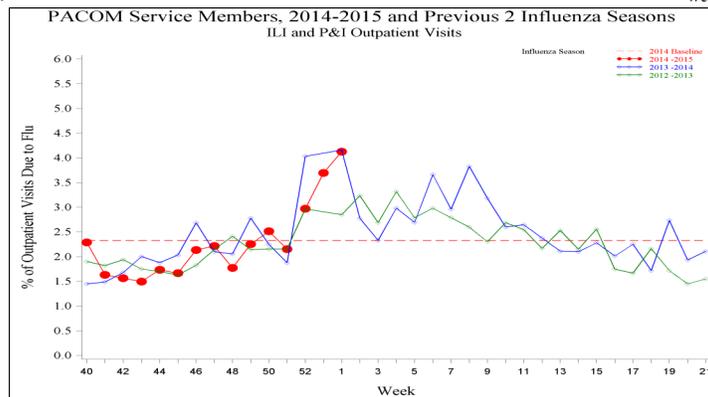
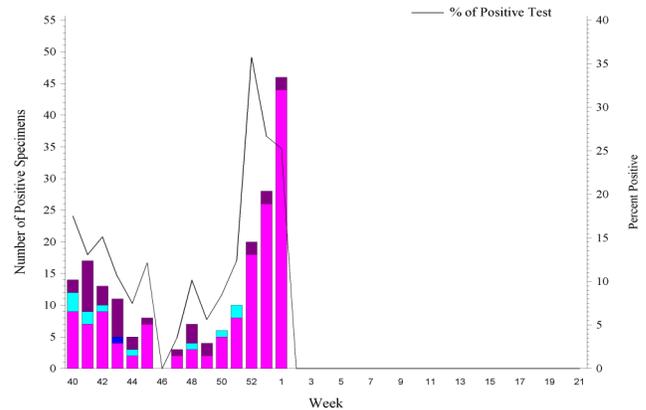


PACOM: GUAM and HI Influenza activity and HL7 Test Positive						
Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
GUAM	1: Minimal	0	0	1	0	0
HI	4: High	0	0	55	2	0

PACOM Service Members, Influenza Positive Tests Reported to AFHSC



PACOM Beneficiaries, Influenza Positive Tests Reported to AFHSC



2014-2015 PACOM Season Totals <sup>1,6,7</sup>					
	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	0	5	53	4	11.4
Dependents	1	11	146	34	14.6

<sup>1</sup>AFHSC, <sup>2</sup>USAFSAM, <sup>3</sup>NHRC, <sup>4</sup>LRMC, <sup>5</sup>PHCR-E, <sup>6</sup>AFRIMS, <sup>7</sup>NMRC-A, <sup>8</sup>USAMRU-K, <sup>9</sup>NAMRU-3, <sup>10</sup>NAMRU-6

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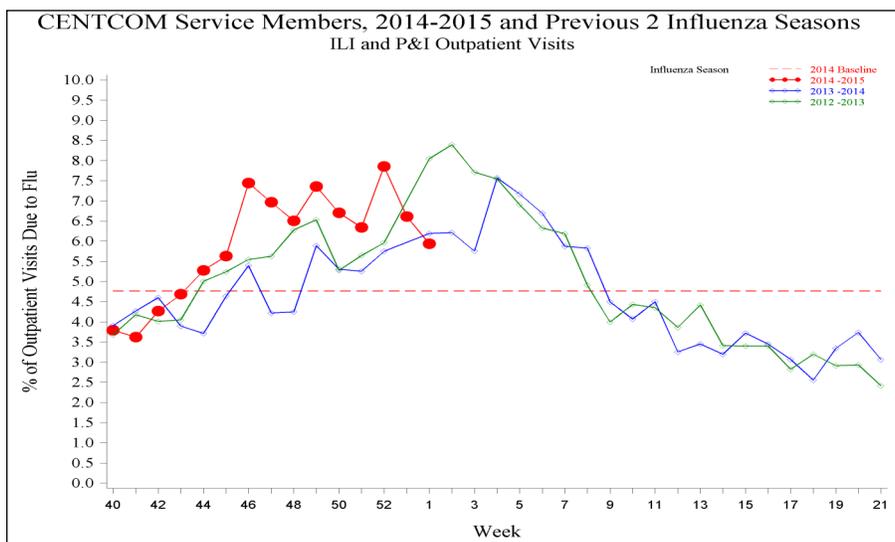
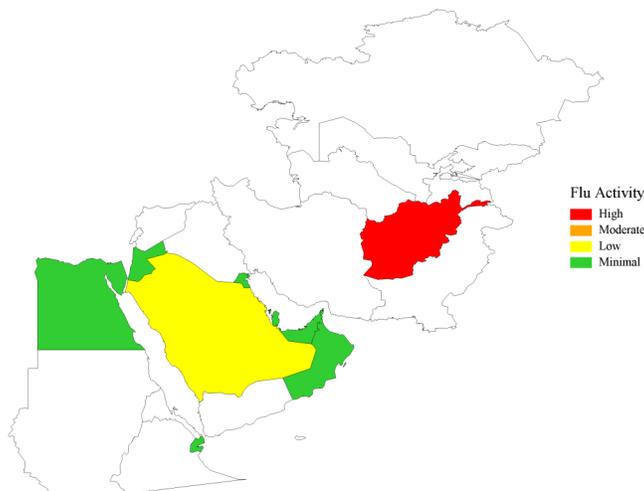


### Central and Africa Commands -- Week 01

In CENTCOM and AFRICOM during week 01<sup>1,8,9</sup>

- ◆ Influenza activity was high in Afghanistan.
- ◆ ILI and P&I activity decreased but was still above baseline.

CENTCOM, Influenza Activity, During the Last 2 Weeks



### Southern Command -- Week 01 (Local Nationals Only)

In SOUTHCOM during week 01<sup>10</sup>

- ◆ Among local nationals in SOUTHCOM, there was a marked increase in cases of A/H3N2 in weeks 46-50. Overall, the number of cases have decreased in the past two weeks.
- ◆ The WHO reports that most of the ILI and SARI activity caused by RSV has subsided.

2014-2015 SOUTHCOM Season Totals Among Local Nationals <sup>10</sup>				
	A/H1N1	A/H3N2	A/Untyped	Influenza B
Colombia	0	10	0	4
Peru	13	139	2	51

<sup>1</sup>AFHSC, <sup>2</sup>USAFSAM, <sup>3</sup>NHRC, <sup>4</sup>LRMC, <sup>5</sup>PHCR-E, <sup>6</sup>AFRIMS, <sup>7</sup>NMRC-A, <sup>8</sup>USAMRU-K, <sup>9</sup>NAMRU-3, <sup>10</sup>NAMRU-6

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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 influenza (defined as having an Influenza-like Illness (ILI) or Pneumonia and Influenza (P&I) diagnosis) 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 Influenza:**

The percentage of all outpatient visits for influenza (defined as having an ILI or P&I diagnosis) is calculated each week for (1) all service members, regardless of component and (2) all other DoD beneficiaries. This data is 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 influenza for the past two weeks to the mean reported percent of visits due to influenza 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 Tests:**

Only lab results from PCR or viral culture assays are reported. 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 Center's (AFHSC) Defense Medical Surveillance System (DMSS) are used to generate this report. In addition, health-level 7 (HL-7) laboratory data is provided by the Navy and Marine Corps Public Health Center (NMCPHC) EpiData Center Division. ICD-9 codes from outpatient encounters are used to identify influenza activity. The outcome of influenza 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) and P&I (480-488). 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)**

<sup>1</sup>AFHSC, <sup>2</sup>USAFSAM, <sup>3</sup>NHRC, <sup>4</sup>LRMC, <sup>5</sup>PHCR-E, <sup>6</sup>AFRIMS, <sup>7</sup>NMRC-A, <sup>8</sup>USAMRU-K, <sup>9</sup>NAMRU-3, <sup>10</sup>NAMRU-6

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