



# DEPARTMENT OF DEFENSE (AFHSC) Seasonal Influenza Surveillance Summary

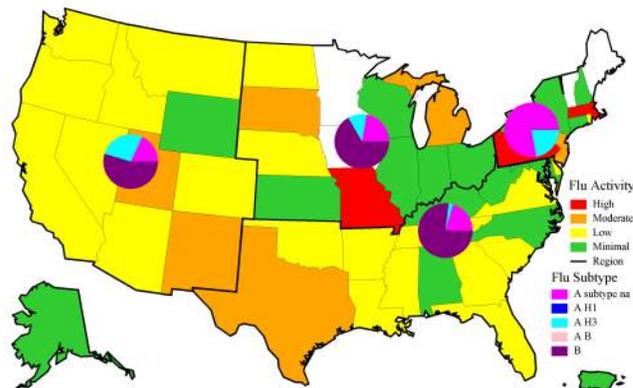


## Northern Command -- Week 12 (22 March— 28 March 2015)

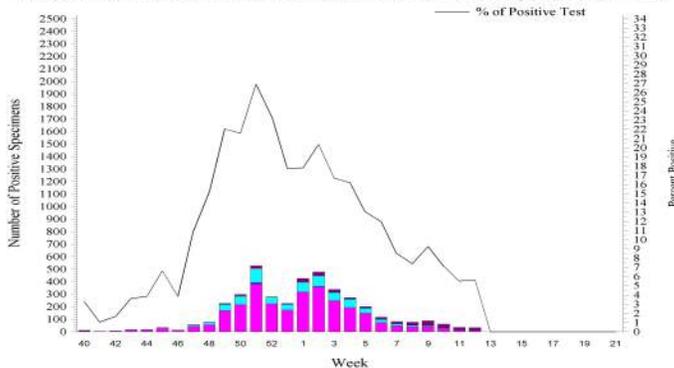
### NORTHCOM week 12<sup>1,2</sup>

- ◆ Influenza activity continues to decrease.
- ◆ While A/H3N2 viruses have been most common this season, an increase in influenza B viruses has been identified in recent weeks.
- ◆ Of those positive in week 12, 83% were identified as flu B.
- ◆ ILI and P&I activity in service members was above baseline and previous seasons.
- ◆ The cumulative percentages of positive lab tests remained stable from week 11 to week 12. The rates were 15.1% for service members and 16.1% for dependents.

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

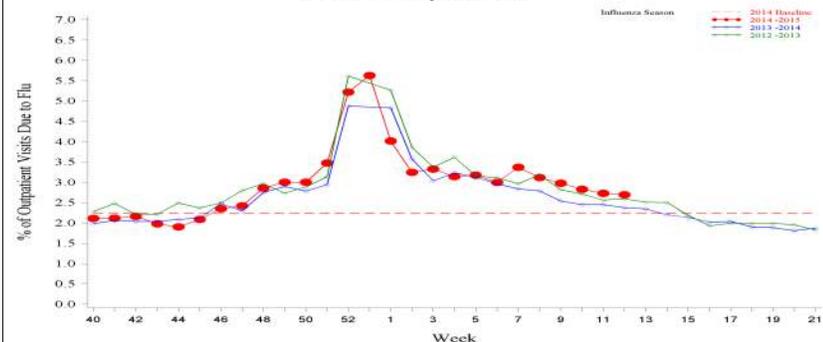


NORTHCOM Service Members, Influenza Positive Tests Reported to AFHSC

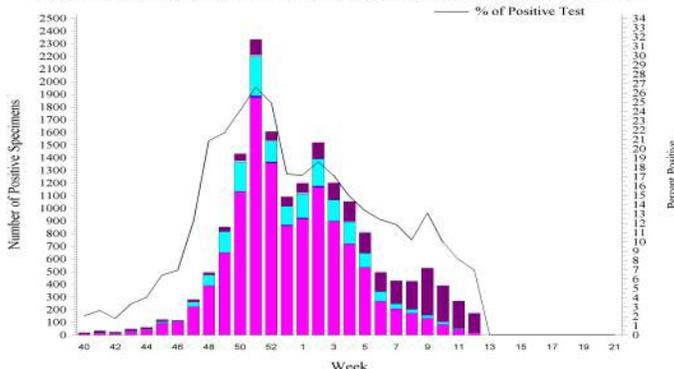


2014 – 2015 NORTHCOM Season Totals <sup>1,2</sup>					
	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	12	757	2851	374	15.0
Dependents	55	2229	11967	2680	16.0

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



NORTHCOM Beneficiaries, Influenza Positive Tests Reported to AFHSC



Immunization Coverage for all Commands (As of 05 March 2015)						
All components	All Services	Army	Marines	Navy	Coast Guard	Air Force
Seasonal Influenza Vaccine	95%	93%	95%	96%	97%	99%

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 12 <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>						18		
<b>Ft Jackson</b>						16		
<b>Ft Leonard Wood</b>						13		
<b>NRTC Great Lakes</b>				1		26		
<b>Lackland AFB</b>								
<b>MCRD Parris Island</b>						12		2
<b>MCRD San Diego</b>					3	48		4
<b>CGTC Cape May</b>						5		
<b>Total</b>	0	0	0	1	3	138	0	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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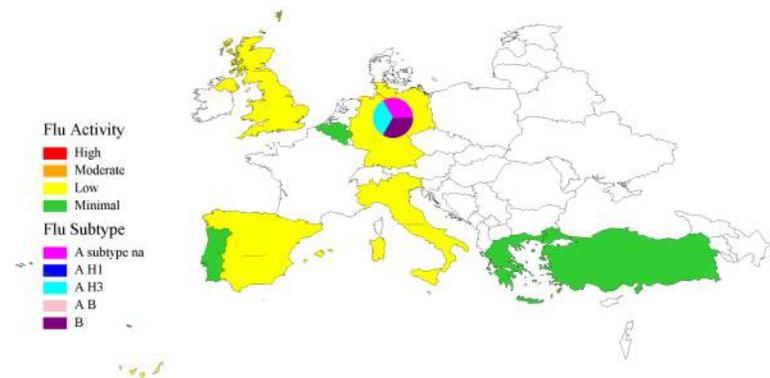


### European Command -- Week 12

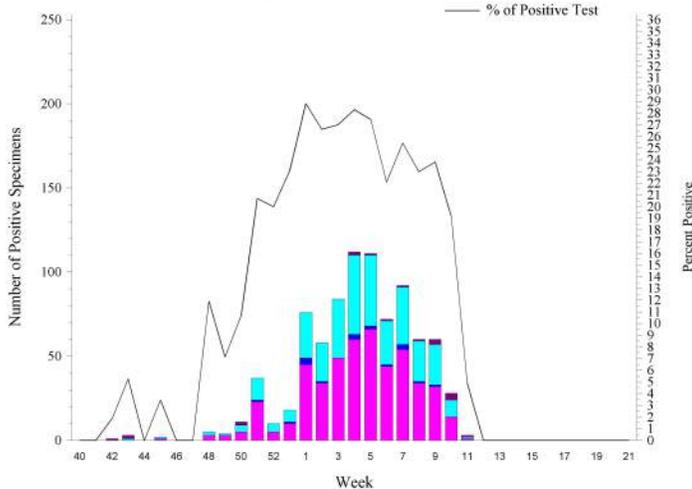
#### EUCOM week 12<sup>1,2,4,5</sup>

- ◆ Influenza activity seemed to have peaked in many countries.
- ◆ A/H3N2 viruses continue to be the predominant subtype.
- ◆ 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 21.2% and 19.5%, respectively.

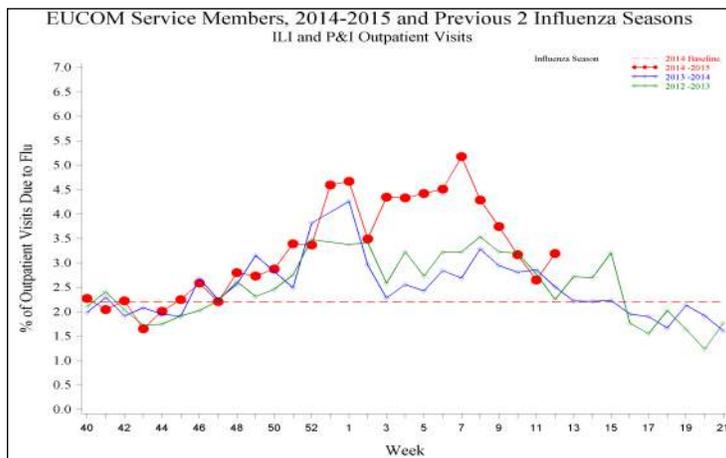
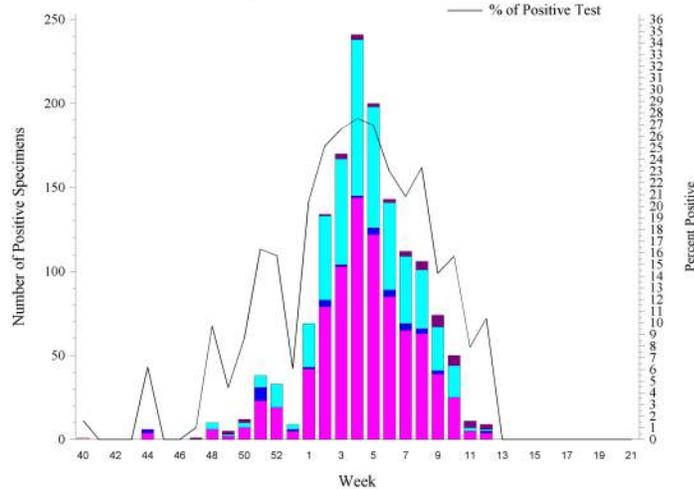
EUCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



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	18	327	483	19	0	21.2
Dependents	36	511	842	44	1	19.5

<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 12

#### PACOM week 12<sup>1,2,6,7</sup>

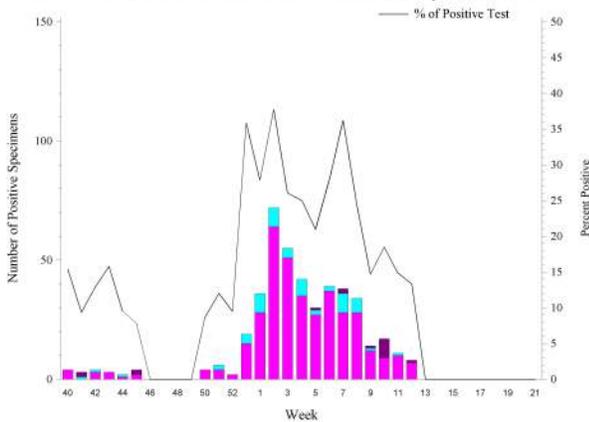
- ◆ Moderate influenza activity was seen in Hawaii and there was minimal activity throughout the rest of PACOM.
- ◆ ILI and P&I activity remained stable and was below baseline.
- ◆ The cumulative percent of positive lab tests for service members and dependents was 22.4% and 25.8%, respectively.

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

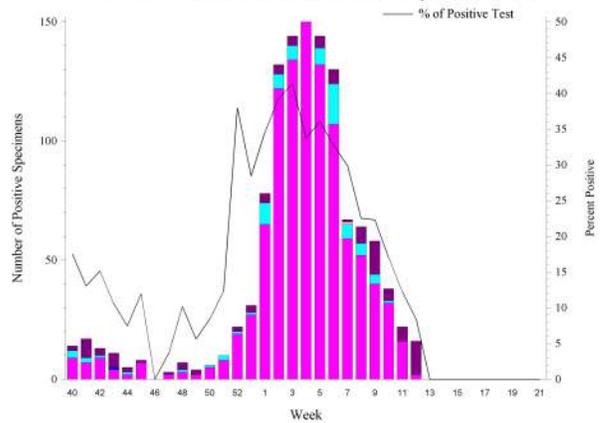


PACOM: GUAM and HI Influenza activity and HL7 Test Positive)						
Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
GUAM	1:Minimal	0	0	0	0	0
HI	3:Moderate	0	0	2	5	0

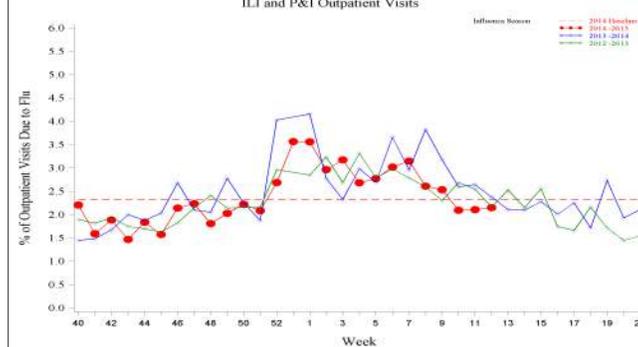
PACOM Service Members, Influenza Positive Tests Reported to AFHSC



PACOM Beneficiaries, Influenza Positive Tests Reported to AFHSC



PACOM Service Members, 2014-2015 and Previous 2 Influenza Seasons



#### 2014-2015 PACOM Season Totals<sup>1,6,7</sup>

	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	0	56	374	17	22.4
Dependents	1	88	1015	105	25.8

<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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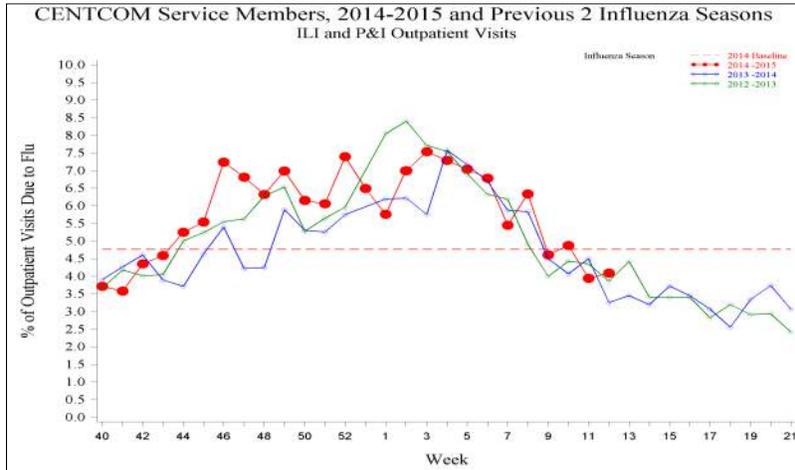
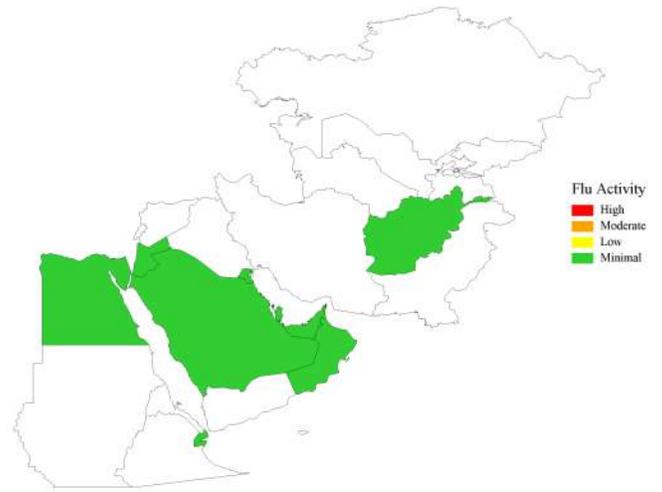


### Central and Africa Commands -- Week 12

#### CENTCOM and AFRICOM week 12<sup>1,2,8,9</sup>

- ◆ Influenza activity was minimal in CENTCOM and AFRICOM.
- ◆ ILI and P&I activity increased slightly but remained below baseline.

CENTCOM, Influenza Activity, During the Last 2 Weeks



### Southern Command -- Week 12 (Local Nationals Only)

#### In SOUTHCOM during week 12<sup>10</sup>

- ◆ Influenza activity remains low.

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	60

<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)**

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