



DEPARTMENT OF DEFENSE (AFHSC) Seasonal Influenza Surveillance Summary

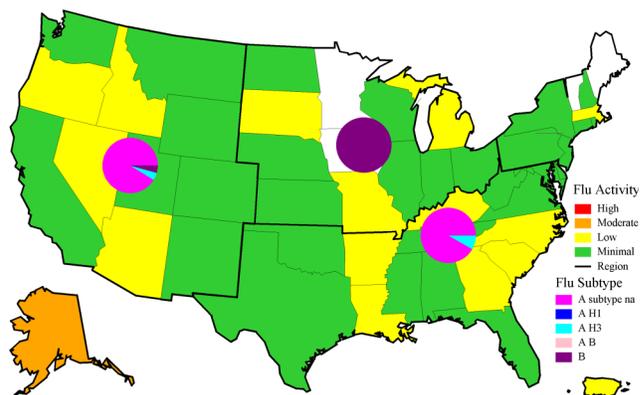


Northern Command -- Week 46 (09 Nov—15 Nov 2014)

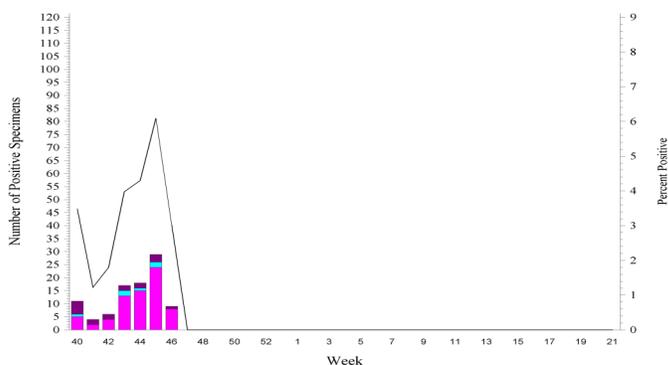
In NORTHCOM during week 46^{1,2}

- ◆ For service members, influenza activity remained low.
- ◆ ILI and P&I activity rose slightly above baseline.
- ◆ Influenza activity among recruits is low.
- ◆ Influenza A is mostly circulating throughout the Western and Eastern regions. While flu B is circulating in the Midwest.
- ◆ The percent of positive lab tests for service members was 3.6% and 3.8% for dependents.

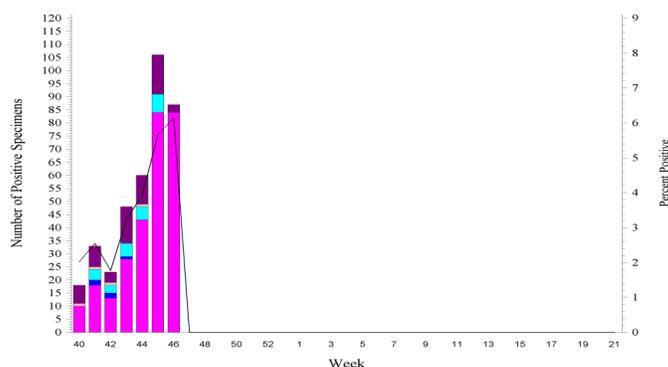
NORTHCOM Service Member, Influenza Activity and Virus Subtype



NORTHCOM Service Member, Influenza Positive Tests Reported to AFHSC



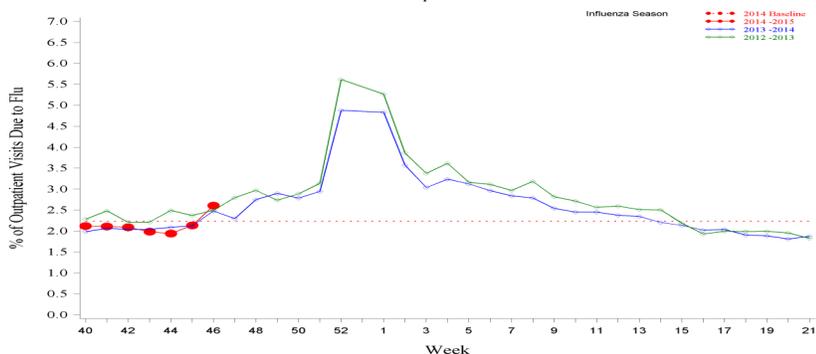
NORTHCOM Beneficiary, Influenza Positive Tests Reported to AFHSC



2014 – 2015 NORTHCOM Season Totals^{1,2}

	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	0	6	71	17	3.6
Dependents	5	24	280	62	3.8

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



Immunization Coverage (As of 13 November 14)

Active Component Only	All Services	Army	Marines	Navy	Coast Guard	Air Force
Seasonal Influenza Vaccine	77%	80%	60%	70%	87%	87%

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 46 ³				2013 – 2014 Recruit Season Totals ³			
	A/H1N1	A/H3N2	A/Untyped	Flu B	A/H1N1	A/H3N2	A/Not Subtyped	Flu B
Ft Benning								
Ft Jackson								
Ft Leonard Wood								
NRTC Great Lakes								
Lackland AFB								
MCRD Parris Island								2
MCRD San Diego								
CGTC Cape May								
Total	0	0	0	0	0	0	0	2

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

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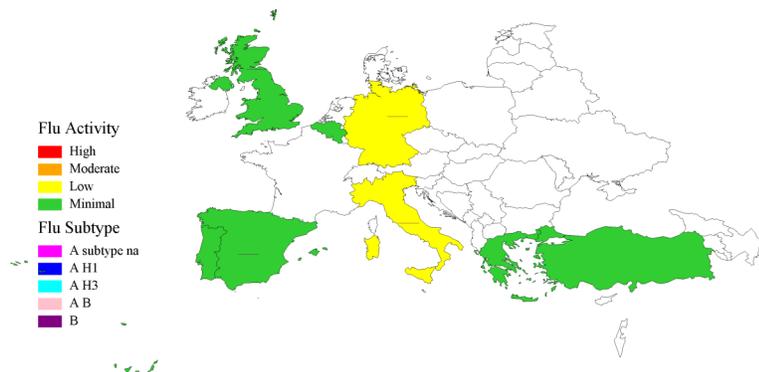


European Command -- Week 46

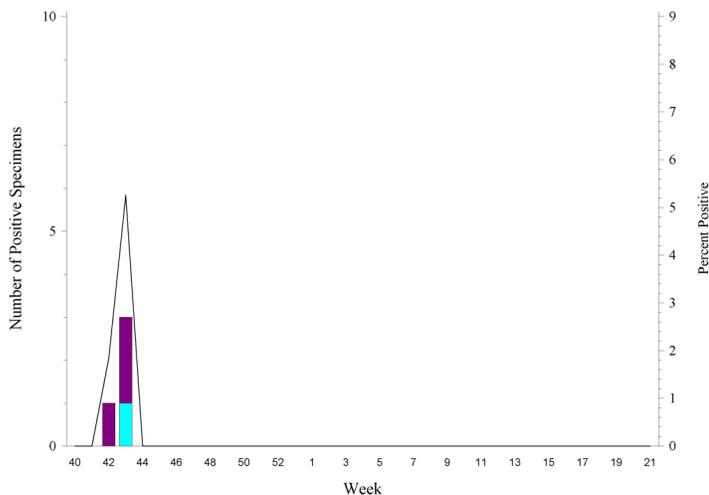
In EUCOM during week 46^{1,4,5}

- ◆ Among service members, influenza activity was low.
- ◆ ILI and P&I activity remained just above baseline for service members.
- ◆ 2 cases of A/H1 were reported (from week 45) in 2 dependents (a child and a spouse). Both cases were unvaccinated for the season^{4,5}.
- ◆ The percent of positive lab tests for service members and dependents remains low, 1.0 and 1.7, respectively.

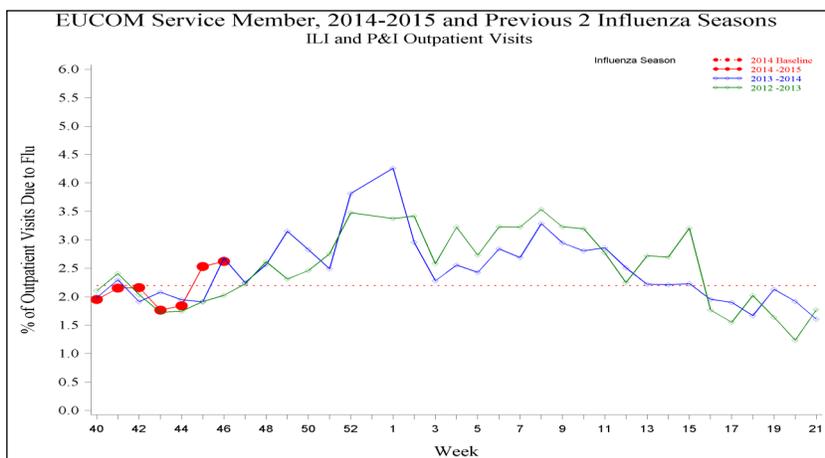
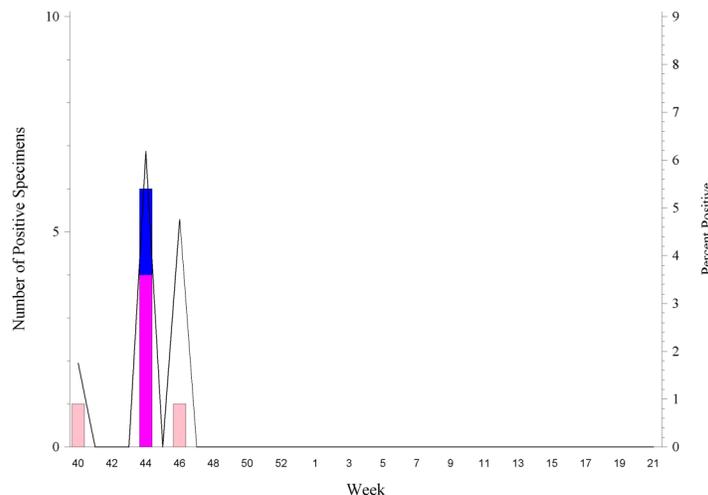
EUCOM Service Member, Influenza Activity and Virus Subtype



EUCOM Service Member, Influenza Positive Tests Reported to AFHSC



EUCOM Beneficiary, Influenza Positive Tests Reported to AFHSC



2014-2015 EUCOM Season Totals ^{1,4,5}						
	A/H1N1	A/H3N2	A/Untyped	Influenza B	AB	% Positive
Service Members	0	1	0	3	0	1.0
Dependents	2	0	4	0	2	1.7

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

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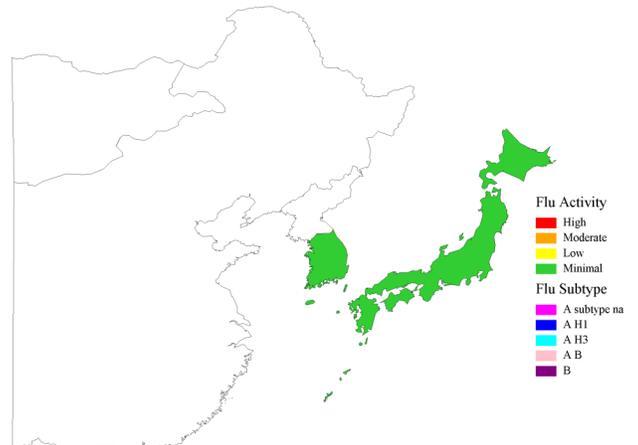


Pacific Command -- Week 46

In PACOM during week 46^{1,6,7}

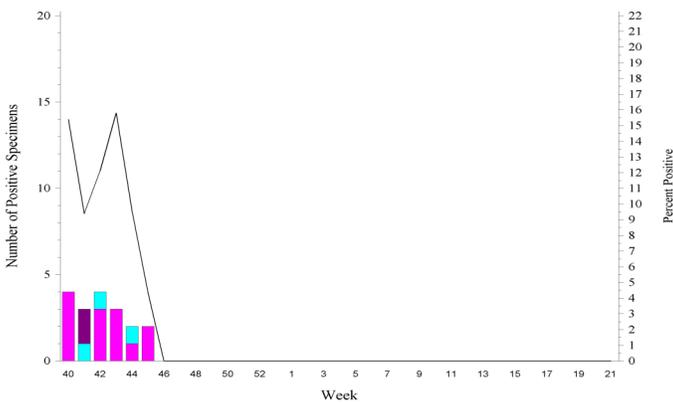
- ◆ Influenza activity is minimal and ILI and P&I remains below baseline in service members.
- ◆ The majority of cases have been influenza A/ untyped among service members.
- ◆ The percent positive for service members and dependents is 9.2 and 11.2, respectively.
- ◆ There was 1 RME among a dependent.

PACOM Service Member, Influenza Activity and Virus Subtype South Korea and Japan

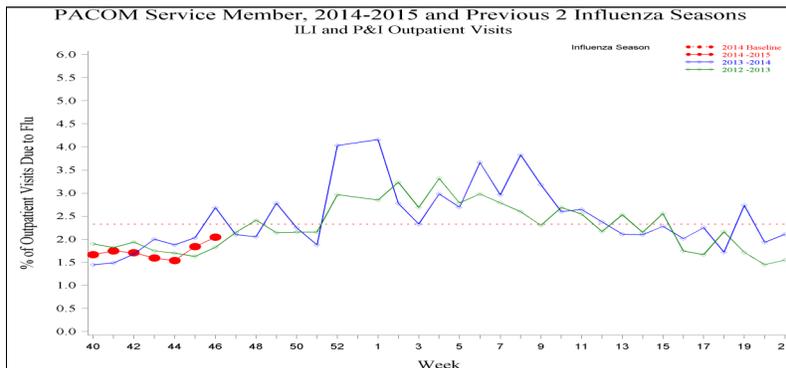
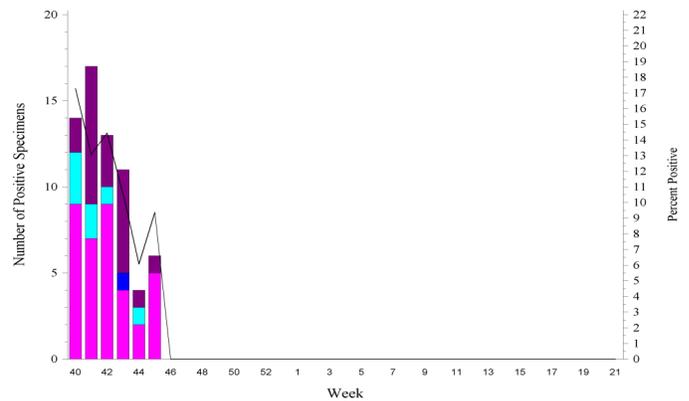


PACOM: GUAM and HI Influenza activity and HL7 Test Positive (MAP: SM+BN, 2 wks)						
Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
GUAM	1:Minimal	0	0	1	1	0
HI	2:Low	0	0	6	0	0

PACOM Service Member, Influenza Positive Tests Reported to AFHSC



PACOM Beneficiary, Influenza Positive Tests Reported to AFHSC



2014-2015 PACOM Season Totals ^{1,6,7}					
	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	0	3	13	2	9.2
Dependents	1	7	36	21	11.2

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

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Central and Africa Commands -- Week 46

In CENTCOM and AFRICOM during week 46^{1,8,9}

- ◆ CENTCOM and AFRICOM data is not available this week due to issues with the Theatre Medical Data Store data.

Southern Command -- Week 46 (Local Nationals Only)

In SOUTHCOM during week 46¹⁰

- ◆ Among local nationals in SOUTHCOM, influenza remained low and ILI activity remained within expected levels
- ◆ The WHO reports that most ILI and SARI activity is caused by respiratory syncytial virus (RSV)

2014-2015 SOUTHCOM Season Totals Among Local Nationals¹⁰

	A/H1N1	A/H3N2	A/Untyped	Influenza B
Colombia	0	0	0	0
Peru	0	15	0	8

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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 for that 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 Influenza-like Illness (ILI) or Pneumonia and Influenza (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 week's 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 a delay in reporting of laboratory results.

Figure and Table: Each week the total number of influenza laboratory tests performed and the proportion and serotype of influenza positive tests is calculated for all DoD beneficiaries (service members and dependents combined).

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 ten US Department of Health and Human Services regions, with the exception of Hawaii and Guam which are a part of PACOM. *Region 1:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont. *Region 2:* New Jersey, New York, Puerto Rico, and the U.S. Virgin Islands. *Region 3:* Delaware, the District of Columbia, Maryland, Pennsylvania, Virginia, and West Virginia. *Region 4:* Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee. *Region 5:* Illinois, Indiana, Michigan, Minnesota, Ohio, and Wisconsin. *Region 6:* Arkansas, Louisiana, New Mexico, Oklahoma, and Texas. *Region 7:* Iowa, Kansas, Missouri, and Nebraska. *Region 8:* Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming. *Region 9:* Arizona, California, Nevada. *Region 10:* Alaska, Idaho, Oregon, and Washington.

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

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