



DEPARTMENT OF DEFENSE (AFHSC) Seasonal Influenza Surveillance Summary

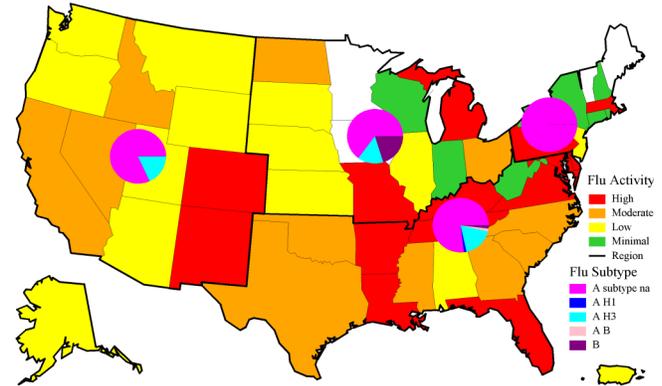
Northern Command -- Week 52 (21 Dec—27 Dec 2014)



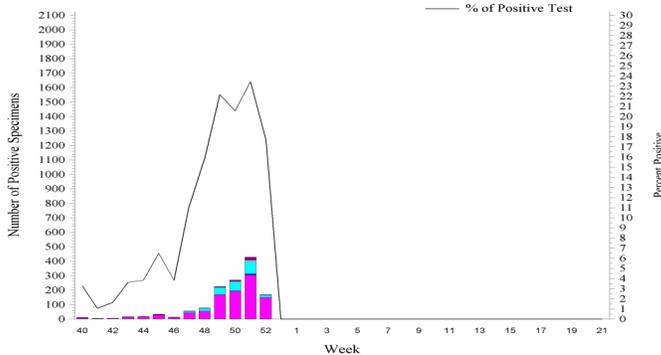
In NORTHCOM during week 52^{1,2}

- ◆ Influenza activity is high in 12 states throughout the United States.
- ◆ ILI and P&I activity in service members continued to increase and was above baseline.
- ◆ The cumulative percentages of positive lab tests continues to increase. The rates were 14.8% for service members and 17.0% for dependents.
- ◆ Influenza A/H3N2 continues to be the predominate strain circulating throughout NORTHCOM.
- ◆ As of 16 December, immunization coverage among DoD service members reached 91%.
- ◆ There was 1 RME reported among a service member.

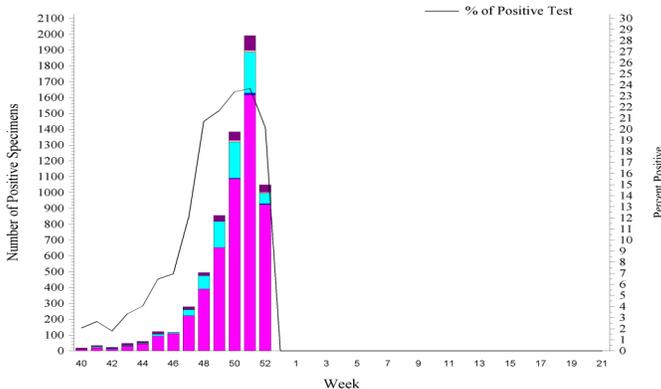
NORTHCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



NORTHCOM Service Members, Influenza Positive Tests Reported to AFHSC



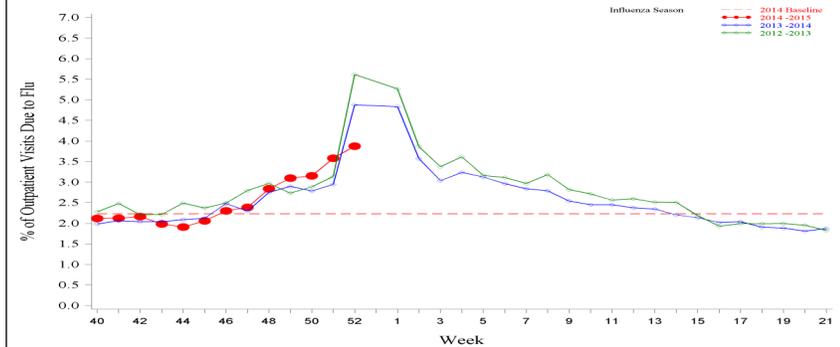
NORTHCOM Beneficiaries, Influenza Positive Tests Reported to AFHSC



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

	A/H1N1	A/H3N2	A/Untyped	Flu B	% Positive
Service Members	8	252	993	62	14.8
Dependents	27	871	5206	329	17.0

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



Immunization Coverage for all Commands (As of 17 December 14)

All components	All Services	Army	Marines	Navy	Coast Guard	Air Force
Seasonal Influenza Vaccine	91%	90%	87%	91%	94%	95%

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 51 ³				2014 – 2015 Recruit Season Totals ³			
	A/H1N1	A/H3N2	A/unsubtyped	Flu B	A/H1N1	A/H3N2	A/unsubtyped	Flu B
Ft Benning								
Ft Jackson								
Ft Leonard Wood								
NRTC Great Lakes		2				3		
Lackland AFB								
MCRD Parris Island								2
MCRD San Diego						2		
CGTC Cape May								
Total	0	2	0	0	0	5	0	2

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

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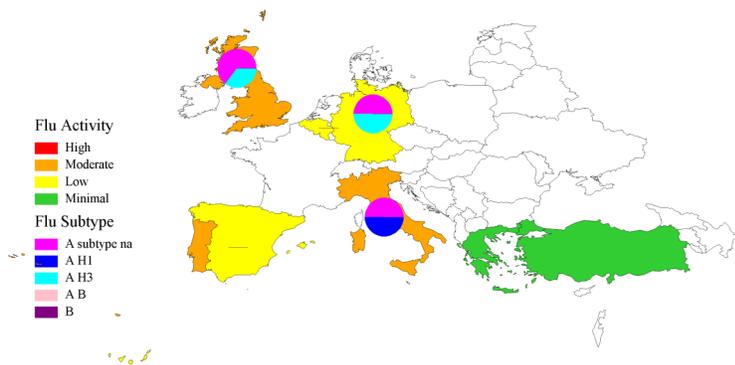


European Command -- Week 52

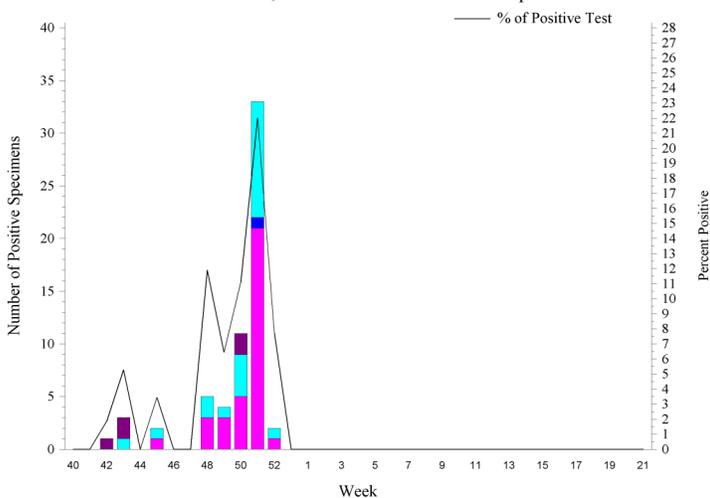
In EUCOM during week 52^{1,4,5}

- ◆ ILI and P&I activity decreased slightly but remained above baseline.
- ◆ Both A/H3N2 and A/H1N1 are circulating.
- ◆ The percentage of positive lab tests for service members and dependents increased slightly, 7.2% and 5.4%, respectively.
- ◆ There was 1 RME reported among a service member.

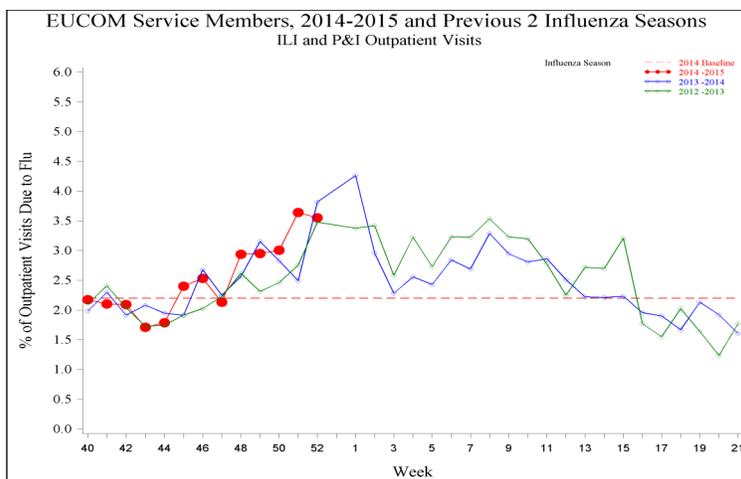
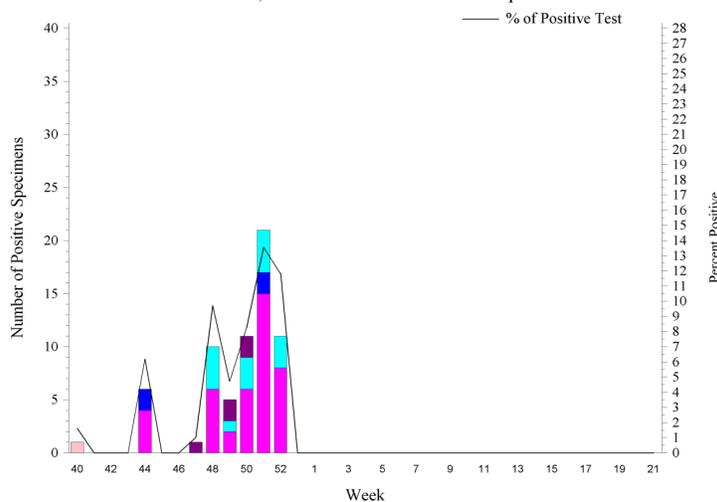
EUCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



EUCOM Service Members, Influenza Positive Tests Reported to AFHSC



EUCOM Beneficiaries, Influenza Positive Tests Reported to AFHSC



2014-2015 EUCOM Season Totals ^{1,4,5}						
	A/H1N1	A/H3N2	A/Untyped	Influenza B	AB	% Positive
Service Members	1	21	34	5	0	7.2
Dependents	4	15	41	5	1	5.4

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

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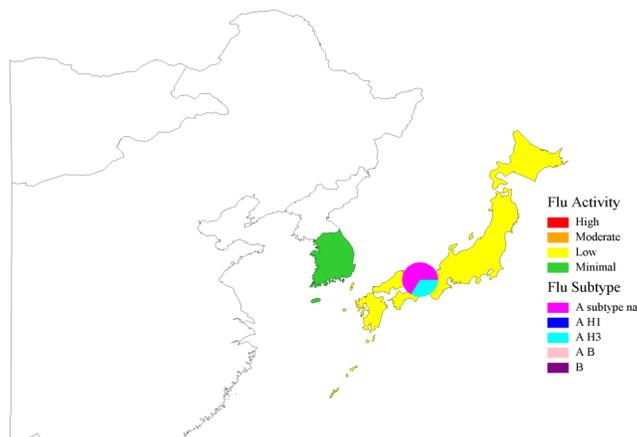


Pacific Command -- Week 52

In PACOM during week 52^{1,6,7}

- ◆ Influenza activity remained stable and was relatively low among service members.
- ◆ ILI and P&I increased slightly and was at baseline.
- ◆ The percent of positive lab tests for service members and dependents were 7.0% and 10.8%, respectively.

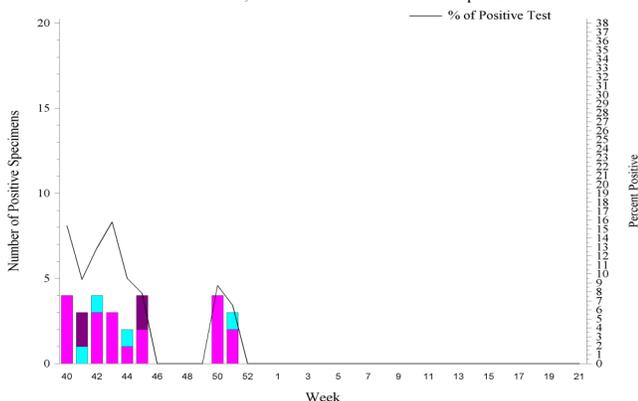
PACOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks South Korea and Japan



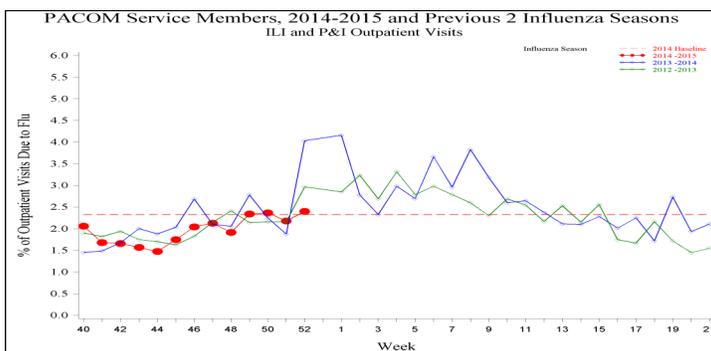
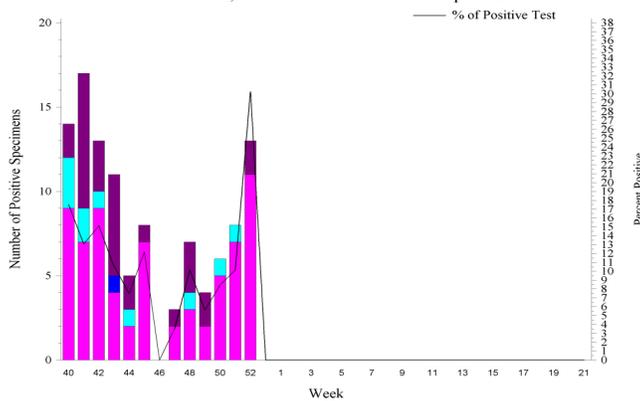
PACOM: GUAM and HI Influenza activity and HL7 Test Positive (MAP: SM+BN, 2 wks)

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	13	2	0

PACOM Service Members, Influenza Positive Tests Reported to AFHSC



PACOM Beneficiaries, 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	4	19	4	7.0
Dependents	1	10	68	30	10.8

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

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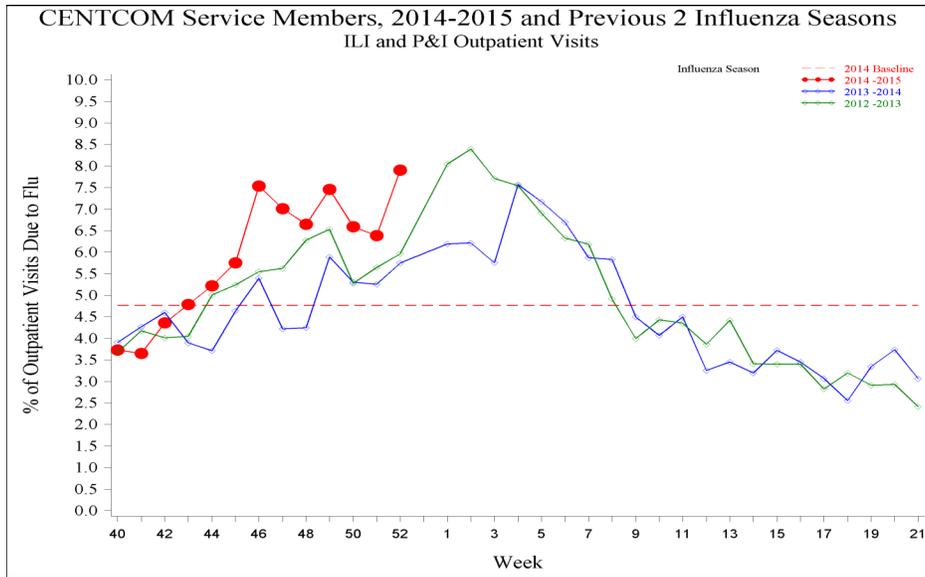
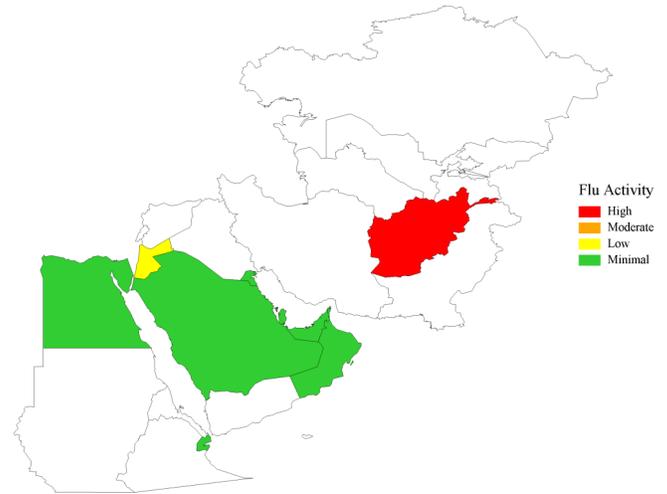


Central and Africa Commands -- Week 52

In CENTCOM and AFRICOM during week 52^{1,8,9}

- ◆ There was a sharp increase in ILI and P&I activity.
- ◆ ILI and P&I activity for week 52 was above baseline and previous seasons.

CENTCOM, Influenza Activity, During the Last 2 Weeks



Southern Command -- Week 52 (Local Nationals Only)

In SOUTHCOM during week 52¹⁰

- ◆ 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 ILI and SARI activity caused by RSV has started to trend downwards.

2014-2015 SOUTHCOM Season Totals Among Local Nationals ¹⁰				
	A/H1N1	A/H3N2	A/Untyped	Influenza B
Colombia	0	10	0	4
Peru	13	139	2	49

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