



DEPARTMENT OF DEFENSE (AFHSB) Seasonal Influenza Surveillance Summary

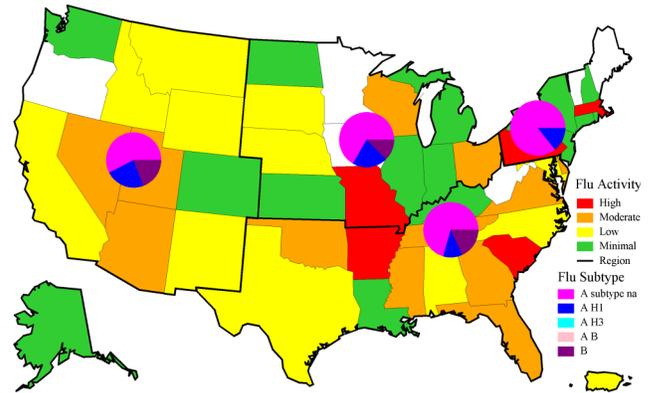


Northern Command -- Week 06 (07 Feb 2016—13 Feb 2016)

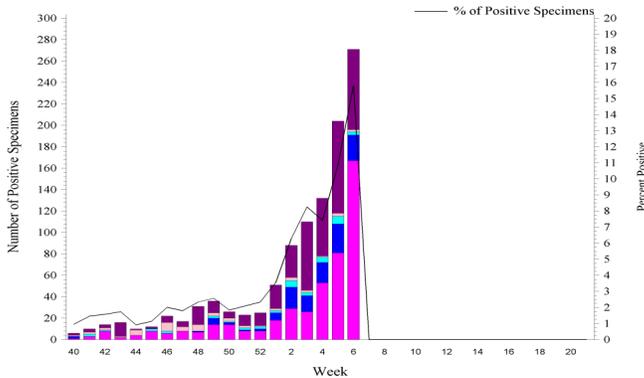
In NORTHCOM during week 06^{1,2}

- ◆ Influenza activity increased and was low to high in the majority of states.
- ◆ The percentage of outpatient visits due to ILI increased to slightly above previous seasons this week.
- ◆ A/H1N1 and B viruses continued to predominate.
- ◆ The percentage of positive lab tests increased to the highest levels this season at 15.3% for service members and 15.8% for beneficiaries.
- ◆ An additional three beneficiary influenza hospitalizations (RME) were reported for week 05, bringing the total to 7.

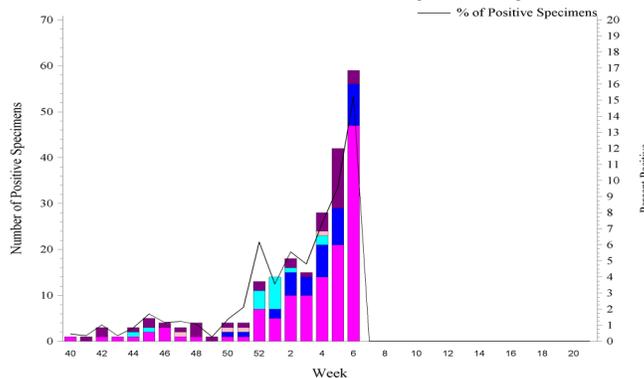
NORTHCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



NORTHCOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



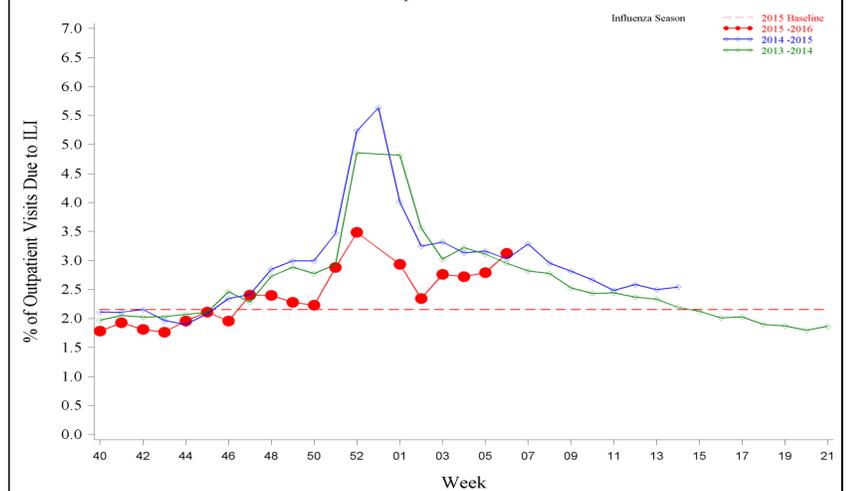
NORTHCOM Service Members, Influenza Positive Specimens Reported to AFHSB



2015 – 2016 NORTHCOM Season Totals^{1,2}

	A/H1N1	A/H3N2	A/Untyped	Flu B	AB	Overall % Positive
Service Members	37	16	127	39	4	3.73
Dependents	126	40	465	422	51	4.77

NORTHCOM Service Members, 2015-2016 and Previous 2 Influenza Seasons ILI Outpatient Visits



- ◆ NHRC laboratory-confirmed influenza cases, US Military Basic Trainees: As of Week 06

	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									64
Ft Jackson									58
Ft Leonard Wood									51
NRTC Great Lakes			2				2		27
Lackland AFB									21
MCRD Parris Island			1				1		50
MCRD San Diego						12		1	141
CGTC Cape May						3		7	38
Total	0	0	3	0	0	15	3	8	450

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

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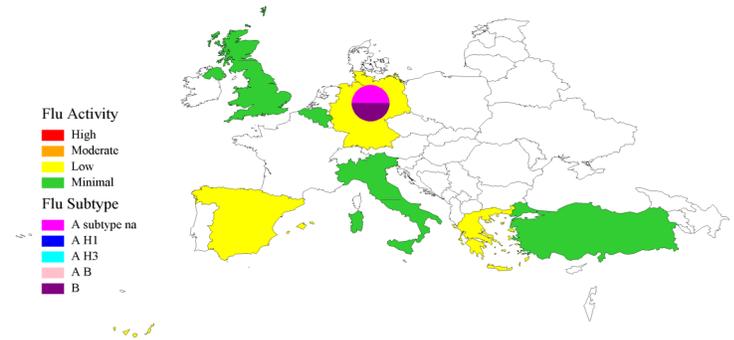


European Command -- Week 06

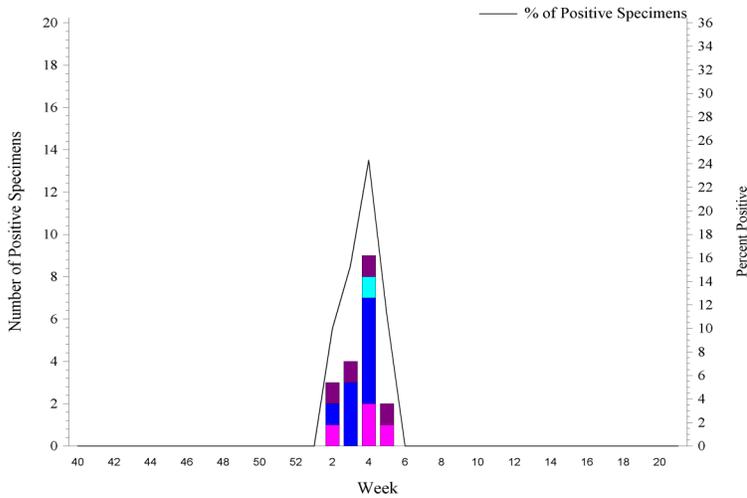
In EUCOM during week 06^{4,5}

- ◆ Influenza activity was minimal to low in EUCOM.
- ◆ The percentage of outpatient visits due to ILI increased slightly, but remained below previous seasons.
- ◆ The percentage of positive lab tests for week 06 was 0% for service members and 20.7% for beneficiaries.
- ◆ Influenza A/H1N1 and B viruses are predominating this season.

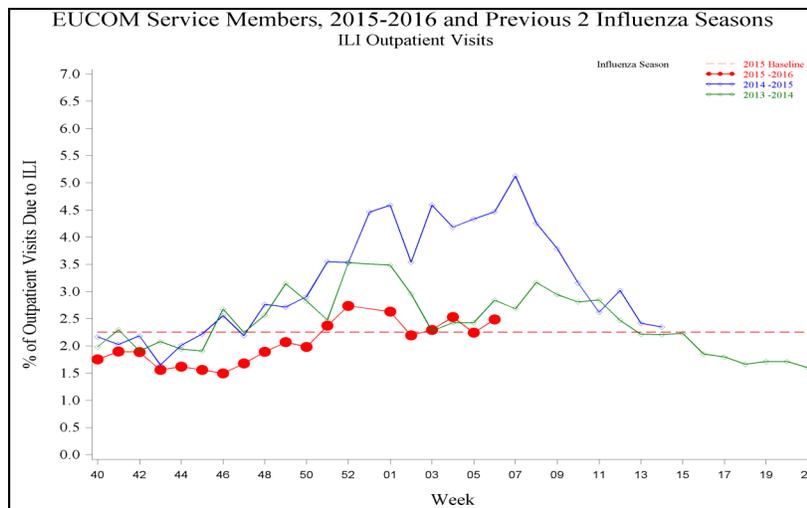
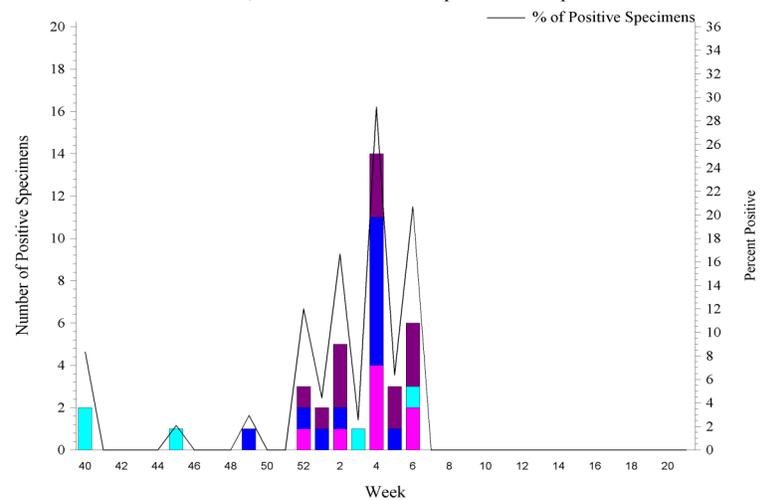
EUCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



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	9	1	4	4	0	5.44
Dependents	12	5	8	13	0	5.31

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

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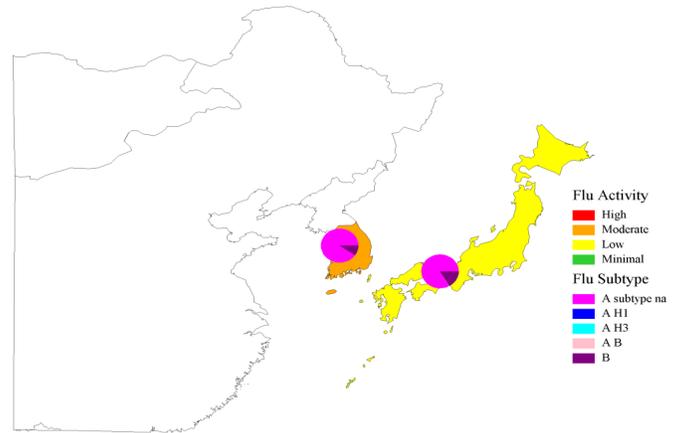


Pacific Command -- Week 06

In PACOM during week 06^{1,6,7}

- ◆ Influenza activity increased to moderate in the Republic of Korea and low in Hawaii.
- ◆ The percentage of outpatient visits due to ILI increased, but remained below previous seasons.
- ◆ The percentage of positive lab tests increased to the highest levels this season at 28.8% for service members and 37.6% for beneficiaries.
- ◆ Two beneficiaries had influenza hospitalizations (RME), one during week 05 and one during week 06.

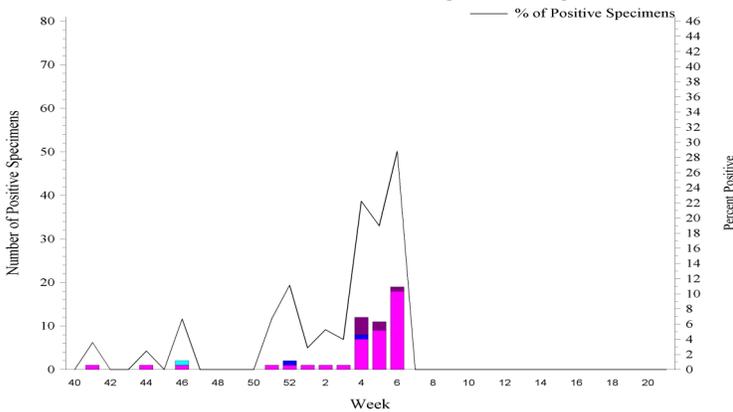
PACOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks South Korea and Japan



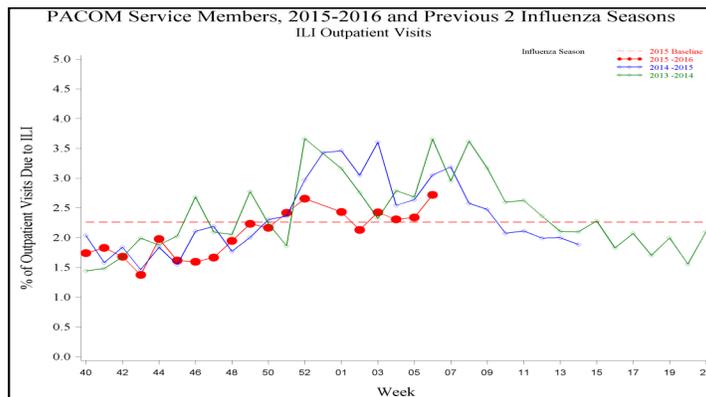
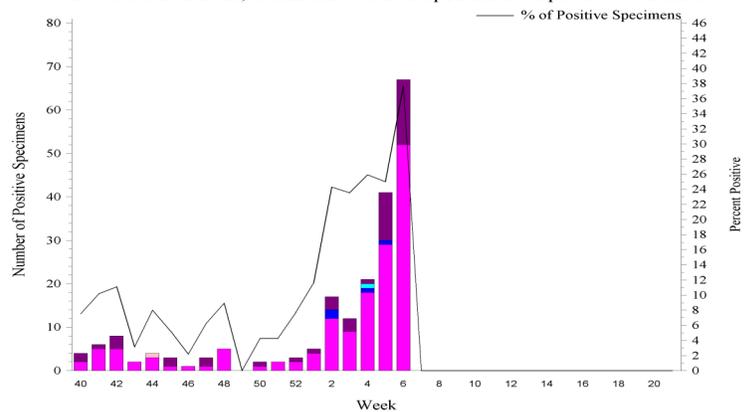
PACOM: Guam and Hawaii Influenza Activity and HL7 Test Positive (MAP: SM+BN, 2 wks)						
Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
Guam	Minimal	0	0	7	0	0
Hawaii*	Low	0	0	6	1	0

*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	2	1	42	7	0	8.77
Dependents	4	1	154	46	1	16.04

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

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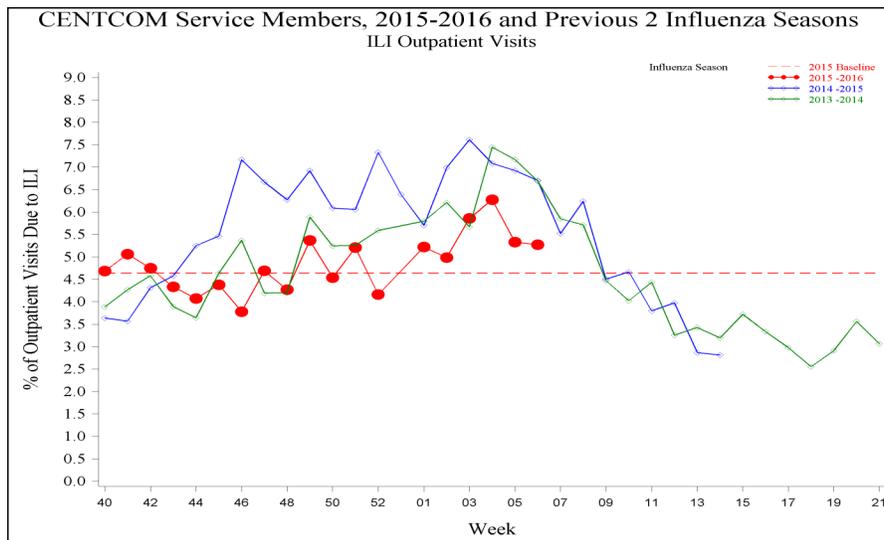


Central and Africa Commands -- Week 06

In CENTCOM and AFRICOM during week 06^{1,8,9}

- ◆ Influenza activity decreased to minimal across CENTCOM and AFRICOM.
- ◆ The percentage of outpatient visits due to ILI continued to decrease and remained lower than previous seasons.
- ◆ One service members influenza hospitalization (RME) was reported for week 06.

CENTCOM, Influenza Activity, During the Last 2 Weeks



Southern Command -- Week 06

In SOUTHCOM during week 06¹⁰

- ◆ 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.

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