



DEPARTMENT OF DEFENSE (AFHSB) Seasonal Influenza Surveillance Summary

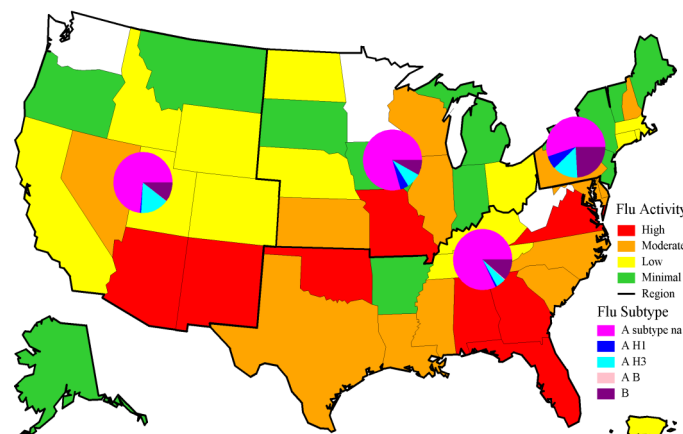


Northern Command -- Week 04 (21 Jan 2018—27 Jan 2018)

In NORTHCOM during week 04

- ◆ Influenza activity remained low to high for the majority of the states.
- ◆ The percentage of outpatient visits due to ILI decreased slightly from last week, but remained well above baseline and previous seasons.
- ◆ The percentage of positive lab tests remained high, but decreased slightly to 23.6% for service members and increased to 31.6% for other beneficiaries for week 04.
- ◆ Among influenza A specimens that were subtyped, the majority continued to be A/H3N2.
- ◆ One service member and one other beneficiary influenza hospitalizations (RMEs) were reported for week 04.

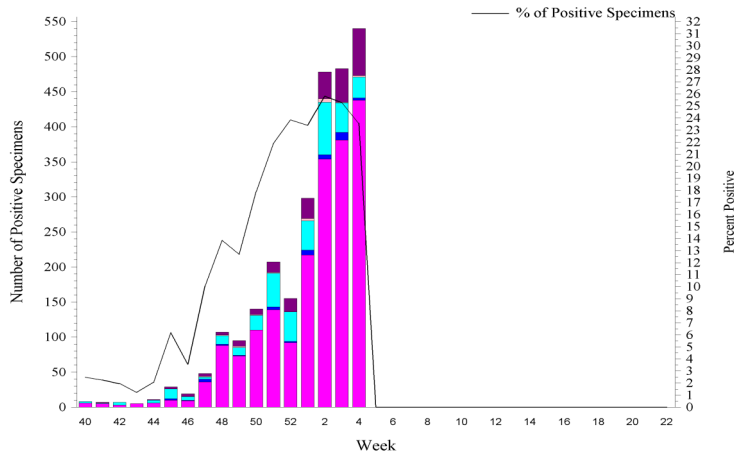
NORTHCOM Service Members, Influenza Activity and Virus Subtype, During the Last 2 Weeks



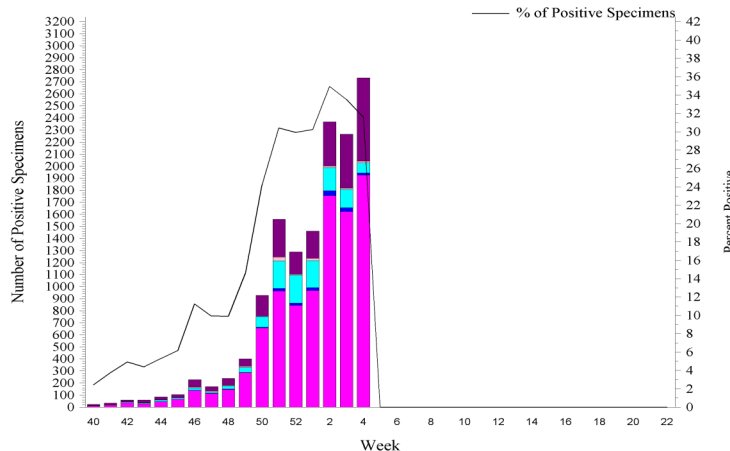
2017 – 2018 NORTHCOM Season Totals

	A/H1N1	A/H3N2	A/Untyped	Flu B	AB	Overall % Positive
Service Members	43	356	1972	249	17	18.02
Dependents	170	1339	9634	2724	142	24.61

NORTHCOM Service Members, Influenza Positive Specimens Reported to AFHSB

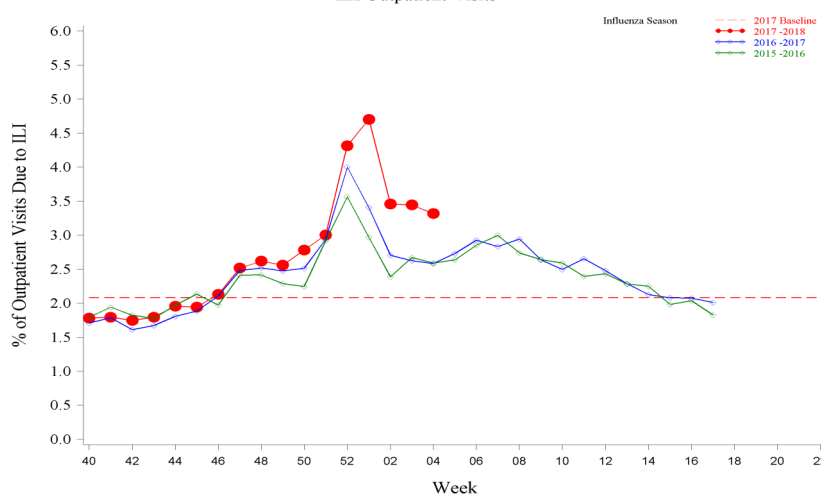


NORTHCOM Beneficiaries, Influenza Positive Specimens Reported to AFHSB



Disclaimer: Medical data from Military Treatment Facilities that are using MHS GENESIS are not available in DMSS. This includes Naval Hospital Oak Harbor, Naval Hospital Bremerton, Air Force Medical Services Fairchild, and Madigan Army Medical Center. Therefore, individuals who are expected to seek care at one of these facilities are currently being removed from the study population as we will not capture their medical encounters.

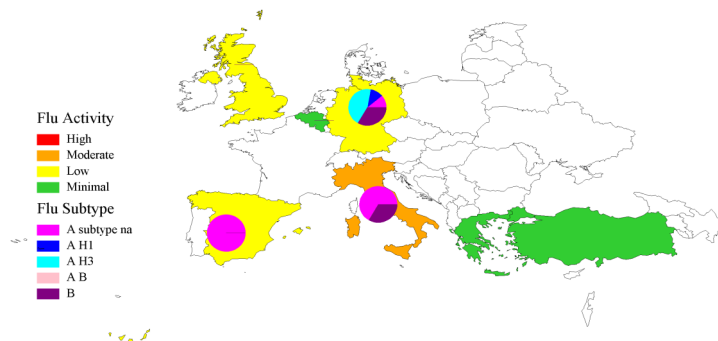
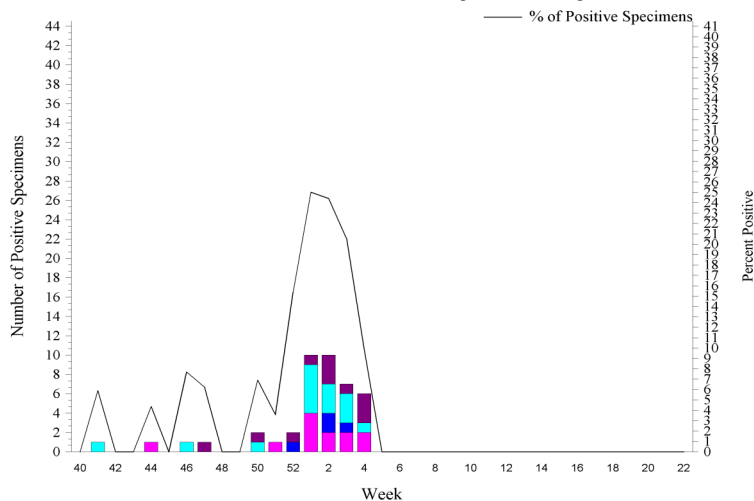
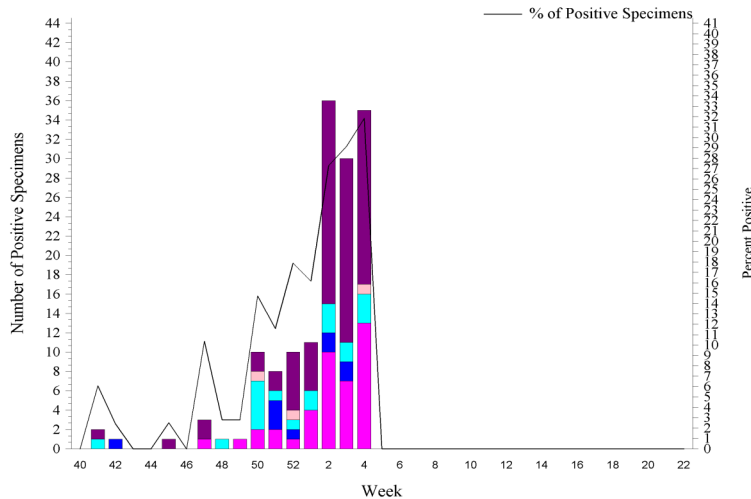
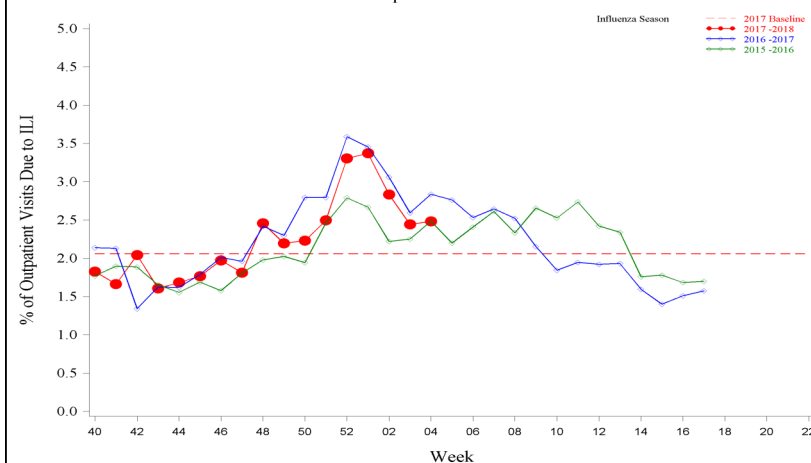
NORTHCOM Service Members, 2017-2018 and Previous 2 Influenza Seasons ILI Outpatient Visits



For inquiries or comments please contact dha.ncr.health-surv.mbx.afhs-commcenter@mail.mil

**European Command -- Week 04****In EUCOM during week 04**

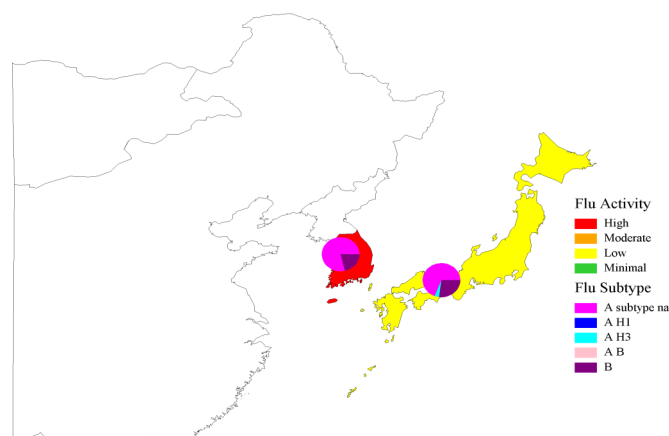
- ◆ Influenza activity in EUCOM remained similar to last week with Italy continuing to experience moderate activity.
- ◆ The percentage of outpatient visits due to ILI was similar to last week and remained above baseline and similar to previous seasons.
- ◆ The percentage of positive lab tests dropped substantially to 9.8% for service members, but increased to 31.8% for other beneficiaries for week 04.
- ◆ No influenza hospitalizations (RMEs) were report in EUCOM during week 04.

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****EUCOM Service Members, 2017-2018 and Previous 2 Influenza Seasons****2017-2018 EUCOM Season Totals**

	A/H1N1	A/H3N2	A/Untyped	Influenza B	AB	Overall % Positive
Service Members	4	15	12	11	0	9.91
Dependents	9	19	41	77	3	15.94

**Pacific Command -- Week 04****In PACOM during week 04**

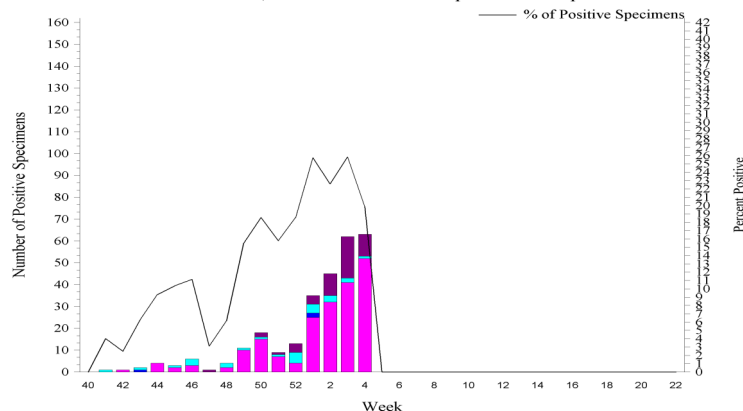
- ◆ Influenza activity in PACOM continued to vary by country, but remained high in the Republic of Korea during week 04.
- ◆ The percentage of outpatient visits due to ILI decreased, but remained above baseline and previous seasons.
- ◆ The percentage of positive lab tests decreased to 19.9% for service members and 24.0% for other beneficiaries during week 04.
- ◆ Among influenza A specimens that were subtyped, the majority continued to be A/H3N2. There has been an increase in influenza B positive specimens since week 02.
- ◆ No influenza hospitalizations (RMEs) were report in PACOM during week 04.

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)**

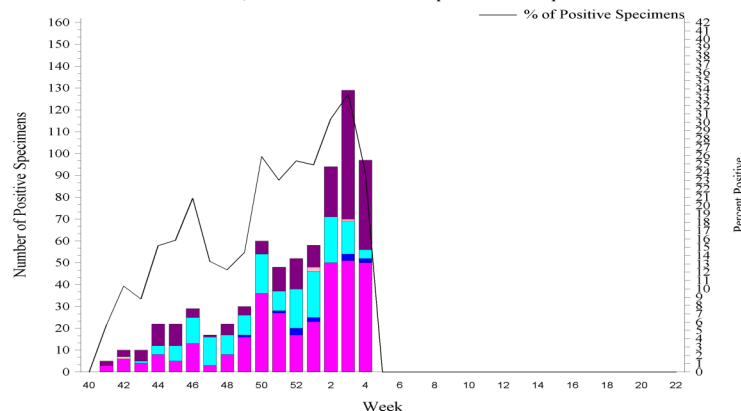
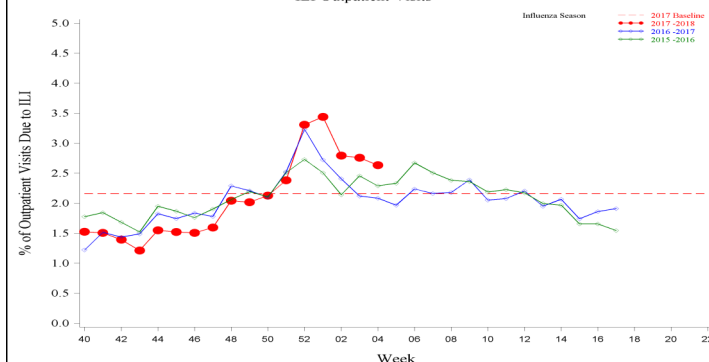
Area Name	Influenza Activity	HL7 Type				
		A(H1)	A(H3)	A Untyped	B	AB
Guam	Minimal	0	0	4	2	0
Hawaii*	Minimal	4	16	44	45	0

*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

**PACOM Service Members, 2017-2018 and Previous 2 Influenza Seasons**
ILI Outpatient Visits**2017-2018 PACOM Season Totals**

	A/H1N1	A/H3N2	A/Untyped	Flu B	Flu AB	Overall % Positive
Service Members	3	26	198	51	0	18.08
Dependents	12	161	320	208	4	21.40

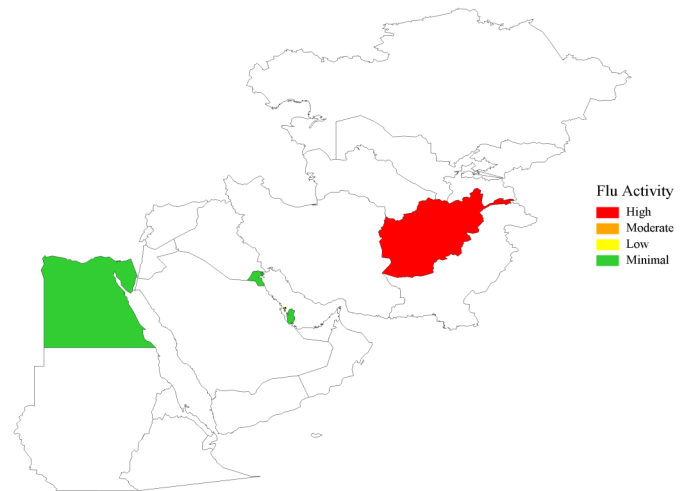


Central Command -- Week 04

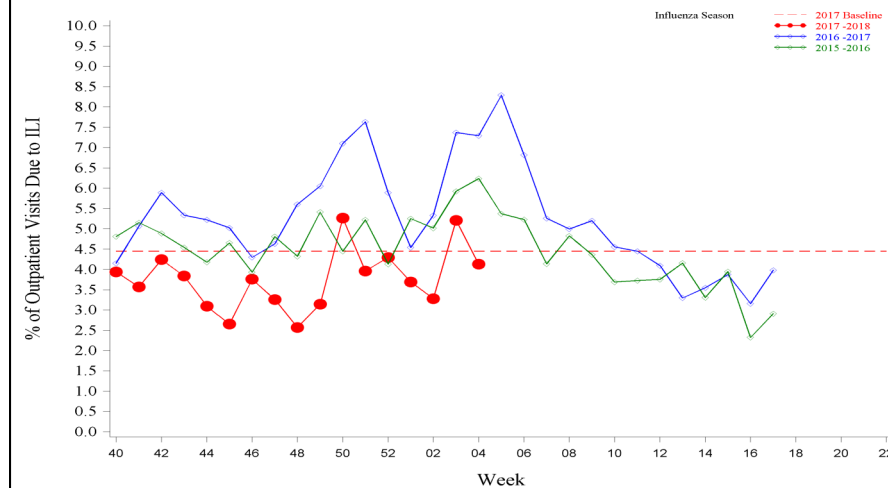
In CENTCOM during week 04

- ◆ Due to issues in receiving TMDS data, the data presented in the map and figure are not complete for week 04.
- ◆ Influenza activity increased to high in Afghanistan, but was minimal in other CENTCOM locations with available data.

CENTCOM, Influenza Activity, During the Last 2 Weeks



CENTCOM Service Members, 2017-2018 and Previous 2 Influenza Seasons
ILI Outpatient Visits



Southern Command -- Week 04

In SOUTHCOM during week 04

- ◆ Due to issues in receiving TMDS data, we do not have data for influenza activity in Honduras for week 04.

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.

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